



Bharat Heavy Electricals Limited

(A Govt. Of India Undertaking)

Power Sector, Eastern Region

BHEL Bhawan, Plot No. DJ-9/1, Sector- II,
Salt Lake City, Kolkata, WEST BENGAL, INDIA

Phone: 033-23398220, 23211690, FAX: 033-
23211960

NOTICE INVITING TENDER (NIT)

OFFERS ARE INVITED FROM REPUTED & EXPERIENCED “LOCAL” BIDDERS (MEETING PRE-QUALIFICATION CRITERIA AS MENTIONED) **THROUGH E-PROCUREMENT PORTAL <https://bhel.abcprocure.com> ONLY** for THE SUBJECT JOB BY THE UNDERSIGNED ON BEHALF OF BHARAT HEAVY ELECTRICALS LIMITED AS PER THE TENDER DOCUMENT. WHERE “LOCAL” IS DEFINED AS PER PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA) ORDER 2017 BY GOVT. OF INDIA, VIDE ORDER NO. P-45021/2/2017-B.E.-II DATED 15TH JUNE, 2017 & ALL SUBSEQUENT CLARIFICATIONS. ISSUE OF TENDER TO ANY BIDDER SHALL NOT CONSTRUED THAT THE BIDDER IS CONSIDERED TO BE QUALIFIED. FOLLOWING POINTS RELEVANT TO THE TENDER MAY PLEASE BE NOTED AND COMPLIED WITH.

Salient Features of NIT

SL NO	ISSUE	DESCRIPTION	
i	E-TENDER NUMBER	PSER: PUR:KDM:S322:18 (ENQ:18:PP:0015:PUR:49) Date 20/08/2018.	
ii	Broad Scope of job	“INSPECTION OF HPT & IPT, OVERHAULING OF LP AND GENERATOR & AUXILLIARY WORKS OF UNIT-2 500MW (KWU DESIGN) AT KODERMA THERMAL POWER STATION, JHARKHAND”.	
iii	ISSUE OF TENDER DOCUMENTS	a) <i>Online through e-procurement platform at https://bhel.abcprocure.com</i> b) <i>in BHEL website (www.bhel.com, www.jantermanter.com & CPP Portal) : For tender view purpose only</i>	1. <i>Applicable</i> 2. <i>Applicable</i>
iv	DUE DATE & TIME OF OFFER SUBMISSION	<i>Date: 27/08/2018, Time: 15-00 Hrs.</i> <i>(Offer to be submitted online only through e-procurement platform at https://bhel.abcprocure.com)</i>	<i>Applicable</i>
v	TECHNO-COMMERCIAL BID OPENING OF TENDER	<i>Date: 27/08/2018, Time: 16-00 Hrs.</i> <i>(online only through e-procurement platform at https://bhel.abcprocure.com , participating bidders may witness the same online only)</i>	<i>Applicable</i>
vi	EMD AMOUNT	<i>INR 1,42,000.00 (Indian One Lakh Rupees Forty Two Thousand Only)</i> <i>[To be submitted in the form and manner as mentioned below]</i>	<i>Applicable</i>
vii	COST OF TENDER	--	<i>Not Applicable</i>
viii	LAST DATE FOR SEEKING CLARIFICATION	<i>Date: 25/08/2018 (UP TO 11:00 Hrs.)</i>	<i>Applicable</i>
ix	SCHEDULE OF Pre Bid Discussion (PBD)	If any, shall be intimated through Tender Change Notice (TCN)	<i>Not Applicable</i>
x	INTEGRITY PACT & DETAILS OF INDEPENDENT EXTERNAL MONITOR (IEM)	--	<i>Not Applicable</i>

xi	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 & www.jantermanter.com/ CPP portal →Tender Notice & E-PROCUREMENT PORTAL https://bhel.abcprocure.com) and not in the newspapers. Bidders to keep themselves updated with all such information.	<i>Shall be intimated to bidder</i>
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The offer shall be submitted as per the instructions of tender document. Only One set of tender document (**in original, downloaded from website**) signed by authorised company rep. of bidder and stamped on each page shall be submitted as detailed further, as given below. Bidders to note specifically that all pages of tender document, including these NIT pages etc. appearing in the website for this particular tender shall be submitted by them (after signing/stamping on each page) as a part of their offer. **Price shall not be mentioned by them anywhere in the techno-commercial portion of offer. Price shall be mentioned in the relevant price schedule only and to be submitted in e-procurement portal/platform in the form and manner mentioned in tender.**

For E-PROCUREMENT ASSISTANCE & TRAINING, M/s E-PROCUREMENT TECHNOLOGIES LIMITED HELPDESK PERSONS AS PER FOLLOWING: -

- a) Mr. Swapnil Hamilton, Support Executive, Ph: +91 7940270549, e-mail ID: swapnil.h@eptl.in
- b) Mr. Hardik Oza, Support Executive, Ph: +91 7940270560, e-mail ID: hardik.oza@eptl.in
- c) Mr. Ankur Bhatt, Support Executive, Ph: +91 7940270590, e-mail ID: ankur.bhatt@eptl.in
- d) Mr. Prashant Rajyaguru, Asst. Manager - Implementation & Support, Ph: +91 7940270545 / 08160087732/ 09016859416, e-mail ID: prashant@eptl.in

or for any difficulty in downloading the tender from internet website, they should contact this office (Dy. Engineer, Purchase or AGM, Purchase Phone no. 033-23398223/8220). No alteration/changes by bidders is permitted in the tender/NIT appeared in the website.

1. Successful bidder shall have to submit additional set of tender/sign on tender document provided by BHEL, if so decided by BHEL.
Earnest Money Deposit (EMD) of INR 1,42,000.00 (Indian One Lakh Rupees Forty Two Thousand Only) in the form & manner prescribed in tender, shall be submitted by bidder as mentioned below, failing which the bidder's offer is liable for rejection.

SCAN COPY OF DOCUMENTS IN SUPPORT OF SUBMISSION OF EMD TO BE UPLOADED ALONG WITH TECHNO-COMMERCIAL OFFER IN M/s E-PROCUREMENT TECHNOLOGIES LIMITED E-PROCUREMENT PORTAL/PLATFORM. IN CASE OF EMD SUBMISSION THROUGH BANKER'S CHEQUE/PAY ORDER/DEMAND DRAFT, SAME TO BE SUBMITTED IN SEALED ENVELOPE (SUPERSCRIBING TENDER REFERENCE) TO HEAD-PURCHASE/DY. ENGINEER/PURCHASE, BHEL BHAWAN, DJ-9/1, SECTOR-2, KARUNAMOYEE, SALT LAKE CITY, KOLKATA-700091, WEST BENGAL PRIOR TO LATEST DUE DATE OF SUBMISSION OF OFFER.

One time EMD of Rs. 5,00,000/- (Rupees Five Lakh only) for BHEL-PSER, SAS jobs will also be valid for all such PSER-SAS jobs. Parties/bidders who have submitted/submits One Time EMD (OEMD) in this Power Sector Region (i.e. BHEL-PSER) for Service After Sales (SAS) a sum of amount Rs. 5,00,000/- (Rupees Five Lakh only) are exempted from payment of E.M.D. on each such tender in that unit on case to case basis. (evidence of deposit must be submitted in scanned copy and to be uploaded along with techno-commercial offer in M/s E-PROCUREMENT TECHNOLOGIES LIMITED portal/platform) will be exempted from submission of EMD with this tender. The followings may be noted:

In case the bidder deposits separate EMD as mentioned above, there will be no change

- a) In existing clauses of this tender.
- b) In case of bidders having one time EMD; one time EMD can not be used for SD purpose.
- c) Security deposit shall be submitted as per provision of tender. **Security deposit shall cover the entire duration of work plus the performance guarantee period plus three months notice period prior to release of the same.**
- d) **The EMD shall be enclosed with the Techno-Commercial Bid in the form and manner as mentioned above.**

2. This is an E-tender floated online through our E-Procurement Site <https://bhel.abcprocure.com>. The bidder should respond by submitting their offer online only in our e-Procurement platform at <https://bhel.abcprocure.com>. Offers are invited in two-parts only. No Hard copy bid or bids through email/ fax shall be accepted. Bids are invited in two parts & shall be submitted as described below:

OFFER DESCRIPTION	DOCUMENTS TO BE UPLOADED & MODALITY OF UPLOADING
TECHNICAL OFFER	1. Scanned copy of Covering letter of offer (To be attached in Attachment section) 2. Scanned copy of Entire tender documents signed & stamped in each page by authorized representative of the bidder except price bid (To be attached in Attachment section). 3. Scanned copy of Techno-Commercial Offer (To be attached in Attachment section) 4. Duly filled all annexures except price & unpriced format (To be attached in Attachment section). 5. Copy of records notes of Pre-Bid Conference, if applicable/ pre-bid MOM. (To be attached in Attachment section) 6. Copy of Tender change notice (TCN), if applicable (To be attached in Attachment section) 7. All supporting documents/ Annexures etc. as applicable (To be attached in Attachment section). 8. No deviation certificate in bidder's letterhead as per format given in Tender (To be attached in Attachment section).
PRE-QUALIFICATION PART	9. Pre-qualifying documents with all credentials as per tender. (To be attached in PQ Attachment section)
UNPRICED PRICE BID	10. Price schedule –Unpriced but mentioning only quoted / unquoted against each item as per tender. (To be attached in Unpriced bid Attachment section)
PRICE BID	11. Duly filled in Price Schedule as per tender. (To be attached in price bid Attachment section) Any other document uploaded in the price bid, apart from tendered Price schedule, shall not be taken into cognizance for evaluation of offer.

SPECIAL NOTE:

- A)** Offer & documents submitted with the offer shall be signed and stamped in each page by authorised representative of the bidder. No overwriting/correction in tender documents by bidders shall be allowed. However, if correction is unavoidable, the same may be signed by authorized signatory.
- B)** 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.

