



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 BIDDERS (MEETING PRE-QUALIFICATION CRITERIA AS MENTIONED) **THROUGH E-PROCUREMENT PORTAL <https://bheleps.buyjunction.in> ONLY** for THE SUBJECT JOB BY THE UNDERSIGNED ON BEHALF OF BHARAT HEAVY ELECTRICALS LIMITED AS PER THE TENDER DOCUMENT. ISSUE OF TENDER TO ANY BIDDER SHALL NOT CONSTRUCT 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: BOK-S256:16 (ENQ:16:PP:0015:PUR:171) Date 18/03/2017.
ii	Broad Scope of job	“SHORT TERM MAINTENANCE CONTRACT OF BOILER, MILLING SYSTEM AND TURBINE WITH THEIR AUXILIARIES AT UNIT-1, 500 MW, BOKARO TPS, DVC, JHARKHAND”.
iii	ISSUE OF TENDER DOCUMENTS	a) <i>Online through e-procurement platform at https://bheleps.buyjunction.in</i> b) <i>in BHEL website (www.bhel.com, www.jantermanter.com & CPP Portal) : For tender view purpose only</i>
iv	DUE DATE & TIME OF OFFER SUBMISSION	<i>Date: 28-03-2017, Time: 15-00 Hrs.</i> <i>(Offer to be submitted online only through e-procurement platform at https://bheleps.buyjunction.in)</i>
v	TECHNO-COMMERCIAL BID OPENING OF TENDER	<i>Date: 28-03-2017, Time: 16-00 Hrs.</i> <i>(online only through e-procurement platform at https://bheleps.buyjunction.in , participating bidders may witness the same online only)</i>
vi	EMD AMOUNT	Rs. 1,18,947.00 (Rupees One Lakh Eighteen Thousand Nine Hundred Forty Seven only) <i>[To be submitted in the form and manner as mentioned below]</i>
vii	COST OF TENDER	--
viii	LAST DATE FOR SEEKING CLARIFICATION	<i>Date: 23-03-2017 (UP TO 11:00 Hrs.)</i>
ix	SCHEDULE OF Pre Bid Discussion (PBD)	If any, shall be intimated through Tender Change Notice (TCN)
x	INTEGRITY PACT & DETAILS OF INDEPENDENT EXTERNAL MONITOR (IEM)	--

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://bheleps.buyjunction.in) and not in the newspapers . Bidders to keep themselves updated with all such information.	Shall be intimated to bidder
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1. 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. In case of E-PROCUREMENT ASSISTANCE & TRAINING, BIDDERS MAY CONTACT M/s Mjunction Services Limited (herein after called as MJUNCTION) HELPDESK PHONE NO. 033-66011717 (BETWEEN 9:30 AM TILL 5:30 PM) & 9163348280/83/84/85/86, 8584008116, 8584008205, 8336925964 (FROM 5:30 PM TO 8:30 PM) or for any difficulty in downloading the tender from internet website, they should contact this office (Asst. 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.**
2. Successful bidder shall have to submit additional set of tender/sign on tender document provided by BHEL, if so decided by BHEL.
3. **Earnest Money Deposit (EMD) of Rs. 1,18,947.00** 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 MJUNCTION 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/ASST. 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 Mjunction 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.

4. This is an E-tender floated online through our E-Procurement Site <https://bheleps.buyjunction.in>. The bidder should respond by submitting their offer online only in our e-Procurement platform at <https://bheleps.buyjunction.in>. 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.
- 5.0 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.

- 6.0 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)
- 7.0 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.
- 8.0 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.
- 9.0 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.
- 10.0 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.
- 11.0 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.
- 12.0 Unless specifically mentioned otherwise, bidder's quoted price shall deemed to be in compliance with tender including PBD.
- 13.0 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.
- 14.0 **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.**

- 15.0 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.
- 16.0 **Validity of the offer shall be for Six months from the due date of offer submission (including extension, if any) unless specified otherwise.**
- 17.0 **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 Service Tax, Swachh Bharat Cess, Krishi Kalyan Cess & BOCW Cess).**
- 18.0 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.
- 19.0 Overwriting or erasures should be avoided. If however, they exist they must be invariably attested.
- 20.0 **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.**
- 21.0 *"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.*
- 22.0 *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).*
- 23.0 *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.*
- 24.0 *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).*

- 25.0 *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 ASST. ENGINEER /PURCHASE, BHEL, KOLKATA.*
- 26.0 *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.*
- 27.0 *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.*
- 28.0 **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.**
- 29.0 **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.**
- 30.0 **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.**
- 31.0 **The bidder may have to produce original document for verification if so decided by BHEL.**
- 32.0 **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](#).**
- 33.0 **"MSE suppliers can avail the intended benefits only 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 -C](#) 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 – (Annexure-VII)
- iv) Scope of work & other details - Annexure-I, Annexure-BOCW, Annexure-IA, Annexure-II, Annexure-III, 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://bheleps.buyjunction.in> 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	biplab.pal@bhelpser.co.in , ssen@bhelpser.co.in
M/s Mjunction Services Limited	For E-PROCUREMENT ASSISTANCE & TRAINING, MJUNCTION HELPDESK PHONE NO. 033-66011717 (BETWEEN 9:30 AM TILL 5:30 PM) & 9163348280/83/84/85/86, 8584008116, 8584008205, 8336925964 (FROM 5:30 PM TO 8:30 PM)	

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

Sub: NO DEVIATION CERTIFICATE FOR TENDER FOR “SHORT TERM MAINTENANCE CONTRACT OF BOILER, MILLING SYSTEM AND TURBINE WITH THEIR AUXILIARIES AT UNIT-1, 500 MW, BOKARO TPS, DVC, JHARKHAND”.

E-Tender No.: PSER: PUR: BOK-S256:16 (ENQ:16:PP:0015:PUR:171) Date 18/03/2017.

Dear Sirs,

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: “SHORT TERM MAINTENANCE CONTRACT OF BOILER, MILLING SYSTEM AND TURBINE WITH THEIR AUXILIARIES AT UNIT-1, 500 MW, BOKARO TPS, DVC, JHARKHAND”.

E-Tender No.: PSER: PUR: BOK-S256:16 (ENQ:16:PP:0015:PUR:171) Date 18/03/2017.

SL NO	CRITERIA
A	PRE-QUALIFICATION CRITERIA
1.0 (a)	BIDDER SHOULD HAVE AVERAGE ANNUAL TURNOVER OF MINIMUM Rs 17.84 LAKHS DURING LAST 3 (THREE) FINANCIAL YEARS, ENDING ON 31-03-2016 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 31-03-2016. AUDITED BALANCE SHEET AND PROFIT & LOSS ACCOUNT OF THE COMPANY FOR LAST 3 (THREE) FINANCIAL YEARS, ENDING ON 31-03-2016 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	<p>BIDDER SHOULD HAVE SATISFACTORILY EXECUTED FOLLOWING JOBS OF AN UNIT OF RATING 210 MW OR ABOVE IN ANY UTILITY/ INDUSTRIAL PROJECT IN LAST 7 (SEVEN) YEARS, ENDING ON LATEST DUE DATE OF SUBMISSION OF OFFER.</p> <p>A) AMC OF BOILER & AUXILIARIES 'OR' OVERHAULING JOB OF BOILER & AUXILIARIES 'AND'</p> <p>B) AMC OF STEAM TURBINE & AUXILIARIES 'OR' OVERHAULING JOB OF STEAM TURBINE & AUXILIARIES</p> <p>RELEVANT SUPPORTING DOCUMENTS FROM PURCHASER / END USER TOWARDS SATISFACTORY EXECUTION OF THE JOB BY THE BIDDER SHALL BE SUBMITTED</p>
NOTE FOR SL NO 2.0 ABOVE	
<p>THE WORD EXECUTED MEANS:</p> <p>a) FOR AMC OF BOILER & AUXILIARIES , STEAM TURBINE & AUXILIARIES: THE WORK SHALL HAVE BEEN COMPLETED FOR MINIMUM ONE YEAR</p> <p>b) FOR OVERHAULING JOB OF BOILER & AUXILIARIES: THE WORK SHALL HAVE BEEN COMPLETED UPTO LIGHT UP OF BOILER EVEN IF THE CONTRACT HAS NOT BEEN COMPLETED OR CLOSED.</p> <p>c) FOR OVERHAULING JOB OF STEAM TURBINE & AUXILIARIES: THE WORK SHALL HAVE BEEN COMPLETED UPTO SYNCHRONISATION EVEN IF THE CONTRACT HAS NOT BEEN COMPLETED OR CLOSED.</p>	
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	<p>1) 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.</p> <p>2) ONE MW IS EQUIVALENT TO 3.5 TPH WHERE EVER RATING OF BOILER IS MENTIONED IN MW, FOR THE PURPOSE OF EVALUATION OF PQR.</p>

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	18-03-2017
ii)	TENDER DOWNLOAD CLOSING ON	28-03-2017 AT 15:00 HRS. IST
iii)	LAST DATE OF SEEKING CLARIFICATIONS	23-03-2017 UP TO 11:00 HRS. IST
iv)	PRE-BID DISCUSSION (IF REQUIRED) ON	N.A.
v)	LAST DATE OF SUBMISSION OF OFFER	28-03-2017 UP TO 15:00 HRS. IST
vi)	DATE OF TECHNO-COMMERCIAL BID OPENING	28-03-2017 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/QUIRIES FROM THE TENDERERS AFTER 23-03-2017 (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 & ANNEXURE-A: 20 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-IA: 02 PAGES)**
- iv) **INDICATIVE LIST OF T & P (ANNEXURE-II: 02 PAGES)**
- v) **FACILITIES TO BE PROVIDED TO VENDOR/CONTRACTOR BY CUSTOMER/BHEL AT SITE (ANNEXURE-III: 01 PAGE)**
- vi) **ANNEXURE FOR HSE & OHSAS: 16 PAGES**
- vii) **GENERAL & SPECIAL CONDITIONS OF CONTRACT FOR SERVICES JOB (23 PAGES)**
- viii) **SPECIFIC TERMS AND CONDITIONS FOR SERVICES JOB (14 PAGES)**
- ix) **NO DEVIATION CERTIFICATE AS PER PRESCRIBED FORMAT (ANNEXURE-IV)**
- x) **PRE-QUALIFICATION CRITERIA (ANNEXURE-V)**
- xi) **DECLARATION OF THE BIDDERS (ANNEXURE-VI)**
- xii) **PRICE SCHEDULE (ANNEXURE-VII)**
- xiii) *GENERAL TERMS & CONDITIONS OF REVERSE AUCTION (PART – D)*
- xiv) *FORMAT FOR BANK GUARANTEE FOR PERFORMANCE SECURITY*
- xv) *FORMAT FOR PROFORMA OF BANK GUARANTEE (in lieu of SECURITY DEPOSIT)*
- xvi) *RTGS FORMAT (REAL TIME GROSS SETTLEMENT)*
- xvii) *SUSPENSION OF BUSINESS DEALING WITH SUPPLIERS/CONTRACTORS - ANNEXURE-A*
- xviii) *FORMAT FOR CERTIFICATE BY CHARTERED ACCOUNTANT ON LETTER HEAD - ANNEXURE-B*
- xix) *FORMAT FOR DECLARATION FOR RELATION IN BHEL*
- xx) *FORMAT FOR SEEKING CLARIFICATION*
- xxi) *FORMAT FOR DETAILS OF BIDDER*
- xxii) *RTGS DETAILS OF BHEL-PSER FOR EFT BY BIDDER/CONTRACTOR*

ALL THE PAGES OF NIT SHALL BE DULY SIGNED & STAMPED 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: BOK-S256:16 (ENQ:16:PP:0015:PUR:171)
Date 18/03/2017.**
- B) WORK : **“SHORT TERM MAINTENANCE CONTRACT OF BOILER,
MILLING SYSTEM AND TURBINE WITH THEIR
AUXILIARIES AT UNIT-1, 500 MW, BOKARO TPS,
DVC, JHARKHAND”.**
- C) TENDER SUBMISSION DUE DATE : **ON 28-03-2017 UP TO 15:00 HRS. IST**
- D) TECHNICAL BID OPENING DATE : **ON 28-03-2017 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 : **03 (three) days from date of intimation by BHEL**
- H) COMPLETION PERIOD : **04 (Four) months from the date of start of work.
As per scope, 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/Sales Tax Clearance certificate.
 - 3) Photo Copy of PAN based Service Tax Registration Certificate/Proof of PAN based STC No.
 - 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	Free of Charges
h)	Residential accommodation (if provided by customer)	On Chargeable Basis
i)	Compressed air	Free of Charges
j)	Work shop facilities	Free of Charges

k)	i) Mobile Crane/Hydra for heavy materials, if required	Free of Charges
	ii) Operator for K (i)	Free of Charges
	iii) Fuel charges for K (i)	Free of Charges
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: "SHORT TERM MAINTENANCE CONTRACT OF BOILER, MILLING SYSTEM AND TURBINE WITH THEIR AUXILIARIES AT UNIT-1, 500 MW, BOKARO TPS, DVC, JHARKHAND".

