

TENDER SPECIFICATION

SI No	Tender Specification Number	Unit Number & Project
1	BHE/PW/PUR/UKH-GEN U#4/1326	UNIT # 4, 75 MW R & M OF GENERATOR STATOR, UHPS

FOR

JOB: TRANSPORTATION OF MATERIALS, DISMANTLING OF EXISTING GENERATOR STATOR ASSEMBLY, ERECTION, MAGNETIC CENTRE CORRECTION OF ROTOR W.R.T STATOR, COMMISSIONING AND TESTING OF NEW WOUND STATOR OF UKAI HYDRO UNIT #4

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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Tender Specification Issue Details

TENDER SPECIFICATION

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**At
UKAI
GUJARAT**

EARNEST MONEY DEPOSIT: Refer Notice Inviting Tender

LAST DATE FOR TENDER SUBMISSION: Refer Notice Inviting Tender

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

M/s.

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PLEASE NOTE:

THESE TENDER SPECS DOCUMENTS ARE NOT TRANSFERABLE.

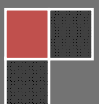
For Bharat Heavy Electricals Limited

**AGM (Purchase)
Place: Nagpur
Date :**

1326

NOTICE INVITING TENDER

Bharat Heavy Electricals Limited



Ref:

T.S.No BHE/PW/PUR/UKH-GEN U#4/1326

Date: 06.10.2014

NOTICE INVITING TENDER (NIT)

NOTE: BIDDER MAY DOWNLOAD FROM WEB SITES OR PURCHASE TENDERS FROM THIS OFFICE ALSO

To

Dear Sir/Madam

Sub : NOTICE INVITING TENDER

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

1.0 Salient Features of NIT

SL NO	ISSUE	DESCRIPTION
i	TENDER NUMBER	BHE/PW/PUR/UKH-GEN U#4/1326
ii	Broad Scope of job	Transportation of materials, Dismantling of existing Generator stator assembly, erection, magnetic centre correction of rotor w.r.t stator , Commissioning and testing of new wound stator of Ukai Hydro Unit No#4
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>Special Conditions of Contract (SCC)</i> Applicable
c	Volume-IC	<i>General Conditions of Contract (GCC)</i> Applicable
d	Volume-ID	<i>Forms and Procedures</i>
e	Volume-II	<i>Price Schedule (Absolute value).</i> Applicable
iv	Issue of Tender Documents	1. <u>Sale from BHEL PS Regional office at Nagpur</u> Start : 06/10/2014 Closes: 16/10/2014 , Time : 16: 00Hrs 2. From BHEL website (www.bhel.com) Tender documents will be available for downloading from website till due date of submission Applicable/ Not applicable
v	DUE DATE & TIME OF OFFER	Date : 17/10/2014 , Time : 15:00 Hrs Place : <u>BHEL PS Regional office at :Nagpur</u> Applicable

	SUBMISSION	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: Amit Kumar Shrivastava / Manager(Purchase) Nirmal P G /Asst. Engineer(Purchase)	
vi	OPENING OF TENDER	1 hours after the latest due date and time of Offer submission Notes: (1) In case the due date of opening of tender becomes a non-working day, then the due date & time of offer submission and opening of tenders get extended to the next working day. (2) Bidder may depute representative to witness the opening of tender	Applicable
vii	EMD AMOUNT	Rs 2,00,000/- (Rupees Two Lakh Only)	Applicable
viii	COST OF TENDER	Rs 2000/-.	Applicable
ix	LAST DATE FOR SEEKING CLARIFICATION	Atleast 3 days before the due date of offer submission Along with soft version also, addressing to undersigned & to others as per contact address given below Amit Kumar Shrivastava (Manager)- E-mail-amitks@bhelswr.co.in PH: 0712-3048651 Nirmal P.G (Asst. Engineer)- E-Mail-nirmalpg@bhelswr.co.in Ph: 0712-3048713	Applicable
x	SCHEDULE OF Pre Bid Discussion (PBD)	Date :	Applicable/Not applicable.
xi	INTEGRITY PACT & DETAILS OF INDEPENDENT EXTERNAL MONITOR (IEM)		Applicable/Not Applicable
xii	Latest updates	Latest updates on the important dates, Amendments, Correspondences, Corrigenda, Clarifications, Changes, Errata, Modifications, Revisions, etc to Tender Specifications will be hosted in BHEL webpage (www.bhel.com -->Tender Notifications →View Corrigendums) and not in the newspapers . Bidders to keep themselves updated with all such information	

