

TENDER SPECIFICATION

SI No	Tender Specification Number	STATOR No.
1	BHE/PW/PUR/RGIT-STATOR/1064	1 & 2
2	BHE/PW/PUR/RGIT-STATOR/1080	3

PROVIDING SERVICES ON TURNKEY BASIS FOR LIFTING & SHIFTING AND PLACEMENT OF GENERATOR STATOR (3 Nos.) ON ITS FOUNDATION BY MEANS OF STRAND JACK METHOD

AT
4X600 MW JPL RAIGARH PROJECT
TAMNAR IN RAIGARH DISTRICT IN CHHATTISGARH STATE

TECHNICAL BID - 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

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I-A	Technical Conditions of Contract	25	Vol-IA-1064-1080)
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LEGEND:

This document (i.e. NIT & Vol-I A) issued as a separate book as PART of Technical Bid & also hosted in our web site (www.bhel.com)

- **“Vol I -B” of Part-I (Vol- I) issued as separate book** as a part of Technical Bid & also hosted in BHEL web site.
- **Price bid is** issued as a separate hard copy booklet also hosted in BHEL web site.

Tender Specification Issue Details

SI No	Tender Specification Number	STATOR No.
1	BHE/PW/PUR/RGIT-STATOR/1064	1 & 2
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PROVIDING SERVICES ON TURNKEY BASIS FOR LIFTING & SHIFTING AND PLACEMENT OF GENERATOR STATOR (3 Nos.) ON ITS FOUNDATION BY MEANS OF STRAND JACK METHOD

AT

4X600 MW JPL RAIGARH PROJECT

TAMNAR IN RAIGARH DISTRICT IN CHHATTISGARH STATE

EARNEST MONEY DEPOSIT: Refer Notice Inviting Tender

LAST DATE FOR Refer Notice Inviting Tender
TENDER SUBMISSION .

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

DGM (Purchase)
Place: Nagpur
Date:

1065-
1080

NOTICE INVITING TENDER

Bharat Heavy Electricals Limited



NOTICE INVITING TENDER (NIT)

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/RGIT- STATOR/1064 & BHE/PW/PUR/RGIT- STATOR/1080	
ii	Broad Scope of job	PROVIDING SERVICES ON TURNKEY BASIS FOR LIFTING & SHIFTING AND PLACEMENT OF GENERATOR STATOR (3 Nos.) ON ITS FOUNDATION BY MEANS OF STRAND JACK METHOD AT 4X600 MW JPL RAIGARH PROJECT TAMNAR IN RAIGARH DISTRICT IN CHHATTISGARH STATE	
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>	Applicable
b	Volume-IB	<i>General Conditions of Contract (GCC)</i>	Applicable
e	Volume-II	<i>Price Schedule (Absolute value).</i>	Applicable
iv	Issue of Tender Documents	1. Sale from BHEL PS Regional Office at Nagpur Start : 17/11/2012 Closes: 06/12/2012 Time : 16.00 Hrs 2. From BHEL web site (www.bhel.com) Tender document can however be downloaded from website till due date of submission.	Applicable
v	DUE DATE & TIME OF OFFER SUBMISSION	Date : 07/12/2012, Time : 15.00Hrs Place : <u>BHEL PS Regional office at :Nagpur</u> Tenders being submitted through representative shall be handed over to any of the following BHEL officials after making entry/registration at the reception:	

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		SM Borkar/ Deputy Gen Manager (Purchase) RK Ranade/ Manager (Purchase) Pratish Gee Varghese/Engineer(Purchase)	
vi	OPENING OF TENDER	1 hours after the latest due date and time of Offer submission <i>Notes:</i> (1) In case the due date of opening of tender becomes a non-working day, tenders shall be opened on next working day at the same time. (2) Bidder may depute representative to witness the opening of tender	<i>Applicable</i>
vii	EMD AMOUNT	Rs 2,00,000/- (Rupees Two Lakhs Only)	Applicable
viii	COST OF TENDER	Rs 2000/-	Applicable
ix	LAST DATE FOR SEEKING CLARIFICATION	<i>Date: Atleast 5 days before the due date of offer submission</i> <i>Along with soft version also, addressing to undersigned & to others as per contact address given below</i>	<i>Applicable</i>
x	SCHEDULE OF Pre Bid Discussion (PBD)	<i>Not applicable.</i>	<i>Not applicable.</i>
xi	INTEGRITY PACT	<i>Not Applicable</i>	<i>Not applicable.</i>
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	Applicable

- 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:

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- 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)

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	
	ENVELOPE – I superscribed as : PART-I (TECHNO COMMERCIAL BID) TENDER NO : NAME OF WORK : PROJECT: DUE DATE OF SUBMISSION: CONTAINING THE FOLLOWING:-	
i.	Covering letter/Offer forwarding letter of Tenderer.	
ii.	Duly filled-in 'No Deviation Certificate' as per prescribed format to be placed after document under sl no (i) above. Note: 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. b. BHEL reserves the right to accept/reject the deviations without assigning any reasons, and BHEL decision is final and binding. i). In case of acceptance of the deviations, appropriate loading shall be done by BHEL ii). In case of unacceptable deviations, BHEL reserves the right to reject the tender	
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)	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	

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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		
	PRICE BID consisting of the following shall be enclosed	
	<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"> o Envelopes I o Envelopes II o 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 No Deviation with respect to tender clauses and no additional clauses/ suggestions/ in Techno-commercial bid/ Price bid shall normally 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 Assessment of Capacity of Bidders: (Shall be applicable for Bid Evaluation after 1st Jan 2011)
Bidders capacity for executing the job under tender shall be assessed as per the following:**

~~I. Assigning Weightages (A) for Similar Jobs Under Execution: Weightages shall be worked out and assigned based on the average number of Similar Works under execution including works yet to be commenced by the agency, in the following manner:~~

~~i). Number of Similar Jobs~~

- ~~a) No. of jobs in BHEL, PSER : Say 'J'~~
~~b) No. of jobs in BHEL, PSSR : Say 'K'~~
~~c) No. of jobs in BHEL, PSWR : Say 'L'~~
~~d) No. of jobs in BHEL, PSNR : Say 'M'~~
~~e) No. of jobs with other customers* : Say 'N' (*: Other than BHEL PSER, PSSR, PSWR & PSNR)~~
~~f) Average No. of Jobs is 'P' = (J+K+L+M+N) divided by 5~~

~~ii) Weightage "A" assigned to bidders based on Average Number of jobs "P":~~

- ~~a) If 'P' = 0-1, "A" will be equal to '3'~~
~~b) If 'P' = 2-3, "A" will be equal to '2'~~
~~c) If 'P' = 4-5, "A" will be equal to '1'~~
~~d) If 'P' is Above 5, "A" will be equal to '0'~~