- 4.0 No deviation with respect to tender clauses and no additional clauses/suggestions/clarification in Techno-commercial bid/Price bid shall normally be considered by BHEL. Bidders are requested to positively comply with the same. Offers with deviation are liable for rejection.
- 5.0 BHEL reserves the right to accept or reject any or all offer without assigning any reasons thereof. BHEL also reserve the right to cancel the tender wholly or partly without assigning any reason thereof. BHEL also reserve the right to split/part award the job. Also, BHEL shall not entertain any correspondence from bidders in this matter (except for the refund of EMD).
- 6.0 Since the job shall be executed at site, the bidders must visit site/ work area and study the job content, facilities available, availability of materials, prevailing site conditions including Law and Order situation, applicable Wage structure, Wage rules, present condition of machines 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 site/machine conditions at the time of bidding.
- 7.0 For any clarification on the tender document, you may seek the same in writing or through e-procurement portal/platform as per specified format within the last date of seeking clarification as per tender. BHEL shall not be responsible for receipt of queries after due date of seeking clarification due to postal delay, and receipt of any query after due date shall not be entertained.
- 8.0 BHEL may decide holding Pre-bid Discussion [PBD] with all intending bidders. On such communication from BHEL, the bidder shall ensure participation for the same at the appointed time, date and place as may be decided by BHEL. Outcome of PBD (if any) shall also form part of tender.
- 9.0 In case of absence of any queries from bidder(s), their quoted price will be PRESUMED to be final and complete with reference to the tender documents (including Tender change notes (TCNs), clarifications, corrigendum issued by BHEL, if any). Bidders are requested to study the tender documents in detail and prepare their queries/clarifications accordingly. All such queries / clarifications shall be cleared/replied by BHEL. Such clarification letters, corrigendum and/or Tender change notes (TCNs), if issued by BHEL, shall form part of tender document.
- 10.0 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/ contradictions between any two clauses of tender document, the same to be brought to the knowledge of BHEL by bidders in writing for clarification before due date of seeking clarification, otherwise, more stringent requirement as may be interpreted by BHEL shall prevail and shall be binding on you. Any typing error/missing pages/ other clerical errors in the tender documents, noticed by you must be pointed out before submission of offer, or else, BHEL's interpretation shall prevail & binding on you.
- 11.0 Unless specifically mentioned otherwise, bidder's quoted price shall deemed to be in compliance with tender including PBD.
- 12.0 Tender document containing above mentioned volumes shall be signed & stamped in all pages including this covering letter. Price bid shall be furnished in the specified format enclosed with the tender. Any additional copy, if required, may be taken by photocopying from the tender document given in the web.

- 13.0 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 qualify for the subject job on the basis of pre-qualification evaluation & Techno-Commercial bids etc. BHEL reserves the right to reject the bidders with unsatisfactory past performance in the execution of a contract. BHEL's decision in this regard shall be final & binding.
- 14.0 While BHEL reserve the right to open the price bid of the offers in camera, the date & time to open the PRICE BID, tender opening shall be intimated to the bidders in case BHEL decides it to be 'Public opening' and in such a case, one authorised representative of the bidder shall be allowed to attend.
- 15.0 Validity of the offer shall be for Six months from the due date of offer submission (including extension, if any) unless specified otherwise.
- 16.0 Firm prices are to be quoted in whole rupees, in the place meant for price or on the price schedule enclosed as applicable for the full scope of work given in tender. The rates quoted must be in figures and words as well (Prices quoted must be workable too for the job involved). **Prices quoted by the bidders should be inclusive of all taxes and duties leviable by any Statutory Authority for this job as on the date of the tender opening (excluding GST & BOCW Cess).**
- 17.0 Price Bids shall be evaluated in the manner as prescribed in Price Schedule. However, Unit Rates shall also be furnished if applicable in the Price Schedule.
- 18.0 ***Bid should be free from correction, overwriting, using corrective fluid, etc.. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else bid shall be liable for rejection.***
- 19.0 Bidders are required to submit their BEST price as per tender Price Schedule format in e-procurement portal/platform in the form & manner as mentioned in tender.
- 20.0 ***"BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno- commercial evaluation. Bidders to give their acceptance with the offer 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 RA.***
- 21.0 ***Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).***
- 22.0 ***The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates.***

In case of enquiry through e-procurement portal/platform, the sealed electronic price bid (e-bid) is to be treated as sealed envelope bid.

- 23.0 ***If it is found that L1 bidder has quoted higher in online seal bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/contractors (as available on www.bhel.com).***
- 24.0 *Reverse Auction is the type of auction typically conducted to buy goods / items over Internet in which the lowest price bidder wins. In case, the bidders are willing to know the details about the methodology, they may please contact HEAD/PURCHASE OR DY. ENGINEER /PURCHASE, BHEL, KOLKATA.*
- 25.0 ***However, if Reverse Auction process is not adopted or Reverse Auction is unsuccessful as defined in the RA rules/procedures, or for whatsoever reason, then the 'PRICE BID' and price impacts (if any), already submitted in e-procurement portal/platform, submitted by the bidder shall be opened for deciding the successful bidder, as per BHEL's standard practice. BHEL's decision in this regard will be final and binding on bidder.***
- 26.0 *Bidders are requested to note that the accepted / agreed tender terms (technical, commercial or on Reverse Auction) in their original offer can not be altered / withdrawn by their own during the processing of tender.*
- 27.0 **The Bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.**
- 28.0 **The offers of the bidders who are on the banned list as also the offer of the bidders, who engages the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com.**
- 29.0 **The bidder shall submit documents in support of possession of 'Qualifying Requirements' duly self certified and stamped/ digitally signed (as applicable) 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.**
- 30.0 **The bidder may have to produce original document for verification if so decided by BHEL.**
- 31.0 *Suspension of Business dealings with Suppliers/ Contractors: BHEL reserves the right to take action against contractors who fail to perform or indulge in malpractices, by suspending business dealings with them as detailed in Annexure-A.*
- 32.0 *Indian suppliers, falling under the purview of Public procurement (preference to make in India) order 2017 by Govt. of India, vide order no. P-45021/2/2017-B.E.-II dated 15th June-2017, & all subsequent clarifications can avail the intended benefits, as per provisions of the order subject to minimum local content shall be 50%, margin of Purchase preference shall be 20% & modality of preference to Make in India shall be as per aforesaid order.*

Any Indian Bidder intending to avail the benefits as shall submit the requisite documents as per the aforesaid order.

33.0 "MSE suppliers can avail the intended benefits in respect of the procurements related to the Goods and Services only (Definition of Goods and Services as enumerated by Govt. of India vide Office Memorandum F. No. 21(8)/2011-MA dtd. 09/11/2016 office of AS & DC, MSME) if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) /Udyog Aadhar Memorandum(UAM) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed at Annexure-B where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer."

Any Bidder falling under MSME category, shall furnish the following details & submit documentary evidence/Govt. Certificate etc. in support of the same along with their techno-commercial offer: -

Type under MSME	SC/ST owned	Others
Micro		
Small		
Medium		

Note: - If the bidder does not furnish the above, offer shall be processed construing that the bidder is not falling under MSME category.

34.0 **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: -**

- i) Amendments/Clarifications/Corrigenda/Errata/Tender change notice (TCN) etc. issued in respect of the tender documents by BHEL
- ii) Notice Inviting Tender (NIT)
- iii) Price Schedule
- iv) Scope of work & other details - Annexure-I, Annexure-BOCW, Annexure-SAS-I, Annexure-II, Annexure-III, Annexure-S, Annexure for HSE & OHSAS and Special note to bidders.
- v) SPECIFIC TERMS AND CONDITIONS FOR SERVICES JOBS
- vi) GENERAL & SPECIAL CONDITIONS OF CONTRACT FOR SERVICES JOB

All the bidders are requested to note that all the errata / technical clarifications / corrigendum / extension etc. shall be published THROUGH E-PROCUREMENT PORTAL <https://bhel.abcprocure.com> and in website www.jantermanter.com , www.bhel.com & <http://eprocure.gov.in> . As such, all the bidders are requested to be in continuous touch with these websites.

for BHARAT HEAVY ELECTRICALS LTD.

DGM(PURCHASE)

Agency	Contact details	
BHEL, PSER, Kolkata	Address	BHARAT HEAVY ELECTRICALS LIMITED, POWER SECTOR – EASTERN REGION 2ND FLOOR, BLOCK-DJ, PLOT- 9/1, SECTOR, SALT LAKE CITY, KOLKATA – 700 091
	Phone no.	033-23398223, 23398220, 23211690
	FAX no.	033-23211960
	E-mail ID	avijitpan@bhel.in , sukhen@bhel.in
M/s E- PROCUREMENT TECHNOLOGIES LIMITED	<p>For E-PROCUREMENT ASSISTANCE & TRAINING, M/s E-PROCUREMENT TECHNOLOGIES LIMITED HELPDESK PERSONS AS PER FOLLOWING: -</p> <ol style="list-style-type: none">1) Mr. Swapnil Hamilton, Support Executive, Ph: +91 7940270549, e-mail ID: swapnil.h@eptl.in2) Mr. Hardik Oza, Support Executive, Ph: +91 7940270560, e-mail ID: hardik.oza@eptl.in3) Mr. Ankur Bhatt, Support Executive, Ph: +91 7940270590, e-mail ID: ankur.bhatt@eptl.in4) Mr. Prashant Rajyaguru, Asst. Manager - Implementation & Support, Ph: +91 7940270545 08160087732/ 09016859416, e-mail ID: prashant@eptl.in	

ANNEXURE - IV

FORMAT FOR NO DEVIATION CERTIFICATE
(To be submitted in the bidder's letter head)

To,
Bharat Heavy Electricals Limited,
POWER SECTOR – EASTERN REGION
2nd FLOOR, Block-DJ, Plot- 9/1, SECTOR
SALT LAKE CITY, KOLKATA – 700 091
FAX – 033-2321-1960

Job: “INSPECTION OF HPT & IPT, OVERHAULING OF LP AND GENERATOR & AUXILLIARY WORKS OF UNIT-2 500MW (KWU DESIGN) AT KODERMA THERMAL POWER STATION, JHARKHAND”.

E-Tender No.: PSER: PUR:KDM:S322:18 (ENQ:18:PP:0015:PUR:49) Date 20/08/2018..

Dear Sir/Madam,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/modified the tender documents as appeared in the website/newspapers and in case of observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT *and confirm our acceptance to reverse auctioning process* and we hereby convey our unqualified acceptance to all terms and conditions as stipulated in the tender and NIT.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer strictly in accordance with tender instructions.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized
representative of the contractor)

ANNEXURE - V

PRE – QUALIFICATION CRITERIA

Job: “INSPECTION OF HPT & IPT,OVERHAULING OF LP AND GENERATOR & AUXILLIARY WORKS OF UNIT-2 500MW (KWU DESIGN) AT KODERMA THERMAL POWER STATION ,JHARKHAND”.

E-Tender No.: PSER: PUR:KDM:S322:18 (ENQ:18:PP:0015:PUR:49) Date 20/08/2018.