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

Sl no	Description	Remarks
	Part-I A	
	<u>ENVELOPE – I superscribed as :</u> PART-I (TECHNO COMMERCIAL BID) TENDER NO : NAME OF WORK : PROJECT: DUE DATE OF SUBMISSION: <u>CONTAINING THE FOLLOWING:-</u>	
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. <u>Note:</u> <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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 	

BHEL PSWR
Tender Specification No BHE/PW/PUR/UKH-GEN U#4/1326

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Technical Conditions of Contract –Volume I A (Part I : Contract Specific Details)

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

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

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

(whichever is applicable), otherwise, interpretation by BHEL shall prevail. Any typing error/missing pages/ other clerical errors in the tender documents, noticed must be pointed out before pre-bid meeting/submission of offer, else BHEL's interpretation shall prevail.

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

In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below:

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

for BHARAT HEAVY ELECTRICALS LTD

AGM/Purchase

Enclosure

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

ANNEXURE - 1

PRE QUALIFYING REQUIREMENTS

JOB	Transportation of materials, Dismantling of existing Generator stator assembly, erection, magnetic centre correction of rotor w.r.t stator , Commissioning and testing of new wound stator of Ukai Hydro Unit No#4
TENDER NO	BHE/PW/PUR/UKH-GEN U#4/1326

SL NO	PRE QUALIFICATION CRITERIA	Bidders claim in respect of fulfilling the PQR Criteria	
		Name and Description of qualifying criteria	Page no of supporting document. Bidder must fill up this column as per applicability
A	Submission of Integrity Pact duly signed (if applicable)	NOT APPLICABLE	
B	<p><u>Technical</u></p> <p>Bidder must have executed following works {i.e. Bidder must meet (B.1.1 or B.1.2 or B.1.3)} in the last seven (7) years as on latest date of bid submission:-</p> <p>B.1.1) Bidder must have, Executed Erection, assistance in Testing and Commissioning (Up to Synchronization of the Unit or beyond) of One set of Hydro Turbine Generator (HTG) of 30 MW or higher rating.</p> <p style="text-align: center;">OR</p> <p>B.1.2) Bidder must have, Executed Renovation & Modernization (Up to Synchronization of the Unit or beyond) of One set of Hydro Turbine Generator (HTG) of 30 MW or higher rating</p> <p style="text-align: center;">OR</p> <p>B.1.3) Bidder must have, Executed Overhauling 'OR' assembly of hydro generator of 60 MW and higher rating.</p>	APPLICABLE	
C-1	<p><u>FINANCIAL TURNOVER</u></p> <p>Bidders must have achieved an average annual financial</p>	APPLICABLE	

	turnover (Audited) of Rs.75 Lakhs or more over last three Financial Years (FY) i.e. 2011-2012, 2012-2013, 2013-2014.		
C-2	NETWORTH (only in case of Companies) Net worth of the Bidder based on the latest Audited Accounts as furnished for 'C-1' above should be positive	APPLICABLE	
C-3	PROFIT Bidder must have earned cash profit in any one of the three Financial Years as applicable in the last three Financial Years defined in 'C-1' above based on latest Audited Accounts.	APPLICABLE	
D	Assessment of Capacity of Bidder to execute the work as per sl no 9 of NIT (if applicable)	NOT APPLICABLE	By BHEL
E	Approval of Customer (if applicable) Note: Names of bidders (including consortium/Technical Tie up partners in case consortium bidding is permitted) who stand qualified after compliance of criteria A to D shall be forwarded to customer for their approval.	NOT APPLICABLE	BY BHEL
F	Price Bid Opening Note: Price Bids of only those bidders shall be opened who stand qualified after compliance of criteria A to E	APPLICABLE	BY BHEL
G	Consortium criteria	NOT APPLICABLE	
<p><u>Explanatory Notes for the PQR (unless otherwise specified in the PQR):</u></p> <ol style="list-style-type: none"> 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 '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"> Bidder should have executed similar work of any one of the following:- <ol style="list-style-type: none"> One (1) work of value not less than Rs XXX OR Two (2) works of not less than Rs YYY OR Three (3) works of not less than Rs ZZZ (Value XXX, YYY, ZZZ shall be as indicated by BHEL 'Similar' work for criteria 5 above means <ol style="list-style-type: none"> Civil or Structures or Civil & Structures or Chimney respectively as applicable to the tendered 			

