

TENDER SPECIFICATION

SI No	Tender Specification Number	Unit Number & Project
1	BHE/PW/PUR/UKT ESP Repair U # 6/ 1425	Unit 6 Ukai TPS

FOR

**Transportation of materials from GSECL/BHEL stores after completion of statutory formalities, unloading/storage of fresh materials at site ,arrangement of Crane (150 Ton or suitable capacity), gantry, winches and other tools and tackles, consumables and dismantling, erection, testing & assistance for commissioning, trial operation and handing over of electrostatic precipitator after insulation & final painting etc. of. ESP at
Unit#6, 500 MW,
Ukai TPS.**

VOLUME – I-Technical Bid

TENDER SPECIFICATIONS CONSISTS OF:

- Notice Inviting Tender
- Volume 1 A - Technical Conditions of Contract,
- Volume 1 B - Special conditions of Contract,
- Volume 1 C - General conditions of Contract
- Volume 1 D - Forms & Procedures
- Volume 1 E – Painting Specification



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

Volume No	Description	Hosted in website bhel.com as files titled
NIL	Tender Specification Issue Details	(Part of <u>Vol-IA-1425</u>)
NIL	Notice Inviting Tender	(Part of <u>Vol-IA-1425</u>)
I-A	Technical Conditions of Contract	<u>Vol-IA-1425</u>
I-B	Special Conditions of Contract	<u>Vol-IBCD-1425</u>
I-C	General Conditions of Contract	(Part of <u>Vol-IBCD-1425</u>)
I-D	Forms & Procedures	(Part of <u>Vol-IBCD-1425</u>)
II	Price Bid Specification	<u>Vol-II-1425</u>

1425

NOTICE INVITING TENDER

Bharat Heavy Electricals Limited



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/UKT ESP Repair U # 6/ 1425
ii	Broad Scope of job	Transportation of materials from GSECL/BHEL stores after completion of statutory formalities, unloading/storage of fresh materials at site ,arrangement of Crane (150 Ton or suitable capacity), gantry, winches and other tools and tackles, consumables and dismantling, erection, testing & assistance for commissioning, trial operation and handing over of electrostatic precipitator after insulation & final painting etc. of. ESP Unit#6, 500 MW, Ukai TPS.
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	<ol style="list-style-type: none"> <u>Sale from BHEL PS Regional office at :</u> Start : 25/03/2015, Closes: 31/03/2015 , Time : 16.00 Hrs From BHEL website (www.bhel.com) Tender documents will be available for downloading from website till due date of submission <i>Applicable</i>

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v	DUE DATE & TIME OF OFFER SUBMISSION	Date : 01/04/2015, Time 15.00 Hrs Place : <u>BHEL PS Regional office at :Nagpur</u> Tenders being submitted through representative 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: <ul style="list-style-type: none"> • Pratish Gee Varghese/Sr Engineer(Purchase) • Shivkesh Meena / Engineer (Purchase) 	Applicable
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 1,50,000/- (Rupees One Lakh Fifty Thousand Only)	Applicable
viii	COST OF TENDER	Rs 2000/-.	Applicable
ix	LAST DATE FOR SEEKING CLARIFICATION	Three days before the due date of offer submission. Along with soft version also, addressing to undersigned & to others as per contact address given below	Applicable
x	SCHEDULE OF Pre Bid Discussion (PBD)		Not Applicable.
xi	INTEGRITY PACT & DETAILS OF INDEPENDENT EXTERNAL MONITOR (IEM)		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) <u>and not in the newspapers</u> . 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

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- 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>ENVELOPE – I superscribed as : PART-I (TECHNO COMMERCIAL BID) TENDER NO : NAME OF WORK : PROJECT: DUE DATE OF SUBMISSION:</p> <p>CONTAINING THE FOLLOWING:-</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>Note:</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.	<p>Supporting documents/ annexure/ schedules/ drawing etc as required in line with Pre-Qualification criteria.</p> <p>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.</p>	
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.	

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PART-I B	
	<p>ENVELOPE – II superscribed as: PART-I (EMD/COST of TENDER) TENDER NO : NAME OF WORK : PROJECT: DUE DATE OF SUBMISSION:</p> <p>CONTAINING THE FOLLOWING:-</p>
i.	<p>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</p> <p>2. Cost of Tender (Demand Draft or copy of Cash Receipt as the case may be)</p>

PART-II	
	<p>PRICE BID consisting of the following shall be enclosed</p> <p>ENVELOPE-III superscribed as: PART-II (PRICE BID) TENDER NO : NAME OF WORK : PROJECT: DUE DATE OF SUBMISSION:</p> <p>CONTAINING THE FOLLOWING</p>
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.

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- 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 VOID
- 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 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.