SL NO	CRITERIA
A	PRE-QUALIFICATION CRITERIA
1.0 (a)	BIDDER SHOULD HAVE AVERAGE ANNUAL TURNOVER OF MINIMUM Rs 21.30 LAKHS DURING LAST 3 (THREE) FINANCIAL YEARS, ENDING ON 31-03-2017 AND SHOULD HAVE POSITIVE NET WORTH AS ON LATEST AUDITED ACCOUNTS AS SUBMITTED FOR PARA 1(c).
(b)	BIDDER MUST HAVE EARNED PROFIT IN ANY ONE OF THE LAST THREE FINANCIAL YEARS ENDING ON 31-03-2017. AUDITED BALANCE SHEET AND PROFIT & LOSS ACCOUNT OF THE COMPANY FOR LAST 3 (THREE) FINANCIAL YEARS, ENDING ON 31-03-2017 NEED TO BE SUBMITTED IN SUPPORT OF ABOVE.
(c)	IN CASE AUDITED BALANCE SHEET AND PROFIT & LOSS ACCOUNT HAS NOT BEEN SUBMITTED FOR ALL THREE YEARS INDICATED ABOVE THEN APPLICABLE FINANCIAL AUDITED STATEMENTS SUBMITTED BY THE BIDDER AGAINST THE REQUISITE THREE YEARS WILL BE AVERAGED FOR THREE YEARS.
(d)	IF FINANCIAL STATEMENTS ARE NOT REQUIRED TO BE AUDITED STATUTORILY, THEN INSTEAD OF AUDITED FINANCIAL STATEMENTS, FINANCIAL STATEMENTS ARE REQUIRED TO BE CERTIFIED BY CHARTERED ACCOUNTANT.
2.0	BIDDER SHOULD HAVE EXECUTED AT LEAST ONE JOB OF “ERECTION & COMMISSIONING OF STG & AUX. JOBS” OR “OVERHAULING OF STG & AUX. JOBS” OF AN UNIT OF RATING 200 MW OR ABOVE (KWU DESIGN) IN ANY UTILITY/ INDUSTRIAL PROJECT IN LAST 3 (THREE) YEARS, ENDING ON LATEST DUE DATE OF SUBMISSION OF OFFER. RELEVANT SUPPORTING DOCUMENTS FROM PURCHASER / END USER SHALL BE SUBMITTED.
NOTE FOR SL NO 2.0 ABOVE	
THE WORD EXECUTED MEANS: THE WORK SHALL HAVE BEEN COMPLETED UP TO SYNCHRONISATION EVEN IF THE CONTRACT HAS NOT BEEN COMPLETED OR CLOSED	
3.0	BIDDER SHOULD HAVE VALID PAN. RELEVANT SUPPORTING DOCUMENTS SHALL BE SUBMITTED.
4.0	NO CONSORTIUM / JV BIDDING IS ALLOWED FOR THIS TENDER.
5.0	CONSIDERATION OF OFFER WILL BE SUBJECT TO CUSTOMER’S APPROVAL OF BIDDER
Note	AFTER SATISFACTORY FULFILLMENT OF ALL THE ABOVE CRITERIA, OFFER SHALL BE CONSIDERED FOR FURTHER EVALUATION AS PER NIT AND ALL OTHER TERMS OF THE TENDER.

GENERAL INFORMATION:

VENDOR SHOULD FURNISH INFORMATION REGARDING PROJECTS IN HAND, DETAILS OF CURRENT LITIGATION AND ARBITRATION CASES, ORDERS REGARDING EXCLUSION/EXPULSION OR BLACK LISTING, IF ANY.

CORRIGENDUM/EXTENSION (IF ANY) OF THIS TENDER WILL BE PUBLISHED IN WEBSITES.

INTERESTED BIDDERS MEETING THE ABOVE QUALIFYING REQUIREMENTS MAY DOWNLOAD TENDER DOCUMENTS FROM AFORESAID WEBSITE(S).

i)	DOWNLOAD OF TENDER DOCUMENT STARTS	20/08/2018
ii)	TENDER DOWNLOAD CLOSES ON	27/08/2018 AT 15:00 HRS. IST
iii)	LAST DATE OF SEEKING CLARIFICATIONS	25/08/2018 UP TO 11:00 HRS. IST
iv)	PRE-BID DISCUSSION (IF REQUIRED) ON	N.A.
v)	LAST DATE OF SUBMISSION OF OFFER	27/08/2018 UP TO 15:00 HRS. IST
vi)	DATE OF TECHNO-COMMERCIAL BID OPENING	27/08/2018 AT 16:00 HRS. IST

BHEL RESERVE THE RIGHT TO ACCEPT/REJECT ANY OR ALL THE BIDS WITHOUT ASSIGNING ANY REASON THEREOF.

NOTE: PRE-BID DISCUSSION, IF TAKE PLACE, SHALL FORM PART OF THE TENDER DOCUMENT. NO CLARIFICATIONS/QUIERIES FROM THE TENDERERS AFTER 25/08/2018 (UP TO 11:00 HRS. IST) OR AFTER PRE-BID DISCUSSION (IF TAKES PLACE) SHALL BE ENTERTAINED BY BHEL.

ENCLOSURES: --

- i) SCOPE OF WORK, TAXES AND DUTIES & OTHER DETAILS: (ANNEXURE-I: 06 PAGES)
- ii) *SPECIFIC CLAUSE WITH RESPECT TO BOCW ACT & CESS ACT: (ANNEXURE-BOCW: 02 PAGES)*
- iii) ESSENTIAL CONDITIONS TO BE FULFILLED BY SUCCESSFUL BIDDER: (ANNEXURE-SAS-I: 02 PAGES)
- iv) TENTATIVE LIST OF T & P (ANNEXURE-II: 04 PAGES)
- v) LIST OF CONSUMABLES TO BE ARRANGED BY THE CONTRACTOR IN ADDITION TO NORMAL CONSUMABLES (ANNEXURE-III: 01 PAGE)
- vi) SAFETY CLAUSES (ANNEXURE-S: 03 PAGES)
- vii) ANNEXURE FOR HSE & OHSAS: 16 PAGES
- viii) SPECIAL NOTE TO BIDDERS: 02 PAGES
- ix) GENERAL & SPECIAL CONDITIONS OF CONTRACT FOR SERVICES JOB (23 PAGES)
- x) SPECIFIC TERMS AND CONDITIONS FOR SERVICES JOB (14 PAGES)
- xi) NO DEVIATION CERTIFICATE AS PER PRESCRIBED FORMAT (ANNEXURE-IV)
- xii) PRE-QUALIFICATION CRITERIA (ANNEXURE-V)
- xiii) DECLARATION OF THE BIDDERS (ANNEXURE-VI)
- xiv) PRICE SCHEDULE
- xv) *GENERAL TERMS & CONDITIONS OF REVERSE AUCTION (PART – D)*
- xvi) *FORMAT FOR BANK GUARANTEE FOR PERFORMANCE SECURITY*
- xvii) *FORMAT FOR PROFORMA OF BANK GUARANTEE (in lieu of SECURITY DEPOSIT)*
- xviii) *RTGS FORMAT (REAL TIME GROSS SETTLEMENT)*
- xix) *SUSPENSION OF BUSINESS DEALING WITH SUPPLIERS/CONTRACTORS - ANNEXURE-A*
- xx) *FORMAT FOR CERTIFICATE BY CHARTERED ACCOUNTANT ON LETTER HEAD - ANNEXURE-B*
- xxi) *FORMAT FOR DECLARATION FOR RELATION IN BHEL*
- xxii) *FORMAT FOR SEEKING CLARIFICATION*
- xxiii) *FORMAT FOR DETAILS OF BIDDER*
- xxiv) *RTGS DETAILS OF BHEL-PSER FOR EFT BY BIDDER/CONTRACTOR*

ALL THE PAGES OF NIT SHALL BE DULY SIGNED BY THE BIDDER WHILE SUBMITTING THE OFFER.

For & on behalf of
BHARAT HEAVY ELECTRICAL LIMITED

DGM (PURCHASE)

PARTICULARS OF THE TENDER

A) E-TENDER NUMBER : **PSER: PUR:KDM:S322:18 (ENQ:18:PP:0015:PUR:49)**
Date 20/08/2018.

B) WORK :**“INSPECTION OF HPT & IPT,OVERHAULING OF LP AND GENERATOR & AUXILLIARY WORKS OF UNIT-2 500MW (KWU DESIGN) AT KODERMA THERMAL POWER STATION ,JHARKHAND”**

”.

C) TENDER SUBMISSION DUE DATE : **ON 27/08/2018 UP TO 15:00 HRS. IST**

D) TECHNICAL BID OPENING DATE : **ON 27/08/2018 AT 16:00 HRS. IST**

E) PRICE BID OPENING :

F) VALIDITY OF OFFER : Six months from the due date of offer submission
(Including extension, if any)

G) MOBILIZATION TIME : **As per Annexure-I**

H) COMPLETION PERIOD : **As per Annexure-I**

I) TARGET COMPLETION DATE :

J) The vendors should furnish the following documents for our scrutiny along with papers for pre-qualification for qualifying for price bid opening.

- 1) Credential / Experience certificates in line with Pre-Q & requirements in line with tender specifications
- 2) PAN NO & Photo Copy of PAN CARD.
- 3) Photo Copy of GSTN Registration Certificate.
- 4) Latest Banker's certificate for financial soundness.
- 5) Balance sheets & P&L Accounts for the preceding three years
- 6) Organizational chart
- 7) Relevant list of T&P held by the vendor earmarked for the tendered job
- 8) List of concurrent contracts held by the Contractor.

Particulars of Tender (Continued)

Facilities to be provided to contractors as described below:-

All T&P required / recommended for the work against this tender shall have to be mobilized by the contractor fully at their expense within the quoted price.

Any special T&P i.e. T&P made available by the manufacture of the equipment to the customer can be made available to the contractor free of charges subject to availability at site.

Any consumables required / recommended for the work against this tender shall have to be mobilized by the contractor fully at their expenses within the quoted price.

Regarding other facilities for the contractors the following table clarifies adequately. Vendors are expected to quote considering these without any deviations from the provisions of “Notice Inviting Tender”.

Deviated offers are liable for rejection of price bid opening

a)	Water	Free of Charges
b)	Power	Free of Charges
c)	Storage Space	Free of Charges
d)	Covered Space	Free of Charges
e)	Uncovered Space	Free of Charges
f)	E.O.T. Crane	Free of Charges
g)	Operators for the above	Cannot be provided
h)	Residential accommodation	Cannot be provided
i)	Compressed air	Free of Charges
j)	Work shop facilities	Cannot be provided

k)	i) Mobile Crane/Hydra for heavy materials, if available	Cannot be provided
	ii) Operator for K (i)	Cannot be provided
	iii) Fuel charges for K (i)	Cannot be provided
l)	Other material handling equipment	Cannot be provided
m)	Trailor	Cannot be provided
n)	Sleepers	Cannot be provided
o)	Tarpulins	Cannot be provided
p)	Scaffolding materials	Cannot be provided

No advance is payable to the contractors for mobilizing the site. Any payment can be made only against running bills as per payment terms.