01. I,hereby certify that all the information and data furnished by me with regard to this **E-Tender No. PSER: PUR: BOK-S256:16 (ENQ:16:PP:0015:PUR:171) Date 18/03/2017** 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, Service Tax for Services 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) may not be allowed to participate in further RA process.
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'.

Annexure-I

Job: Short term Maintenance Contract of Boiler, Milling System and turbine with their auxiliaries of Unit (1x500MW) at Bokaro TPS, DVC, Jharkhand.

Total Contract period: 04 (four) months from the date of start of work

The scope under this specification is not exhaustive but indicative only. However, any activity covered under normal course of Running/Routine, Preventive and Breakdown maintenance as per maintenance practice and/or OEM's O&M manual shall be deemed to be within the scope.

Scope of work: All routine, preventive and breakdown maintenance of Boiler, Milling system along with coal feeder and their auxiliaries including mill reject system, turbine & auxiliaries as detailed below:-

Category-A: Main job

Section-I: Boiler, Milling System & Auxiliaries

1. All routine, preventive, breakdown maintenance of boiler and its auxiliaries, milling plant of the unit have to be carried out as per details given herein to ensure availability of the unit to the optimum level.
2. Area under the contract will be the equipment's including the boiler and its auxiliaries, coal mill, feeders and its auxiliaries. The broad scope of work will consist of monitoring running equipments, follow lubrication schedule, under take running maintenance related to all equipments of the area as per instruction of Site Engineer-In-charge of BHEL Site Engineer In charge / DVC (EIC).
3. Cleaning, greasing, oil filling including oil top-up in all equipments in boiler, mill and auxiliaries
4. Attending any leakage of oil water, air and coal lines involving tightening of bolts, welding, and repair work, changing small valve, blanking of line etc.
5. Cleaning and changing of filters/strainers, attending trouble in vent & drain of the equipments in the area mentioned above.
6. Line up/checking of equipments before running
7. Replacement of bearing/pumps/valves
8. Dismantling, cleaning, servicing if required and re-fitting of oil guns. Oil gun light up assistance
9. Checking of tightness of nut-bolts, locating looseness in moving equipments and bring it to the notice of control room for attending the same.
10. Assisting in monitoring field parameters of various equipments
11. Cleaning of the working area involving housekeeping of the area required for maintenance.
12. Assistance for C&I and Electrical work like isolation for maintenance activity, removal& fitting of various actuators and power cylinders
13. To attend gland and flange leakage in valve and pipes
14. Cleaning of lube oil cooler and tank as and when required. Checking of cooler leakage and attending the same of all the equipments in the area mentioned above.
15. To attend the problems of coal mill and feeders like shear pin failure, feeder belt replacement, mill/feeder packing etc necessary for running of the feeder and ensure availability of mill. Closing /opening of the needle gate as and when required. Fixing of bunker emptying arrangement as and when required and removal of the same after work
16. Removal of foreign materials and internal inspection of mill including scrapper chamber, Bowl chamber, minor repairing as required if found any abnormality. Periodic rejection Gate operation from

- mill floor for all running mills (if required), Servicing/attending leakage of tramp iron rejection spout. Cleaning of choked pints hoppers, Servicing of rejection gate (upper and lower).
17. Bull ring segment wear measurement with the help of contour template made when the equipment is new.
 18. Arresting PF leakage in running condition of Mills as possible with sodium silicate as well as patch weld repairing, bends, mill top, coal mill chute before feeder. Removal of choking of centre feed pipe from bunker end to mill, coal pipe leakage attending of running mills. Attending Victaulic coupling leakage. Cleaning of coal pipe choking by cutting pockets wherever necessary, normalization and Box-up.
 19. Collection of pulverized coal sample from distributor pipe & raw coal sample from coal feeder as required, Adjustment of classifier as per coal fineness report.
 20. Minor repair/maintenance of regulating damper and its shut off gate of cold air and hot air.
 21. Alignment work, coupling greasing.
 22. Torque Hub rotation of COC of coal feeder s-hourly monitoring. To rotate the torque hub of COC manually in case of shear pin failure till it is replaced.
 23. Removal of feeder/mill choking
 24. Replacement of scanner, igniters, oil gun etc, guide hose, scanner and oil gun cooling air hose, oil and steam connecting flexible hoses etc.
 25. Opening of wind box man-hole for inspection of SADC dampers, setting of SADC dampers and opening of any other manholes.
 26. Checking of suspension of all headers of pressure parts and resetting if required. Maintenance of sampling station.
 27. To provide manpower for opening and closing of valves of Boiler and mill area if required.
 28. To provide manpower and scaffolding during online sealing of valves, bonnets, pipes etc.(sealing of the equipment is excluded)
 29. To provide man power during servicing of both AC & DC scanner air fan.(servicing of motor excluded)
 30. Erection/Fabrication of small temporary scaffolding for maintenance work (both mechanical and other departments).
 31. Replacement of shear pin in burner system, Replacement /Repair of Reach Rod etc.
 32. To provide manpower during operation and maintenance work of soot blower, if required.
 33. To attend different leakages in service and instrument air line in boiler area as and when required.
 34. Manual rotation of APH driving gear box shaft during total power failure.
 35. Alignment checking of speed reducer if required, replacement of resilient drive plate etc.
 36. To provide manpower during operation and maintenance of work of soot blower if required.
 37. In-situ cooler cleaning as and when required basis.
 38. Removal of rejection passages chocking of mill, removal of chute jamming from bunker mouth to feeder and feeder to mill.
 39. Removal of foreign material from feeder inside.
 40. Oil top up, lubrication of all grease points and
 41. Removal of rejection passages chocking of mill, removal of chute jamming from bunker mouth to feeder and feeder to mill.
 42. Regular checking of return oil flow from upper radial bearing. Gauge glass Maintenance as and when required.
 43. Clearing of Coal Pipe chockage by cutting Pockets wherever necessary
 44. Removal and cleaning of suction filter choking of seal air fan.
 45. Attending seal air line leakage

46. Replacement of gasket, rope of duct manhole door etc. to ensure no leakage.
47. Inspection of guillotine dampers and servicing of same for smooth operation and full isolation with-out any leakage.
48. Readjustment of classifier position/ readjustment of spring pre load of journal roller assembly if required.
49. Replacement of labyrinth seal of mill if required.
50. Arresting coal leakage from milling system.
51. Replacement of grinding roll assembly. Placing the same in position after removal of old one. Adjustment & setting of Roller by running Mill. Setting the Spring Assembly with Journal Head if required.
52. Lube oil pumps repair and replacement if required.
53. Shaft seal replacement /repair, alignment checking and realignment of ID, FD, PA& SA fans etc.
54. Replacement of DE & NDE bearings of the seal air motor, if required.(Servicing of the motor is excluded)
55. Repair/Replacement of HFO, LFO pump etc. Cleaning of suction strainer of LFO and HFO line. To attend any leakage in oil and steam line. Cleaning of technological waste and leakage oil from fuel oil pump house .Cleaning of HFO discharge filter at burner floor.
56. To attend problems in moving part of boiler auxiliaries to ensure its maximum availability and attend leakages to optimum availability of boiler as per direction of BHEL Site Engineer In Charge / DVC (EIC).
57. Up-keep ment of boiler & auxiliaries, removal of scraps and mill rejects --The ash ,technological waste ,coal dust etc accumulated on different floors ,buck-stays, pipelines above the ducts, valves of main boiler, coal mill operating floor, Mill bay ground floor, Feeder floor, ID, FD, PA, Fuel oil pump house floor has either to be collected in gunny bags or to be cleaned by compressed air lines daily and to be disposed of at the designated location, equipments in the area mentioned to be cleaned as directed by DVC (EIC) / Site Engineer-In-charge of BHEL Removal of coal mill rejects, technological waste, coal rejects and disposal within the plant premises: transporting 3 to 5 tons of reject per trip
58. Any other work as asked for by the DVC (EIC)/ Site Engineer-In-charge of BHEL, which will facilitate the above listed works is to be carried out by the contractor.

Section-II: Turbine and Auxiliaries

All routine, preventive, breakdown maintenance of Turbine and its auxiliaries of the unit have to be carried out as per details given herein to ensure availability of the unit to the optimum level. Area under the contract will be the equipments including the Turbine and its auxiliaries. The broad scope of work will consist of monitoring running equipments, follow lubrication schedule, under take running maintenance related to all equipments of the area as detailed by engineer in charge. This also includes alignment, mechanical seal/gland replacement etc. to keep all drive installed in the system in healthy condition.

1. Air compressor:

- a. Service air compressor-02 nos. with associated pipe lines, valves, Receiver tanks etc.
- b. Instrument air compressor-03 nos. with associated driers (mechanical portion), pipe lines, valves, Receiver tanks etc.
- c. Mill reject compressors-02 nos. with associated pipe lines, valves etc.
- d. Attending leakages of valves & pipe lines of coolers, driers, receivers etc.
- e. Tit bit regular maintenance as and when required.
- f. Servicing/replacement of valves.
- g. Replacement of gland packing as and when required.

- h. Replacement of gasket and orifice of flanges.
- i. Cleaning of air filter, oil filter, inter-cooler and after-cooler
- j. Manpower assistance is to be provided during overhauling/servicing/other work under the supervision of specialist / service Engineer.

2. Cooling water system (ACW & ECW system)

- a. TG auxiliaries cooling system for each unit- includes 03 nos. centrifugal pump (TG-DMCW pumps) associated pipe lines& valves, Plate heat exchangers (03 nos.) associated valves & pipe lines of PHEs(3 nos.)
- b. Boiler auxiliaries cooling system for each unit includes 02 nos. centrifugal pump (SGDMCW), associated pipe lines& valves, associated valves & pipe lines of PHEs (2 nos.)
- c. Self-cleaning strainer.
- d. H₂ & exciter cooling water system for each unit.

Preventive maintenance as guided by BHEL Site Engineer In charge /DVC (EIC) is to be followed as per schedule and as per work mentioned below:-

- i) Servicing/replacement of valves
- ii) Attending leakage of associated pipe lines, valves etc
- iii) In case of self-cleaning strainers, the works include servicing /replacement of valves , orifices, unions, pumps, attending different leakages in valves, pipes and tit bit repairing/ maintenance works of the system as per instruction of controlling officer and the other works which can be done without calling the specialist.
- iv) Cleaning of self cleaning strainer
- v) Replacement of gland packing of all valves as and when required.
- vi) Replacement of gasket and orifice of flanges
- vii) Cleaning of PHEs of TGDMCW and SGDMCW
- viii) Manpower assistance is to be provided during overhauling/servicing/other work under the supervision of specialist/ service Engineer.

3. Feed water system: MDBFP/TDBFP and their hydro coupling/gear box, booster pump, lube oil system including Working Oil &Lube Oil coolers. AC& DC Lube oil pumps, Transfer oil pump, jacking oil pump, associated valves and pipe lines in steam/water circuit, all feed water valves i.e. suction valve, discharge valves (Motorized), Recirculation valves (Pneumatic), NRV's. Booster pump & boiler feed pump strainer, suction flow orifice. HPH's inlet, outlet & bypass valves feed control station valves, associated pipe lines, oil operated extraction line NRVs etc.

Attending different leakages,

- a. Tit bit maintenance of oil line stop & control valves, extraction line NRVs etc.
- b. Servicing/replacement of valves.
- c. Replacement of gland packing as and when required .
- d. Replacement of gasket and orifice of flanges .
- e. Tit bit steam /water/oil leakage etc. associated with turbine.
- f. Replacement of Mechanical seal of Main/BP of TDBFP/MDBFP
- g. Alignment of all pumps on requirement.
- h. Cleaning of booster pump suction strainer and conical strainer.

4. Condensate system: Condensate extraction pumps, suction strainers, all valves in the system i.e. gland steam cooler, drain cooler, CPU, Deaerator (steam and water ckt), De-aerator storage tank and their associated valves & pipe lines.

- a. Attending different leakages like gland, oil, brg. oil cooler,
- b. Bearing cooling water line cleaning etc., alignment.
- c. Attending gland leakage of condensate line valves.
- d. Providing man power assistance at the time of working under the supervision of specialist.

- e. Attending leakages in pipe line Tit bit leakages in D/A & D/A Storage Shell
- f. Tit bit maintenance of oil operated NRVs.
- g. Servicing/replacement of valves .
- h. Replacement of gland packing as and when required .
- i. Replacement of gasket and orifice of flanges.
- j. Man power assistance is to be provided during overhauling/servicing/other work under the supervision of specialist/ service Engineer.
- k. Cleaning of CEP suction strainer.

5. TG Bearing Lube oil system (each unit)–MOT, AOP(02 nos.), DCEOP (01 no.), ACJOP (01no.),DCJOP (01no.), Vapour extractor fans (02nos.), associated valves, accumulators, main oil cooler (02nos.), duplex filter, associated pipe lines.

Control oil system- Control fluid tank, Control oil pump, regenerative pump, vapour extractor fans, filters, heater, coolers, associated valves and pipe lines, governing racks, accumulators etc.