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- 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 Consortium Bidding (or Technical Tie up) shall be allowed only if specified in Pre Qualifying Requirement (PQR) criteria, and in such a case the following shall be complied with:
- 23.1 Prime Bidder and Consortium Partner or partners are required to enter into a consortium agreement with a validity period of six months initially. In case the consortium is awarded the contract, then the Consortium Agreement between the Prime Bidder and Consortium Partner or partners shall be extended till contractual completion period including extension periods if any applicable.
- 23.2 'Stand alone' bidder cannot become a **'Prime Bidder' or a 'Consortium bidder' or 'Technical Tie up bidder' in a consortium (or Technical Tie up) bidding**. Prime bidder shall neither be a consortium partner to other prime bidder nor take any other consortium partners. However, consortium partner may enter into consortium agreement with other prime bidders. In case of non compliance, consortium bids of such Prime bidders will be rejected.
- 23.3 Number of partners for a consortium Bidding (or Technical Tie up) shall be as specified in the PQR
- 23.4 Prime Bidder shall be as specified in the Pre Qualification Requirement, else the bidder who has the major share of work
- 23.5 In order to be qualified for the tender, Prime Bidder and Consortium partner or partners shall satisfy (i) the Technical 'Pre Qualifying Requirements' specified for the respective package, (ii) "Assessment of Capacity of Bidder" as specified in clause 9.0
- 23.6 Prime Bidder shall comply with additional 'Technical' criteria of PQR as defined in 'Explanatory Notes for the PQR'
- 23.7 Prime Bidder shall comply with all other Pre Qualifying criteria for the Tender unless otherwise specified
- 23.8 In case customer approval is required, then Prime Bidder and Consortium Partner or partners shall have to be individually approved by Customer for being considered for the tender.
- 23.9 Prime Bidder shall be responsible for the overall execution of the contract
- 23.10 In case of award of job, Performance shall be evaluated for Prime Bidder and Consortium Partner or partners for their respective scope of work(s) as per prescribed formats
- 23.11 In case the Consortium partner or partners back out, their SDs shall be encashed by BHEL. In such a case, other consortium partner or partners meeting the PQR have to be engaged by the Prime Bidder, and if not, the respective work will be withdrawn and executed on risk and cost basis of the Prime Bidder. The new consortium partner or partners shall submit fresh SDs as applicable.
- 23.12 In case the prime Bidder withdraws, the whole contract shall be considered cancelled and short closed.
- 23.13 After execution of work, the work experience shall be assigned to the Prime Bidder and the consortium partner or partners for their respective scope of work. After successful execution of two similar works with the same consortium partner or partners under direct orders of BHEL, the Prime Bidder shall be eligible for becoming a

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'stand alone' bidder for similar works, subject to certification from BHEL about the active involvement of the Prime Bidder for satisfactory execution of the works.

- 23.14 The consortium partner shall submit SD equivalent to 2% of the total contract value in addition to the SD to be submitted by the prime Bidder for the total contract value. In case there are two consortium partners, then each partner shall submit SD equivalent to 1% of the total contract value in addition to the SD to be submitted by the prime Bidder for the total contract value.
- 23.15 In case of a Technical Tie up, all the clauses applicable for the Consortium partner shall be applicable for the Technical Tie up partner also
- 24.0 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.
- 25.0 The bidder may have to produce original document for verification if so decided by BHEL.
- 26.0 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

It may please be noted that guidelines/rules in respect of suspension of business dealings', 'Vendor evaluation format', 'Quality, Safety & HSE guidelines', etc may undergo change from time to time and the latest one shall be followed

for BHARAT HEAVY ELECTRICALS LTD

AGM Pur

Enclosure

1. Annexure-1: Pre Qualifying criteria.
2. Annexure-2: Check List .
3. Annexure-3: Important Information .
4. Other Tender documents as per this NIT.

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ANNEXURE - 1

PRE QUALIFYING CRITERIA

JOB	Transportation of materials from GSECL/BHEL stores after completion of statutory formalities, unloading/storage of fresh materials at site ,arrangement of Crane (150 Ton or suitable capacity), gantry, winches and other tools and tackles, consumables and dismantling, erection, testing & assistance for commissioning, trial operation and handing over of electrostatic precipitator after insulation & final painting etc. of ESP Unit#6, 500 MW, Ukai TPS.
TENDER NO	BHE/PW/PUR/UKT ESP Repair U # 6/ 1425

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) (Note: To be submitted by Prime Bidder & Consortium/Technical Tie up partner jointly in case Consortium bidding is permitted, otherwise by the sole bidder)	NOT APPLICABLE	
B	<p><u>Technical</u></p> <p><u>Bidder Must have achieved any one of the following:</u></p> <ol style="list-style-type: none"> 1. The bidder should have executed <u>Erection & commissioning (E&C)</u> of atleast one unit of complete <u>Boiler / ESP</u> of 30 MW or higher rating in the last seven years as on latest date of bid submission. OR 2. The bidder should have executed <u>Annual Overhauling OR Capital Overhauling OR Renovation & Modernization (R&M)</u> of atleast one unit of <u>Boiler / ESP</u> of 100MW or higher rating in the last seven years as on latest date of bid submission. OR 3. The bidder should have executed (Dismantling / Erection / Erection & Commissioning) pressure part/non pressure part works of Boiler/ESP of 30MW or Higher rating in the last seven years as on latest date of bid submission as below: <ol style="list-style-type: none"> A. One similar work of value not less than Rs. 65 Lakhs against single work 	APPLICABLE	