For & on behalf of
BHARAT HEAVY ELECTRICALS LIMITED

DGM (PURCHASE)

ANNEXURE-VI

DECLARATION OF THE BIDDERS

Job: "INSPECTION OF HPT & IPT,OVERHAULING OF LP AND GENERATOR & AUXILLIARY WORKS OF UNIT-2 500MW (KWU DESIGN) AT KODERMA THERMAL POWER STATION ,JHARKHAND".

01. I,hereby certify that all the information and data furnished by me with regard to this **E-Tender No. PSER: PUR:KDM:S322:18 (ENQ:18:PP:0015:PUR:49) Date 20/08/2018** are true and complete to the best of my knowledge.
02. I have gone through the tender specifications, scope of work, terms and conditions mentioned in Annexure as well as General and Special conditions of contract and various stipulations in detail and agree to abide by them and comply with the requirements and intent of specifications.
03. I also certify that there have been no deviations from the tender requirements in the bid submitted against this tender.
04. I further certify that I am duly authorized representative of the under mentioned tenderer and hold a valid power of attorney to this effect, a copy of which is enclosed.

Signature:

Name :

Date :

Designation :

Seal :

Tenderers Name and address

PART-D:
General Terms & Conditions of Reverse Auction

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).

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. 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.
3. 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. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
6. Bidders have to fax the Process Compliance form (**Annexure-III of Business Rule Document of Reverse Auction – shall be shared to bidders along with intimation of RA schedule**) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
7. 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, GST and loading factors (for non-compliance 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.
8. Reverse auction will be conducted on scheduled date & time.
9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
10. 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, (**as per Annexure-IV of Business Rule Document of Reverse Auction**) as provided on case-to-case basis to Service provider within two working days of Auction without fail.
11. 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.
12. 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.
13. 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.
14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
15. In case BHEL decides to go for reverse auction, the H1 bidder (whose quote is highest in online sealed bid) will not be allowed to participate in further RA process provided minimum three bidders are left after removal of H1 bidder. In case of tie for H1 bid (identical online sealed bids), 15 minutes' additional time shall be provided and all the participating bidders shall be informed by mail/message on bidding screen to enable bidders submit revised online sealed bids so as to break the tie.
16. In case H1 bidder happen to be MSE and was removed from further bidding but is within L1 + 15% band, then this bid shall also be considered and to be processed in line with 'Public Procurement Policy for Micro & Small Enterprises (MSEs) order, 2012'.

SCOPE OF WORKINSPECTION OF HPT & IPT, OVERHAULING OF LP TURBINE AND GENERATOR & AUXILIARY WORKS OF UNIT-2, 500 MW (KWU DESIGN) AT KODERMA THERMAL POWER STATION, JHARKHANDJOB DURATION: JOB DURATION: 28 (TWENTY-EIGHT) DAYS FROM BG OUT TO BG IN**Mobilization Time: within Three days from date of intimation by BHEL**

The scope under this specification is not exhaustive but indicative only. However, any activity covered under the normal course of overhauling job shall be deemed to be within the scope. The scope shall also include, manpower assistance during trim balancing as may be required including post overhauling vibration signature analysis. Time is the essence of this contract. Hence contractor must mobilize site with adequate manpower for round the clock 12 hours shifts work during the entire duration. Workmen will not be allowed to work more than 12hrs a day. Also adequate T&P, Consumables and inspection/measuring and monitoring devices are to be mobilized at site for two shift operations to avoid any hold up during execution of the work. Post overhauling and synchronization of the unit, observation for 72 hrs at stable / rated load and attending all works to rectify defects if any, is included within the scope of work. Prior to mobilization of site list of work men shift wise with the concerned work area supervisor shall be finalized in BHEL-PSER, HQ.

In case any part of the job is not required to be carried out, a deduction will be effected as per percentage shown against those items.

NOTE:

- 1) INDUCTION HEATING MACHINE ALONG WITH OPERATOR WILL BE ARRANGED BY BHEL FOR HP, IP TURBINE, HP AND IPCVS OPENING. MANPOWER ASSISTANCE DURING PARTING PLANE BOLT/STUD OPENING AND CLOSING WILL BE PROVIDED BY VENDOR.
- 2) VENDOR TO ARRANGE INDUCTION/ GAS HEATING FOR BREECH NUT OPENING AND CLOSING.
- 3) VENDOR HAS TO ARRANGE TRANSPORTATION OF U-SEAL TO&FRO TO BHEL/HARIDWAR UNIT WITH AUTHORISED PERSON AS MAY BE RERQUIRED WITHOUT ANY EXTRA COST.
- 4) NECESSARY SCAFFOLDING MATERIAL TO BE ARRANGED BY VENDOR TO MAKE PLATFORMS.

	TOTAL	(100.00%)
A	TURBINE	(67.00%)
	SECTION - I	
	HPT MODULE INSPECTION	(13.00%)
1	Removal of insulation and all connecting pipes of HP module, which will obstruct during lifting of the HP Module.	0.25%
2	Checking of all the clearances e.g. Roll check, bump check, centering check, horn drop check etc. before removal of the HP Module from the pedestal.	0.75%
3	Coupled run out to be checked. All necessary arrangement required for removal of breach nuts (02 nos.) by gas/induction heating. If required, cutting and replacement of breach nuts is included in vendor's scope. Dismantling/assembly of CRH pipe by induction heating. Man power assistance with T&P during induction heating is required. Dismantling of other related pipelines. Locking of MS and CRH pipe lines before dismantling. Ring burner arrangement to be used to open breach nut.	1.00%
4	Supporting of turbine shaft to outer casing. Removal of both the bearing no. 01 and 02 bottom halves. Dismantling and reassembly of barring gear wheel/bucket with proper run-out.	0.50%
5	Lifting of complete HP module from pedestal and placing on fixture	0.25%
6	Tilting of complete module and placing in vertical position. Scaffolding as per requirement.	0.25%
7	Dismantling of both end glands including removal of sealing segments. Locking of rotor with respect to inner casing and outer casing both axially and radially.	0.50%
8	Loosening of threaded ring from barrel and removal of the same and placement.	0.25%
9	Removal of rotor with inner casing from barrel with the help of attachment etc. and placing	0.50%

	of the same on fixture in horizontal position for inspection as required. Roll and bump check of HP inner casing.	
10	Removal of top half of inner casing after loosening of parting plane studs. Inspection of rotor and stator blades, fins, etc. Manpower assistance during loosening of inner casing parting plane nut by induction heating equipment.	0.50%
11	Removal of rotor from bottom half, removal of sealing segments from both half of HP inner casing.	0.50%
12	Alumina blasting of HP rotor and HP inner casing (T&B), shaft sealing segments. Vendor has to arrange sufficient quantity alumina of grit size 90. Arrangement of seal proof enclosure for blasting.	0.50%
13	Testing of spring support on sealing segments, sealing strips etc. and replacement as required. Dismantling of parting plane studs. DPT of Studs as per requirement. Measurement of parting plane stud length and replacement if required.	0.25%
14	Ovality checking & necessary correction of HP inner casing. Heat tightening by induction heating equipment.	0.50%
15	Insertion of inner casing in outer barrel and aligning the inner casing in casing inlet section and fitting in with the fitted keys. Replacement of keys as required.	0.25%
16	Insertion of HP shaft on bottom half and alignment with inner casing.	0.25%
17	Measurement of axial and radial clearances (flow path) and corrections to be made if required.	0.50%
18	Removal of fins from BP, front and rear glands of existing rotor and refining of the glands. Machining of fins to the desired dimension. Arrangement of machining fixture is included in the vendor's scope of work. Caulking to be done by pneumatic caulking machine.	0.75%
19	Checking of axial and radial clearances for sealing segments after insertion of the same and placement of the rotor. Dressing of fins to be done wherever damaged.	0.50%
20	Inspection of HPT internals & fasteners and carrying out cleaning, repair, replacement of components etc. and DPT as required.	0.25%
21	Turbine shaft insertion in bottom half for final assembly and top half to be placed in position. Tightening of the studs with Induction Heating device.	0.50%
22	Clearance check on assembled inner casing using clearance-measuring device.	0.25%
23	Roll check and bump check of assembled inner casing. Measurement of axial reference.	0.50%
24	Locking of inner casing with rotor for inserting in casing inlet section.	0.25%
25	Inner casing to be inserted in the inlet section after fitting of the internals and threaded ring etc.	0.50%
26	Assembly of front and rear gland sealing segments, glands etc.	0.50%
27	Fitting of the seals etc. and locking of the casing to rotor.	0.50%
28	Assembled module to be put back on the pedestal.	0.50%
29	Final connections of all pipe lines, bridge nuts (02 nos.), CRH pipe lines, welding of pipe lines and stress relieving, UT, X-ray of joints, gland pipes. Arrangement of welding rods, filler rod is included in vendor's scope. Welding of gland steam lines and RT as applicable, Re-insulation of pipes after RT.	0.50%
SECTION - II		
IPT MODULE INSPECTION		(12.00%)
1	Insulation removal. Disposal of unused insulation to designated location.	0.75%
2	Secure valve support, open ball and spigot joint. Dismantle inlet steam gland seal from the top half.	0.50%
3	Remove / Cut all the inlet and exhaust steam lines from top half which will obstruct the removal of IP Casing top half. Loosening of steam inlet pipe lines. Loosening of extraction pipe lines by gas heating. (Preheating, post heating & stress relieving are Vendor's scope)	1.00%
4	Uncover IP bearing, record reference dimensions; perform Roll Test of the IP Module.	0.75%
5	Perform radial and axial clearance checks, roll check, bump check, horn drop test etc.	0.75%
6	Loosen heat tightened bolts by induction heating machine and lift top half case (outer). Perform radial run out check. Before above activities, locking of IP bottom casing.	0.50%