Central oil purification system: Clean & dirty oil tank, oil centrifuge, associated valves, Pumps, filters and pipelines. Turbine oil Vapour Extractors, Strainers/ Filters in oil lines (Turbine Lube oil, Control oil lines)

- a. Attending leakages or servicing/replacement of associated different oil line orifices, pipes and valves,
- b. Tit bit maintenance jobs/attending leakages in central purification system, governing rack, servo motors of LPBP valves, HPSV, HPCV, IPSV, and IPCV which do not require complete dismantling of the servo motors.
- c. Servicing/replacement of valves .
- d. Replacement of gland packing as and when required .
- e. Replacement of gasket and orifice of flanges .
- f. Man power assistance is to be provided during overhauling/servicing/other work under the supervision of specialist/ service Engineer.

6. Oil Purifier in Main turbine lube oil system, TDBFPs and Central oil purification system: Centrifuge, booster pump, associated valves & Pipelines

- a. Attending leakages in oil/water pipe lines, valves etc.
- b. Servicing/replacement of valves.
- c. Cleaning of bowl of centrifuge
- d. Replacement of gland packing as and when required.
- e. Replacement of gasket and orifice of flanges.
- f. Man power assistance is to be provided during overhauling/servicing/other work under the supervision of specialist/ service Engineer.

7. OIL/ WATERFILTER CLEANING / REPLACEMENT:

(TDBFP / MDBFP / CF TANK, Turbine – MOT, VACUUM PUMP COOLING WATER, GENERATOR Seal oil / TDBFPJOP, EOP/ CONICAL STRAINER OF AOP &EOP/ MAIN TURBINE JOP/ LPBYPASS CONTROL OIL/ HPBYPASS CONTROL OIL / DOSING SYSTEMS/BOOSTER PUMP MECHANICAL SEAL WATER RACK/ BFP/ BOOSTER PUMP JACKET COOLING WATER RACK/MAIN TURBINE GOVERNING RACK/ HPCV1&2/ IPCV(One rack = One set) etc.

- a. Dismantling of vent line & removal of top cover of filter.
- b. Removal of bottom dummy plug & draining of filter.
- c. Removal of magnetic bars & filter element from position.
- d. Cleaning of filter casing.
- e. Cleaning of the filter element using cleaning agent Petrol / steam / air etc.
- f. Replacement of filter in case of damage.
- g. Box up of filter assembly with new O-ring / gasket and attend leakage / defects etc. during charging if any

- 8. Generator seal oil system** pumps which include AC & DC seal oil pumps, Seal oil vapour extractor fans, valves in oil and gas lines, strainers / filters, LLDs, seal oil coolers, Seal oil tank, Seal oil storage tank
- Attending leakages or servicing/replacement of associated different oil line orifices small components (excluding complete servicing of DPR) and valves etc. including attending of small leakages in oil as well as in water line / flanges etc. of seal oil coolers, associated filters etc.
 - Servicing/replacement of valves .
 - Replacement of gland packing as and when required
 - Replacement of gasket and orifice of flanges
 - Manpower assistance is to be provided during overhauling/servicing/other work under the supervision of specialist/ service Engineer.
- 9. Primary water system-** includes primary water tank, primary water pumps (02nos.), plate type heat exchanger, filters, associated valves& pipe lines.
- Tit bit Maintenance of primary water tank and associated valves, Maintenance/ Servicing/replacement of Primary water pumps, attending leakages in coolers (without, filters & associated valves, assistance during resin replacement ,caustic dosing etc.)
 - Servicing/replacement of valves .
 - Replacement of gland packing.
 - Replacement of gasket and orifice of flanges.
 - Cleaning of plate heat exchanger on requirement.
- 10. Turbine Gland steam exhausts fans, Turbine gland steam valves: MAW – 10 & MAW-50:**
- Attending different leakages and maintenance work of Gland steam exhausts fans, Turbine gland steam valves (without actuator) MAW – 10 & MAW-50 (for gland steam valves only tit-bit break down maintenance works like checking of coupling, removing jamming etc. are included while complete dismantling of valves excluded), attending gland leakages of Isolating & bypass valves of Gland steam control valve and other small trouble which do not include dismantling of valve.
 - Servicing/replacement of valves.
 - Replacement of gland packing as and when required.
 - Replacement of gasket and orifice of flanges.
- 11. (A) HP Bypass system:** Manual valves / NRVs, BP, BPE valves of HP Bypass steam & spray water line, Oil unit (oil pumps, filters and accumulator)
- (B) LP bypass system:** Includes circulation pumps, filtration pumps, filters, accumulator, injection water valve, manual valves.
- Attending leakages ,Gas pr. checking in accumulator, checking of oil pump and tit bit maintenance of associated oil system,
 - Servicing/replacement of valves.
 - Replacement of gland packing as and when required.
 - Replacement of gasket and orifice of flanges.
 - Manpower assistance is to be provided during overhauling/servicing/other work under the supervision of specialist/ service Engineer.
- 12. Vacuum system:** vacuum pumps (02nos.), recirculation pumps (02nos.) separator, cooler, associated valves & pipe lines.
- Attending leakages in pipe lines & valves
 - Attending vacuum pump gland leakage as decided by BHEL Site Engineer-In-Charge / DVC (EIC).
 - Servicing/replacement of valves .

- d. Replacement of gland packing of the pump on as and when required basis.
- e. Replacement of gasket and orifice of flanges.
- f. Manpower assistance is to be provided during overhauling/servicing/other work under the supervision of specialist/ service Engineer.

13. Gas feeding system (H₂, CO₂ & N₂) valves, fittings and pipelines including different valves in H₂ gas drier etc

- a. Attending leakages
- b. Servicing/replacement of valves .
- c. Replacement of gland packing as and when required.
- d. Replacement of gasket and orifice of flanges.

14. Chemical dosing system: Phosphate, ammonia & hydrazine dosing pumps, associated valves, pipe lines, strainers, NRVs relief valves etc.

- a. Replacement and servicing/overhauling of chemical dosing pump
- b. Adjustment of stroke, as & when required.
- c. Attending leakage in pipe line, valves etc.
- d. Replacement of pipe & valves
- e. Servicing/replacement of valves .
- f. Replacement of gland packing as and when required.
- g. Replacement of gasket and orifice of flanges.

15. Condenser on line tube cleaning system and its accessories

- a. Attending different leakages in valves, pipes, unions, pump glands which do not require dismantling of the system
- b. filling of sponge balls
- c. Servicing/replacement of valves .
- d. Replacement of gland packing as and when required .
- e. Replacement of gasket and orifice of flanges .

16. LPH & HPH:

- a) LPH #1, 2 & 3, HPH # 5A, 5B, 6A, 6B associated drip line valves, gauge glass etc. (manual, pneumatic, motorized)
- b) Extraction steam system- Extraction steam valves to heaters, NRV's (excluding oil operated NRV's), associated pipe lines & valves.
- c) Deaerator pegging steam & Heating line – all associated valves (manual, motorized, pneumatic) & pipe line
 - i) Attending leakages from manhole, water box partition joint.
 - ii) Attending leakages in pipe lines & valves,
 - iii) Servicing/replacement of valves .
 - iv) Replacement of gland packing as and when required .
 - v) Replacement of gasket and orifice of flanges.

17. Turbine drain and impulse line valves of MS, CRH, LPBP drain valves, HRH and MAL drain valves.

- a. Attending leakages in above steam line including their flanges, orifices,
- b. Dismantling of actuator from the base and refitting of the same to carry out valve maintenance is included. However cable disconnection/connection of the actuator is excluded.
- c. Servicing/replacement of valves .
- d. Replacement of gland packing as and when required.
- e. Replacement of gasket and orifice of flanges .

18. HP heaters & LP heaters Extraction line oil operated NRVs

- a. Attending steam side gland leakages of NRVs
- b. Note: servicing of oil operated extraction NRVs & their Servo motors is excluded. However attending of tit-bit oil leakages/ Gland leakage is included.
- c. Servicing/replacement of valves .
- d. Replacement of gland packing as and when required.
- e. Replacement of gasket and orifice of flanges.

19. LP welding of steam lines, water line, oil lines, gas lines and their associated systems related with Turbine & its Auxiliaries, drain and impulse line, steam & Spray water line as per requirement including C&I impulse line valves mountings etc. which need welding joints.

- a. Carry out all LP welding of steam lines, oil lines, airline, gas line for replacement of valves and their associated pipe lines during the maintenance activities or during break down period.
- b. Servicing/replacement of valves.
- c. Replacement of gland packing as and when required.
- d. Replacement of gasket and orifice of flanges.

20. UFT & Flash boxes

- a. Attending leakages in associated steam/water pipe line, valves, flanges, orifices,
- b. Servicing/replacement of valves.
- c. Replacement of gland packing as and when required.
- d. Replacement of gasket and orifice of flanges.

21. Condenser, Hot well

- a. Attending leakages of associated different small components mounted on condenser/hot well, gagging of condenser as and when required.
- b. Servicing/replacement of valves.
- c. Replacement of gland packing as and when required.
- d. Replacement of gasket and orifice of flanges.

22. ECW Tank, SSW tank, filter/drinking water tank

- a. Attending leakages in associated valves & pipe lines
- b. Servicing/replacement of valves.
- c. Replacement of gland packing as and when required.
- d. Replacement of gasket and orifice of flanges.

23. LP turbine rupture diaphragm: Replacement of LP diaphragm as per requirement.

24. All hangers and supports (only tit bit break down maintenance work and setting excluding the gross settings and adjustment) in turbine area only. Checking of all hangers and supports which includes only break down maintenance work as per requirement and minor setting (excluding the thorough settings and adjustment). Gross maintenance of hangers and supports.

25. Condensate pit sump pump

26. Turbine Gov. Racks (governing rack, protection rack, supply units etc), HP & IP control and stop valves Servo motors, Test valves (valve block assembly), CRH NRV's actuators and external glands of CRH NRVs, TDBFP stop , main & auxiliary control valve & their servomotor. (Which includes only tit-bit maintenance works), HPT evacuation valve, vacuum breaker valve.

- a. Attending different oil/steam leakages (which can be done in-situ condition) and only tit-bit maintenance work of the components of Turbine Gov. Racks, HP & IP control and stop valves and their servo motors, Test valves, CRH NRV's actuators and external glands of CRH NRVs, TDBFP stop, main & auxiliary control valve & their servomotor, HPT evacuation valve, vacuum breaker valve - which includes only tit-bit maintenance works without complete dismantling the components. This also includes cleaning of governing rack filters.
- b. Servicing/replacement of valves.
- c. Replacement of gland packing as and when required.
- d. Replacement of gasket and orifice of flanges.

27. PRDS and aux. steam header

- a. Attending leakages in the system including the control & isolating valves connected with the header for auxiliaries steam supply to Gland Steam, De-aerator pegging and TDBFP etc.
- b. Servicing/replacement of valves.
- c. Replacement of gland packing as and when required.
- d. Replacement of gasket and orifice of flanges.

28. DM System

DM storage tank (2 Nos.), Condensate storage tank (2 Nos.), Boiler fill pumps (2 Nos.), DM make up pumps (3 Nos.), Condensate transfer pumps (2 No's) and associated pipe lines and valves, Maintenance/cleaning of DMSTs & CSTs and associated valves, accessories like NaOH breather and seal pot etc.

- a. Servicing/replacement of valves (up to 50NB)
- b. Replacement of gland packing as and when required.
- c. Replacement of gasket and orifice of flanges.
- d. Maintenance of Seal Pot & Breathers of storage tanks.
- e. Attending leakages of pumps, valves and associated pipe lines & valves.

29. Equipment cleaning

All equipment's mentioned in the list of "Equipment & Machineries" are to be cleaned regularly and also as when required. Proper attention is to be given towards running equipment's during cleaning so that it does not cause any adverse effect on the equipment's. If necessary, cleaning of running equipment's are to be carried out in presence of BHEL/DVC representatives. Technological waste produced during maintenance or any other reason is to be removed to any suitable place as specified by BHEL/DVC to keep the working area always neat and tidy.

Note:-

- a. Electrical connection & Disconnection of the equipment will be arranged by DVC.
- b. Mechanical assistance is to be provided for work related to power drive or other control drive as and when required.
- c. DVC may call specialists for any of the jobs if required as per discretion of controlling officer for which the cost will be borne by DVC. Necessary manpower assistance to carry out the respective job under the supervision of specialist is to be provided by the vendor.

Section-III: Operation Support Services:

- a. To provide assistance for transferring oil from MOT to Dirty/Clean oil tank and vice versa.
- b. To provide assistance during oil top-up in MOT, MDBFP H/C, TDBFP lube oil tanks, CEP Bearings, Control fluid oil tank, HPBP power pack, LPBP HPSU system, bearing of primary water pump, Compressors etc. during the shift only which excludes oil filling after maintenance of these equipment.
- c. Shifting of H₂, CO₂, N₂ cylinders from site stores to the gas feeding station.
- d. Loading and unloading of H₂, CO₂ and N₂ Cylinders required from & to the truck.
- e. To provide assistance during feeding of H₂, CO₂ and N₂ gas.
- f. Shifting of oil drums from site store to nearby places of equipment's with or without EOT crane.