~~II. Weightage "B" for Quarterly Performance Reports of Vendors: This shall be based on the averages of the net weighted score obtained by the bidder for the jobs under execution (excluding works not commenced) for the quarter previous to the last quarter reckoned from the date of latest due date of submission, in all four Regions i.e BHEL PSER, PSSR, PSWR & PSNR, in the following manner.~~

~~i). Ratings by Power Sector Region:~~

- ~~a) PS ER's Rating 'Rer' = (X₁ + X₂ + .. + X_n) divided by n~~
~~b) PS WR's Rating 'Rwr' = (X₁ + X₂ + .. + X_n) divided by n~~
~~c) PS SR's Rating 'Rsr' = (X₁ + X₂ + .. + X_n) divided by n~~
~~d) PS NR's Rating 'Rnr' = (X₁ + X₂ + .. + X_n) divided by n~~
~~e) Over all Power Sector Region Rating 'R_{BHEL}' = (Rer + Rwr + Rsr + Rnr) divided by 4~~

~~(where "X₁, X₂, X₃...X_n" is the net weighted score obtained by the bidder as per the "Evaluation of Contractor Performance (Quarterly)" against the various contracts 'n' under execution in the respective Region).~~

~~ii) Weightage "B" assigned to bidders based on Overall Power Sector Rating (R_{BHEL}):~~

- ~~a) If R_{BHEL} is 80% and above, "B" will be equal to '6'~~
~~b) If R_{BHEL} is > 70% < 80%, "B" will be equal to '5'~~
~~c) If R_{BHEL} is > 60% < 70%, "B" will be equal to '4'~~
~~d) If R_{BHEL} is = < 60%, "B" will be equal to '0'~~

~~III. Evaluation of Bidders capacity to execute the job under tender: shall be based on the sum of scores obtained in 'A' and 'B', as below:~~

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~~a) 6 or above : Considered 'Qualified' for the job under tender~~

~~b) Less than 6: Considered 'NOT Qualified' for the job under tender~~

~~IV. Explanatory note:~~

~~a) Similar work means Boiler or Turbine or Civil or Electrical or CI, etc irrespective of rating of Plant
b) Quarter shall be as per the quarter defined in the "Evaluation of Contractor performance (Quarterly)". For contracts where annexed Quarterly Evaluation performance was not part of the contract, 'Quarterly Performance Reports' previous to the last quarter reckoned from the date of latest due date of submission, given by the respective project site against the contract will be the basis for evaluation.~~

~~c) Vendors who are not executing any jobs presently in the Region and first timers to the Region, may be considered subject to satisfying all other tender conditions~~

- 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 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. No additional claim shall be entertained by BHEL in future, on account of non-acquaintance of above.
- 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 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 (xi) of 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 pre-qualification evaluation/ techno-commercial bids, approval/ acceptance of customer (as applicable), etc. and date of opening of price bids shall be intimated to only such bidders.
- 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

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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) or specified otherwise in SCC of tender.
- 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 In case Consortium Bidding is allowed as per Pre Qualifying Requirement, then Prime Bidder and Consortium Partner shall enter into Consortium Agreement. Validity period of Consortium Agreement shall be 6 months after which the same can be re validated.
'Stand alone' bidder cannot become a **prime bidder' or a 'consortium bidder' in a consortium 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. .
- 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. General Conditions of Contract (GCC) —Volume-1C

for BHARAT HEAVY ELECTRICALS LTD

AGM/Purchase

Enclosure

01. Annexure-1: Pre Qualifying criteria.
02. Annexure-2: Important information
03. Annexure-3: Check List

PRE QUALIFYING CRITERIA

JOB	PROVIDING SERVICES ON TURNKEY BASIS FOR LIFTING & SHIFTING AND PLACEMENT OF GENERATOR STATOR (3 Nos.) ON ITS FOUNDATION BY MEANS OF STRAND JACK METHOD AT 4X600 MW JPL RAIGARH PROJECT TAMNAR IN RAIGARH DISTRICT IN CHHATTISGARH STATE
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SL NO	PRE QUALIFICATION CRITERIA	Bidders claim in respect of fulfilling the PQR Criteria (BIDDER TO FOLLUP THE DETAILS IN THESE BLANK COLUMNS AGAINST THE QR & ALSO SHOULD SUBMIT THE DOECUMENTS IN SUPPORT OF QR)	
		Name and Description of qualifying criteria	Page no of supporting document
A	Submission of Integrity Pact duly signed	NOT APPLCABLE	
B	Assessment of Capacity of Bidder to execute the work as per sl no 9 of NIT	<u>NOT APPLICABLE</u>	
C	<u>Technical</u> Bidder must have, in last seven years as on latest date of bid submission, successfully executed Lifting, Shifting & Placement of any single consignment/equipment, weighing 100MT or higher by means of Strand Jack Method in a Power Plant or in any Industry	APPLICABLE	
D 1	<u>Financial TURNOVER</u> Bidders must have achieved an average annual financial turnover (Audited) of Rs. 39 Lakhs or more over last three Financial Years (FY) i.e. 2009-2010, 2010-11 & 2011-2012.	APPLICABLE	
2	<u>NETWORTH (In case of Companies)</u> Net worth of the Bidder based on the latest Audited Accounts as furnished for 'C-1' above should be positive	APPLICABLE	
3	PROFIT Bidder must have earned cash profit in any one of the three Financial Years as applicable	APPLICABLE	

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	in the last three years defined in 'D1 above based on latest Audited Accounts.		
E	Approval of Customer Note: Names of bidders who stand qualified after compliance of criteria A to D shall be forwarded to customer for their approval. Price bid of only those bidders shall be opened who are approved by customer.	NOT APPLICABLE	
F	Consortium criteria	NOT APPLICABLE	
<p>Explanatory Notes for QR</p> <ol style="list-style-type: none"> The word 'executed' means the bidder should have achieved the criteria specified in the QR even if the total contract has not been completed or closed 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 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. 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) 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. 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 '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 			

BIDDER SHALL SUBMIT ABOVE PRE-QUALIFICATION CRITERIA FORMAT, DULY FILLED-IN, SPECIFYING RESPECTIVE ANNEXURE NUMBER AGAINST EACH CRITERIA AND FURNISH RELEVANT DOCUMENT(ie copy of work order, work completion certificate , audited balance sheet including profit & loss account statement of last three years etc) IN THE RESPECTIVE ANNEXURES IN THEIR OFFER.