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	<p>order.</p> <p style="text-align: center;">OR</p> <p>B. Two similar works each of value not less than Rs. 41 Lakhs against maximum two work orders.</p> <p style="text-align: center;">OR</p> <p>C. Executed Three similar works each of value not less than Rs. 33 Lakhs against maximum three work orders.</p>		
C-1	<p>Financial TURNOVER Bidders/prime bidders must have achieved an average annual financial turnover (Audited) of Rs 25 Lakhs or more over last three Financial Years (FY) i.e. 2011-12 2012-13 & 2013-14</p>	APPLICABLE	
C-2	<p>NETWORTH (only in case of Companies) Net worth of the Prime Bidder based on the latest Audited Accounts as furnished for 'C-1' above should be positive</p>	APPLICABLE	
C-3	<p>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.</p>	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	<p>Approval of Customer (if applicable)</p> <p>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.</p>	Not APPLICABLE	BY BHEL
F	<p>Price Bid Opening</p> <p>Note: Price Bids of only those bidders shall be opened who stand qualified after compliance of criteria A to E</p>		BY BHEL
F	Consortium criteria (if applicable)	NOT APPLICABLE	
<p><u>Explanatory Notes for the PQR (unless otherwise specified in the PQR):</u></p> <ol style="list-style-type: none"> i. 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 ii. 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. iii. 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) iv. 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 v. '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: 			

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	<p>_____OR</p> <p>_____OR</p> <p>(Value XXX, YYY, ZZZ shall be as indicated by BHEL</p> <p>2. 'Similar' work for criteria 5 above means</p> <p>a. _____ One (1) work of value not less than Rs XXX</p> <p>b. _____ Two (2) works of not less than Rs YYY</p> <p>c. _____ Three (3) works of not less than Rs ZZZ</p> <p>a. _____ Civil or Structures or Civil & Structures or Chimney respectively as applicable to the tendered scope in respect of 'CIVIL' Works</p> <p>b. _____ Electrical works in respect of 'ELECTRICAL'</p> <p>c. _____ CI works in respect of 'CI' Works</p> <p>d. _____ Material Handling and/or Management works in respect of 'MM' works</p> <p>vi. 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 unless otherwise specified</p> <p>vii. '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>viii. Unless otherwise specified, for the purpose of 'Technical' criteria of PQR (as in 'B' above), the word 'EXECUTED' means:</p> <p>1. Term 'Commissioning' indicated in PQR refers to 'assistance to commissioning' / 'commissioning'</p> <p>2. "BOILER LIGHT UP" in respect of Boiler & Aux and ESP</p> <p>3. "SYNCHRONISATION" in respect of STG/GTG and "SPINNING" in case of HTG</p> <p>4. "STEAM BLOWING COMPLETION" in respect of at least Main Steam Line of Power Cycle Piping</p> <p>5. "HYDRAULIC TEST" of the system in respect of Structures, Pressure parts/IBR Piping</p> <p>6. "CHARGING" in respect of power Transformers, Bus ducts, HT/LT switchgears</p> <p>7. "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.</p> <p>8. Achievement of physical Quantities as per respective PQRs in respect of Civil & Structures and Piling Works</p> <p>9. "Readiness for coal Filling" in respect of Bunker Structure Work.</p> <p>ix. Boiler means HRSG or WHRB or any other types of Steam Generator consisting of Boiler Structures and Pressure Parts</p> <p>x. Critical/Power Cycle piping means Main Steam, Hot Reheat, Cold Reheat, HP Bypass, LP Bypass lines</p> <p>xi. 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>xii. 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>xiii. 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>xiv. 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>xv. 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>
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BIDDER SHALL SUBMIT ABOVE PRE-QUALIFICATION CRITERIA FORMAT, DULY FILLED-IN, SPECIFYING RESPECTIVE ANNEXURE NUMBER AGAINST EACH CRITERIA AND FURNISH RELEVANT DOCUMENT IN THE RESPECTIVE ANNEXURES IN THEIR OFFER.