- g. To provide assistance during operating valves in Turbine, Boiler & its auxiliaries as and when required without any delay.
- h. To provide assistance in cleaning of the equipment as per directions of the Unit control room engineers.
- i. To provide assistance in cleaning of the area if oil spillage occurs during loading/unloading oil from and to oil drum.
- j. Loading and unloading of lube oil drums from and to the truck from main store to site store.
- k. The manpower under this head will be under the control of Operation section.
- l. To provide assistance to equipment line up and operation support stuff.
- m. Lube oil level checking and Top-up lube oil system if required as per instruction of control room engineer.
- n. Manpower support for control room assistance, field, equipment line –up etc.

Section-IV: General scope of work

- Transportation of materials/spares from store to work site/workshop/maintenance bay & vice versa etc. Removal of ash/ debris/scrap/materials from work site to disposal area/scrap yard/stores by using own resources.
- Fabrication of fixtures and illumination of work zone.
- Minor modification job, grinding, drilling, tapping, hole enlargement, leveling, blue matching, DPT test.
- Assistance for fabrication/machining of spares.
- While executing the above jobs, if approach is require to be made by dislocating associated parts/equipments, same to be carried out by the contractor under this scope and relocation of the same after completion of the job.

Category-B: Optional Jobs (Attending Tube Leakage, Stress relieving radiography etc.)

B1) WELDING OF HP TUBE JOINTS (PER JOINT)

Repair of Boiler tubes in different zone of Boiler. To detect leaky/eroded tubes and repair of the same by fitting & welding new tube inserts or by metal build up. There are different location and size of boiler tubes i.e. different zone as detailed hereunder in the table below. The bidders are required to quote rate for HP tube welding joint work per joint (at any location of boiler). Payment for welding joint in any location will be made on actual number of joints done multiplied by rate per joint, if actual no. of joint exceeds the "minimum number of joint in one failure" mentioned for the location. However, if actual number of joints does not exceed the minimum number, then payment will be done on the "minimum number of joints in one failure" mentioned under corresponding location multiplied by the rate per joint. Material handling equipment like tractor /trolley/ trailer if required is under scope of the contractor.

Sl. No.	Location of Boiler Tube	Tube Size	Material Specification	Minimum Nos. of Joint in one failure
a.	Water Wall tubes and Extended Water wall tubes	- Ø 51 x 5.6 mm. - Ø 63.5 x 7.1 mm	- SA 210 Gr. C - SA 210 Gr. C	06 Nos.
b.	Water wall Screen, Hanger and Rear arch tubes	- Ø 63.5 x 7.1 mm. - Ø 63.5 x 12 mm.	- SA 210 Gr. C - SA 210 Gr. C	06 Nos.
c.	Water wall bottom header nipple	- Ø 51 x 8.8 mm.	- SA 210 Gr. C	06 Nos.

d.	Radiant roof tubes	<ul style="list-style-type: none"> – Ø 63.5 x 6.3 mm. -- Ø 57.0 x 6.0 mm. 	<ul style="list-style-type: none"> – SA 213 T11 -- SA 213 T11 	06 Nos.
e.	Back pass roof tubes, Back pass Rear upper and lower/ Front/ Side Walls / SH screen.	<ul style="list-style-type: none"> – Ø 51.0 x 5.0 mm. – Ø 44.5 x 5.0 mm. – Ø 63.5 x 6.3 mm. 	<ul style="list-style-type: none"> – SA 210 Gr. C – SA 210 Gr. C – SA 210 Gr. C 	10 Nos.
f.	Superheater steam cooled spacer tubes for divisional platen	<ul style="list-style-type: none"> – Ø 63.5 x 8.0 mm. – Ø 63.5 x 7.1 mm. – Ø 63.5 x 9.0 mm. – Ø 51.0 x 7.1 mm. 	<ul style="list-style-type: none"> – SA 213TP347H – SA 213 T22 – SA 213 T22 – SA 213TP347H 	06 Nos.
g.	Superheater steam cooled spacer tubes for platen and RH coil	<ul style="list-style-type: none"> – Ø 51.0 x 5.0 mm. – Ø 51.0 x 7.1 mm. 	<ul style="list-style-type: none"> – SA 210 Gr. C/T11/T22 – SA 210 Gr. C/T11/T22 	06 Nos.
h.	Reheater Vertical spaced Front and rear assy.	<ul style="list-style-type: none"> – Ø 63.5 x 4.5 mm. – Ø 54.0 x 4.0 mm. – Ø 63.5 x 4.0 mm. – Ø 63.5 x 6.3 mm. – Ø 54.0 x 4.0 mm. 	<ul style="list-style-type: none"> – SA 213 T22 – SA 213 T22 – SA 213TP347H – SA 213 T22 – SA 213 T91 	12 Nos.
i.	Superheater Horizontal Spaced Terminal tubes	<ul style="list-style-type: none"> – Ø 47.63 x 5.6 mm. 	<ul style="list-style-type: none"> – SA 213 T11 	06 Nos.
j.	Superheater Vertical spaced Platen assy.	<ul style="list-style-type: none"> – Ø 63.5 x 6.3 mm. – Ø 63.5 x 8.0 mm. – Ø 63.5 x 12.5 mm. – Ø 63.5 x 12.0 mm. – Ø 51.0 x 6.3 mm. – Ø 51.0 x 7.1 mm. – Ø 51.0 x 7.1 mm. – Ø 51.0 x 11.0 mm. 	<ul style="list-style-type: none"> – SA 213 T22 – SA 213TP347H – SA 213TP347H – SA 213 T22 – SA 213 T22 – SA 213 T91 – SA 213TP347H – SA 213 T22 – SA 213 T22 	10 Nos.

		– Ø 51.0 x 9.0 mm.		
k.	Superheater Divisional panel assy.	– Ø 63.5 x 8.0 mm. – Ø 44.5 x 5.6 mm. – Ø 44.5 x 5.0 mm. – Ø 51.0 x 7.1 mm. – Ø 44.5 x 7.1 mm. – Ø 51.0 x 7.1 mm.	– SA 213TP347H – SA 213 T91 – SA 213 T22 – SA 213 T22 – SA 213 T22 – SA 213 T91	12 Nos.
l.	Eco coils	– Ø 38.1 x 5.3 mm.	– SA 210 Gr.A1	06 Nos.
m.	Eco and LTSH holding hanger tube	– Ø 47.63 x 8.6 mm.	– SA 210 Gr.C	06 Nos.
n.	L.T.S.H. coils (Superheater horizontal spaced assy.)	-- Ø47.63 x 5.6 mm	-- SA 213 T 11	06 Nos.

Mode of Welding of Boiler Tubes:-

Root run by TIG welding and thereafter electric arc welding to be done strictly as per IBR norms. The welders may have to undergo procedure- cum simulation test, if so desired by Boiler Directorate or DVC (EIC). The 100% joints of reheat zone are subjected to radiography. The tubes of platen coils and final super heater coils having thickness more than 8 mm are subject to stress relieving. The all other joints except reheater are subject to 10% radiography and after completion of welding joint, hydro test of Boiler has to be carried out. All statutory provisions of Indian Boiler Regulations shall have to be fulfilled by the contractor. The contractor have to maintain liaison with Boiler Inspector and will arrange to & fro transportation for the same.

Note:- The following jobs are to be done by the contractor during carrying out the repair jobs of Boiler tubes free of cost as per instruction of BHEL Engineer –in Charge.

- a) Opening and closing of manhole & peep hole doors of Boiler.
- b) Removal of insulation and its cleaning, refractory etc. for attending the tube leakages, if required and the same has to be redressed after attending the repair job.
- c) Erection of scaffolding and tube cleaning as per requirement.
- d) Tube and header guards/shields may have to be fabricated and to be fitted as per requirement.
- e) Checking of dipper plates in bottom ash hopper and rectification/replacement as per requirement.
- f) Tube attachments, hangers and supports may have to be changed if required. The items which are possible to be fabricated and to be fitted by the contractor.
- g) Due to leakage in boiler tubes, if the refractory /skin casing/insulation get damaged have to be redressed free of cost.
- h) Removal of membrane/fins in Boiler walls/roofs rear arc etc wherever required for attending to tube leakages and refitting after fabrication shall be done by the contractor free of cost.

- i) Cleaning of ash, clinkers etc for attending tube leakages have to be carried out as per requirement.
- j) Transportation of materials from stores to work site and return of scraps if any has to be carried out by the party.
- k) All other allied jobs, felt necessary for satisfactory execution of the repair job shall have to be done at no extra cost.
- l) The above mentioned specifications of the different boiler tubes are only a guideline and these may be changed. The rates for inserts shall be quoted zone wise.
- m) Radiography of joints that will be indicated by BHEL Site Engineer In charge /DVC(EIC) concerned Engineer and the radiography plate has to be submitted by the contractor.

RADIOGRAPHY - Radiography of the H.P. Welding joints as per instructions of Site Engineer In Charge of BHEL. The radiography scope includes transportation charge, engagement charge per day and charge per tube joint RT as mentioned below:-

B2) Transportation charge: Transportation of Radiography equipment along with its operator per failure basis (single to and fro journey).

B3) ENGAGEMENT CHARGE PER DAY: It is cost per day of engagement of machines along with its operator.

B4) CHARGE PER TUBE JOINT RT:

- 1) Cleaning of joint to make it suitable for radiography.
- 2) Putting of distinct identification number on the film of corresponding joint and submission of same along with the report
- 3) Radiography team should come to site with isotopes and other requisite tools and tackles.
- 4) Report of radiography has to be submitted shortly after the shot.
- 5) All the statutory safety measures like group insurance and precautions are to be taken by party during execution of work

STRESS RELIEVING: Stress relieving payment will be done in three sections, namely(i) transportation cost - i.e. single to and fro transportation cost of SR operator along with the machine. (ii) Engagement charge per day - i.e. the cost of engagement of machine along with is operator throughout the day. The payment will be done as per day of engagement basis. (iii) Charge per joint - besides the charge mentioned above, the contractor will be paid a charge for SR per joint basis. -electricity for carrying out SR will be provided free of cost and rest are contractor's scope ..

B5) SR - TRANSPORTATION CHARGE: Transportation of SR machine along with its operator per failure basis (single to and fro journey).

B6) SR - ENGAGEMENT CHARGE PER DAY: It is cost per day of engagement of machines along with its operator.

B7) SR - CHARGE TUBE JOINT / JOINT: It is cost of SR of each joint.

B8) SR - CHARGE HEADER JOINT / INCH JOINT: It is cost of SR / inch joint for header joint.

Payment for Category-B: (Optional Jobs): Contractor will be paid extra at fixed unit rate mentioned in table-I

SL. No.	Description	Unit	Rate (Rs.)
B.1	Welding of HP Tube Joints (per Joint)		
	a HP Welding Joint Charge per Joint	No	1616
	b Tube Leakage Preparatory charges per Leakage	Per incident	14928
	Radiography		
B2	Transportation charge	Per incident	3000
B3	Per day of unit engagement charges	Per incident	3000
B4	Tube joint RT charge	Per incident	250
	Stress Relieving		
B5	SR: Transportation charge	NO	2712
B6	SR: Engagement charge	Per day	3616
B7	SR: Charge tube joint/joint	no	181
B8	SR: Charge header joint /inch joint	inch	72
Table: I			

Category-C: Optional job (Removal of Mill rejects)

DISPOSAL OF MILL REJECTS FROM SILO AND MILL SURROUNDING AREA PER TRIP (for tractor trolley):

- Collect mill reject manually from surrounding area of mill or from silo and shift the same inside the plant premises as indicated by the BHEL Site Engineer In Charge / DVC (EIC).
- Payment of this part is as per number of trip of tractor trolley (of standard size) as per attached in price bid.
- It is contractor responsibility to dispose as per direction of BHEL Site Engineer in Charge / DVC (EIC) without any spillage on the way and maintain cleanliness of surrounding area of mill.
- Generally one tractor is required for one unit in service. Contractor may deploy extra tractor in case of emergency or during high rejection rate.
- Arrangement of tractor trolley for disposal of material is under vendor's scope.

Payment for Category-C: (Optional Jobs): Contractor will be paid extra for disposal of mill rejects at fixed unit rate @Rs 496 per trip.

TERMS AND CONDITIONS OF THE CONTRACT

- 1) Frequency of maintenance activities shall be decided by Site Engineer-In-Charge of BHEL / DVC (EIC), the contractor has to abide by the same in order to ensure maximum availability of the machines/systems for operation.
- 2) The vendor/contractor shall depute all knowledgeable/experience and requisite Site in charge /Engineer, Supervisor, Technician, Skilled & Semi-skilled workers with millwright fitter (MWF) for satisfactory execution of the Contract duly. However, the exact manpower required for the job will be decided by BHEL Site Engineer In Charge and shall be binding on the contractor.
- 3) The vendor/contractor shall submit a list of experienced manpower for day to day work with Engineers/ Supervisor/MWF etc with their bio data to be deployed at site for undertaking the assigned work for approval of the same by BHEL Site Engineer In charge .