7	Remove heat tightened bolt of inner casing by induction heating device and lift inner top half casing. Perform run out check.	0.50%
8	Measure radial and axial blade and shaft seal clearances. Minor dressing of damaged sealing rings / strips of rotor & shaft, to the extent possible at site. Replacement of fins and caulking wire as required at glands of IP rotor, machining is within the scope. Aluminum (Grit size 90) cleaning of moving / stationary blades etc., as per requirement.	0.75%
9	Check run out of IP rotor and lift rotor out and place it on the rotor stand to check blade looseness & dull sound. Check axial and radial shifting of blades shroud and necessary correction as required.	0.50%
10	Remove IP turbine inner casing axial and radial keys, eccentric pins/bushes etc. and remove bottom half inner casing. Removal of all IP parting plane studs. Measurement of its length.	0.50%
11	Inspect IPT internals and do maintenance works like cleaning, repair, replacement of components etc. as required. Carry out UT/DPT wherever required. Dressing of damaged fins. Replacement of casing stress thermocouple.	0.50%
12	Removal and assembly of rotor fins at front, rear glands portion, BP gland portion of existing rotor. Machining of fins height as per design value. Arrangement of machining fixture is included in the scope of work.	0.50%
13	Inspection of IP rotor. Alumina Blasting of IP Rotor & casing. Arrangement of seal proof enclosure for blasting.	0.50%
14	Place lower inner casing in position and insert TSE sensors. Check inner casing ovality.	0.50%
15	Place IP rotor and align with HP rotor end. Check radial and axial clearances of shaft seals and blades.	0.50%
16	Assemble IP inner casing top half. Perform radial and axial clearance check. Top radial clearance checking to be carried out by lead wire.	0.50%
17	Final box up of IP inner casing. Man power assistance during parting plane tightening of IP inner casing.	0.50%
18	Final roll check and bump check of IP inner casing.	0.50%
19	Assemble IP outer casing top half. Perform radial and axial clearance check. Final heat tightening of outer casing parting plane cap nut by induction heating equipment.	0.75%
19	Inspect the upper and lower inlet inserts and its angle rings. Replacement as required including locking. DPT of angle rings. Measurements of U seal ring compression & assembly.	0.50%
21	Inspect the balancing weights of the rotor for any erosion and replace if necessary.	0.25%
SECTION - III		
LPT MODULE OVERHAULING		(13.00%)
1	Loosening of L P casing parting plane joints bolts and removal of LP outer shell.	0.25%
2	Covering of condenser tubes from inside the condenser and prepare platform of LP casing joints plane. Arrangement of pipe & clamp cover is included in vendor's scope of work. Condenser spring locking and unlocking is in vendor scope.	0.50%
3	Loosening of joints plane bolts to remove LP inner-outer casing and LP inner- inner casing. Assistance during removal of parting plane studs by Induction heating equipment.	0.50%
4	Record all necessary readings during dismantling of casing.	0.25%
5	Dismantling of both end cone.	0.25%
6	Inspection of LP turbine internals and record radial and axial clearances of fixed and moving blades and rotor gland seals.	0.50%
7	Removing of LP Rotor and placing it on Rotor support. Thorough cleaning of bottom and top casing halves by aluminum blasting.	0.50%
8	Replacement / repair of damaged sealing rings of rotor and cylinder.	0.50%
9	Facial run-out measurement at both end of LP rotor. Correction of face on either side of rotor. Inspection of balancing weight for looseness and replacement if found damaged.	0.50%
10	D P test of LP rotor blades, expansion bellows and casing in the suspected area /zone. Aluminum blasting, cleaning of LP Rotor moving /LP stationary blades, as required.	0.50%

11	Visual inspection and DPT including supply of DPT of steam inlet bellows, all LP extractions bellows, LP front and rear gland bellows. Repair/replacement of bellows as per requirement including arrangement of filler, welding rods and high pressure welders. Necessary Compensator protection pipes shall be removed by party for Compensator Inspection.	1.25%
12	Ovality checking of LP inner-inner and inner outer casing , correction by grinding as per requirement	0.75%
13	Placement of LP rotor inside bottom casing.	0.25%
14	Boxing-up of LP inner- inner and inner- outer casing.	0.50%
15	Roll check of LP rotor. Correction of internal radial and axial clearances.	0.50%
16	Boxing- up of LP outer shell.	0.25%
17	Setting of gland boxes as per recommended clearances. Removal and replacement of gland fins as required is within the scope.	0.50%
18	Inspection of safety diaphragms and replacement if required. Carry out necessary visual inspection of condenser dome wall stiffening structure & spray trays etc. Inside condenser and carry out minor repairs as per requirement. Carry out necessary cleaning of LP exhaust hood spray nozzles. Carry out DPT of LP exhaust spray line Weld joints & rectification of same by welding.	0.50%
19	Dye penetration test of the expansion bellows of the gland box are to be done and replace if necessary.	0.25%
20	Inspection and replacement of inter-stage fins as possible of LP Rotor, as per requirement.	0.50%
21	Removal of LP last two stage blades (3L& 3R, 2L&2R, as per tech cir.No X-68), cleaning of blades at root, matching as required to get improved NFT values, assembly of blade with technological pieces, removal of blades, final assembly of blades with clamping pieces and locking the blades etc., replacement of defective blades, if required.	0.75%
22	MPI of all dismantled blades and rotor grooves by coiling process. Arrangement of MPI kits including operator is included in the vendor's scope. Transportation of blades from store to work area is in vendor's scope.	2.00%
23	Successful bidder has to arrange surface plate(s) suitable for 500 MW HP, IP, LP coupling face correction. Surface finish of surface plate should be 04 micron or less and it has circular hole inside to accommodate spigot. All turbine rotor face measurement and correction as required including generator and exciter	0.75%
SECTION - IV		
TURBINE BEARING INSPECTION & OVERHAULING		(15.00%)
1	Dismantling and reassembly of turbine-generator enclosure as per requirement.	0.25%
2	Opening of bearing pedestal covers and removal of bearings (Bearingno.1 to Bearing no.4) for inspection Recording of rotor and casing control dimensions. Replacement of bearing oil guard fins and machining of the same outside power plant within the quoted price. Noting bearing 4 pedestal parting plane leakage and attending during assembly.	0.50%
3	Coupled run out and float of rotor system to be checked and recorded Measurement of reference readings during dismantling and assembly.	0.25%
4	De-coupling and coupling of LP rotor, IP rotor, HP rotor (new/exiting), MOP measurement of coupled run out and swing value.	0.25%
5	D P test and UT of turbine bearings, thrust pads for cracks on metal bonding. Replacement of bearings with new bearings, thrust pads as required. Arrangement of UT machine with operator is in Vendors scope.	0.50%
6	Blue matching of torus piece with base plate if required to the extent possible at site. Replacement of bearings if found not acceptable.	0.50%
7	Alignment check of turbine rotors and corrections.	0.25%
8	Coupling of LP/IP, IP/HP, and HP/ MOP. Reaming and honing of coupling holes of HP/IP, IP/LP, LP/GEN and replacement /Machining of coupling bolts, as required.	0.75%
9	Adjustment of bearing clearances and thrust float, boxing-up of all bearings, resetting of bearing yoke keys, pads and oil guard rings after repair / replacement, if any. Replacement	0.50%

	of bearing pedestal oil guards.	
10	Inspection of the clearance between the rotor and the oil guard ring is to be done. If it has exceeded the limit then the fins /sealing strips are to be replaced and machined to get the designed value.	0.50%
11	Complete servicing and adjustment of thrust bearing trip device, over speed trip device, barring gear nozzle etc as per requirement.	0.25%
12	Centering check, rolling check, axial bump check, swing check and Horn drop test of HP, IP & LP cylinder, Fixing and Lubrication of all sliding keys and packers of the cylinders etc. maintaining proper clearances. Preparation for platform bellow HP and IP turbine, as required to carry out the job. Removal / dismantling and re insulation of damaged portion as required.	0.50%
13	Dismantling of MOP, Inspection of bearings, seal rings, shaft impeller etc. and replacement of damaged parts including bearings, impeller etc. Machining of bearings included in scope. DPT & UT of Bearings.	0.50%
14	Oil flushing of turbine bearings, resetting of throttles including periodic cleaning of line filters, basket strainer of MOT, lube oil duplex filters. Setting of JOP header pressure and checking of individual lift. Bearings normalization after oil flushing.	0.50%
15	Putting the machine on barring gear with proper adjustment of jacking oil and Lube oil pressure at bearings. Assistance during barring gear.	0.25%
16	Dismantling, cleaning, servicing and re-fixing of Bearing RTDs, thermocouples of casing, all the turbovisory instruments (TSI) viz. shaft and shell vibration probes, control valves position transmitter.	0.50%
17	Arrangement of four crane operators duly vetted by customer and BHEL site engineer in charge for round the clock basis during entire duration of work.	1.00%
18	Assistance during trim balancing of machine.	0.25%
19	Catenary checking of pedestal, correction of bearing pedestal as per requirement. Arrangement of pot along with pipe lines included in vendor's scope.	0.50%
20	TG deck locking, adjustment , necessary correction, unlocking etc.	0.25%
21	Foundation bolt stretching / tightness checking as required of all bearing pedestal including generator and exciter foundation bolt. Stretching device arrangement device to be arranged by vendor. Proper scaffolding to be carried out by vendor.	0.75%
22	Arrangement of GERB Service Engineer for necessary correction of TG Spring deck	1.00%
23	Assistance during slow speed balancing of HP & IP	0.50%
24	Painting of LP outer casing, pedestals, GEN & Exciter (supply of paints included in vendor's scope).	1.00%
25	To and fro transportation of slow speed balancing machine from Kolaghat TPS/ WBPDCCL to Koderma Site-DVC including arrangement of necessary trailer. Transportation of stub shaft also included from same place.	1.50%
26	ARRANGEMENT OF SURFACE PLATE-0.01 MM ACCURACY, 4NOS. OF 50 TONNES, 4 NOS. OF 25 TONNES & 4 NOS. OF 100 TONNES HYDRAULIC JACKS WITH PUMPING UNITS IN GOOD WORKING CONDITIONS.	1.00 %
27	Laying of size 80 Nb 3.05 mm thick MS pipe in dirty fluid system including bends fittings around 130 metres on suit-at site basis as per BHEL engineers instruction (free issue from BHEL local site office to be transported from BHEL store)	0.25%
28	Identification of steam leakage from IP inlet pipe thermowell or manhole flange and attending to same	0.25%
	SECTION-V	
	HANGER INSPECTION:	(2.00%)