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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(B Y 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/ Not Applicable	YES/NO
8	Copy of PAN Card	Applicable/ Not Applicable	YES/NO
9	Whether all pages of the Tender documents including annexures, appendices etc are read understood and signed	Applicable/ Not Applicable	YES/NO
10	Integrity Pact	Not Applicable	
11	Declaration by Authorised Signatory	Applicable/ Not Applicable	YES/NO
12	No Deviation Certificate	Applicable/ Not Applicable	YES/NO
13	Declaration confirming knowledge about Site Conditions	Applicable/ Not Applicable	YES/NO
14	Declaration for relation in BHEL	Applicable/ Not Applicable	YES/NO

Registered Office : BHEL House, Siri Fort, New Delhi – 110 049, India
Website : www.bhel.com

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15	Non Disclosure Certificate	Applicable/Not Applicable	YES/NO
16	Bank Account Details for E-Payment	Applicable/Not Applicable	YES/NO
17	Capacity Evaluation of Bidder for current Tender	Applicable/Not Applicable	YES/NO
18	Tie Ups/Consortium Agreement are submitted as per format	Applicable/Not Applicable	YES/NO
19	Power of Attorney for Submission of Tender/Signing Contract Agreement . Also the Power of Attorney of the signatories executing the Consortium Agreement	Applicable/Not Applicable	YES/NO
20	Analysis of Unit rates	Applicable/Not 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 :

**AUTHORIZED SIGNATORY
(With Name, Designation and Company seal)**

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Annexure-3

IMPORTANT INFORMATION

Sealed Tenders shall be submitted at following address to AGM /Purchase BHEL PSWR NAGPUR:

BHEL PSWR, SRIMOHINI COMPLEX , 345 KINGSWAY, NAGPUR 440001, INDIA

All correspondences regarding this tender shall be addressed to AGM / PURCHASE BHEL PSWR at above address. Bidders may also opt to correspond with following BHEL officials regarding this tender through email at following email ids . However please be informed that sealed tenders shall necessarily be submitted in original at above address:

AGM Purchase, Email id: ska@bhelpswr.co.in. Ph: +91 – 712 – 3048633

Sr Engineer Purchase, Email: pgv@bhelpswr.co.in, Ph: +91 – 712 – 3048713

Engineer Purchase, Email id: svm@bhelpswr.co.in , Ph: +91 – 712 – 3048715

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. Following Notes are added to Form F- 15 of Volume I D 'Forms & procedures'

- i. It is only indicative and shall be as per the online format issued by BHEL time to time.
- ii. No request will be entertained after specified date of the current month w.r.t the changes requested in the scores of immediate previous month.

5. Please take note of following clauses of GCC which are not applicable/amended for subject tender:

- i. PVC is not applicable
- ii. Progress Monitoring, Monthly Review and Performance Evaluation of Vol-I BCD is not applicable. Separate Performance evaluation as per SAS format shall be done
- iii. Overrun compensation is not applicable
- iv. Interest bearing recoverable advances is not applicable
- v. Quantity variation is not applicable
- vi. Extra works in man-hours is not applicable

-
- vii. Workmanship guarantee period shall be 2 months.

6.Void

7.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:

- 7.1. 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).
- 7.2. 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.
- 7.3. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
- 7.4. 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.
- 7.5. 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.
- 7.6. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
- 7.7. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
- 7.8. 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.
- 7.9. 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.
- 7.10. Reverse auction will be conducted on scheduled date & time.

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- 7.11. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
 - 7.12. 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.
 - 7.13. 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.
 - 7.14. 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.
 - 7.15. 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.
 - 7.16. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.

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

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TECHNICAL CONDITIONS OF CONTRACT (TCC)

BHARAT HEAVY ELECTRICALS LIMITED



TECHNICAL CONDITIONS OF CONTRACT (TCC)

1. Scope of work: As per the annexure – I

2. Period of completion:

Works is to be completed within period of **60 days**.

3. Mobilisation Period: you will have to mobilize the site within **7 days** after receiving intimation from BHEL.

4. Manpower:

You shall arrange the manpower required for carrying out the above work for scope of work given in Annexure-I&II. Arrangement for additional manpower & T&P required for completing the job within stipulated period shall be the responsibility of the contractor and shall be arranged by contractor.

5. Terms of Payment:

Terms of Payment:-

1. Pass B:-

- Ø 5 % on Transportation of material at site
- Ø 5 % on Arrangement of crane/gantry as per local condition
- Ø 15% on Erection of Pass B (2 Nos. Field)

2. Pass C:-

- Ø 5 % on Transportation of material at site
- Ø 5 % on Arrangement of crane/gantry as per local condition
- Ø 45 % on Erection of Pass C (5 Nos. Field)

3. 10% on settlement of all punch point and trial, testing and commission of ESP & Expert payment.

4. 10% on after one month of commissioning and successfully running of ESP and submission All statutory document (Labour license, NOC, Insurance, WCT etc.)

6. T&Ps.

All T&P required for the above mentioned job should be arranged by you before commencement of the job. The T&P available with customer supplied as standard tools of BHEL will be handed over to you during execution of work as where is condition on returnable basis.

7. Consumables

TECHNICAL CONDITIONS OF CONTRACT (TCC)

All consumable items including special type of electrodes shall be arranged by you before commencement of the job.