	<p>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>6. Time period for achievement of the 'Technical' criteria of PQR (as in 'B' above) will be the last 7 years ending on the 'latest date' of Bid submission</p> <p>7. 'EXECUTED' means the Vendor should have achieved the criteria specified in the Technical criteria of PQR (as in 'B' above) even if the Contract has not been completed or closed</p> <p>8. Unless otherwise specified, for the purpose of 'Technical' criteria of PQR (as in 'B' above), the word 'EXECUTED' means:</p> <ol style="list-style-type: none"> 1. "BOILER LIGHT UP" in respect of Boiler & Aux and ESP 2. "SYNCHRONISATION" in respect of STG/GTG and "SPINNING" in case of HTG 3. "STEAM BLOWING COMPLETION" in respect of at least Main Steam Line of Power Cycle Piping 4. "HYDRAULIC TEST" of the system in respect of Structures, Pressure parts/IBR Piping 5. "CHARGING" in respect of power Transformers, Bus ducts, HT/LT switchgears 6. "Completion of RCC Shell and liner (steel or brick as per tendered scope) up to the HEIGHT specified using slip form" in case of RCC Chimney. 7. Achievement of physical Quantities as per respective PQRs in respect of Civil & Structures and Piling Works 8. 'Readiness for coal Filling" in respect of Bunker Structure Work. <p>9. Boiler means HRSG or WHRB or any other types of Steam Generator</p> <p>10. Critical/Power Cycle piping means Main Steam, Hot Reheat, Cold Reheat, HP Bypass, LP Bypass lines</p> <p>11. For the purpose of evaluation of the PQR, one MW shall be considered equivalent to 3.5TPH where ever rating of HRSG/BOILER is mentioned in MW. Similarly, where ever rating of Gas Turbine is mentioned in terms of Frame size, ISO rating in terms of MW shall be considered for evaluation.</p> <p>12. In case the experience/PO/WO certificate enclosed by bidders do not have separate break up prices for the E&C portion of Electrical and CI Works, (i.e. the certificates enclosed are for composite order for supply and erection of Electrical & CI and other works if any), then value of Erection and Commissioning for the Electrical & CI portion shall be considered as 15% of the supply & erection of Electrical & CI, unless otherwise specifically indicated in the PQR.</p> <p>13. Scope for capital overhaul of STG shall cover Bearing Inspection work and overhauling of all cylinders of the Turbine unless otherwise specifically indicated in the PQR.</p> <p>14. In case the tendered scope is not a Pulverised Fuel Boiler, experience of Oil/Gas Fired Boilers also can be considered unless otherwise specifically indicated in the PQR.</p> <p>15. The value of work (Experience submitted against PQR B) shall be updated as per the PVC indices for "All India Avg. Consumer Price Index for Industrial Workers" with base month as date of execution (completion of contract/work) and indexed upto two months prior to bid opening month.</p>
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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 INCLUSIVE OF WORK ORDER AND WORK COMPLETION CERTIFICATE ETC IN THE RESPECTIVE ANNEXURES IN THEIR OFFER.

ANNEXURE - 2

CHECK LIST

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

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

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

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

DATE :
SIGNATORY

AUTHORISED
(With Name, Designation and Company seal)

ANNEXURE 4: **IMPORTANT INFORMATION**

1. The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site (www.bhel.com ----> Tender Notification -> List of Banned Firms)
2. All Statutory Requirements as applicable for this project shall be complied with.
3. Please take note of following Revised Tender Clauses:
 - i. Notice Inviting Tender: SI No 9
 - ii. General conditions of Contract: Clause No 1.15.13 (New), Clause No 2.8.3, 2.8.4 and 2.8.5

4. Broad Terms & Conditions of Reverse Auction

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

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

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

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

5. PVC is not applicable

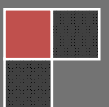
6. Progress Monitoring, Monthly Review and Performance Evaluation of Vol-I BCD is not applicable. Separate Performance evaluation as per SAS format shall be considered for evaluation purpose.