1	<p>Carrying out hanger setting & adjustment of turbine area hangers of power cycle piping etc. as given below. Hanger cold & hot readings are to be recorded. Scaffolding has to be made by the vendor as per requirement.</p> <p>a. Checking of Freeness of hangers. b. Checking of fouling of hanger with the structure/wall c. Removal of welding of hanger support with surrounding structure for the purpose of temporary supports if any. d. Checking for any visual deviation of hanger elevation noticeable or looseness of hangers. e. Adjustment of necessary hangers & supports as per requirement. f. Any modification / rectification for the above job as required to be done by the vendor.</p>	
2	Vendor has to depute one expert along with accommodation duly vetted by BHEL Site Engineer In Charge for a period 8 (eight) days for inspection and rectification of piping hanger & support, failing which an amount of Rs 5000/- per man day will be deducted.	
SECTION-VI		
TURBINE VALVES		(5.00)%
	<p>➤ TURBINE VALVES</p> <p>a) HP stop and control valve with servomotors - 2 Sets b) IP stop and control valve with servomotors – 2 Sets</p> <p>WORK TO BE DONE AS UNDER: -</p> <p>i) Draining of oil from valve actuator housing. Removal of oil pipelines and steam leak off line ii) Decoupling of valve and actuator stem. Removal of actuator and valve cover with valve cone iii) Dismantling of actuators and valves. Cleaning of all components, repair/replacement of damaged parts of valves of operation. Modification of valve bush and cone clearances, if found necessary. Assembly of valve and actuator as per the designed clearances. iv) Blue matching of all valve seats with seating. Lapping to be done with fabrication of lapping devices as per requirement. v) Fixing of oil and steam lines. vi) Setting of valve characteristics vii) Dismantling and fixing of position transmitter. viii) Replacement of damaged components. ix) Valve stroke setting x) Removal and re-insulation of valves included in vendor's scope of work. xi) Assistance during calibration of Governing racks xii) Assistance during calibration of control valves and testing of stop valves. xiii) Assistance during replacement of one control fluid system bladder of accumulator if required</p>	
SECTION-VII		
Mechanical Support Required for C&I-TG		(2.00)%
	<p>1. Instrument Impulse line leakages and chocking arresting at various points to be attended by cutting and welding in Turbine area. Major identified jobs are - CEP suction strainer DP gauge ½ inch impulse pipe line de chocking and rerouting work. - MS & HRH strainer DP Transmitter impulse line de chocking and leakage arresting work. - TDBFP-A & B Trip Oil pressure line to be modified and at other locations as per requirement. Total No. will be about 20.</p> <p>2. Scaffolding to be provided at various locations in Turbine area. Major identified jobs are - FDV-14 control valve - CEP Recirculation Control Valves - BFP Recirculation Control Valves</p>	

	and at other locations as per requirement. Total No. will be about 8 3. CWP Level Switch Guide pipe welding and replacement-12 nos.	
SECTION-VIII		
HP BYPASS SYSTEM, STEAM AND SPRAY VALVES WITH ACTUATORS (HYDRAULIC SERVOMOTORS)		(2.00%)
1	Changing of line filters.	
2	Checking of nitrogen pressure and filling as necessary. Nitrogen is to be arranged by Customer free of cost.	
3	Oil pressure setting and adjustment as necessary.	
4	Servicing of servomotors of BP , BPE and BD valves etc.	
5	Dismantling of valves, lapping and blue matching etc. Assistance during seat cutting of valves.	
6	Final assembly of valve and actuators etc.	
7	Dismantling of HP bypass main valves with actuator (02 sets). Replacement of any damaged/worn out components.	
8	Dismantling/assembly of spray valve with actuators (03 nos.). Replacement of any damaged/worn out components .Assistance (manpower and consumable) during Seat cutting.	
9	Assistance (manpower and consumable) during Seat cutting of valves as required. Erection of scaffolding, as required.	
10	Dismantling/assembly/calibration of valve strokes, C&I system and limit switches. Coupling of valve with actuator. Edge preparation of spray water pipe line, Fitment of pipeline and welding as per requirement with IBR certified welder & stress relieving (Radiography of weld joint will be in the scope of vendor)	
11	Vendor has to depute one valve servicing expert including accommodation duly vetted by BHEL Site Engineer in charge for servicing of HPBP valve & hydraulic servomotor servicing and calibration for a period of 08 (Eight) days, failing which an amount of Rs5000/- per man day will be deducted.	
SECTION-IX		
SERVICING OF CRH NRV		(1.00%)
1	Making necessary scaffolding & approach platform for CRH NRV. Removal of existing insulation cladding sheet and insulation in the top cover area of NRV. Removal of oil pipe line from NRV servomotor, Decoupling of servomotor from valve spindle and Removal of servomotor from position. Opening the top cover of CRH NRV by making proper lifting arrangement and Removal of all internals like flap, spindle etc.	
2	Cleaning of all internals including pressure seal area and checking for any erosion mark in gasket seating areas. Carry out DPT as per requirement. Repair and Replacement of defective components. Build up and repair of eroded portion by grinding and matching/lapping.	
3	Box up of NRV with new pressure seal gasket/ components etc. Tightening of the cover to the required torque and hot tightening of the same after charging. Servicing of CRH-NRV servomotor Fixing the servomotor in position, coupling the servomotor with NRV spindle and Fixing of oil pipes of servomotor.	
4	Attending to leakages if any after charging. Removal of temporary platforms and scaffoldings after the completion of work.	
SECTION-XI		
MS & HRH STRAINER REMOVAL, INSPECTION, CORRECTION AND RE-INSTALLATION(MS & HRH Steam strainers - 2 nos. each)		(2.00%)
1	Removal of steam strainers from the strainer housing by gas heating/electric heating/induction heating after removing the insulation and cutting of the pipelines as required.	
2	Removal of foreign element from strainer and cleaning. DP checking of weld joint between blanking plate & strainer mesh and rectification and repair of weld joint if any. If required new strainer element to be welded to the blanking plate.	

3	Measurement of radial clearance between Strainer body ID & Protecting ring OD. Readings have to be taken at four places & to be recorded to get correct ovality readings.	
4	Preparation of DPT of strainer housing as per BHEL norms (Inside & Outside)	
5	Re-assembling of steam strainers into the strainer housing as per the standard procedure and re-welding of all pipelines as per the drawing. This includes cutting of the drain pipe, IBR welding, stress relieving, radiography, DPT, UT etc & providing required consumables & equipment also. Arrangement of welding rods is included in bidder's scope.	
B	GENERATOR (PW, HYDROGEN & EXCITER COOLERS AND SHAFT SEALS)	(31.00%)
B.1	General :	(1.75%)
1	Conducting Air tightness test of Generator stator. Checking for any leakages in the gas line system and attending same.	0.25%
2	Removal of Exciter dome after removing all electrical and C&I connections. Removal of Diode Wheel Cover.	0.25%
3	Taking CRO of LP-Gen.	0.25%
4	Note down alignment reading of LP-Gen. Decouple LP-Gen	0.25%
5	Locking of spring deck before rotor thread out and release after Generator OH works.	0.50%
6	Cutting, cleaning and re-welding of Bearing chamber exhaust fan suction header drain line. If required replacement of ½ inch line with 1 inch line (approx. 25 mtr)	0.25%
B.2	Stator :	(6.00%)
1	Dismantling of Stator end shields and replacement of gaskets.	0.50%
2	Check condition of Stator core and winding.	0.25%
3	Complete cleaning of entire stator. Internal inspection of generator stator casing and stator core is to be carried out by opening all the manholes. Replacement of all gaskets "O" rings, including all manholes, pressure covers, pipeline connections to end shields, stator frames etc. are to be carried out.	0.25%
4	Check slot wedge tightness and rectify defect (core repair, wedge replacement).	0.25%
5	Assistance during Wedge deflection test De wedging & Re wedging as per requirement.	0.25%
6	Assistance during Digital ELICID test on stator core and rectification of core packets, if any.	0.25%
7	Check winding support structure and all other stator bolts and rectify defects.	0.25%
8	Checking of slot wedging system and end winding support structure. Over hang winding locking and tightness is to be checked after removal of lock shoes. It is to be assembled again after applying putty materials.	0.25%
9	Check Teflon expansion joints and hose connections. Dismantling and inspection of Generator phase and neutral side bushings, primary water connections to generator, PW header, Teflon hoses for any kind of damage & tracking including disconnection of links with bus ducts.	0.25%
10	Replace all necessary Generator flange gaskets.	0.25%
11	Check expansion joint of stator water pipeline.	0.25%
12	Carrying out winding Hydraulic test as per protocol and attending to leakages if any in water and Nitrogen circuit system after Generator Rotor thread out and finally before rotor thread in.	0.25%
13	Dismantling and cleaning of H2 coolers, replacement of all gaskets and conducting Hydraulic Test of all coolers and attending leakages if any. Painting of Water box with anti-rust paint and Cooler body with grey paint, including supply of paint is within vendor scope. Check condition and matching of coolers water inlet & outlet pipes, vent pipes and drain pipes. Arranging union joints for generator 7 exciter coolers vents for easy dismantling and inspection purpose.	0.50%
14	Removal of Generator phase and Neutral Link and replacement of Bushing sealing	0.25%

	Gaskets, O rings and bushing Insulator.(if required)	
15	Checking of all electrical connections of stator like bushing connection, bar to bar connection and rectification of defects.	0.25%
16	Assisting in conducting electrical testing of stator winding like IR, PI, Partial Discharge Test, DC resistance and Tan Delta of stator winding. Test kit with operator shall be arranged by BHEL.	0.25%
17	Conducting final air tightness test of Generator and attending leakages. If any.	0.25%
18	Checking of Seal-off bushing of generator.	0.25%
19	Thorough cleaning of stator winding, dry out, varnishing of stator winding. Vender has to supply varnish at their own cost.	0.50%
20	Checking RTDs for healthiness, to be replaced if found defective	0.25%
21	Tite seal compound injection before and after air leak test	0.25%
B.3	ROTOR :	(7.00%)
1	Perform Run-out checks as per protocol.	0.25%
2	Decouple rotor, thread out rotor and check rotor visually.	0.50%
3	Take IR value of rotor and assistance during conducting electrical test on rotor winding like DC resistance, AC impedance of rotor, DC split voltage test, RSO. Test kit with operator shall be arranged by BHEL.	0.25%
4	Check rotor wedge and retaining rings.	0.25%
5	Inspect the winding and Gas duct.	0.25%
6	Dismantle & physical inspection of Compressor Assembly, florescent DP of compressor blade (required materials for the test to be arranged by vendor). Measurement of axial & Radial clearance. Adjustment/Repair/replacement if any as per requirement.	0.50%
7	Carry out DP test & UT of retaining ring after removal of paint. Fluorescent DP test of Compressor blades. Paint Removal to be supplied by the party. DP Kit is in the scope of the agency.	0.50%
8	Check the IR of the compressor segments and rectify if found less.	0.25%
9	Surface matching of coupling face.	0.25%
10	Check bearing surface and shaft Seal surface and rectify any defect.	0.25%
11	Check for MULTI CONTACT system, conduct leakage test. Any leakages from the CC bolt, sealing washers during air leakage are to be attended. Air leakage of Rotor to be done as per norm. Arrangement of Ex-BHEL Hardwar technician along with required T & Ps (including Torque Wrench upto 1700 NM) and consumables Compound-K & Hardener T 37) for attending CC bolt leakage are in vender's scope	1.50%
12	Clean all dismantled parts thoroughly before box up. Through cleaning of rotor winding, dry-out & varnishing of rotor winding with Epoxy varnish. Vendor has to supply epoxy varnish at their own cost.	0.75%
13	Rotor thread in and box-up.	0.75%
14	Boxing up of all dismantled parts as per procedure, seal body IR measurement and bringing the IR value to the recommended value.	0.25%
15	Alignment of LP-Gen. (shifting / lifting of stator to be done. Reaming Honing if and as Required.	0.50%
B.4	BEARINGS :	(3.50%)
01	Removal of pedestal cover and brg yoke and removal of Bearings 5,6 and 7 top and bottom Halves.	0.50%
02	DP Test and UT of Bearings.	0.25%
03	Matching of side and bottom pads of brgs with half ring support & IR measurement of oil catcher and oil guard	0.25%
04	Correction of seal bore as per requirement.	0.25%
05	Brg clearances, yoke key clearances measurement and setting.	0.25%