8. Earnest Money Deposit:

As per Notice Inviting Tender

9. Rate

You should quote your lowest lump sum rate as in Volume II Price Bid for the scope of work mentioned in Annexure- I

It is a Services job and hence no extra work shall be payable on this account. This may please be noted before quoting the tender enquiry.

10. Expected date of commencement:-

The above job is expected to commence in the first week of March –April 2015. The requisite man/T&P etc have to be mobilized immediately without fail. You shall arrange accommodation and transport for your staff and transport of material at site during the course of execution of above job.

11. Validity

As per Notice Inviting Tender

12. Unsatisfactory Progress of works:

If your work is found not satisfactory or not progressing according to schedule given by the BHEL/GSECL . BHEL may take such action as may be deemed appropriate to see that work is completed in time at your risk and cost.

13. Statutory Obligations, Safety and Security:

Contractor and all his personnel deployed on the work shall adhere to and abide by the safety provision/norms specified and as required by BHEL and their Customer. In case of violation of any provision is noticed at any time, a fine at the discretion of our Engineer-In- Charge or as levied by BHEL and/or their Customer shall be imposed for each of such violation and shall be recovered from the contractor's Running Account Bills or any other payments due. The contractor shall submit his safety plan to BHEL Site In charge. The contractor shall maintain and submit the following records for inspection anytime by BHEL/their Client/any statutory Authority.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

- | | |
|------------------------------------|-----------------------------|
| a) Attendance Register of Workers. | h) Fine Register. |
| b) Pay/Wages Register. | i) Leave Register. |
| c) Advance Payment Register. | j) Provident Fund Register. |
| d) O.T. Register. | k) Bonus Register. |
| e) Identity Card Register. | l) Labour license. |
| f) Privilege Leave Register. | |
| g) Workers List Register | |

Contractor shall arrange round the clock security and watch & ward for the safety and security of materials, items.

Tools and Plants & Spares issued to him during execution of the work. He shall also maintain proper lock & key

arrangement for storing the items dismantled from Unit or issued to him by customer. In case of any loss and/or

damage to any of the equipment / spares the contractor will be held responsible.

14. Other terms and conditions:

1. Contractor should arrange proper and adequate Insurance covers for all the employee deputed/deployed by him at the site for the work.
2. Contractor has to furnish establishment code numbers and deduct EPF as per rules and submit a proof of its remittance to BHEL.
3. Necessary Labour license should be obtained based on the Form-5 issued by the Principal Employer in your name. The copy should be submitted to BHEL site I/C.
4. Wage payment to the employees should be witnessed by BHEL site I/C or his nominee and a copy of wage register duly certified are submitted to BHEL site I/C.
5. Proper records are required to be maintained by the contractor on the material drawn from the stores (Includes BHEL's supply as well as spares issued from GSECL UkaiTPS).
6. Security and safety of the labour of the contractor to be ensured as per statutory requirements particularly use of PPE's such as helmets, safety shoes, safety belts, welding goggles, safety hand gloves etc must be ensured and without safety provision may not be allowed to entry in plant premises and working place.
7. All the logistics and procedural formalities required to be done at the Power Station for mobilization and to be followed during the course of execution are to be taken care of by Contractor. You may visit the Site and ascertain the same before quoting priced offers.
8. All contractor staff and workmen should bear safety helmet and safety shoe

TECHNICAL CONDITIONS OF CONTRACT (TCC)

9. In addition to above .Contractor has to engage one ESP Ex-BHEL expert for erection as well one more EX-BHEL Expert for testing and commissioning in consultation with SAS Baroda, payment to this expert (2 nos) shall be made by contractor on per day basis.

15. Performance Guarantee:

Schedule-A The contractor shall guarantee against any defects attributable to faulty workmanship/ procedure adopted/ deterioration in performance of machine in the overhaul for items covered in the contract for a period of 60 days from the date of synchronisation of the machine. The guarantee should cover all the defects noticed during this period and shall have to be attended by the contractor free of cost immediately or at the time our clients are able to give shut down of the machine for the required period when necessary.

Final payment will be made only after confirming satisfactory performance test clearance given by M/S. GSECL UTPS

All other terms and condition regarding this tender shall be as per our general conditions of contract enclosed herewith.

- 1) BHEL reserves the right to reject the lowest or any or all tenders without assigning any reason whatsoever.
- 2) For any further clarification you are requested to kindly contact the undersigned on any working day.

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

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

15.1.1

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.

15.1.2 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

TECHNICAL CONDITIONS OF CONTRACT (TCC)

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.

15.1.3 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.

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

15.2 '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~~

TECHNICAL CONDITIONS OF CONTRACT (TCC)

~~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.~~

15.3 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.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Annexure-I Scope of Work

Sub: Transportation of materials from GSECL/BHEL stores after completion of statutory formalities, unloading/storage of fresh materials at site ,arrangement of Crane (150 Ton or suitable capacity, if applicable), gantry, winches and other tools and tackles, consumables and dismantling, erection, testing & assistance for commissioning, trial operation and handing over of electrostatic precipitator after insulation & final painting etc. of. ESP Unit#6, 500 MW, Ukai TPS.