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

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TECHNICAL CONDITIONS OF CONTRACT (TCC)

BHARAT HEAVY ELECTRICALS
LIMITED



TECHNICAL CONDITIONS OF CONTRACT (TCC)

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TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - I: Project Information

Project Information

- | | |
|------------------|--|
| 1. Purchaser | M/s Gujarat State Electricity Corporation Limited |
| 2. Project Title | Transportation of materials, Dismantling of existing Generator stator assembly, erection, magnetic centre correction of rotor w.r.t stator , Commissioning and testing of new wound stator of Ukai Hydro Unit No#4 |

Location & Approach

- | | |
|----------------------------|-------|
| 3. Nearest Railway Station | Vyara |
| 4. Nearest airport | Surat |

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

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II : Scope of Works

PRE SHUTDOWN WORK TO CARRY OUT:

1. Mobilization of site.
2. Arranging Gate pass hence the action should take well in advance i.e. before shutdown of unit.
3. Shifting of material and T&Ps to work spot.
4. Shifting of special T&Ps to turbine floor.

SCOPE OF WORK:

SCHEDULE –A 1: TRANSPORTATION OF MATERIALS

- 1.0 Transportation of all the materials from GSECL store to Ukai HEP site.
- 2.0 Transportation of all the dismantled, old & scrap materials from Ukai HEP site to GSECL store.

SCHEDULE – A2: DISMANTLING OF COMPLETE UNIT

- 1.0. Removal of PMG, combinatory assembly, servo tubes, exciter and extension shaft.
- 2.0. Removal of top cover assembly
- 3.0. Removal of rotor poles air guide and fan segments
- 4.0. Removal of rotor assembly and bearings
- 5.0. Dismantling of stator winding coils
- 6.0. Dismantling of stator core
- 7.0. Removal of key bars, HS Plates from existing stator frame
- 8.0. Straightening of key bars for re use
- 9.0. Removal of stator frame from position
- 10.0. Other miscellaneous dismantling required for the completion of this job satisfactory and Successfully.

SCHEDULE–A3: ASSEMBLY OF STATOR FRAME

- 1.0. Placing of new stator frame segments on support stool and joined together. Leveling of frame by Micro water level and sweep gauge perfectly.
- 2.0. Place support finger plates and assemble core punching then welding of support finger plates
- 3.0. Fixing of key bars
- 4.0. Assembly of glued packets RTD's
- 5.0. Building of stator core, core heating & consolidation in stages.
- 6.0. Conducting core flux test. Core Flux test kit is to be arranged by contractor.
- 7.0. Spray painting of stator
- 8.0. Placement of stator in position
- 9.0. Place stator on leveled sole plate
- 10.0. Bolting stator with sole plate
- 11.0. Other miscellaneous assembling required for the completion of this job satisfactory and successfully.

SCHEDULE – A 4: WINDING OF STATOR

- 1.0 Laying of winding coils
- 2.0 Wedging bracing of overhang
- 3.0 Brazing of coil joints and insulation
- 4.0 UT test of all brazing joints is to be carried out.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II : Scope of Works

- 5.0 Cleaning, dry out and HV Test, Stages HV Test is also to be conducted by contractor . HV test kit is to be arranged by contractor
- 6.0 Stator frame readiness, Core building, Bar laying, Brazing of coil joints& insulation is to be done with extreme care and adequate no of experienced technicians is to be deployed for these work.
- 7.0 Any inexperienced manpower will not be allowed to carry out stator work.