ANNEXURE 2:

IMPORTANT INFORMATION

- i BHEL PSWR proposes to hire agency on rate contract basis for providing services on turnkey basis for lifting & shifting and placement of generator stator (3 Nos.) on its foundation by means of strand & jack method at 4X600 MW JPL RAIGARH TAMNAR Dist-Raigarh, Chhattisgarh,
- ii Schedule dates of work mentioned in the 2.1.1 table is tentative and there is possibility of change in date of start of work.
- iii Lump sum price is to be quoted for handling single stator in the rate schedule attached (Price bid). Bidders to note that weight given above are approximate.
- iv **2 Nos. works (stator handling)** shall be awarded to L-1 party. **Remaining 1 No. work shall be distributed to other agency who will match the L-1 Price.** Towards this bidders in order of their competitiveness (i.e L-2, L-3 and so on) shall be given an opportunity to match the awarded rates and the other parties finalized. However 100% work shall be awarded for 312MT category on lowest quoted price.
- v The rates quoted shall remain firm **for a period of 16 months** from Price Opening Date.
- vi In case of extension beyond contract period, rates shall be increased by 10% and valid for one year.
- vii BHEL reserves all rights to operate the rate contract at its discretion

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ANNEXURE - 3

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	Details of Contact person for this Tender	Name : Mr/Ms Designation: Telephone No: Mobile No: Fax No:	
4	EMD DETAILS	DD No: Date : Bank : Amount: Please tick (✓) whichever applicable:- ONE TIME EMD / ONLY FOR THIS TENDER	
		APPLICABILITY	BIDDER REPLY
5	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
6	Whether Audited profit and Loss Account for the last three years submitted	Applicable	YES/NO
7	Whether Copy of PAN Card submitted	Applicable	YES/NO
8	Whether all pages of the Tender documents including annexures, appendices etc are read understood and signed	Applicable	YES/NO
9	Whether duly filed & Signed Integrity Pact (Annexure III of NIT) submitted	Not Applicable	YES/NO
10	Declaration by Authorised Signatory	Applicable	YES/NO
11	Whether No Deviation Certificate submitted	Applicable	YES/NO
12	Whether Declaration confirming knowledge about Site Conditions submitted	Applicable	YES/NO
13	Whether Declaration for relation in BHEL submitted	Applicable	YES/NO
14	Whether Non Disclosure Certificate submitted	Applicable	YES/NO
15	Whether Bank Account Details for E-Payment submitted	Applicable	YES/NO
16	Capacity Evaluation of Bidder for current Tender	Not Applicable	
17	Tie Ups/Consortium Agreement are submitted as per format	Not Applicable	Not Applicable
18	Whether Power of Attorney for Submission of Tender/Signing Contract Agreement submitted	Applicable	YES/NO
19	Whether Analysis of Unit rates submitted	Applicable	YES/NO

NOTE : STRIKE OFF 'YES' OR 'NO', AS APPLICABLE

DATE :

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

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

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TECHNICAL CONDITIONS OF CONTRACT (TCC)

BHARAT HEAVY ELECTRICALS LIMITED



TECHNICAL CONDITIONS OF CONTRACT (TCC) CONTENTS

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TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - I : Project Information

1.0	Project Information																
1.1	<p>INTRODUCTION</p> <p>4x600 MW JPL RAIGARH</p> <p>Jindal Power Limited (JPL) a O.P. Jindal group company is setting up a Thermal Power Plant at Raigarh in the state of Chhattisgarh. 4X250 MW is already operational. . The capacity of plant is being augmented by installation of additional 4x600 mw set adjacent to the existing units.</p> <p>Approach to site:</p> <p>Site is located near village Tamnar in Raigarh District of Chhattisgarh State. The site is approachable from Raigarh by the state highway which branches off at Punjipathra about 12 Km from the site and 34 Km from Raigarh town. The nearest broad gauge rail link is at Raigarh which is about 35 Km (Raigarh is on Railway line of Howrah Section of South eastern railways)</p> <p>Metrological Data</p> <table><tr><td>a) Mean of daily max temp</td><td>: 33.5 deg.C</td></tr><tr><td>b) Mean of daily min temp</td><td>: 21.5 deg.C</td></tr><tr><td>c) Highest temp. Recorded</td><td>: 47.2 deg.C (19 June 1960)</td></tr><tr><td>d) Lowest temp. Recorded</td><td>: 6.4 deg.C (24 Dec 1959)</td></tr><tr><td>e) Relative Humidity</td><td>: Varies from 19% to 88%</td></tr><tr><td>f) Annual average rainfall</td><td>: Between 1000-2000mm</td></tr><tr><td>g) Wind load</td><td>: 7.3Km/Hr (in the month of June)</td></tr><tr><td>h) Seismic zone</td><td>: zone III in accordance with IS: 1893, Para 3.</td></tr></table> <p>The bidder is advised to visit and examine the site of WORKS and its surroundings and obtain for himself on his own responsibility all information that may be necessary for preparing the bid and entering into the CONTRACT. All costs for and associated with site visits shall be borne by the bidder.</p>	a) Mean of daily max temp	: 33.5 deg.C	b) Mean of daily min temp	: 21.5 deg.C	c) Highest temp. Recorded	: 47.2 deg.C (19 June 1960)	d) Lowest temp. Recorded	: 6.4 deg.C (24 Dec 1959)	e) Relative Humidity	: Varies from 19% to 88%	f) Annual average rainfall	: Between 1000-2000mm	g) Wind load	: 7.3Km/Hr (in the month of June)	h) Seismic zone	: zone III in accordance with IS: 1893, Para 3.
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Chapter-II Scope of Work

2.0 SCOPE OF WORK

The intent of this specification is to provide on turn-key basis complete design, development of scheme, works & services of fabrication at shop and site as may be required, erection/ installation/ rigging of all temporary structures along with all lifting & shifting equipments (e.g. hydraulic & telescopic lifting & shifting system, strand jacks, power packs with centralised control system, modular structural towers, lifting beams, high capacity wire rope slings, steel plates rolled section for on-site fabrication etc. as may be necessary), all Tools & Plants (e.g. cranes for site handling/ erection /dismantling, welding machines, gas cutting sets, slings, D-shackles, wire ropes, etc), and all manpower requirement i.e. technical and supervisory, skilled, semiskilled, & unskilled manpower for handling, ~~unloading~~, lifting, shifting, lowering and placement of Generator Stator on its specified foundations included but not limited to following:

- a. Design of the Jacking System
- b. Supply of Jacking System and its accessories
- c. All necessary consumables, excluding fuel and or LT Power for the equipments.
- d. Fuel for the Power Packs
- e. Provision of all necessary supervision to oversee lifting, operating & dismantling the bidder's equipments.
- f. Site accommodation & transportation for Bidders and his crew
- g. Communication system for the jacking operations.
- h. Manufacturers test certificates for each coil of strand
- i. Procedure & Write Up for lifting of Generator Stator from start to Finish.
- j. Adequate third party insurance cover
- k. Workmen's compensation for bidder and his workmen.
- l. Insurance for Bidder's equipments.