Manpower list**LIST OF MINIMUM MANPOWER TO BE DEPLOYED BY THE AGENCY FOR MAINTENACE WORK**

- i) **Manpower for maintenance work: List of minimum manpower required to be maintained to meet day to day maintenance work round the clock as per scope of work to ensure availability of the unit to the optimum level .**

i)	Site Incharge	1 no.
ii)	Supervisor	3 nos.
iii)	MW- Fitter	1 no.
iv)	Jr. Fitter	2 nos.
v)	HP Welder	1 No.
vi)	Grinder	1 No
vii)	Gas Cutter/Welder	1 No. Each
viii)	Rigger	1 No
ix)	Helper/worker/supporting staff	30 Nos
x)	Watch man	3 no.
xi)	Electrician	1 No
xii)	Safety officer	2 No
xiii)	Store keeper	1 No
xiv)	Computer Operator	1 No.
xv)	Sarang	1 No.

Deduction rate chart for not proving the above manpower by the :-

Sl. No.	Description of Manpower for which deduction will be made	Deduction in Rs . in per day basis, in per person.
1	Site -In charge	1000
2	Supervisor	600
3	Safety officer	600
4	Electrician	450
5	MWFitter	450
6	Jr Fitter	350
7	HP Welder	600
8	Grinder	350
9	Store keeper	450
10	Gas Cutter/welder	450
11	Rigger	350
12	Helper/worker/supporting staff	250

13	Watch man	250
14	Computer Operator	Rs.8000/. Per month.
15	Sarang	350
Note:	The above recovery is considered for non availability of manpower for each working days in a month.	

Note: -

- ii) The list of minimum manpower list given above of different categories required for Maintenance work of the Boiler , Turbine & its auxiliaries and mill reject system as per scope of work is indicative only. In case more man power is required during actual execution of work or during critical period/emergency/shutdown , which will be decided jointly by BHEL & DVC on case to case basis, vendor has to arrange sufficient additional manpower with Mill wright Fitter /HP welder immediately to carry out the work in shut down period of the unit/ shut down of the equipment to bring the equipment as early as possible without hampering the generation..
- 4) No Engineer & Supervisor from the listed manpower of the contractor as detailed above shall leave work site / station without prior permission of the BHEL.
 - 5) The jobs will be broadly classified by BHEL Site Engineer In charge / DVC on case to case basis in the following three categories depending upon the plant's condition prevailing at that time.
 - Normal- The job will be done during General Shift.
 - Urgent- The job will have to be done during two shifts per day.
 - Emergency - The job will have to done continuously till its completion.
 - At plant running condition- Man power support to be provided round the clock to make maximum availability of the equipment.
 - 6) The contractor shall furnish detailed list of equipment /material, tools & tackles to be brought inside the plant for execution of jobs to the BHEL Site Engineer In charge / DVC (EIC) before commencement of work. "Indicative list of tools & plants" is mentioned in Annexure-II.
 - 7) The contractor shall not be allowed to commence the job as per contract unless complete site mobilisation in respect of manpower & T&P are ensured and fulfils statutory requirements.
 - 8) Proper action should be taken to ensure safety and security of DVC property during execution of the job. In case any damage to DVC property due to negligence, the vendor/contractor have to replace/ repair the same at their cost.
 - 9) Proper care should be taken to ensure safety and security of workers engaged in the job. In case of any accident and injury to the workers or any other person directly or indirectly involved in the work during execution of the job, the contractor shall have to compensate them at their own cost. BHEL/DVC will have no responsibility, whatsoever, and will be kept fully indemnified and harmless in this regard.
 - 10) The contractor and his supervisors/workers shall have to follow all safety rules & regulation at the time of execution of jobs. All safety gadgets & appliances and dangri as required for carrying out jobs shall be supplied by the contractor without any extra cost.
 - 11) As the plant site is a protected area, necessary gate pass of every worker shall be arranged by contractor with proper intimation to BHEL Site Engineer In charge / DVC (EIC) as per existing rules. The expenditure of photograph, Gate pass etc. shall be borne by the contractor.
 - 12) The contractor shall be responsible to comply all the laws/acts of the land like as Factories Act, Bonus Act, Contract labour act, Minimum wages Act, Payment of wage act and other statutory liabilities in

- vogue or may come into vogue during the validity of the contract and shall indemnify the principal employer against any claim arising out of non compliance/accident to the third party.
- 13) EPF/ESI Provisions etc. shall have to be made by the contractor as per rules. The Contractor shall furnish EPF & ESI code and get clearance of HRD dept about the same prior to clearance of 1st RA bill and shall indemnify principal employer against any claim arising out of its non-compliance.
 - 14) List of main equipment of "Milling system,Boiler and Auxiliaries"and Turbine and its Auxiliaries such as coal mill, RC Feeder, PA Fans, FD Fans , ID Fans, APH , MDBFP , TDBFP, Lube oil system , Condenser Vacuum Pump, Condensate Extraction Pump, HPHs, LPHs etc. may be considered by the vendor / contractor for assessment of quantum of job involved. However, there are many other equipment which are covered under this contract but not mentioned explicitly and it is presumed that the contractor has enough experience into understand the same, to be considered as included in scope of work
 - 15) The contractor shall be responsible for safety and security of their store and T&P items at site as well as spares and special T&Ps handed over to them.
 - 16) Any person employed by the contractor for the contract jobs is found to be incompetent or found to act in an improper manner to the Chief Engineer/his authorized representative, the matter will be brought to notice of the contractor & the said person(s) will have to be replaced immediately.
 - 17) During execution of the contract as well as on expiry of the same, the contractor shall ensure that none of their employees/ workers claims employment in BHEL/DVC. The contractor while engaging & disengaging their workers/ employees shall also follow all statutory rules & regulation applicable as per workmen's Compensation Act and indemnify the principal employer against all claims arising out of dispute to that account.
 - 18) All other terms & conditions not enumerated here in above covering the execution of contract shall be guided by DVC's T-3 Form.
 - 19) *The vendor/contractor should have valid electrical License during the contract period or deploy supervisor having valid electrical License during the contract period prior to take up electrical works.*
 - 20) Transportation of materials from stores to worksite inclusive of loading and unloading and return of materials along with shifting of scraps to scrap yard, if any, have to be carried out by the party.
 - 21) The vendor/contractor shall submit a list of certified H.P welder/welders to be engaged for the job of Boiler pr. parts along with valid qualified welder's certificate issued by the Boiler Directorate. The contractor shall arrange renewal/revalidation of H.P welder certificate well in advance, if the validity of the same expires within the tenure of contract.
 - 22) For boiler maintenance work necessary workforce, tools & tackles, scaffolding materials, argon gas with all accessories/ cutting accessories, TIG welding kits, grinding machine, welding electrodes, electrode oven etc. required for the job have to be arranged by the contractor at their own cost.Consumables for day to day maintenance work like DA,O₂ gas, hacksaw blades, grinding wheels,cotton waste, Emery cloth/paper, kerosene,diesel, rustoline etc.shall also be arranged by the vendor/contractor.
 - 23) **MMD:** The contractor shall ensure deployment of reliable & calibrated instrument, measuring and test equipment (MMD). The MMD shall have test/ calibration certificate from authorized/ Govt. approved agencies. The contractor shall also keep provision of alternate arrangement for such MMD so that the work does not suffer when a particular MMD is sent for calibration. Re-testing/ re-calibration shall also be arranged by the contractor at their own cost at regular interval during the period of use as advised by BHEL.
 - 24) **SUPERVISION / PERFORMANCE:**

The contractor shall give necessary supervision of the work and shall constantly employ experienced, properly qualified and fully authorized representative to manage and direct the work.

 - i) As soon as job is awarded the contractor has to submit a bar-chart to the resident engineer nominated showing the detailed schedule for all activities.
This schedule will be reviewed by the resident engineer from time to time to enable the contractor to recast the bar chart as per requirement.

- ii) It shall be the responsibility of the contractor's supervisor to distribute the work among his workmen deployed at site and get day to day activities executed as per BHEL's requirement. BHEL's engineers / supervisors will check the correctness of the job done and will also give the daily programme of work to the contractor's supervisor. The contractor has to ensure completion of daily programme and if there is any spill over, the same has to be completed by putting in additional resources. (Technical guidance wherever required will be provided by BHEL).
- iii) The scope of work mentioned in this tender enquiry gives the broad outline of the actual work involved as it is not possible to mention all minute details of the work. For proper evaluation, the bidders may seek clarifications from this office, Or else, they may visit site and study the job content before submitting offers and be well informed and acquainted with the actual working and other prevalent conditions of the site, facilities available etc.
No claim will be entertained later on the ground of lack of knowledge.
- iv) The bidders have to furnish the bid-data and experience details of the site-in-charge, other key workmen, supervisors, and senior technicians etc. to be deployed. In case of award of contract, the key members of the contractor's team may be interviewed at site by BHEL's resident engineer to ascertain their suitability. Replacement of non-acceptable personnel will have to be arranged by the contractor immediately at his own cost.
- v) **Performance Guarantee / defect liability period:** Even though the work will be carried out under supervision of BHEL Engineers, the contractor shall guarantee against defects attributable to faulty workmanship or procedure adopted in the maintenance for items (area wise) covered in the contract for a period of one (01) month from the date of handing over to customer duly certified in jointly signed protocol. The workmanship guarantee should cover all defects notified during this period and shall have to be attended free of cost immediately or at the time our clients are able to give shutdown of the set for the required period, when necessary. In case of failure of contractor to attend to the workmanship defect as and when required in time, BHEL shall arrange to attend the defects and the charges shall be levied to the contractor's account and shall be recoverable from the security deposit / progressive payments.

25) TRANSPORTATION OF SPARES / MATERIALS / CONSUMABLES:

- i) Any material / components / spares required for the work must be collected by the vendor and carried safely to the work site from the point of issue in our client's premises, through his own resources and cost. Similarly, excess materials / spares etc. must be returned to the client's stores / any other place, within the client's premises, indicated by BHEL/DVC. Material reconciliation shall be made without fail, as even otherwise, BHEL deserve right for holding the payment even after completion of respective job/ jobs.
- ii) Any debris, rubbish at the work spot must be cleared every day by the contractor using his own resources and cost, and disposed off at a place, as indicated by BHEL /DVC site-in-charge.

26) LIQUIDATED DAMAGES:

Since time is the main essence of the contract, the deployment of manpower is to be made within the time limit specified in this Tender. In case Contractor deploys the manpower beyond the period specified in the Contract, BHEL will have no obligation to accept the same and reserves the right to levy liquidated damages at the rate of 0.5% (half percent) of the total contract value delayed for each week of delay or part thereof without prejudice to any other relief or compensation due to BHEL under any other conditions of the order subject to a maximum limit of 10% (ten percent) of the total contract value. In case of delay in deployment of manpower at site, for reasons not attributable to BHEL, the "Liquidated Damages" clause shall be strictly enforced, unless extension of delivery date is granted through an amendment to the order.

However, above shall be read in conjunction with the relevant clause of GCC.

27) TERMS OF PAYMENT

Subject to deduction in price which BHEL is authorized to make under this contract, the contractor shall be entitled to receive payment as follows :-

A. Main job

- i) 95% (Ninety five percent) of 100 % monthly payment (calculated on pro-rata basis from Lump Sum awarded value) shall be made against monthly invoice subject to fulfillment of following conditions and necessary certification by the Engineer-in-charge of BHEL:
 - a) On satisfactory completion of specified running / routine/ preventive / minor breakdown maintenance activities for the month as per schedule approved by BHEL
 - b) On deployment / maintenance of required number of manpower of different categories and required T&Ps, consumables.
 - c) On satisfactory execution of cleaning & housekeeping work as per direction of BHEL
 - d) On remittance of EPF for the month for the workers engaged against submission of documents thereof.
 - e) Submission of daily attendance sheet of shift personnel along with Common heads.
 - f) On payment of Wages for the month for the workers engaged against submission of documents thereof.
- ii) **Balance 5 % (five percent) payment deducted from the monthly bill will be kept as retention money, the accumulated amount so deducted shall be released along with the final bill after completion of defect liability period and on receipt of final payment by BHEL from Customer DVC-BTPS**

B. Optional job:

- i) 95% (Ninety five percent) shall be made after successful completion of work and necessary certification by the Engineer in-charge of BHEL along with invoice of monthly RA bill of main job.
- ii) **Balance 5 % (five percent) payment shall be released along with final bill of main job after completion of defect liability period and on receipt of final payment by BHEL from Customer DVC-BTPS**

28) **TAXES, DUTIES ETC**

- 28.1 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.
- 28.2 All taxes excluding Service Tax (including Swachh Bharat Cess & Krishi Kalyan Cess) & BOCW Cess (dealt separately in Tender) but including, Charges, Royalties, Duties, Octroi, Entry Tax, any other Cess, any State or Central Levy and other Taxes for materials obtained for the work and for the execution of the contract shall be borne by you and shall not be payable extra.

Any increase of the same at any stage during execution including extension of the contract shall have to be borne by the contractor. Quoted/ accepted rates/ price shall be inclusive of all such requirements after taking the Input Credit, if any, as per provisions of the State VAT Act.