SCHEDULE – A 5: MECHANICAL WORK BEFORE ASSEMBLY

- 1.0 Blue matching of generator thrust and guide bearing pads and scraping of pads if required. Ultrasonic and DP Test of generator guide, thrust bearing and turbine guide bearing Pads
- 2.0 Checking of TGB, thrust bearing pads, springs, cleaning and clearance setting
- 3.0 Lowering of rotor in position, Measurement of run out and checking & correcting of alignment and level of turbine generator in assembled condition. Inspection of rotor overhang support bracket bolts, lacing cord repair in case required
- 4.0 Checking of stator & rotor forms magnetic offset, centering of stator after alignment
- 5.0 Dowelling of new stator frame with sole plate
- 6.0 Complete adjustment of magnetic centre and air gap including pole position correction as Pole position correction work is part of activity of magnetic centering pole stop/Pole T head adjustment.
- 7.0 Assembly of top bottom air baffles
- 8.0 Boxing up of bearing and other assemblies
- 9.0 Cleaning of all Generator coolers and hydro test of same and assembly with new stator.
- 10.0 All related activities under the scope (electrical as well as mechanical) during dismantling and assembly of new stator shall be carried out by contractor.

SCHEDULE – A 6: TESTING & COMMISSIONING

- 1. All required electrical testing like IR, PI , Rotor Pole impedance etc.
- 2. Dry out of stator prior to commissioning of machine.
- 3. Recording of Governing characteristics & correction if required.
- 4. No Load & No Excitation test.
- 5. Commissioning of machine (72 hrs Continuous operation)

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – III: SPECIAL TERMS AND OTHER CONDITIONS

1. Subcontractor should assure that the renovation/repair of the equipment covered in the scope of this offer will be conducted with the best of skills and know how available with Subcontractor and in conformance with the clearances and adjustments set forth in manufacture's drawing instruments and other information's furnished to Subcontractor.
2. The various setting, clearances, adjustments and benchmarks will be restored to the extent possible during rectification to the condition as per the erection and commissioning log sheets available with customer. If however we are not able to produce erection / commissioning log sheets, efforts will be made to attend the best possible parameter or the conditions as observed at the time of dismantling of the equipment in consultation with us.
3. Subcontractor must prepare PERT CHART/BAR CHART. Daily monitoring will be done jointly and log sheets of important activities should be noted down and signed jointly.
4. All the works shall be carried out as per the instructions and to the satisfaction of the Engineer In-charge.
5. The contractor will attend contributory to faulty and poor workmanship during commissioning and trial run of the equipment.
6. Round the clock working under expert supervision shall be ensured by the contractor deploying two equal parallel strength of group in 12 hrs. Shift with equal T&P for all the jobs so as to complete the work in stipulated period or earlier.
7. Adequate manpower along with T&P should be deployed at site. All the T&P required for the work shall be arranged by the contractor and all T&P should reach the site 3 days before the shutdown of the unit. All the measuring instruments shall be duly tested / calibrated and valid certificate to that effect should be submitted to our Site In-charge before start of the work.
8. A deployment plan along with experience and name of the Site In-charge, Engineers, Supervisors, Foreman and main technicians to be submitted on per shift basis.
9. LAP-TOP with latest configuration, DVD/CD writer, its peripherals including printer-scanner and one USB Modem for Internet connectivity to be provided for BHEL site office.
10. Two office boys in each shift are to be provided for BHEL site office.
11. Experienced Engineers with more than 25 years' experience in erection/ servicing of Hydro Turbine & Generator area to be engaged during entire overhauling period in consultation with BHEL.
12. It is the responsibility of contractor to keep the plant, equipment, machinery and surrounding area clean.
13. The names of working persons like Site in-charge, supervisors, foreman, main fitters to be deployed during the job with full details has to be submitted stating their area of work and experience and specialization of the work to site in-charge before the start of work. BHEL may ask to change/delete the person not found suitable for the work at any point of time during execution of job. For any addition and deletion of the working person prior permission from BHEL shall be taken.
14. Subcontractor has to ensure that all the key persons must continue till completion of job i.e. machine comes on load. Subcontractor manpower should remain at site for a period of **15 days** after machine comes on full load.
15. Work distribution sheet for all the workers/supervisors deployed shall be submitted to BHEL one day in advance on daily basis.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – III: SPECIAL TERMS AND OTHER CONDITIONS