2.1.1 Details of Equipment to be lifted:-

SI No.	Description	Approx. Weight	Approx. Dimensions	Approx. CL Elevation of Stator	Likely Arrival Schedule at site
JPL Raigarh (4x 600 MW)					
1	Generator Stator Unit# 1	312 MT	9.86m(L)X4.44m(W)X4.26m(H)	17 m	Dec-12
2	Generator Stator Unit# 3	312 MT	9.86m(L)X4.44m(W)X4.26m(H)	17 m	Aug -13
3	Generator Stator Unit# 4	312 MT	9.86m(L)X4.44m(W)X4.26m(H)	17 m	Dec-13

2.1.2 Civil works

(a) The civil foundations for installation of lifting and shifting arrangements of Strand & Jack system shall be provided by BHEL. Foundation details for Strand Jack tower footings along with load details of Strand jack system on foundations & co-ordinates of the lifting and shifting arrangement will be provided by the contractor well in advance as per requirement of BHEL. (The location of foundation for Strand Jack shall be provided by the bidder). Design of the

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-II Scope of Work

foundation will be done by BHEL. Inserts for Strand Jack arrangement on TG Deck will be provided by BHEL. [Supply of foundation bolts shall be in the scope of BHEL.](#)

(b) ~~Contractor shall make arrangement for providing inserts on the Generator Stator foundation by external arrangement. A separate price needs not to be quoted for the same.~~

(c) All other requirement of foundation and other civil works are to be arranged by the contractor on his own within the quoted rates.

(d) GA and Layout drawings of various equipments of the Power Plant are provided as part of tender document for information of bidders.

2.2.1. UNLOADING, LIFTING, SHIFTING & PLACEMENT OF GENERATOR STATOR ON ITS FOUNDATION:

(a) The Generator Stator has to be lifted directly from the transport carrier or from the trailer or from stools /supports & placed on specified foundation. In case packer/ distance piece are required to be provided between the Generator Stator and the foundation, these will be made available by BHEL to the contractor.

(b) Alignment, Levelling, Bolting & grouting of the stators on their foundations is not included in Contractor scope. However while placing the Generator Stator on its foundation, this has to be suitably maneuvered to ensure placement in rough alignment with axes and elevation in line with tender conditions.

(c) The Generator Stator is to be lifted by using lugs/ lifting facility provided specifically for the purpose of lifting /handling on the equipments. No other mode of tying/jacking over the body of Generator Stator is possible/ allowed for lifting/ shifting/lowering purposes.

(d) In any case dragging of Generator Stator will not be allowed.

(e) Generator stator lifting will be done from A-Row.

Generator stator has to be lifted directly from the transport carrier and placed on designated foundation. In case if generator stator arrives before arrival / readiness of Strand jack system by contractor, BHEL will unload the stator at the specified position. Specified location is parallel to A-row. Contractor shall depute their representative at site at the time of unloading to finalise the suitable position of unloading.

(f) Contractor shall provide swivel arrangement for rotation of Generator Stator where ever rotation is required.

2.2.2 Providing temporary structures, access platforms, ladders etc. as required including necessary steels, others materials, consumables, fabrication and erection there of and dismantling after completion of work is part of contractor's scope.

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Chapter-II Scope of Work

2.2.3 ~~Contractor shall make arrangements for alternate power source e.g. DG set of adequate capacity so as to ensure un-interrupted operation even in the eventuality of interruptions in customer supplied power.~~ Contractor should also arrange for adequate stock of spares for the entire system so as to ensure continuation of work with least disruption in case of any failures/ faults encountered during operation. Such disruptions/ hold ups should not pose any danger to the safety of equipments being handled. ~~However for erection purpose, power source will be provided by BHEL.~~

2.2.4 Before deployment on the job, contractor has to furnish the load test certificates, including overload test certificates as applicable, of all the lifting equipment, wire rope (strand), and material test certificate for the steel being used in the system. Contractor should also submit certificate towards Design adequacy and other safety clearances as applicable.

2.2.5 After completion of work, contractor shall dismantle the total installation (excluding foundations made for this purpose as specified in foregoing para) and clear the premises of all debris scrap etc and take back all the equipments.

2.2.6 ~~Contractor shall arrange to unload the Generator Stator within the reasonable time period after placement of vehicle at the unloading point & release the vehicle so as to avoid undue detention. Charges towards any such undue detention attributable to contractor shall be to his account.~~

2.2.7 Contractor shall be solely responsible for watch and ward of his equipment, including while in storage as the case may be.

2.2.8 Way bills / Entry Permits for movement of Strand Jack Equipment are not in the scope of BHEL. However for Chhattisgarh state, BHEL being a PSU of Government of India is exempted for 'Entry Permits' by the state government. Necessary declaration in terms of notification of Sales Tax Department of Chhattisgarh state shall be issued to the contractor by BHEL for enabling transportation of Strand Jack Equipment to Tamnar, Raigarh.

2.2.9 As a normal practice Customer will issue Gate passes, BHEL will only facilitate and entire co-ordination shall be by contractor.

2.3 DRAWINGS AND DOCUMENTS

The technical details and drawing of the Generator Stator given in this tender specification are only for guidance and only indicative of the requirement. The contractor shall take note of all the aspects of technical details furnished while arranging the required equipments/ materials/services as the case may be.

2.3.1

The detailed drawings, specifications available with BHEL engineers will also form part of this tender specification. Revision of drawings/documents may take place due to various considerations as is normal in such large project. Work will have to be carried out as per revised drawings/ documents. These documents will be made available to the contractor during execution of work at site.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-II Scope of Work

2.3.2

One set of necessary drawings/documents to carry out the erection work will be furnished to the contractor by BHEL.

2.3.2

If any error or ambiguity is discovered in the specification/information contained in the documents/drawings and tender, the contractor shall forthwith bring the same to the notice of BHEL before submission of offer.

2.3.3

In case an ambiguity is detected after award of work, the same must be brought to the notice of BHEL before commencement of the work/activity. BHEL's interpretation in such cases will be final and binding on the contractor.