06	Replacement of jacking oil hoses as per requirement.	0.25%
07	Replacement of oil guard fins as per requirement & clearance setting	0.25%
08	Replacement of half ring support of brgs 5 & 6, if require.	0.25%
09	Box up Bearings and yoke keys.	0.25%
10	Catenary check of Pedestal 5, 6 and 7.	0.25%
11	DP and UT of coupling bolts of LP-Gen and Gen-Exciter couplings.	0.25%
12	Placement of pedestal cover of Brgs after inspection work.	0.25%
13	Replacement of Bearings (Brg Nos 5, 6 & 7) if any is in bidder's scope within the quoted price.	0.25%
B.5	EXCITER :	(6.50%)
1	Decoupling of Gen-Exciter.	0.25%
2	Removal of PMG stator after removing electrical connections.	0.25%
3	Removal of all pipe lines of Brg No.7, top cover of brg No 7 and top half of Bearing shell.	0.25%
4	Checking of IR value of pedestal and if found less attending the same.	0.25%
5	Removal of exciter coolers and Flap gates.	0.25%
6	Swing check of Exciter rotor for reference.	0.25%
7	Removal of top half of main exciter, exciter rotor and placing it on stand.	0.25%
8	Check MULTI CONTACT system and conduct leakage test. All leakages to be attended. Replacement of exciter current carrying bolt and washers, if Necessary. Exciter CC bolts (04 nos.) -- All sealing washers and gaskets are to be replaced. Arrangement of expert technician duly vetted by BHEL-Site incharge along with required T & Ps (including Torque Wrench up to 1700 NM) and consumables (Compound-K & Hardener T 37) for attending CC bolt leakage to be done by bidder within the quoted price.	0.75%
9	Cleaning of all dismantled parts and windings thoroughly.	0.25%
10	Inspect the bandage wire for any looseness or damage and rectifying the same found Necessary.	0.25%
11	Check and blue match the coupling flange.	0.25%
12	Check the multi-contact band and replace the same if found defective.	0.25%
13	Visually inspect the exciter rotor bearing seating portion and rectify any defect.	0.25%
14	Cleaning of Exciter coolers and carrying out Hydraulic testing of the same as per protocol and attending leakages if any.	0.50%
15	Check ground fault detection system and rectify any fault.	0.25%
16	Checking of Dehumidifier, shutdown heaters and lighting	0.25%
17	Complete assembly of exciter unit and sealing of air leakages.	0.25%
18	Assistance during IR, PI and winding resistance measurement of exciter rotor and exciter stator as well as PMG. Test kit with operator shall be arranged by BHEL	0.25%
19	Clean the filters of exciter dome & DP test of exciter rotor fan hub.	0.25%
20	Replacement of all gaskets and providing proper sealing of exciter dome.	0.25%
21	Checking of all foundation bolts of exciter bed and if found loose or damaged to be attended.	0.25%
22	Alignment of Gen-exciter, swing check and coupling. Torque wrench for Gen-Exciter Coupling to be provided by the party.	0.50%
B.6	DIODE WHEEL ASSEMBLY :	(0.75%)
1	Assistance during inspection of diode wheel (test kit with operator shall be arranged by BHEL) including checking of diodes and fuses. Replacement (if required) of positive and negative wheel to detect any crack, overheating marks, deformation or any other defect of wheels, diodes, fuses, heat sinks, links, Insulations.	0.25%
2	Inspection and replacement (if required) of all fasteners and lock washers for their	0.25%

	intactness & Visual inspection of stroboscope and its light source where installed.	
3	Measurement and replacement (if required) of fuse resistance (acceptance value given by OEM)	0.25%
B.7	SHAFT SEALS :	(1.50%)
1	Shaft seals insulation replacement, checking of seal ring clearance and replacement as per requirement after machining of new seal rings to the required dimensions.	0.50%
2	Check seal body, Teflon bushes.	0.25%
3	Conduct leak test at recommended pressure & attend defect.	0.25%
4	Blue matching of seal body parting plane oil catcher parting plane and seal oil Teflon bush surface. Inspection of all Teflon bushes and replacement of the same if found damaged. Checking of seal oil hoses of impulse lines and replacing the same if found damaged.	0.50%
B.8	PRIMARY WATER SYSTEM :	(1.00%)
1	Check and clean all filters.	0.25%
2	Hydraulic test of Primary water system, rectification of leakage of nitrogen gas system.	0.25%
3	DP testing of the weld joints of all the primary water pipe lines and nitrogen pipe lines including supply of standard DP materials, tools & tackle.	0.25%
4	Replacement of O-rings in the Primary water system	0.25%
B.9	Generator Bushing:	(1.00%)
1	Inspection of terminal bushing, replacement of old O-rings and gaskets if required	0.25%
2	Leak test of bushings	0.25%
3	Complete cleaning of bushing and its compartment	0.25%
4	Replacement of bushing with new one if required & tightness checking of bushing connection	0.25%
Note	Bidder has to arrange one expert who is conversant with 500MW Generator for 20 days within the quoted price, failing which an amount of Rs 5000/- per man-day will be deducted.	
C	ASSISTANCE DURING COMMISSIONING/SYNCHRONIZATION	(2.00%)
	ASSISTANCE DURING COMMISSIONING/SYNCHRONIZATION OF THE UNIT AND OBSERVATION FOR 72 HRS AFTER SYNCHRONIZATION OF MACHINE	

INPUTS REQUIRED FROM SUCCESSFUL BIDDER

01. SURFACE PLATE-0.01 MM ACCURACY, 4NOS. OF 50 TONNES, 4 NOS. OF 25 TONNES & 4 NOS. OF 100 TONNES HYDRAULIC JACKS WITH PUMPING UNITS IN GOOD WORKING CONDITIONS.
02. T & P AND IMTEs FOR PERFORMING THE SUBJECT JOB
03. Arrangement of scaffolding pipes. Wooden planks about 100 nos. are to be arranged by vendor for the purpose of platforms.
04. Electricity for welding and lighting, compressed air & water shall be arranged at suitable single point outlet and the agency shall arrange their own network for the total job.

General scope of work and terms:

01. Transportation of spares from Customer store to site and return to store if not used.
02. Transportation of special T& Ps, lifting tackles etc from Customer store to site and return to store after job completion.
03. Issuing and returning of materials from Customer store and returning back & material reconciliation.
04. General illumination is available but for carrying out overhauling job any illumination is required is to be arranged.
05. After completion of work, the area shall be cleared up to the satisfaction of BHEL Site Engineer in charge/ Customer. Disposal of scrap/ waste/ insulation generated while overhauling work to be disposed off at predetermined place as indicated by Customer by the bidder including transportation of the waste.
06. The contractor shall have to bear for the loss of any damage to the items belonging to Customer due to Improper handling / storing or improper fitting etc. and necessary recoveries will be made from the Contractor.
07. The contractor shall erect approach platform as per requirement and dismantle the same. Scaffolding material shall be brought by the contractor.

08. The contractor shall be fully responsible for maintenance of records of his employees.
09. Contractor shall engage his personnel round the clock and shall submit detailed work plan, bar chart, manpower deployment plan (in nos and skill level only) round the clock and work progress and these shall be discussed and agreed prior to commencement of the work.
10. Housekeeping: Maintaining proper cleanliness around the work area is the contractor's responsibility. The contractor has to depute separately identified persons exclusively for area cleaning.
11. Safety Requirements: All persons working shall strictly follow the Customer safety norms. Contractor shall be solely responsible for ensuring the safety of his all worker / employees.
12. Contractor shall provide and ensure the proper use of all safety gadgets (PPE) to / by his all employees / workers engaged for this work. Contractor shall provide following safety gadgets conforming to the IS norms: safety helmets, safety goggles, safety shoes, hand gloves, & safety belts. Failing to the issue or use of the safety gadgets based on the requirement or violation of safety norms will attract penalty as per customer / BHEL safety rule. Contractor shall arrange necessary safety gadgets/PPE for BHEL persons also.
13. The contractor shall ensure that safety related awareness training has been given to his all workers / employees at the time of start of contract and it is mandatory to obtain identity card for the same from Customer safety department.
14. Contractor to take care of safety exclusively of his workers / employees engaged for the subject work. Contractor shall also ensure that there shall not be any safety hazard to the persons / machines in the vicinity due to his activities.
15. All lifting tools and tackles to be used shall be having the valid test certificate (with proper identification mark on the tools) from government approved agency and the same shall be produced to Engineer before start of work.
16. Other Requirements: Contractor shall ensure that environmental related awareness training has been given to his workers / employees at the time of start of contract.
17. Agency has to arrange their own incoming / outgoing Road permit for the T&Ps, materials, consumables etc required for the work.
18. Deployment of one Safety Officer (round the clock) having qualification of Diploma in Safety for entire duration of the job.

For all the above cases arrangement of Mobile Crane, Trolley-Tractor, Hydra Crane & other Material handling equipment (if required) will be in vendor's scope

TAXES & DUTIES –GST REGIME

1.0	TAXES & DUTIES, ETC.
1.1	All taxes excluding GST with applicable cess & BOCW Cess (mentioned elsewhere in the Tender) but including, Charges, Royalties, , any State or Central Levy and other Taxes for materials if any obtained for the work and for the execution of the contract shall be borne by the bidder and shall not be payable extra by BHEL.
1.2	Any increase in the above at any stage during execution including extension of the contract, if any, shall have to be borne by the contractor. Quoted/ accepted rates/ price shall be inclusive of all such requirements.
1.3	GST with applicable Cess, legally leviable & payable by the successful bidder as per GST Law, shall be paid extra by BHEL. Hence, Bidder shall not include GST with applicable Cess in their quoted price.
1.4	The successful bidder shall furnish proof of GST registration with GSTN Portal covering the services under this contract. Registration should also bear endorsement for the premises from where the billing shall be done by the successful bidder on BHEL for this project/ work.
1.5	Since GST on output will be paid by BHEL separately as enumerated above, bidder's quoted rates/ price should be after considering the Input Credit under GST law at their end.
1.6	TDS under Income Tax shall be deducted at prevailing rates on gross invoice value from the running bills unless exemption certificate from the appropriate authority/ authorities is furnished.
1.7	TDS under GST (if/ as & when applicable later) shall be deducted at applicable rates on gross invoice value from the running bills. However as on date no TDS under GST is applicable.