16. Subcontractor should mobilize additional resources such as plant, equipment's, material as may be required by site in-charge to improve the progress of the work if the progress of the work is not satisfactory.
17. Subcontractor should get registered under relevant sales tax and or work contract Act (VAT) where the jobs are executed.
18. Scrap etc. is to be shifted to scrap disposal area as indicated by the Engineer-in-charge.
19. One administrative personnel to control the resources and attendance of the workers to be ensured.
20. Argon, Oxy- Acetylene gas shall be arranged by the contractor with cutting/welding set / argon welding set and other welding appliances.
21. Enerpac make close height Hydraulic jacks of 50T and 100T capacity - 4 nos. each shall be arranged by the contractor in 100 % working conditions.
22. Scaffolding material, Tarpaulin etc. Will be arranged by the subcontractor on his own cost.
23. If the duration of work continues beyond stipulated period due to any reason, no claim for compensation will be entertained.
24. The work details are brief & for Subcontractor knowledge only. Subcontractor will have to do all the related works as per requirement.
25. The contractor will be responsible to pay the damages to the property of Board or individual caused by his worker during the course of contract. If the contractor fails to pay the same it will be recovered from his bill.
26. No compensation claimed for idle labour for any reason will be entertained by BHEL.
27. In normal course, the interpretation of the under signed on any matter or decision given by him on any disputable points will be final and binding on the contractor.
28. Accommodation for the sub-contractor's manpower will be provided if made available by the customer as per the applicable charges.
29. Contractor is to obtain labour license before the start of the work.
30. Workmen compensation policy to taken before the start of the work
31. Third party liability insurance to taken before the start of the work
32. The copy of registration of sales tax/Excise Duty/VAT. If this is not applicable then contractor shall submit an undertaking.
33. Copy of registration of EPF along with the PF account number of the employees. Challans for EPF for previous month shall be submitted along with subsequent RA bill
34. Partnership deed of firm in case of partnership firm or power of attorney of the representative in case of company to be submitted before the start of the work
35. Bank details, address & RTGS numbers etc. to be submitted
36. Copy of service tax registration to be submitted before the start of the work
37. Copy of professional tax registration to be submitted before the start of the work (If required)
38. Copy of PAN card in the name of firm to be submitted before the start of the work
39. Copy of wage register witnessed by GSECL representative for the bill period & bank transfer details to be submitted
40. The contractor has to take clearance from HR group of UKAI TPS GSECL before release of final bill.
41. The contractor has taken NO OBJECTION CERTIFICATE (NOC) from Safety section, stores, health physics section, HR/HS section & security section of GSECL Ukai before release of final bill.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – III: SPECIAL TERMS AND OTHER CONDITIONS

42. Calibration certificate with validity for all measuring instruments and T&P should be submitted to GSECL UKAI before start of work.
43. Successful bidder has to extend manpower assistance for minor cleaning/scrapping, etc. for carrying vibration measurement and putting balance weights during Trim Balancing at site, if any.

Contractor has to carry out tree plantation in customer premises.

MANPOWER LIST

Sl. No.	Description	Numbers
1.	Site In-charge	1
2.	Supervisors	6
3.	Foreman	6
4.	Mill Wright Fitters	12
5.	Junior Fitters	10
6.	Riggers	10
7.	Gas Cutters / LP welder	5
8.	Electrician	3
9.	Store keeper	3
10.	Sarang	3
11.	Unskilled worker	30
12.	Welder	5
13.	Carpenter	3
14.	EOT Crane Operators	2

In addition to above contractor has to depute below mentioned manpower during execution of work.

- a) Engineer for mechanical dismantling & assembly work- 01 No (Entire Period of work-180 days)
- b) Electrical Engineer during New stator building –01 No (Entire Period of work /180 days)
- c) Expert for Correction of Magnetic centre -01 No (During assembly/30 days)

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

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

SUBMISSION OF DOCUMENTS

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

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – III: SPECIAL TERMS AND OTHER CONDITIONS

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

The contractor shall submit following documents in report form within 15 days from commissioning of unit after the overhaul/shut down work is completed Details of work executed.