- a. Dismantling of damaged parts is already completed for B & C passes of ESP Unit # 6,however in case of any residual structure or work is left over is also be removed to facilitate erection of new materials
- b. Transportation of the dismantled items to Customer stores/yard or any other specified location as provided by customer.
- c. Receipt of materials from BHEL/Customer Stores/Yard or from any other location inside the plant premises as specified during execution for re-erection and transportation to the pre-assembly area or the case as may deem fit to undertake pre-assy and then in –situ erection at site as instructed by engineer in charge
- d. Erection of pass B (02 Nos. Field) and pass C (05 nos. Field) may start together or one pass may be given after completion of other pass , hence contractor shall have sufficient manpower and T&P accordingly in order to complete the work in scheduled time period.
- e. Contractor shall have sufficient manpower and T&P and carried out the work in two shifts (round the clock)
- f. Scaffolding/ladder for dismantling residual structure which required for erection and Erection of 1-7 fields of ESP internals/equipment and at the required area shall be arranged by contractor.
- g. Preservation/storage of ESP material at the site using tarpaulin, shed, wooden sleeper to cover up the materials, it shall be arranged by contractor.
- h. Pre-assembly, placement, Erection,alignment and welding of ESP pass B & C internal components like collecting plate, emitting electrodes, rapping system, emitting frame, shock bar assy with plate, shock pad, huck bolt & collar , geared motor for collecting & emitting electrode rapping mechanism, collecting and emitting suspension, Diagonal bracing for casing frame, casing & hopper collection plate if damaged,LR&TR beam with attachment and its strengthening and heater (support insulator heater and hopper heater),support/shaft insulators if found cracked or required replacement for healthiness of fields. Total fields for internal replacement are 7 nos, in case extra field is to be erected, shall be paid on pro –rata basis.
- i. Use of manila ropes & lifting beam for lifting the collecting electrode and handling of emitting electrode such that surface does not get any scratch or pitting and during erection of emitting electrode , it will be stretched by stretching tool and its arrange by contractor.
- j. Replacement or repositioning of transformer rectifier and heaters if required for erection of 1-7 field ESP internals to facilitate erection as per the plan.
- k. Erection of supports & cross beam and weld the insulator supports panels fully with roof beam (if required to replace or repaired/strengthened).
- l. Straighten the shaft and remove rust on the shaft surface.
- m. Straightening of collecting electrode new/old and shock bar if required.
- n. Alignment of collecting and emitting electrode, alignment of shock bar with collecting plate use by hydraulic jack and fasten the shock bar with collection plate using huck bolt by huck hydraulic unit.
- o. Removal of top weather protection roof, top casing, bottom casing, shifting of transformers as the case may be for facilitating erection and re-erection after installation is covered in the scope. Strengthening of roof beams, Re-Insulation work & painting is also to be completed before start of unit.
- p. All resources, consumables, T&P including 150 Ton or suitable capacity crane is in the scope of Vendor. if crane cannot be used then gantry arrangement is to be done with winches installation

TECHNICAL CONDITIONS OF CONTRACT (TCC)