1.8	<p>Bidder shall note that the GST Tax Invoice complying with GST Invoice Rules (Section 31 of GST Act & Rules referred there under) wherein the 'Bill To' details shall be as per following.</p> <p>BHEL GSTN – 20AAACB4146P5ZP</p> <p>NAME: Bharat Heavy Electricals Limited</p> <p>ADDRESS: BHEL SITE OFFICE, 2 X 500 MW Koderma Power Project, Bnajhedih, P.O. Jhumri Telaiya, Dist. Koderma-825409 (Jharkand)</p>
1.9	<p>Bidder to intimate immediately on the day of removal of Goods(in case of any supply of goods) to BHEL along with all relevant details and a scanned copy of Tax Invoice through following communication mode for enabling BHEL to meet its GST related compliances</p> <p>Portal Address – Shall be intimated later.</p> <p>And</p> <p>Email Address – Shall be intimated later.</p> <p>In case of delay in submission of the abovementioned documents on the date of dispatch, BHEL may incur penalty /interest for not adhering to Invoicing Rules under GST Law. The same will be liable to be recovered from the successful bidder, if such delay is attributable to the bidder.</p>
1.10	<p>In case of raising any Supplementary Tax Invoice (Debit / Credit Note) Bidder shall issue the same containing all the details as referred to in Section 34 read with Section 31 of GST Act & Rules referred there under.</p>
1.11	<p>Bidder shall Comply with the Time limit prescribed under the GST Law and rules thereof for raising of the tax invoice. If any supply of goods is applicable, Bidder shall also ensure prompt delivery of Goods after dispatch.</p>
1.12	<p>Bidder shall note that in case GST credit is delayed/ denied to BHEL due to delayed / non receipt of goods and /or tax invoice or expiry of the timeline prescribed in GST Law for availing such ITC, or any other reasons attributable to the bidder, GST amount shall be recoverable from the bidder along with interest levied / leviable on BHEL, as the case may be.</p>
1.13	<p>Bidder shall upload the Invoices raised on BHEL in GSTR-1 within the prescribed time as given in the GST Act. Bidder shall note that in case of delay in declaring such invoice in your return and GST credit availed by BHEL is denied or reversed subsequently as per GST Law , GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from the bidder along with interest levied / leviable on BHEL.</p>
1.14	<p>Way Bill: Successful Bidder shall arrange way bill / e-waybill for any transfer of goods for the execution of the contract.</p> <p>The Bidder has to make their own arrangement at their cost for completing the formalities, if required, with Issuing Authorities, for bringing materials, plants & machinery at site for execution of the works under this contract, Road Permit/ Way Bill, if required, shall be arranged by the contractor and BHEL will not supply any Road Permit/ Way Bill for this purpose.</p>
1.15	<p>Any new taxes & duties, if imposed subsequent to the due date of offer submission as per NIT & TCN, by statutory authority during contract period (including extensions for which delay is not attributable to the bidder), shall be reimbursed by BHEL on production of relevant supporting document to the satisfaction of BHEL. However, bidder shall obtain prior approval from BHEL before depositing any such new taxes and duties.</p> <p>Benefits and/or abolition of all existing taxes must be passed on to BHEL against new taxes, if any, introduced at a later date.</p>

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PRICE SCHEDULE (UNPRICED)

PLEASE REFER

E-PROCUREMENT PORTAL <https://bhel.abcprocure.com>

PRICE SCHEDULE

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ANNEXURE-A

1.0	<u>Suspension of Business dealings with Suppliers/ Contractors</u>
1.1	BHEL reserves the right to take action against Suppliers/ Contractors who fail to perform or indulge in malpractices, by suspending business dealings with them.
1.2	<p>Suspension of business dealings with Suppliers/ Contractors could be in the form of following: --</p> <p>a) Hold within the unit for specific item(s)/ material category(ies)/ type of work(s) for one year.</p> <p>b) Hold within the unit for all item(s)/ material category(ies)/ type of work(s) for two years</p> <p>c) Banning across BHEL for all items/ material category(ies)/ type of work(s) for three years.</p> <p>The Supplier may be either put on hold or banned, as detailed hereinafter on the basis of one or more of the category wise reasons as enumerated hereunder.</p>
1.3	<p>Hold within the unit for a specific item(s)/ material category(ies)/ type of work(s) shall be imposed in the following cases, if</p> <p>i) In the last three consecutive supplies of a specific material category, average quality rating, as provided in the supplier performance rating (SPR) as per SEARP, falls below 80% of the quality weightage. This is irrespective of supplies against PO(s) having single/ multiple delivery schedules.</p> <p>Note: Not applicable in cases for erection works of Power Sector Regions, where separate guidelines for evaluation of capacity of bidders is being followed.</p> <p>ii) Two consecutive delays, for reasons of delay attributed to the Supplier, in execution of the contracts where delay occurred is such that</p> <p>a) prescribed maximum LD time limits of the contracts is exceeded or</p> <p>b) delay period has equaled/ exceeded half the original delivery period specified in the contracts whichever among the above is earlier.</p> <p>iii)</p> <p>a) Overall SPR (Supplier Performance Rating) in that particular Unit in line with SEARP falls below 60% of the specific material category.</p> <p>b) Bids of contractors (in PS-MSX portal) shall not be considered (if average score of last six months falls 60% or below as per guidelines for evaluation of capacity of bidders formula).</p> <p>Note: – for (b), No specific period of hold shall be applicable.</p> <p>iv) Supplier works are under strike/ lockout for a period of more than three months.</p>

1.3	<p>Hold within the unit for all item(s)/material category(ies)/ type of work(s) shall be put in the following cases, if</p> <ul style="list-style-type: none"> i) Supplier tampers with tendering procedure affecting ordering process. ii) Supplier has misused BHEL documents/ drawings/ technical information or has breached the confidentiality agreement with BHEL. iii) after placement of order, Supplier fails to execute the contract. iv) within warranty period as per contract, Supplier continues to supply low/ less/ non-performing equipment/ services, repetitive failures, remains non-responsive. v) Wherever risk purchase clause (amounting to more than 5% of contract value) has been invoked.
1.4	<p>Banning across BHEL shall be imposed in following cases, if</p>
1.4.1	<ul style="list-style-type: none"> i) After price bid opening but before placement of order, Supplier withdraws his offer or varies it in any manner within the validity period. ii) Supplier is found to be responsible for submitting fake/ false/ forged documents, certificates, or information or misrepresentation/ wilful suppression of facts, or has resorted to unethical, illegal means. iii) In spite of warnings, the Supplier persistently violates or circumvents the provisions of labour laws/ regulations/ rules or other statutory requirements. iv) Supplier is found to be involved in cartel formation or in any other act so as to influence the bidding process or influence the price. v) The Supplier has indulged in malpractices or misconduct such as bribery, corruption and fraud, pilferage, coercion etc. vi) The Supplier is found guilty by any court of law for criminal activity/ offences involving moral turpitude in relation to business dealings. vii) Supplier is found to have obtained any internal information/ documentation of BHEL by unauthorized means. viii) The foreign Principals along with the representing Agent shall be banned together if information submitted by them about their precise relationship, commission/ remuneration etc. payable/ receivable and other particulars as asked by BHEL, as per the extant guidelines regarding dealing with Agents of Foreign Suppliers is found false/ incorrect, at any stage. ix) Supplier has substituted, damaged, failed to return, or unauthorizedly disposed off free issue materials/ tools etc. of BHEL.
1.4.2	<p>A Supplier can also be banned with the approval of Director (E, R&D) provided a direction to this effect has been received from the administrative ministry of the Government.</p>

Note: Above shall be applicable along with [Guidelines for “Suspension of Business dealings with Suppliers/ Contractors”](http://www.bhel.com) available in BHEL website <http://www.bhel.com>. These shall form part of tender documents.

ANNEXURE-B

Certificate by Chartered Accountant on letter head

This is to Certify that M/S
.....,
(hereinafter referred to as 'company') having its registered office at
..... is registered under MSMED Act 2006, (Entrepreneur
Memorandum No (Part-II)
dtd:..... ,
Category: (Micro /Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as per the latest audited financial year as per MSMED Act 2006 is as follows:

1. For Manufacturing Enterprises: Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006 :

Rs..... Lacs

2. For Service Enterprises: Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:

Rs..... Lacs

(Strike off whichever is not applicable)

The above investment of Rs Lacs is within permissible limit of Rs..... Lacs for..... Micro / Small (Strike off which is not applicable) Category under MSMED Act 2006.

Or

The company has been graduated from its original category (Micro/ Small) (Strike off which is not applicable) and the date of graduation of such enterprise from its original category is (dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide 5.0. No. 3322(E) dated 01.11.2013 published in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date:

(Signature)

Name-

Membership number -

Seal of Chartered Accountant

DECLARATION FOR RELATION IN BHEL

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder failing which the offer of Bidder is liable to be summarily rejected)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: **Declaration for relation in BHEL**

Ref: 1) NIT/Tender Specification No:

I/We hereby submit the following information pertaining to relation/relatives of Proprieter/Partner(s)/Director(s) employed in BHEL.

Tick (√) any one as applicable:

1. The Proprietor, Partner(s), Director(s) of our Company/Firm DO NOT have any relation or relatives employed in BHEL

OR

2. The Proprietor, Partner(s), or Director(s) of our Company/Firm HAVE relation/relatives employed in BHEL and their particulars are as below:

(i)

(ii)

Signature of the Authorized Signatory

Note:

1. Attach separate sheet, if necessary.
2. If BHEL Management comes to know at a later date that the information furnished by the Bidder is false, BHEL reserves the right to take suitable against the Bidder/Contractor.

FORMAT FOR SEEKING CLARIFICATION

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: **Request for Clarification**

Ref: 1) NIT/Tender Specification No:
2) All other pertinent issues till date

Sl no	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
1				
2				
3				

Yours faithfully,

(Signature, date & seal of Authorized Representative of the Bidder)

FORMAT FOR DETAILS OF BIDDER

NAME OF BIDDER	
FAX NO.	
Registration Number*	
Name of Partners / Directors	
Bidder Type Indian/ Foreign*	
City*	
State*	
Country*	
Postal Code*	
PAN/TAN Number*	
Company's Establishment Year	
Company's Nature of Business*	
Company's Legal Status* {limited company/undertaking/joint venture/partnership/other}	
Company Category* {micro unit as per MSME/small unit as per MSME/medium unit as per MSME/Ancillary unit/project affected person of this company/ssi/ other}	
Enter Company's Contact Person Details Title(Mr. / Mrs. / Ms. / Dr. / Shri)*	
Contact Name*	
Date Of Birth*	
Correspondence Email* (Correspondence Email ID can be same as your Login ID. All the mail correspondence will be sent only to the Correspondence Email ID.)	
Designation	
Phone*	
Mobile*	