2.3.4

~~In case of any conflict between general instructions to tenderness, general conditions of contract (GCC) and special conditions of contract (SCC) and appendices, provisions contained in special conditions of contract in sections 4 to 15 and appendices shall prevail.~~

2.3.5

In case of discrepancy between quoted item rate and corresponding amount in the rate schedule, the **quoted item rates shall be reckoned as correct and amount recalculated.** Quoted item rates shall also prevail for arriving at the total price quoted for offer evaluation. Offers will be evaluated on the total amount for the entire Rate Schedule and the work will be awarded without splitting the scope.

2.3.6

Bank Guarantees to be furnished by the contractor towards Security Deposit and ~~Performance Guarantee (last 5% payment against workmanship warranty/defect liability)~~ shall have a claim period of six months over and above the validity period required for the respective cases. ~~BG for advance payment shall be kept valid for a period of two more months beyond the recovery period of the advance with interest thereof.~~

LIST OF DRAWINGS ATTACHED

TG Equipment Layout Plan at 0.0M

TG Hall Equipment Layout Plan at 17 M Level

GENERAL REQUIREMENTS – COMMON TO ALL WORK

3.01.

THE INTENT OF SPECIFICATION IS TO PROVIDE SERVICES ACCORDING TO THE MOST MODERN AND PROVEN TECHNIQUES AND CODES. THE OMISSION OF SPECIFIC REFERENCE TO ANY METHOD, EQUIPMENT OR MATERIAL NECESSARY FOR PROPER AND EFFICIENT EXECUTION OF THIS WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF PROVIDING SUCH FACILITIES TO COMPLETE THE WORK WITHOUT ANY EXTRA COMPENSATION.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-II Scope of Work

3.0.2

THE TERMINAL POINTS DECIDED BY BHEL SHOULD BE FINAL AND BINDING ON THE CONTRACTOR FOR DECIDING THE SCOPE OF WORK AND EFFECTING PAYMENT FOR THE WORK DONE.

3.0.3

THE WORK SHALL BE EXECUTED UNDER THE USUAL CONDITIONS AFFECTING MAJOR POWER PLANT CONSTRUCTION AND IN CONJUNCTION WITH NUMEROUS OTHER OPERATIONS AT SITE. THE CONTRACTOR AND HIS PERSONNEL SHALL COOPERATE WITH PERSONNEL OF BHEL, BHEL'S CUSTOMER, CUSTOMER'S CONSULTANTS AND OTHER CONTRACTORS, COORDINATING HIS WORK WITH OTHERS AND PROCEED IN A MANNER THAT SHALL NOT DELAY OR HINDER THE PROGRESS OF WORK OF THE PROJECT AS A WHOLE.

3.0.4

THE WORK COVERED UNDER THIS SPECIFICATION IS OF HIGHLY SOPHISTICATED NATURE, REQUIRING THE BEST QUALITY WORKMANSHIP, SUPERVISION, ENGINEERING AND CONSTRUCTION MANAGEMENT. THE CONTRACTOR SHOULD ENSURE PROPER PLANNING AND SUCCESSFUL & TIMELY COMPLETION OF THE WORK TO MEET THE OVERALL PROJECT SCHEDULE. THE CONTRACTOR MUST DEPLOY ADEQUATE QUANTITY OF TOOLS & PLANTS, MODERN / LATEST CONSTRUCTION AIDS ETC. HE MUST ALSO DEPLOY ADEQUATE TRAINED, QUALIFIED AND EXPERIENCED SUPERVISORY STAFF AND SKILLED PERSONNEL.

3.0.5

CONTRACTOR SHALL FABRICATE, ERECT ALL THE EQUIPMENTS AS PER THE SEQUENCE & METHODOLOGY PRESCRIBED BY BHEL DEPENDING UPON THE TECHNICAL REQUIREMENTS, AND AVAILABILITY OF MATERIALS AND FRONTS ETC. BHEL ENGINEER'S DECISION REGARDING CORRECTNESS OF THE WORK AND METHOD OF WORKING SHALL BE FINAL AND BINDING ON THE CONTRACTOR. NO CLAIMS FOR EXTRA PAYMENT FROM THE CONTRACTOR WILL BE ENTERTAINED ON THE GROUND OF DEVIATION FROM THE METHODS / SEQUENCE ADOPTED IN ERECTION OF SIMILAR SETS ELSEWHERE.

3.0.6

ALL NECESSARY CERTIFICATES AND LICENSES, PERMITS & CLEARANCES REQUIRED TO CARRY OUT THIS WORK FROM THE RESPECTIVE STATUTORY/ LOCAL AUTHORITIES ARE TO BE ARRANGED BY THE CONTRACTOR AT HIS COST IN TIME TO ENSURE SMOOTH PROGRESS OF WORK.

3.0.7

THE WORK SHALL CONFORM TO DIMENSIONS AND TOLERANCES SPECIFIED IN THE VARIOUS DRAWINGS / DOCUMENTS THAT WILL BE PROVIDED DURING VARIOUS STAGES OF ERECTION. IF ANY PORTION OF WORK IS FOUND TO BE DEFECTIVE IN WORKMANSHIP, NOT CONFORMING TO DRAWINGS OR OTHER STIPULATIONS DUE TO CONTRACTOR'S FAULT, THE CONTRACTOR SHALL DISMANTLE AND RE-DO THE WORK DULY REPLACING THE DEFECTIVE MATERIALS AT HIS COST, FAILING WHICH THE WORK WILL BE GOT DONE BY BHEL AND RECOVERIES WILL BE EFFECTED FROM THE CONTRACTOR'S BILLS TOWARDS EXPENDITURE INCURRED INCLUDING COST OF MATERIALS AND DEPARTMENTAL OVERHEADS OF BHEL.

3.0.8

THE CONTRACTOR SHALL PERFORM ANY SERVICES, TESTS ETC, WHICH MAY NOT BE SPECIFIED BUT NEVERTHELESS, REQUIRED FOR THE COMPLETION OF WORK WITHIN QUOTED RATES.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-II Scope of Work

3.0.9

THE CONTRACTOR SHALL EXECUTE THE WORK IN THE MOST SUBSTANTIAL AND WORKMANLIKE MANNER. THE STORES SHALL BE HANDLED WITH CARE AND DILIGENCE.

3.0.10

BHEL RESERVES RIGHT TO RECOVER FROM THE CONTRACTOR ANY LOSS WHICH ARISES OUT OF UNDUE DELAY / DISCREPANCY / SHORTAGE / DAMAGE OR ANY OTHER CAUSES DUE TO CONTRACTOR'S LAPSE DURING ANY STAGE OF WORK. ANY LOSS TO BHEL DUE TO CONTRACTOR'S LAPSE SHALL HAVE TO BE MADE GOOD BY THE CONTRACTOR.