- ◆ Measurements against different schedules in compiled form.
- ◆ Material issue details.
- ◆ Material consumption details.
- ◆ Material returns details.
- ◆ Details of retrenchment benefits given to workmen.
- ◆ Details of issue of PF slip to workmen.
- ◆ Details of settlement of accident benefits if any to workmen
- ◆ Copies of pay sheets to workmen.
- ◆ Details and proof of remittance of PF to workmen (before final bill).
- ◆ No dues clearance from different stores of customer.
- ◆ Valid labour license(to be submitted in bidders letterhead, and furnished in a separate Sealed envelope)

TECHNICAL CONDITIONS OF CONTRACT (TCC)

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

4.0 LIST OF TOOLS AND PLANTS TO BE ARRANGED BY CONTRACTOR

01. Welding Generator sets with regulator, cables, electrodes, holders and shields etc.
02. Pulley Blocks- Single Sheave, Multi Sheave. Reamers upto 30 mm. Taper reamers.
03. Grinding Machines. Feeler gauge sets, feeler strips of 0.03 to 0.10 mm size.
04. Chain pulley blocks- Assorted size – as required. Wooden mallet, Nylon Mallet
05. Sets of DE and Ring spanners (6-15mm). Measuring steel tapes (3-5 meters).
06. Spirit Level Precision spirit level (with micro head).
07. Sets of box spanners (as per requirement). Set of parallel blocks/ V blocks.
08. D.P. test kit (with consumable). Surface plate 450 X 450 mm
09. Crowbars, tin cutters, pliers (cutting plier /nose plier circlip-outside and inside)
10. Screw drivers. Dial indicators with magnetic bases (at least 10 dials of diameter 40mm travel–5 mm).
11. Hammers including sludge hammers - 10 lbs - 1 lbs.
12. Drilling machine with magnetic stand up to 30mm with drill bits.
13. Lifting devices - Eye bolts, D-shackles, Slings of various sizes, guide roads etc.
14. Torch light/hand lamps with cables.
15. 230/24V Transformer with cable and 24V bulbs.
16. Manila Rope of different size.
17. Wooden sleepers. Precision spirit level (with micro head).
18. Safety helmets, Safety Belts and other appliances like gas cutting/welding goggles.
19. Tarpaulins. Flat, half round, triangular bearing scrappers-8", to 12".
20. Electrode Heating Oven.
21. Thermo Chalks.
22. Insulating coils for preheating/post heating.
23. Tri square. Micrometers (inside and outside up to 300 mm, 450mm, 600mm & 1000mm).
24. Vernier calipers (0 to 300 mm).
25. Steel rulers.
26. Allen keys of various sizes (from 2mm onwards).
27. Slogging and single ended spanners (36mm & above).
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. Digital Multimeter & Analog Multimeter.
36. Air blower-electric.
37. Electric drills 1/4", 1/2", 5/8".
38. Ball pen hammer of various sizes, Chisels of various sizes.
39. Gas cutting and heating set with torches, regulators, hoses and cylinder(min. 6 sets).
40. Pneumatic grinder, hose pipes for compressed air bench vices.
41. Hydraulic jacks and mechanical jacks as per requirement.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

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

42. Electric switch boards and flood light arrangements with fuse boxes and isolating switches, plugs and sockets.
43. Gas cutting and heating set with torches regulators, hoses and cylinder minimum two sets).
44. In addition to above T&P contractor will be required to fabricate related to the scope of work.
45. Pedestal fans/air coolers, wooden sleepers, magnifying glass, plastic helmets, fibre helmets, gas cutting/welding goggles, tarpaulin.
46. Suitable Cable along with associated equipment for stator Core flux test, Core consolidation, HV test Kit, dry out equipment/tools, low p.f watt meter are to be arranged by Contractor.

NOTE:

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

4.1 CONSUMABLES TO BE ARRANGED BY CONTRACTOR

(The list is indicative only and not exhaustive)

01. Kerosene.
02. Rustolene.
03. Petrol/white petrol/benzene/CRC-226.
04. Grease/Graphite grease.
05. Hacksaw blades.
06. Waste cloth/cotton.
07. Marking/lint free-cloth/muslin.
08. Asbestos cloth/asbestos cord.
09. Prussian blue.
10. Graphite (Banked) powers/ molycote/ Mosil.
11. Hold tight/shellac/gasket sealing compound.
12. Lead wire 1.0 mm/1.5 mm/0.5 mm.
13. Liquid soap.
14. Carborundum grinding paste coarse/fine/diamond lapping paste.
15. Emery papers/rolls.
16. Cut off wheels.
17. Grinding wheels.
18. Oil stones, mounted wheels, rotary cutters.
19. DP/MPI test chemicals in ample quantity.
20. Gas cylinders for cutting/welding.
21. Chalk pieces, marking pens, thermo chalks upto 400° C, Infra-Red Gun for temp. measurement.
22. Insulation tape, Johnson tapes