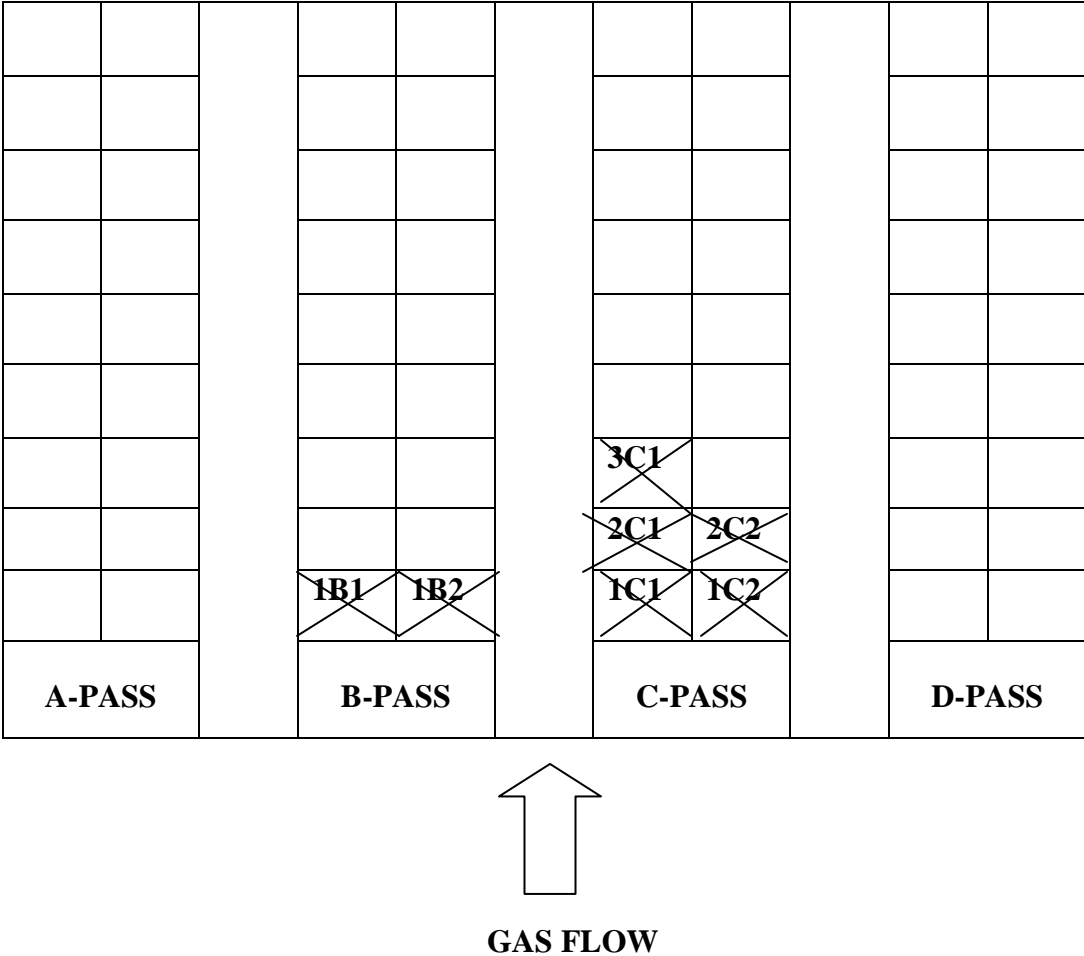
for handling of materials since this being a pure services job vendor has to execute the job in limited space within given time frame of 60 days.

- q. Ensure the healthiness of all field and proper maintaining the gap between collecting electrode & emitting frame which has to replace or repaired. Support to be provided to our specialist group/engineer during stage inspection and punch list is also included in the scope of work.
- r. Correct rotation of rapping mechanism and hammer of rapping mechanism hit (two and three level of emitting system and collection system).
- s. Strengthening of beam, structure and all other supporting part whichever found weak during erection.
- t. Dimension & Diagonal check frame of emitting system.
- u. Trial operation and associated tests.
- v. Ensure the all hopper heater, support insulator heater in service.
- w. Ensure the rapping motor operation.
- x. Conduct air load test of all field for full rated current with no spark.
- y. making unit ready for Commissioning and assistance in commissioning
- z. completion of all facilities/systems
- aa. handing over of the unit
- bb. Temporary office/store shall be constructed by contractor if store/office not available near to working site and UTPS customer.
- cc. completion of punch points
- dd. Removal of all temporary supports before commissioning.
- ee. clearing site of all debris, transporting of scrap as per the instruction of engineer in charge
- ff. Electrical work & dismantling of cable and laying the same for both the pass B&C if required.

Note: tentative list as mentioned below (Annexure-IA), which is attached hereby for planning to execute the works. it may change without notice after re-engg and any change shall be part of this contract ,which is to be executed in the lump sum rate for 7 no fields like 1B1,1B2,1C1,1C2,2C1,2C2,3C1.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

1*500 MW ukai Unit-6 ESP Arrangement Sketch:-



TECHNICAL CONDITIONS OF CONTRACT (TCC)

Annexure-II

LIST OF TOOLS AND PLANTS TO BE ARRANGED BY CONTRACTOR

1. Welding Generator sets with regulator, cables, electrodes, holders and shields etc.
2. Pulley Blocks- Single Sheave, Multi Sheave.
3. Grinding Machines.
4. Cran ,Hydra capacity as required for site use.
5. Chain pulley blocks- Assorted size – as required.
6. Sets of DE and Ring spanners (6-15mm). Measuring steel tapes (3-5 meters).
7. Spirit Level Precision spirit level (with micro head).
8. Sets of box spanners (6-20mm and 22-50mm).
9. D.P. test kit (with consumable).
10. Crowbars, tin cutters, pliers (cutting plier /nose plier circlip-outside and inside)
11. Drilling machine with magnetic stand up to 30mm with drill bits.
12. Lifting devices - Eye bolts, D-shackles, Slings of various sizes, guide roads etc.
13. Torch light/hand lamps with cables.
14. 230/24V Transformer with cable and 24V bulbs.
15. Wooden sleepers.
16. Safety helmets, Safety Belts and other appliances like gas cutting/welding goggles.
17. Tarpaulins.
18. Electrode Heating Oven.
19. Thermo Chalks.
20. Insulating coils for preheating/post heating.
21. Radiography evaluation kit.
22. Grinding machine NQ1/FF2.
23. Chamfering machine.
24. Tri square.
25. Vernier calipers (0 to 300 mm).
26. Allen keys of various sizes (from 2mm onwards).
27. Screw drivers and sledge hammers - 10 lbs - 1 lbs.
28. Adjustable wrenches, pipe winches and heck saws.
29. Files - flat round, half round and square rough and smooth (sizes 6" and 12")
30. Bench grinders, straight grinders (GQ4 & GQ6 angle grinders).
31. Number punch, letter punch, centre punch and hole punches etc.
32. Steel wire brushes, wire brush wheels, nylon wire brushes and painting brushes.
33. Hand gloves asbestos, manila rope, asbestos cloth, leather and rubber gloves.
34. Set of needle files.
35. Electric drills 1/4", 12", 5/8".
36. Gas cutting and heating set with torches, regulators, hoses and cylinder(min. 6 sets).
37. pneumatic grinder, hose pipes for compressed air bench vices.
38. Hydraulic jacks and mechanical jacks.
39. Electric switch boards and flood light arrangements with fuse boxes and isolating switches, plugs and sockets.
40. In addition to above T&P contractor will be required to fabricate related to the scope of work.
41. A necessary scaffolding material has to arrange by contractor for platform near turbine and sand blasting.