3.0.11

ALL CRANES, TRANSPORT EQUIPMENT, HANDLING EQUIPMENT, TOOLS, TACKLES, FIXTURES, EQUIPMENT, MANPOWER, SUPERVISORS/ENGINEERS, CONSUMABLES ETC, EXCEPT OTHERWISE SPECIFIED AS BHEL SCOPE ON FREE ISSUE, REQUIRED FOR THIS SCOPE OF WORK SHALL BE PROVIDED BY THE CONTRACTOR. ALL EXPENDITURE INCLUDING TAXES AND INCIDENTALS IN THIS CONNECTION WILL HAVE TO BE BORNE BY HIM UNLESS OTHERWISE SPECIFIED IN THE RELEVANT CLAUSES. THE CONTRACTOR'S QUOTED RATES SHOULD BE INCLUSIVE OF ALL SUCH CONTINGENCIES.

3.0.12

ALL WORKS SUCH AS CLEANING, LEVELING, ALIGNING, TRIAL ASSEMBLY, DISMANTLING OF CERTAIN EQUIPMENTS / COMPONENTS FOR CHECKING AND CLEANING, SURFACE PREPARATION, FABRICATION OF STRUCTURES, TUBES AND PIPES AS PER GENERAL ENGINEERING PRACTICE AND AS PER BHEL ENGINEER'S INSTRUCTIONS AT SITE, CUTTING, GOUGING, WELD DEPOSITING, GRINDING, STRAIGHTENING, CHAMFERING, FILING, CHIPPING, DRILLING, REAMING, SCRAPPING, LAPPING, FITTING UP ETC AS MAY BE APPLICABLE IN SUCH ERECTION WORKS AND WHICH ARE TREATED INCIDENTAL TO THE ERECTION WORKS AND NECESSARY TO COMPLETE THE WORK SATISFACTORILY, SHALL BE CARRIED OUT BY THE CONTRACTOR AS PART OF THE WORK WITHIN THE QUOTED RATES.

3.0.13

THE CONTRACTOR SHALL MAKE ALL FIXTURES, TEMPORARY SUPPORTS, STEEL STRUCTURES REQUIRED FOR JIGS & FIXTURES, ANCHORS FOR LOAD AND GUIDE PULLEYS REQUIRED FOR THE WORK. CONTRACTOR SHALL ARRANGE NECESSARY STEEL FOR SUCH USAGE.

3.0.14

THE CONTRACTOR SHALL TAKE DELIVERY OF THE MATERIALS FROM THE BHEL STORES/ STORAGE AREA AFTER GETTING THE APPROVAL OF BHEL ENGINEER ON STANDARD INDENT FORMS OF BHEL. COMPLETE AND DETAILED ACCOUNT OF THE MATERIALS AND EQUIPMENTS AFTER USAGE SHALL BE SUBMITTED TO THE BHEL AND RECONCILED PERIODICALLY.

3.0.15

CONTRACTOR SHALL PLAN AND TRANSPORT MATERIALS/ FABRICATED ITEMS FROM STORAGE TO FABRICATION YARD/ ERECTION SITE AND ERECT THEM IN SUCH A MANNER AND SEQUENCE THAT MATERIAL ACCUMULATION AT SUCH LOCATIONS DOES NOT LEAD TO CONGESTION IN THESE AREAS. MATERIALS SHALL BE STACKED NEATLY, PRESERVED AND STORED IN THE CONTRACTOR'S SHED AND AT WORK AREAS IN AN ORDERLY MANNER. IN CASE IT IS NECESSARY TO SHIFT AND RE-STACK THE MATERIALS KEPT AT WORK AREAS/ SITE TO ENABLE OTHER AGENCIES TO CARRY OUT THEIR WORK OR FOR ANY OTHER REASON, SAME SHALL BE DONE BY CONTRACTOR MOST EXPEDITIOUSLY. NO CLAIM FOR EXTRA PAYMENT FOR SUCH WORK WILL BE ENTERTAINED.

3.0.16

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-II Scope of Work

PLANT MATERIALS SHOULD NOT BE USED FOR ANY TEMPORARY SUPPORTS / SCAFFOLDING/ PREPARING PRE-ASSEMBLY BED ETC.

3.0.17

THE QUANTITIES OF VARIOUS ITEMS OF WORK TO BE EXECUTED UNDER THIS CONTRACT IS GENERALLY AS PER THE RATE SCHEDULE. THESE QUANTITIES ARE APPROXIMATE AND MEANT ONLY TO GIVE A GENERAL IDEA TO THE TENDERER ABOUT THE MAGNITUDE OF THE WORK INVOLVED. ACTUAL QUANTUM AND TYPE OF EQUIPMENTS WILL BE BASED ON THE RELEVANT ERECTION DOCUMENTS WHICH WILL BE FURNISHED TO THE CONTRACTOR IN DUE COURSE OF ERECTION AND THE WEIGHT AND QUANTITY AS PER THE RELEVANT ENGINEERING DOCUMENTS WILL ONLY BE ADMISSIBLE FOR THE BILLING PURPOSE.

3.0.18

THE WORK SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE TO THE "FIELD QUALITY PLAN" APPROVED BY BHEL/CLIENT. CONTRACTOR, JOINTLY WITH BHEL, SHALL PREPARE ALL NECESSARY RECORDS OF MEASUREMENTS/READINGS/ PROTOCOLS ETC.

4.0.1 GENERAL RESPONSIBILITY OF THE CONTRACTOR

4.0.2

THE CONTRACTOR SHALL HAVE TOTAL RESPONSIBILITY FOR ALL EQUIPMENT AND MATERIALS IN HIS CUSTODY AT CONTRACTOR'S STORES, LOOSE, SEMI-FABRICATED, FABRICATED OR ERECTED BY HIM AT SITE. HE SHALL EFFECTIVELY PROTECT THE FINISHED WORKS FROM ACTION OF WEATHER AND FROM DAMAGES OR DEFACEMENT AND SHALL ALSO COVER THE FINISHED PARTS IMMEDIATELY ON COMPLETION OF WORK AS PER BHEL ENGINEER'S INSTRUCTIONS. THE MACHINE SURFACES/FINISHED SURFACES SHOULD BE GREASED AND COVERED.

4.0.3 PRESERVATION & PROTECTION OF COMPONENTS

AT ALL STAGES OF WORK, EQUIPMENTS/MATERIALS IN THE CUSTODY OF CONTRACTOR, INCLUDING THOSE ERECTED, WILL HAVE TO BE PRESERVED.