- 28.3 **Way Bill:** No way Bill will be provided by BHEL for bringing materials from any outside State to Jharkhand State

The Bidder has to make their own arrangement at their cost for completing the formalities, if required, with State VAT Act Authorities, for bringing their 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. The contractor must be a Registered Dealer with the Sate VAT Act, if not registered yet and a copy of the said Registration Certificate along with TIN number must be provided to site RAO/ BHEL.

28.4 SERVICE TAX

- 28.4.1 Service tax along with a Swachh Bharat Cess and Krishi Kalyan Cess as legally leviable & payable by the Contractor , Vide Sec-65B (44) ,shall be paid by BHEL on contractors gross bill and production of GAR-7 Challan.
- 28.4.2 The Bidder shall issue invoice complying with **Rule 4A of the Service Tax Rules 1994**. The invoice shall indicate the name, address and the registration number (PAN Based STC No.) of the Bidder; the name and address and the registration number(_AAACB4146PST005) of BHEL; the description and value of taxable service provided; and the service tax payable thereon by the Bidder
- 28.4.3 You shall furnish proof of Service Tax registration (**ST-2**) with Central Excise Division covering the Services . Registration should also bear endorsement for the premises from where the billing shall be done by you on BHEL for this Project
- 28.4.4 BHEL will not be held to be responsible for non-compliance of various Service Tax Rules, being framed from time to time
- 28.4.5 Point of Taxation Rule, 2011 has come into operation from 01-04-2011. As per the rule Invoice must be generated within 30 days from the date of completion of service. In such case, the date of invoice will be the relevant date. However, if the invoice is not generated within 30 days as stated above, the date of completion of service shall be the relevant date.
- 28.4.6 With introduction of Cenvat Credit Rules, 2004 which came into force wef 10-09-04, Excise Duty paid on input goods including capital goods used for providing the output service and Service Tax paid on Input Service can be taken credit of against the Service Tax payable on output service. As such, while offering the rates, the successful bidder may take into account the benefit of above provisions, as the cost of input to the successful bidder will be net of Excise Duty and Service Tax and adjust their offer price accordingly to make it more competitive.
- 28.4.7 Vendors must take adequate care and cautions w.r.t "Point of Taxation Rule,2012" as otherwise both the Vendors (for non-compliance) and BHEL (unable to take Credit on Input Services, resulting in extra fund flow in that particular month) will suffer.
- 28.5 Any New taxes & duties, if imposed subsequent to due date of offer submission as per NIT & TCN, by statutory authority during contract period (including extension, if the same is not attributable to you), shall be reimbursed by BHEL on production of relevant supporting document to the satisfaction of BHEL. However, you shall obtain prior approval from BHEL before depositing new taxes and duties.
Benefits and/or abolition of all existing taxes must be passed on to BHEL against new Taxes, if any, proposed to be introduced at a later date.

-----X-----

Annexure –BOCW

Specific clause wrt BOCW Act & Cess Act

1. It shall be the sole responsibility of the contractor as employer to ensure compliance of all the statutory obligations under the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 and the Building and other Construction Workers' Welfare Cess Act, 1996 and the rules made thereunder.
2. It shall be sole responsibility of the contractor engaging Building Workers in connection with the building or other construction works in the capacity of employer to apply and obtain registration certificate specifying the scope of work under the relevant provisions of the Building and Other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 from the appropriate Authorities.
3. It shall be responsibility of the contractor to furnish a copy of such Registration Certificate within a period of one month from the date of commencement of Work.
4. It is responsibility of the contractor to register under the Building and other Construction Workers' Welfare Cess Act, 1996 and deposit the required Cess for the purposes of the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 at such rate as the Central Government may , by notification in the Official Gazette, from time to time specify. However, before registering and deposit of Cess under the Building and other Construction Workers' Welfare Cess Act, 1996, the contractor will seek written prior approval from the Construction Manager.
5. In case where the contractor has been accorded written approval by the Construction Manager and the contractor is required to furnish information in Form I and deposit the Cess under the Building and other Construction Workers' Welfare Cess Act, 1996, fails to do so, BHEL reserves right to impose penalty at the rate of 30% of Cess Amount.
6. It shall be sole responsibility of the contractor as employer to get registered every Building Worker, who is between the age of 18 to 60 years of age and who has been engaged in any building or other construction work for not less than ninety days during the preceding twelve months as Beneficiary under the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996.
7. It shall be sole responsibility of the contractor as employer to maintain all the registers, records, notices and submit returns under the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 and the Building and other Construction Workers' Welfare Cess Act, 1996 and the rules made thereunder.
8. It shall be sole responsibility of the contractor as employer to provide notice of poisoning or occupation notifiable diseases, to report of accident and dangerous occurrences to the concerned authorities under the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 and the rules made thereunder and to make payment of all statutory payments & compensation under the Employees' Compensation Act, 1923.

Annexure –BOCW

Specific clause wrt BOCW Act & Cess Act

9. It shall be responsibility of the Contractor to furnish BHEL on monthly basis, Receipts/ Challans towards Deposit of the Cess under the Building and other Construction Workers' Welfare Cess Act, 1996 and the rules made thereunder along with following statistics :
 - (i) Number of Building Workers employed during preceding one month.
 - (ii) Number of Building workers registered as Beneficiary during preceding one month.
 - (iii) Disbursement of Wages made to the Building Workers for preceding wage month.
 - (iv) Remittance of Contribution of Beneficiaries made during the preceding month
10. BHEL shall reimburse the contractor the Cess amount deposited for the purposes of the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 under the Building and other Construction Workers' Welfare Cess Act, 1996 and the rules made thereunder. However, BHEL shall not reimburse the Fee paid towards the registration of establishment, fees paid towards registration of Beneficiaries and Contribution of Beneficiaries remitted.
11. It shall be responsibility of the Building Worker engaged by the Contractor and registered as a beneficiary under the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 to contribute to the Fund at such rate per mensem as may be specified by the State government by notification in the Official Gazette. Where such beneficiary authorizes the contractor being his employer to deduct his contribution from his monthly wages and to remit the same, the contractor shall remit such contribution to the Building and other construction Workers' Welfare Board in such manner as may be directed by the Board , within the fifteen days from such deduction.
12. If any point of time during the contract period, non-compliance of the provisions of the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 and the Building and other Construction Workers' Welfare Cess Act, 1996 and the rules made thereunder is observed, BHEL reserves the right to withhold a reasonable amount from the payables to discharge any obligations on behalf of Contractors. The reasonable amount shall be decided by the Construction Manager in consultation with Resident Accounts Officer & Head HR and shall be final.
13. The contractor shall declare to undertake any liability or claim arising out of employment of building workers and shall indemnify BHEL from all consequences / liabilities / penalties in case of non compliance of the provisions of the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 and the Building and other Construction Workers' Welfare Cess Act, 1996 and the rules made thereunder.

ANNEXURE-IA

ESSENTIAL CONDITIONS TO BE FULFILLED BY SUCCESSFUL BIDDER

01. Successful bidder has to prepare and submit every month two copies of Maintenance reports, two copies of PERT/BAR chart on advance Maintenance Activities, two copies of equipment history reports, two copies of Monthly work-men payment sheets along with PF deposition details and other reports which will include necessary data / MOMs / important correspondences / log sheets etc. as desired by BHEL Engineer-in-charge.
02. Bidder has to arrange to provide PC with internet connection, with colour printer and Xerox paper as required for taking print out compatible with WINDOW vista version or, latest version loaded with necessary software, during entire period of execution of job at site , for preparing /maintaining / up keeping of various correspondences/ protocols/log sheets. etc. . PC shall be operated by PC operator conversant with AUTOCAD and other softwares to be arranged by the successful bidder within the scope. All data thus stored during the execution of job shall be transferred to hard disc, (8 GB capacity) and handed over to Resident Manager at site for submission to Customer. In case vendor fails to provide the PC operator, Rs 8000/- per month shall be deducted from vendor's bill.
03. Process control of Special Processes like Welding and Heat Treatment if applicable shall be carried by successful bidder as per Doc. Nos. PSER:QLY:001:99, PSER:QLY:001:94 (3 VOL) and PSER:QLY:003:99.
04. Proper segregation, identification, tagging and up-keep of all dismantled items at work site during job execution have to be done by successful bidder.
05. Successful bidder is to obtain necessary "No Dues" certificates before de-mobilisation from site.
06. Successful bidder is to comply with all the statutory and regulatory norms, rules and practices as applicable for the job/site.
07. Successful bidder shall provide valid calibration certificates for IMTEs, fitness certificates for T&Ps and Construction Equipment (e.g. wire ropes, hand operated chain pulley blocks, pulling and lifting machines, electric welding generators, arc welding transformers etc.). Calibration of IMTEs is to be arranged from the accredited agencies. Calibration certificates should have the traceability as per national/international standards. At work site the IMTEs, T&Ps and Construction Equipment shall be checked/tested/inspected by BHEL engineers. The procedure for fitness testing and storage preservation and maintenance of Construction Equipment and T&Ps shall be as per Doc. Nos. PSER:FEX:001:94, PSER:SAS(CAL):016:95 and PSER:FEX:002:94 available with BHEL site engineers.
08. Successful bidder should follow all safety norms at work site. The Doc. No. PSER:PMX:004:94 in this regard is available with BHEL engineer at site.
09. Any NDT within the scope shall be as per Non-Destructive Examination manual (Doc. No. PSER:QLY:002:99 available with BHEL site engineer.
10. Unless otherwise mentioned specifically in this tender elsewhere, the storage & preservation of components, sub-assemblies, IMTEs, T&Ps, Construction Equipments etc, maintenance of stores, watch and ward of stores and BHEL site office is in the scope of the successful bidder.
Note:Any of the documents mentioned above can be referred before submission of tender at the office of PSER:SAS(KOL).

11. The successful bidder is to arrange a full set of First Aid kit for attending to manpower deployed by him at site as per requirement.
12. The successful bidder is to arrange extra illumination at work site to augment the existing site illumination if required to enable round-the-clock safe working.

ANNEXTURE-II

The list of T & P are provided hereunder to be mobilized by the contractor within three days from date of intimation by BHEL. These will be physically verified by BHEL site Engineer. BHEL has the authority to penalize the contractor suitably including termination of contract if the required T&P's are not mobilized timely. However, it may be noted that the T&P list is only a guide for bidding and any other T&P as may be required for the job has to be mobilized by the successful bidder.

INDICATIVE LIST OF T&P ITEMS

Sl. No.	Item Description	Quantity
1	Dial gauges accuracy 0.01 mm with magnetic stand	10 No
2	Varnier Calliper , 15 cm and 30 cm length accuracy 0.05 mm / metre	2 each
3	Micrometer (Inside & Outside) (0-300mm, 300-400mm, up to 600 mm) (Mitutoyo make)	2 Set
4	Filler gauges 100 mm,200 mm,300 mm long	1 set each
5	Spirit level gauge 15 cm length accuracy 0.05 mm / metre	3 No.
6	Vibration Measuring Instrument (IRD-306 or equivalent)	1 No.
7	Steel rule 30cm length	3 No
8	Steel rule – 100 cm and 150 mm length	3 No each
9	Measuring steel tape 3m	4 Nos
10	Dewatering pump	4 nos
11	Hand pump for oil transfer	2 no.
12	Welding machine 100 m cable with welding helmet, electrode holder	5 set
13	Gas cutting set consisting of DA-O2 regulator, 75M hose, cutting torch	3 set
14	Heating torch with accessories	3 Set
15	Rigid grinder, Flexible grinder	3 each
16	A.G grinder (AG-5, AG-7)	3 each
17	Hand drilling machine	2 No
18	Drill machine with magnetic base	1 No.
19	Drill bit set upto 24mm	1 Set
20	Different tap thread up to 39 mm	1 set each
21	Double end ring spanner for preferred metric up to 41 mm	4 set
22	Double end open jaw spanner preferred metric up to 41 mm	4 Set
23	Single end De spanner 41 to 70 mm	4 Set
24	Slugging Spanner 30 to 95 mm	4 Set
25	General purpose socket set (metric, preferred) 8 to 32 mm	3 set
26	Box spanner 50 mm, 55mm	3 Set each
27	Slide wrench 200 mm, 300 mm	3 No. each
28	Pipe wrench 150, 350 and 450 mm	3 No. each
29	Allen Key (metric preferred) up to 24 mm	3 set
30	Hammer 1 to 1.5 kg	4 no.
31	Sledge hammer 4 to 7 kg	3 NO
32	Chisel	3 No
33	Copper rod (dia 60 to 80 mm, length > 300 mm)	03 no
34	Screw driver of different sizes	4 Set
35	Circlip pliers (External & internal of 03 different sizes).	Each size 02 No.
36	Hacksaw frame	4 No

37	Shim cutter	3 No
38	Punch	3 Set
39	Oil stone (rough & smooth)	3 No
40	Rough and smooth file set (round, half round, triangular)	3 Set
41	Needle file	03 set
42	Chain pulley : 1 Ton	3 No.
43	Chain pulley : 3 Ton	3 No.
44	Chain pulley : 5 Ton	3 No.
45	Chain pulley : 10 Ton	2 No
46	Hook Chuck 1T, 2T	2 Nos each
47	Wire rope sling, D-Shackle (5T, 10T)	As required
48	Manila rope 25 mmX30 mtrs.	3 Nos
49	Grease gun, Grease pump	3 Nos
50	24V hand lamp with wire of length 05m and bulb	04 nos
51	Torch lite with batteries	04 Nos
52	Safety Hand lamp	6 Nos
53	Bearing/gear pullers of different sizes (small)	2 set
54	Jar can	4 Nos
55	DC light set	02 No.
56	flood light set with GSL/Halogen lamp	04 Nos
57	High pressure air hose 30 mtr.	3 nos.
58	Extension board (5A)	10 Nos
59	Extension board (15A)	04 Nos
60	Ladder as per requirement of work	1 No
61	Hand trolley for transportation of spares and tools	3 nos.
62	Hydraulic jack 100 Ton	2 nos.
63	Hydraulic jack 50 Ton	2 nos.
64	Hydraulic jack 25 Ton	2 nos.
65	Plasma cutting arc machine	01 No.
66	Torque Wrench	01 no.