Note: The above list is only indicative and not exhaustive. Arrangement for any other T&P required for the timely completion of the job shall be the responsibility of the contractor and shall be arranged by him if the measuring instruments & tools shall be duly calibrated and recent certificate to that effect should be submitted to our Resident Manager/Engineer before the start of work.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

ANNEXURE -III

LIST OF CONSUMABLES TO BE ARRANGED BY CONTRACTOR (The list is indicative only not exhaustive)

1. Kerosene.
2. Rustolene.
3. Petrol/white petrol/benzene/CRC-226.
4. Grease/Graphite grease.
5. Hacksaw blades.
6. Electrode for welding.
7. Waste cloth/cotton.
8. Marking/lint free-cloth/muslin.
9. Asbestos cloth/asbestos cord.
10. Prussian blue.
11. Graphite (Banked) powers/ molycote/ Mosil.
12. Cardium compound.
13. Hold tight/shellac/gasket sealing compound.
14. Lead wire 1.0 mm/1.5 mm/0.5 mm.
15. Liquid soap.
16. Carborundum grinding paste coarse/fine/diamond lapping paste.
17. Emery papers/rolls.
18. Cut off wheels.
19. Grinding wheels.
20. Oil stones, mounted wheels, rotary cutters.
21. DP/MPI test chemicals in ample quantity.
22. Gas cylinders for cutting/welding.
23. Chalk pieces, marking pens, thermo chalks upto 400°C.
24. Insulation tape, Johnson tapes
25. Polythene sheets.
26. Araldite, M-seals, Insta-bond, Dentrite.
27. Electric fuse wire, cables for the connections.
28. Material for blast cleaning purpose (A1203, sand or ash etc).
29. Silicone compound paste (Silastic compound) 04 bottles.

Note: The above list is only indicative and not exhaustive. Arrangement for any other consumables required for the timely completion of the job shall be the responsibility of the contractor and shall be arranged by him within his quoted rates.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

ANNEXURE - IV

A. FACILITIES AND AMENITIES TO BE ARRANGED BY CONTRACTOR

1. General area lighting only will be provided to contractor. Local lighting as required to be arranged by contractor as his own cost.
2. Compressed air supply will be made available at one point. All other arrangement and accessories to be arranged by contractor at his own cost like pipe valves etc.
3. Contractor has to make necessary arrangement of accommodation for their staff at site.
4. Contractor has to make his own arrangement for transport of his own staff from residence to site and back. Similarly they have to arrange for transportation of material at site.
5. Required space near to the work spot will be provided for storing of materials and T&P but erection of temporary covering/cordoning is the responsibility of contractor only.
6. Scaffolding materials to be arranged by contractor.
7. All Normal T & P Like Welding sets, grinders, safety belts and PPE, hand tools, motor operated which pully, puller and lifting machines, cutting and brazing torches, safety appliances, TIG Welding equipment with consumables etc., are to be arranged by party
8. All general purpose welding electrodes, special welding electrodes for different metals are to be arranged by the party at his own cost.
9. Transportation (Hydra, crane, truck & trolley etc.) is to be arranged by the contractor for materials/components from sites to work and back. Also transportation of scrap materials to stores and scrap yards to be arranged by the contractor.
10. Contractor should arrange for cleaning of working area.

B. Facilities to be provided by GSECL/BHEL on chargeable basis

1. *Workshop facility with operator will be free of cost if available with GSECL.*
2. Structural materials required for temporary support on returnable basis to be transported from stores if available.
3. Water supply, Electrical power & service air will be given free of cost. You will be provided 415V, 3 ph. 50 c/s electric power connection near to the site and distribution shall be taken care of by you.
4. Accommodation in GSECL Town ship on chargeable basis if available.
5. Medical facilities to the extent available in GSECL.