4.0.4

THE CONTRACTOR SHALL MAKE SUITABLE SECURITY ARRANGEMENTS INCLUDING EMPLOYMENT OF SECURITY PERSONNEL AND ENSURE PROTECTION OF ALL MATERIALS/ EQUIPMENT IN THEIR CUSTODY AND INSTALLED EQUIPMENTS FROM THEFT/FIRE/PILFERAGE AND ANY OTHER DAMAGES AND LOSSES.

4.0.5

CONTRACTOR SHALL COLLECT ALL SCRAP/ WASTAGE MATERIALS , DEPOSIT THE SAME AT ONE PLACE EARMARKED AT SITE OR SHIFT THE SAME TO A PLACE EARMARKED IN BHEL/ CLIENT'S STORES. IN CASE OF FAILURE OF CONTRACTOR IN COMPLIANCE OF THIS REQUIREMENT, BHEL WILL MAKE SUITABLE ARRANGEMENT AT CONTRACTOR'S RISK AND COST.

4.0.6

THE CONTRACTOR SHALL NOT UNDULY WASTE ANY MATERIALS ISSUED TO HIM. IN CASE IT IS OBSERVED AT ANY STAGE THAT THE WASTAGE/EXCESS UTILISATION OF MATERIALS IS NOT WITHIN THE PERMISSIBLE LIMITS, RECOVERY FOR THE EXCESS QUANTITY USED OR WASTED WILL BE

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-II Scope of Work

EFFECTED WITH DEPARTMENTAL CHARGES FROM THE CONTRACTOR. DECISION OF BHEL ON THIS WILL BE FINAL AND BINDING ON THE CONTRACTOR.

4.0.7

FOR ANY CLASS OF WORK FOR WHICH NO SPECIFICATIONS HAVE BEEN LAID DOWN IN THESE SPECIFICATIONS, WORK SHALL BE EXECUTED AS PER THE INSTRUCTIONS OF BHEL.

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – III : Facilities in the scope of Contractor/BHEL

Sl.No	Description	Scope / to be taken care by		Remarks
		BHEL	Bidder	
3.1	PART I ESTABLISHMENT			
3.1.1	FOR CONSTRUCTION PURPOSE:			
a	Open space for office (as per availability)	Yes		Location will be finalized after joint survey with owner
b	Open space for storage (as per availability)	Yes		Location will be finalized after joint survey with owner
c	Construction of bidder's office, canteen and storage building including supply of materials and other services		Yes	
d	Bidder's all office equipments, office / store / canteen consumables		Yes	
e	Canteen facilities for the bidder's staff, supervisors and engineers etc		Yes	
f	Fire fighting equipments like buckets, extinguishers etc		Yes	
g	Fencing of storage area, office, canteen etc of the bidder		Yes	
3.1.2	FOR LIVING PURPOSES OF THE BIDDER			
a	Open space for labour colony (as per availability)	Yes		APPROX. 1-2 KM. FROM PLANT MAIN GATE

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – III : Facilities in the scope of Contractor/BHEL

Sl.No	Description PART I	Scope / to be taken care by		Remarks
		BHEL	Bidder	
b	Labour Colony with internal roads, sanitation, complying with statutory requirements		Yes	
3.2.0	ELECTRICITY			
3.2.1	Electricity For construction purposes of Voltage 415/440 V			FREE
a	Single point source	Yes		At a distance of 500 M from site (Distance is only estimated, it may vary upto an extent depending on site condition)
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
c	Duties and deposits including statutory clearances if applicable		Yes	
3.2.2	Electricity for the office, stores, canteen etc of the bidder			Free
a	Single point source	Yes		At a distance of 500 M from site (Distance is only estimated, it may vary upto an extent depending on site condition)
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – III : Facilities in the scope of Contractor/BHEL

Sl.No	Description PART I	Scope / to be taken care by		Remarks
		BHEL	Bidder	
c	Duties and deposits including statutory clearances if applicable		Yes	
3.2.3	Electricity for living accommodation of the bidder's staff, engineers, supervisors etc			BHEL will not provide electricity for labour colony. Contractor has to make his own arrangement.
a	Single point source			
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
c	Duties and deposits including statutory clearances if applicable		Yes	
3.3.0	WATER SUPPLY			
3.3.1	For construction purposes:			FREE
a	Making the water available at single point	Yes		
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	
3.3.2	<u>Water supply for bidder's office, stores, canteen etc</u>			FREE
a	Making the water available at single point	Yes		

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – III : Facilities in the scope of Contractor/BHEL

Sl.No	Description PART I	Scope / to be taken care by		Remarks
		BHEL	Bidder	
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	
3.3.3	<u>Water supply for Living Purpose</u>		yes	
a	Making the water available at single point			BHEL will not make any arrangement for water. Contractor has to make his own arrangement
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	
3.4.0	LIGHTING			
a	For construction work (supply of all the necessary materials) 1. At office/storage area 2. At the preassembly area 3. At the construction site /area		Yes	
b	For construction work (execution of the lighting work/ arrangements) 1. At office/storage area 2. At the preassembly area 3. At the construction site /area		Yes	
c	Providing the necessary consumables like bulbs, switches, etc during the course of project work		Yes	

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – III : Facilities in the scope of Contractor/BHEL

Sl.No	Description PART I	Scope / to be taken care by		Remarks
		BHEL	Bidder	
d	Lighting for the living purposes of the bidder at the colony / quarters		Yes	
3.5.0	COMMUNICATION FACILITIES FOR SITE OPERATIONS OF THE BIDDER			
a	Telephone, fax, internet, intranet, e-mail etc		Yes	
3.6.0	COMPRESSED AIR wherever required for the work		Yes	
3.7.0	Demobilization of all the above facilities		Yes	
3.8.0	TRANSPORTATION			
a	For site personnel of the bidder		Yes	
b	For bidder's equipments and consumables (T&P, Consumables etc)		Yes	

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – III : Facilities in the scope of Contractor/BHEL

SI.No	Description PART II 3.9.0 ERECTION FACILITIES	Scope / to be taken care by		Remarks
		BHEL	Bidder	
3.9.1	Engineering works for construction:			Covered in scope of work
a	Providing the erection drawings for all the equipments covered under this scope			
b	Drawings for construction methods	Yes		
c	As-built drawings – where ever deviations observed and executed and also based on the decisions taken at site- example – routing of small bore pipes			
d	Shipping lists etc for reference and planning the activities	Yes		
e	Preparation of site erection schedules and other input requirements			
f	Review of performance and revision of site erection schedules in order to achieve the end dates and other commitments	Yes		
g	Weekly erection schedules based on SI No. e			
h	Daily erection / work plan based on SI No. g			

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – III : Facilities in the scope of Contractor/BHEL

SI.No	Description	Scope / to be taken care by		Remarks
		BHEL	Bidder	
	PART II 3.9.0 ERECTION FACILITIES			
i	Periodic visit of the senior official of the bidder to site to review the progress so that works are completed as per schedule. It is suggested this review by the senior official of the bidder should be done once in every two months.			Covered in scope of work
j	Preparation of preassembly bay			
k	Laying of racks for gantry crane if provided by BHEL or brought by the contractor/bidder himself			
L	Arranging the materials required for preassembly			

TECHNICAL CONDITIONS OF CONTRACT (TCC)

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

4.1.1 The contractor shall provide all the necessary steel scaffolding, working platforms for working at elevations, temporary structures etc. required for this work.