Note:-The item and quantities mentioned in the list is indicative, the party should keep required quantity of these T&Ps at site for smooth execution of the job. If it is felt that other T&P s (not mentioned in the list) in relation to job are also required to be kept at site for execution of job, the party shall have to arrange the same at their own cost.

Annexure-III

FACILITIES TO BE PROVIDED TO VENDOR/ CONTRACTOR BY DVC/BHEL AT SITE [DVC BOKARO]

- a. Source of water and Compressed air supply for the plant shall be provided. However, the contractor shall arrange connecting hoses/materials from sources of water/compressed air.
- b. The Electrical power source in the vicinity will be made available by BHEL/DVC. However, vendor has to arrange own suitable cable along with junction box of suitable capacity Temporary illumination and power connection required for execution of the job shall be arranged by the contractor.
- c. Space for Office for contractor Supervisors/ Technicians with local telephone facility (if available) for effective maintenance work of the plant. However, office room to be arranged by contractor
- d. Space (only) for lockable store room for contractor's T&P storage.
- e. Spares, plates and structural materials for fabrication – repair-of spares, Special T&P, and lubricants will be provided to vendor. However, vendor has to arrange the necessary transportation of the same.
- f. Necessary drawing/manuals/erection & commissioning data as available at site may be provided.

HSE & OHSAS

1.0	OCCUPATIONAL HEALTH, SAFETY & ENVIRONMENT MANAGEMENT/ QUALITY ASSURANCE PROGRAMME : BHEL, Power Sector Regions (PSNR/ER/WR/SR) are each certified for ISO 9001. Quality of work to customer's satisfaction and fulfillment of system requirements are the essence of ISO 9001 certification. BHEL, PS Region have HSE certification (ISO 14001 & OHSAS 18001) and therefore Contractor also shall organize / plan/ perform all their activities to meet with the applicable requirements of these standards.
1.1	HSE (Health, safety & Environment): Contractor will comply with HSE (Health, safety & Environment) requirements of BHEL. HSE requirements in brief, are given below :-
1.1.1	Contractor will nominate one of their qualified and experienced employees as Safety Officer, who will be responsible for all HSE related issues of contractors work area. Safety Officer will have authority to stop any activity, in case he observes that the activity is not being carried out in safe manner. He will conduct surprise inspection as well as periodic inspection/drill (at least once in a Week) and submit such reports to BHEL. He will conduct periodic meetings with working groups and explain HSE issues and use of PPEs to them. Reports of such meetings will be submitted to BHEL. Contractor will develop suitable work procedures based upon HSE guidelines and OCPs and implement it. Such work procedures will consist of Area of work, T&P Details, Work Procedure, PPE requirements etc. Contractor should highlight the requirement of safety to staff and labour through daily tool box meeting before start of the days job
1.1.2	The contractor shall ensure that proper job specific health check-up is done by medical professional for their employees during initial mobilization and thereafter if there is any change of job.
1.1.3	Following personnel protective equipments (PPEs), in adequate numbers, will be made available at site & their regular use by all concerned will be ensured :- - HELMET - SAFETY GOGGLES & WELDING FACE SHIELDS - SAFETY BELTS AND PROTECTIVE NET FOR WORKING AT HEIGHT - SAFETY SHOES - EAR PLUG - ANY OTHER SAFETY EQUIPMENT REQUIRED FOR SAFE COMPLETION OF THE WORK

HSE & OHSAS

1.1.4	Providing appropriate First Aid facilities for prompt treatment of injuries and illness at work place. Arranging training to contractor workmen/ employees for giving first aid.
1.1.5	Arranging ambulance in case of any emergency situation .
1.1.6	Identification of nearest hospital and health check-up of workmen/employees
1.1.7	Providing filtered drinking water at work place in cool container.
1.1.8	Providing appropriate fire fighting equipment at designated work place and nominate a fire officer/warden adequately trained for his job.
1.1.9	Identification of nearest fire station and display contact telephone nos. / person's name around work places for cases of emergencies .
1.1.10	Providing adequate no. of 24 V sources and ensure that no hand lamps are operating at voltage level above 24 Volts.
1.1.11	Fulfilling safety requirements at all power tapping points.
1.1.12	Red & White caution tape of proper width(1.5 to 2 inch) to be used for cordoning unsafe area such as open trench, excavation area etc.
1.1.13	Providing contractors company logo on cloths /uniform/ proper identity cards with photographs, for correct identification of people working at project site .
1.1.14	High/ Low pressure welders to be identified with separate colour clothings. No welders will be deployed without passing appropriate tests and holding valid welding certificates. Approved welding procedure should be displayed at work place.
1.1.15	Displaying safe handling procedures for all chemicals such as lube oil, acid, alkali, sealing compounds etc , at work place .
1.1.16	All scaffolding/ platforms should be made from materials of appropriate quality/grade so that these are safe for use. It should be certified/declared safe for use by an experienced contractor person, before any scaffolding/platform is used.
1.1.17	All T&Ps/ MMEs should be of reputed brand/appropriate quality & must have valid test/calibration certificates bearing endorsement from competent authority of BHEL.
1.1.18	Ensure that the regulatory requirement of excessive weight limit (to carry/lift/ move weights beyond prescribed limits) for male and female workers are complied with.
1.1.19	Safety slogan, Safety/ Caution boards , wherever required to be displayed in consultation with BHEL.

HSE & OHSAS

1.1.20	Take suitable measures for waste management and environment related laws/legislation as a part of normal construction activities. Compliance with the legal requirements on storage/ disposal of paint drums (including the empty ones), Lubricant containers, Chemical Containers, and transportation and storage of hazardous chemicals will be strictly maintained. Ensure proper cleanliness of work place, housekeeping and waste management (including proper waste disposal) on daily basis.																				
1.1.21	The Contractor is required to provide proper safety net systems where ever the hazard of fall from height is present as per instruction of BHEL Engineer. The safety nets shall be fire resistant, duly tested and shall be of ISI Mark and the nets shall be located as per site requirements to arrest or to reduce the consequences of a possible fall of persons working at different heights.																				
1.1.22	<p>All applicable OCPs (Operational control procedures) will be followed by contractor as per BHEL instructions. This will be done as part of normal scope of work. List of such OCPs is given below . In case any other OCP is found to be applicable during the execution of work at site, then contractor will follow this as well, within quoted rate. These OCPs (applicable ones) will be made available to contractor during work execution at site. However for reference purpose, these are kept with Safety Officer of BHEL at the Power Sector Regional HQ, or available in downloadable format in the website, which may be refereed by contractor, if they so desire.</p> <table border="1"> <tr><td><input type="checkbox"/></td><td>OCP for safe handling of chemicals</td></tr> <tr><td><input type="checkbox"/></td><td>OCP for Electrical safety</td></tr> <tr><td><input type="checkbox"/></td><td>OCP for energy conservation</td></tr> <tr><td><input type="checkbox"/></td><td>OCP for safe welding and gas cutting operation</td></tr> <tr><td><input type="checkbox"/></td><td>OCP for fire safety</td></tr> <tr><td><input type="checkbox"/></td><td>OCP for safety in use of hand tools</td></tr> <tr><td><input type="checkbox"/></td><td>OCP for first aid</td></tr> <tr><td><input type="checkbox"/></td><td>OCP for food safety at canteen</td></tr> <tr><td><input type="checkbox"/></td><td>OCP for safety in use of cranes</td></tr> <tr><td><input type="checkbox"/></td><td>OCP for storage and handing of gas cylinders</td></tr> </table>	<input type="checkbox"/>	OCP for safe handling of chemicals	<input type="checkbox"/>	OCP for Electrical safety	<input type="checkbox"/>	OCP for energy conservation	<input type="checkbox"/>	OCP for safe welding and gas cutting operation	<input type="checkbox"/>	OCP for fire safety	<input type="checkbox"/>	OCP for safety in use of hand tools	<input type="checkbox"/>	OCP for first aid	<input type="checkbox"/>	OCP for food safety at canteen	<input type="checkbox"/>	OCP for safety in use of cranes	<input type="checkbox"/>	OCP for storage and handing of gas cylinders
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<input type="checkbox"/>	OCP for safety in use of cranes																				
<input type="checkbox"/>	OCP for storage and handing of gas cylinders																				

HSE & OHSAS

<input type="checkbox"/>	OCP for manual arc welding
<input type="checkbox"/>	OCP for safe use of helmets
<input type="checkbox"/>	OCP for good house keeping
<input type="checkbox"/>	OCP for working at height
<input type="checkbox"/>	OCP for safe excavation
<input type="checkbox"/>	OCP for safe filling of Hydrogen in cylinder
<input type="checkbox"/>	OCP for illumination
<input type="checkbox"/>	OCP for handling and erection of heavy metals
<input type="checkbox"/>	OCP for safe acid cleaning
<input type="checkbox"/>	OCP for safe alkali boil out
<input type="checkbox"/>	OCP for safe oil flushing
<input type="checkbox"/>	OCP for steam blowing
<input type="checkbox"/>	OCP for safe working in confined area
<input type="checkbox"/>	OCP for safe operation of passenger lift, material hoists & cages
<input type="checkbox"/>	OCP for Vehicle maintenance
<input type="checkbox"/>	OCP for safe radiography
<input type="checkbox"/>	OCP for waste disposal
<input type="checkbox"/>	OCP for working at night
<input type="checkbox"/>	OCP for blasting
<input type="checkbox"/>	OCP for DG Set
<input type="checkbox"/>	OCP for handling & storage of mineral wool
<input type="checkbox"/>	OCP for drilling, reaming and grinding(machining) etc.
<input type="checkbox"/>	OCP for hydraulic test
<input type="checkbox"/>	OCP for spray insulation
<input type="checkbox"/>	OCP for trial run of rotary equipment
<input type="checkbox"/>	OCP for stress relieving
<input type="checkbox"/>	OCP for material preservation
<input type="checkbox"/>	OCP for cable laying/tray work
<input type="checkbox"/>	OCP for electrical maintenance
<input type="checkbox"/>	OCP for transformer charging
<input type="checkbox"/>	OCP for safe handling of battery system
<input type="checkbox"/>	OCP for computer operation
<input type="checkbox"/>	OCP for storage in open yard
<input type="checkbox"/>	OCP for sanitary maintenance
<input type="checkbox"/>	OCP for batching
<input type="checkbox"/>	OCP for piling rig operation
<input type="checkbox"/>	OCP for gas distribution test

HSE & OHSAS

	<input type="checkbox"/> OCP for cleaning of hotwell / deaerator <input type="checkbox"/> OCP for electro-resistance heating <input type="checkbox"/> OCP for compressor operation <input type="checkbox"/> OCP for O&M of control of AC plant & system <input type="checkbox"/> OCP for air compressor <input type="checkbox"/> OCP for passivation <input type="checkbox"/> OCP for Safe EDTA Cleaning <input type="checkbox"/> OCP for Safe Chemical cleaning of Pre boiler system <input type="checkbox"/> OCP for Safe Boiler Light up <input type="checkbox"/> OCP for Safe Rolling and Synchronisation
1.2	<input type="checkbox"/> OCP for Safe Loading of Unit SAFETY AND CLEANLINESS : The contractor shall take all necessary safety precautions and arrange for appropriate appliances as per discretion of BHEL or its authorised officials (Site Construction Manager) to prevent loss of human lives, injuries, to personnel engaged and damage to property. Before commencing the work, the contractor shall submit a "Safety Plan" to the above authorised BHEL official and obtain approval on the same. The safety plan shall indicate in detail the measures that would be taken by the contractor to ensure safety of men, equipment, materials and environment during execution of the work. This will also include an organization structure, role and responsibilities of the concerned key personnel, the safety practices that will be followed, PPEs deployed, plan for
1.3	handling critical activities and emergencies. If the contractor fails to take appropriate safety precautions or to provide necessary safety devices and equipment or to carry out instructions issued by the authorised BHEL official, BHEL shall have the right to take corrective steps at the risk and cost of the contractor.
1.4	During the course of construction, alternation or repairs, scrap with protruding nail, sharp edge etc and all other debris shall be kept clean from working areas, passage, ways and stairs in and around site.
1.5	Combustible scrap and debris shall be removed at regular intervals during the course of execution. Safe means shall be provided to facilitate such removal. The combustible scrap should be stored in safe place away from the plant materials to avoid fire accidents. The area shall be chosen in consultation with the Engineer and to be cordoned off.
1.6	Rigging equipment for materials handling shall be inspected prior to use in each shift and as necessary during its use to ensure that it is safe. Defective