TECHNICAL CONDITIONS OF CONTRACT (TCC)

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

23. Polythene sheets.
24. Araldite, M-seals, Insta-bond, Dentrile.
25. CRC 226 white spirit.
26. Electric fuse wire, cables for the connections.
27. Dye penetration test kit with required consumables.
28. All the consumables required for above said works like cotton waste, kerosene, petrol, CTC, plastic sheets , grinding wheels, general purpose electrode for welding temporary works, industrial Oxygen, Acetylene, Nitrogen gas cylinder & Rustolene etc.

NOTE:

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

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – V: QUALITY REQUIREMENTS

QUALITY REQUIREMENT

- 1.0. Various inspection/ quality control / quality assurance procedure/ methods at various stages will be as per BHEL/ customer quality control procedure/ codes/ IBR and other statutory provisions and as per BHEL Engineer's instructions.
- 2.0. Preparation of quality assurance log sheets and protocols with customer's engineers, welding logs, other quality control and quality assurance documentation as per BHEL Engineer's instructions, is within the scope of work/ specification.
- 3.0. A daily log book should be maintained by Area In-charge of contractor on the job incorporating alignment/ clearance/ centering/ leveling readings and inspection details of various other ESP and auxiliaries and to be submitted to BHEL.
- 4.0. All the important measurements like preassembly checking of alignment leveling/ centering work etc. shall be recorded in the daily log book with sketches based on BHEL drawings indicating readings/ measurements actually taken and signed by BHEL/ Customer/ Contractor representatives.
- 5.0. The inspection/measuring and testing equipments should be of brand, quality and accuracy, as specified by BHEL engineer and should have valid calibration certificates traceable to national/international standards.
- 6.0. Total quality is the watchword of the work and contractor shall strive to achieve the quality standards, procedures laid down by BHEL. He will follow the instructions as per BHEL drawings and quality standards.
- 7.0. The welder's performance will be reviewed from time to time as per the BHEL/ IBR standards and any welder not performing to the standards set by BHEL/ IBR standards will be removed from working, Contractor shall arrange for the alternate welders immediately.
- 8.0. All the welders including HP welders shall carry identity cards. Only welders duly authorised by BHEL/ customer/ consultant shall be engaged on the work.
- 9.0. STAGE INSPECTION BY BHEL / CUSTOMERS ENGINEERS

Apart from day-to-day inspection/ stage inspection of equipments by BHEL engineers, the set may be checked at various stages by customer's engineers and quality assurance teams. Contractor shall arrange all labour, tools/tackles etc. for such inspections free of cost

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – VI: Time Schedule

6.1 TIME SCHEDULE & MOBILIZATION

6.1.1 INITIAL MOBILIZATION

Full-fledged team shall be mobilized within 2 days after the placement of LOI and consultation with RSM/SAS

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

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

The work as per scope of work given in Annexure-I, is to be completed within regular contract duration of 150 days and 30 days of grace period (Total 180 days) .

- ❖ The tentative outage schedule of the Hydro set as informed by GSECL Ukai HPS shall be in the first week of November' 2014

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VII: Terms of Payment

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

- 1.0 40% after the mobilization, Dismantling and submission of Insurance & Labour License (5% for T & P and consumables, 5% for Deployment of manpower). Penalty of 1% per day of the total contract value will be levied for improper mobilization of man power and 1% per day for T & P and consumables separately subject to maximum 10% of the contract value shall be deducted from your bill
- 2.0 50% after Completion of Assembly.
- 3.0 10% on successful commissioning / full load operation / completion of all works.

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

Note:

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

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

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

7.3 Performance Guarantee Period for Workmanship: Guarantee Period as indicated in Clause 2.24.1 of 'General Conditions of Contract' shall be 12 Months

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VIII: Taxes and Other Duties

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

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

8.1.1

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

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

8.1.2 Service Tax & Cess on Service Tax

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

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

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

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

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

8.1.3 VAT (Sales Tax /WCT)

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

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

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

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VIII: Taxes and Other Duties

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

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

8.2 ———'Enabling Works'

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

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

8.3 New Taxes/Levies

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

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

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