4.1.2 In the event of contractor failing to arrange the required tools and plants and testing equipment and non-availability of the same owing to breakdown, or otherwise, BHEL will take appropriate action at contractor's risk and cost.

4.1.3 Consumables

The contractor shall provide all consumables required for carrying out the work covered under this scope of work.

4.1.4 All temporary wiring must comply with regulations and will be subjected to engineer's inspection and approval before connecting to supply point.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – V: T&Ps and MMEs to be deployed by BHEL on sharing basis

For Unloading/Loading/Assembly/Dismantling/Fabrication/Erection and Handling of the Equipment/T&Ps/Structures mobilized by the contractors as per this work requirement at job site, suitable cranes including EOT Crane in TG Hall along with Fuel and Operator will be provided by BHEL

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – VI: Time Schedule

6.1 TIME SCHEDULE & MOBILIZATION

6.1.1 INITIAL MOBILIZATION

BHEL will provide information in advance regarding dispatch of Generator Stator from our Manufacturing units in order to plan for strand jack arrangement. BHEL shall give planned date for lifting of stator and accordingly 45 days mobilization period shall be given for complete readiness of lifting system. Thereafter **15 days' time span** shall be for completion of work at site including installation of stator and dismantling of lifting system.

Trailer is to be freed within 48 hours after positioning the same for unloading of Generator Stator.

Demobilization of Set up- After placement of Generator stator at its location contractor shall demobilize as per instruction of BHEL engineer.

6.1.2 DETENTION CHARGES

For Delay in completion of work beyond 15 days' time span (allotted to complete the work), due to reasons not attributable to contractor, per day detention charges of Rs 30,000/- (Rupees Thirty Thousand Only) shall be payable to the contractor.

However, for delay in completion of work beyond 15 days' time span, due to reasons attributable to contractor, penalty of Rs 30,000/- (Rupees Thirty Thousand Only) shall be levied by BHEL on contractor.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VII: TERMS OF PAYMENT

7.0 TERMS OF PAYMENT

100% payment in each running bill will be released as per the following provisions with regard to Stages of Payment.

7.1 Payment of Running Account Bills

12.1.1 The agreed rates for Generator Stator shall be paid progressively as per the break up given hereunder based on the progress of work. The contractor shall submit his running bills with the details of measurement required by BHEL Engineer as per the billing calendar decided by BHEL Engineer at site.

7.1.2 The payment for running bills will normally be released within 30 days of submission of running bill. Contractor shall make his own arrangement for making payment of impending labour wages and other dues in the meanwhile.

7.2 STAGES OF PAYMENT

7.2.1 PROGRESSIVE PAYMENT

SN	ACTIVITY	% Break up Payment
01	Mobilization of complete set up to site	10%
02	Installation and making ready the Lifting and Shifting system at specified location for lifting of Generator Stator.	10%
03	Completion of Lifting/Placement of Generator Stator on its Foundation	75%
04	Complete Demobilization/Dismantling of all Equipments & contractors set-up	5%
	TOTAL	100%

7.3 Mode of Payment and measurement of work completed

Refer General Conditions of Contract

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VII: Taxes, Duties & Levies

8.0 TAXES, DUTIES, LEVIES

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

Service Tax and Cess on Service Tax as applicable on Services are excluded from contractor's scope; therefore 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,

- I. The name, address and the registration number of the contractor,
- II. The name and address of the party receiving taxable service,
- III. Description, classification and value of taxable service provided and,
- IV. 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)

(i) Applicable for All Tenders excepting sl no 8.1.3 (ii)

As regards Value Added Tax (VAT) 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 **exclusive** of the same. Where such taxes are required to be paid by the contractor, this will be reimbursed on production of proof of payment made to the authorities by the Contractor. ~~In any case the Contractor shall register himself with the respective Sales Tax authorities of the state and submit proof of such~~

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VII: Taxes, Duties & Levies

registration to BHEL along with the first RA bill. The contractor has to take all necessary steps to **minimize tax on input goods** by purchasing the materials from any registered dealer of the concerned state only. In case contractor opts for composition, it will be with the prior express consent of BHEL. Deduction of tax at source shall be made as per the provisions of law unless otherwise found exempted. In case tax is deducted at source as per the provisions of law, this is to be construed as an advance tax paid by the contractor and no reimbursement thereof will be made unless specifically agreed to.

8.1.4 Modalities of Tax Incidence on BHEL (Applicable for All Tenders Other Than Civil in Gujarat)

Wherever the relevant tax laws permit more than one option or methodology for discharging the liability of tax/levy/duty, BHEL will have the right to adopt the appropriate one considering the amount of tax liability on BHEL/Client as well as procedural simplicity with regard to assessment of the liability. The option chosen by BHEL shall be binding on the Contractor for discharging the obligation of BHEL in respect of the tax liability to the Contractor.

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.

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

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

- i. It shall be the sole responsibility of the contractor in the capacity of employer to forthwith (within a period of 15 days from the award of work) apply for a licence to the Competent Authority under the BOCW Act and obtain proper certificate thereof by specifying the scope of its work. It shall also be responsibility of the

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VII: Taxes, Duties & Levies

contractor to furnish a copy of such certificate of licence / permission to BHEL within a period of one month from the date of award of contract.

- ii. It shall be the sole responsibility of the contractor as employer to ensure compliance of all the statutory obligations under these act and rules including that of payment / deposit of 1% cess on the extant of work involving building or construction workers engaged by the contractor within a period of one month from the receipt of payment.
- iii. It shall be the responsibility of the sub-contractor to furnish the receipts / challans towards deposit of the cess together with the number, name and other details of beneficiaries (building workers) engaged by the sub-contractor during the preceding month.
- iv. It shall be the absolute responsibility of the sub-contractor to make payment of all statutory payments & compensations to its workers including that is provided under the Workmen's Compensation Act, 1923.