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	rigging equipment will be removed from service.
1.7	Rigging equipment shall not be loaded in excess of its recommended safe working load. Rigging equipment, when not in use, shall be removed from the original work area so as not to present a hazard to employees.
1.8	Contractor shall notify the engineer, of his intention to bring on to site any equipment or any container, with liquid or gaseous fuel or other substance which may create a hazard. The Engineer shall have the right to prescribe the condition under which such equipment or container may be handled and used during the performance of the works and the contractor shall strictly adhere to such instructions. The Engineer shall have the right to inspect any construction tool and to forbid its use, if in his opinion it is unsafe. No claim due to such prohibition will be entertained.
1.9	Where it is necessary to provide and/or store petroleum products or petroleum mixture & explosives, the contractor shall be responsible for carrying out such provision / storage in accordance with the rules & regulations laid down in the relevant petroleum act, explosive act and petroleum and carbide of calcium manual, published by the chief inspector of explosives of India. All such storage shall have prior approval if necessary from the chief inspector of explosives or any other statutory authority. The contractor shall be responsible for obtaining the same.
1.10	Cylinders shall be moved by tilting and rolling them on their bottom edges. They shall not be intentionally dragged, struck or permitted to strike each other violently.
1.11	When cylinders are transported by powered vehicle they shall be secured in a vertical position.
1.12	All workmen of the contractor working on construction area shall wear safety shoes, hand gloves, safety helmets and safety belt as applicable. The contractor shall provide to its workforce and ensure the use of following personnel protective equipment as found necessary and as directed by BHEL.
1.12.1	Safety Helmets conforming to IS-2965 : 1984
1.12.2	Safety Belts conforming to IS-3521:1983
1.12.3	Safety Shoes conforming to IS-1989 : 1978
1.12.4	Eye and face protection devices conforming to IS – 8620 : 1977 & IS – 8950 : 1978.

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1.12.5	Hand and body protection devices conforming to IS – 2575 : 1975 and IS – 6994 : 1973, IS – 8907 : 1970 & 8619 : 1977
1.13	The contractor shall insure his workmen against all accidents and the policy shall be presented to BHEL Engineer on demand. Other wise, BHEL will arrange the same and the expenditure towards this will be debited to the contractor. In case of a fatal or disabling injury accident to any person at construction site due to lapses by the contractor, the victim and/or his/her dependants shall be compensated by the contractor as per statutory requirements. However, if considered necessary BHEL shall have the right to impose appropriate financial penalty on contractor and recover the same from payments due to the contractor for suitably compensating the victim and/or his/her dependence before imposing any such penalty. Appropriate enquiry shall be held by BHEL giving opportunity to the contractor for presenting his case. Above safety conditions are not exhaustive but gives an idea for the contractor and contractor shall adhere to all safety precaution given by the Engineer at site.
1.14	The contractor shall arrange at his cost adequate lighting facilities e.g. flood lighting, hand lamps, area lighting etc. at various levels for safe and proper working operations during night hours at the work spot as well as at the pre-assembly area.
1.15	The contractor shall be responsible for provision of all the safety notices and safety equipment as enjoined on him by the application of relevant statutory regulation / provisions and/or as called upon by BHEL from time to time. He shall be held responsible for any violation of statutory regulations (local, state or central) and BHEL instruction that may endanger safety of men, equipment and material.
1.16	The contractor shall provide temporary fencing wherever required as a safety measure against accident and damage to properties. Suitable caution notices shall be displayed where access to any part is found to be unsafe and hazardous.
1.17	Contractor shall ensure safety of all the workmen, material and equipment either belonging to him or to others working at site. He shall observe safety rules and codes applied by BHEL without exception.
1.18	It will be the responsibility of the contractor to ensure safe lifting of the equipment, taking due precaution to avoid any accident and damage to other equipment and personnel. All requisite tests and inspection of handling

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	equipment, tools & tackle shall be periodically done by the contractor. Defective equipment shall be removed from service. Any equipment shall not be loaded in excess of its recommended safe working load.
1.19	The contractor shall provide necessary first aid facilities for all his employees, representatives and workmen at site and BHEL shall have no obligation in this regard. The first aid boxes should be placed at various elevations so as to make them available within the reach and at the quickest possible time. The contractor should conduct periodical first –aid classes to keep his supervisor and Engineers properly trained for attending to any emergency.
1.20	All the contractor's supervisory personnel and sufficient number of workers shall be trained for fire protection systems. Enough number of such trained personnel must be available during the tenure of contract. Contractor should nominate his supervisor to coordinate and implement the safety measures.
1.21	Contractor shall provide enough fire protecting equipment of the types and numbers at his office, stores, temporary structure in labour colony etc. Such fire protection equipment shall be easy and kept open at all times. The fire extinguishers shall be properly refilled and kept ready which should be certified at periodic intervals. The date of changing should be marked on the Cylinders. All other fire safety measures as laid down in the "codes for fire safety at construction site" issued by safety coordinator of BHEL shall be followed. Non-compliance of the above requirement under fire protection shall in no way relieve the contractor of any of his responsibility and liabilities to fire accident occurring either to his materials or equipment or those of others.
1.22	The contractor shall at his cost, remove from vicinity of work at least once each day all combustible waste, scrap, painting materials, rubbish, unused or other materials and deposit them in places specified by BHEL to keep the work site clear and tidy. Use of undercoated canvas paper, corrugated paper, fabricated carton, plastic or other flammable materials shall be restricted to the minimum and promptly removed.
1.23	The contractor shall not use any hand lamp energized by Electric power with supply voltage of more than 24 volts in confined spaces like inside water boxes, turbine casings, condensers etc.
1.24	All portable electric tools used by the contractor shall have safe plugging system to source of power and be appropriately earthed. Only electricians licensed by appropriate statutory authority shall be employed by the contractor to carry out all types of electrical works.

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1.25	In case of any delay in completion of a job due to mishaps attributable to lapses by the contractor, BHEL shall have the right to recover cost of such delay from the payments due to the contractor, after notifying the contractor suitably.
1.26	Valve protection caps shall be kept in place and secured.
1.27	The contractor shall be responsible for the safe storage and handling of his radio-active sources as per BARC rules and regulations.
1.28	Tarpaulin being inflammable should not be used (instead, only non infusible covering materials shall be used) as protective cover while preheating, welding, stress relieving etc. at site.
1.29	If the contractor fails to improve the standards of safety in its operation to the satisfaction of BHEL after being given reasonable opportunity to do so and/or if the contractor fails to take appropriate safety precautions or to provide necessary safety devices and equipment or to carry out instruction regarding safety issued by BHEL, BHEL shall have the right to take corrective steps at the risk and cost of the contractor after giving a notice of not less than 7 days indicating the steps that would be taken by BHEL.
1.30	If the contractor succeeds in carrying out its job in time with out any fatal or disabling injury accident and without any damage to property BHEL may, at its sole discretion, favorably consider to reward the contractor suitably for the performance.
1.31	The contractor shall carefully follow the safety requirement of BHEL/ the purchaser with the regard to voltages used in critical areas.
1.32	The contractor shall use only properly insulated and armored cables which conform to the requirement of Indian Electricity Act and Rules for all wiring, electrical applications at site. BHEL reserves the right to replace any unsafe electrical installations, wiring, cabling etc. at the cost of the contractor. All electrical appliances used in the work shall be in good working condition and shall be properly earthed. No maintenance work shall be carried out on live equipment. The contractor shall maintain adequate number of qualified electricians to maintain his temporary electrical installations.
1.33	The contractor shall arrange adequate number of persons specifically for clearing any debris and for house keeping of the erection area including restacking of components in the erection areas.

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1.34	In case of any damage to property due to lapses by the contractor, BHEL shall have the right to recover the cost of such damages from the contractor after holding an appropriate enquiry.
1.35	The contractor shall submit report of all accidents, fires and property damage etc to the Engineer immediately after such occurrence, but in any case not later than 24 hours of the occurrence. Such reports shall be furnished in the manner prescribed by BHEL. In addition periodic reports on safety shall also be submitted by the contractor to BHEL from time to time as prescribed by the Engineer.
1.36	Before commencing the work, the contractor shall appoint/nominate a responsible person to supervise implementation of all safety measures and liaison with his counterpart of BHEL.
1.37	Suitable scaffolds shall be provided for workman for all works that cannot safely be done from the ground, or from solid construction except in the case of short duration of work which can be done safely from ladders. When a ladder is used, it shall be of rigid construction made of steel. The steps shall have a minimum width of 45 cm and a maximum rise of 30 cm. Suitable handholds of good quality wood or steel shall be provided and the ladder shall be given an inclination not steeper than $\frac{1}{4}$ horizontal and 1 vertical.
1.38	Scaffolding or staging more than 3.6 m above the ground floor, swung or suspended from an overhead support or erected with stationery support shall have a guard rail properly bolted, braced or otherwise secured, at least 90 cm above the floor or platform of such scaffolding or staging and extending along the entire length of the out side and ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying, from the building or structure.
1.39	Working platforms, gangways and stairways shall be so constructed that they do not sag unduly or unequally and if the height of the platform gangways provided is more than 3.6 m above ground level or floor level, they shall be closely boarded and shall have adequate width which shall not be less than 750 mm and be suitably fenced as described above.
1.40	Every opening in the floor or a building or in a working platform shall be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be 90 cm.

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1.41	Wherever there are open excavation in ground, they shall be fenced off by suitable railing and danger signals installed at night so as to prevent persons slipping into the excavations.
1.42	Safe means of access shall be provided to all working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9 m in the length while the width between side rails in rung ladder shall in no case be less than app. 29.2 cm for ladder upto and including 3 m in length. For longer ladders this width shall be increased at least ¼" for each additional foot of length.
1.43	A sketch of the ladders and scaffolds proposed to be used shall be prepared and approval of the Engineer obtained prior to Construction.
1.44	All personnel of the Contactor working within the plant site shall be provided with safety helmets. All welders shall wear welding goggles while doing welding work and all metal worker shall be provided with safety gloves. Persons employed on metal cutting and grinding shall wear safety glasses.
1.45	Adequate precautions shall be taken to prevent danger for electrical equipment. No materials on any of the sites of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public.
1.46	All trenches, four feet or more in depth, shall at all times be supplied with at least one ladder for each 30 m in length or fraction thereof. The ladder shall be extended from bottom of the trench to at least 90 cm above the surface of the ground. Sides of the trenches which are 1.50 m or more in depth shall be stepped back to give suitable slope or securely held by timer bracing, so as to avoid the danger of sides collapsing. The excavated materials shall not be placed within 1.5 m of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances undermining or undercutting shall be done.
1.47	The Contactor shall take all measures at the sites of the work to protect all persons from accidents and shall be bound to bear the expenses of defense of every suit, action or other proceeding at law that may be brought by any persons for injury sustained or death owing to neglect of the above precautions and to pay any such persons such compensation or which may with the consent of the Contractor be paid to compromise any claim by any such person should such claim proceeding be filed against BHEL, the Contractor hereby agrees to indemnify BHEL against the same.
1.48	Before any demolition work is commenced and also during the process of the

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	work the following shall be ensured:
1.48.1	All roads and open areas adjacent to the work site shall either be closed or suitably protected.
1.48.2	No electric cable or apparatus which is liable to be a source of danger nor a cable or an apparatus used by the operator shall remain electrically charged.
1.48.3	All practical steps shall be taken to prevent danger to persons employed from the risks of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render them unsafe.
1.49	All necessary personnel safety equipment as considered adequate by the Engineer should be kept available for the use of the persons employed in the Site and maintained in a condition suitable for immediate use and the Contactor should take adequate steps to ensure proper use of equipment by those concerned.
1.49.1	Workers employed on mixing asphalted materials, cement and lime mortars shall be provided with protective foot wear and protective goggles.
1.49.2	Those engaged in white washing and mixing or stacking of cement bags or any materials which is injurious to the eyes shall be provided with protective goggles.
1.49.3	Those engaged in welding works shall be provided with welder's protective eyesight lids.
1.49.4	Stone breakers shall be provided with protective goggles and protective clothing and seated sufficient to safe intervals.
1.49.5	Where workers are employed in sewers and manholes, which are in use, the Contractor shall ensure that the manhole covers are opened and ventilated at least for an hour before the workers are allowed to get into manhole, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public.
1.49.6	The Contractor shall not employ men below the age of 18 years and women on the work of painting with products containing lead in any form. Wherever men above the age of 18 are employed on the work of lead painting, the following precautions should be taken.
1.49.6.1	No paint containing lead or lead products shall be used except in the form of paste or ready made paint.

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1.49.6.2	Suitably face masks should be supplied for use by the workers where paints are applied in the form of spray or a surface having lead paint dry rubbed and scrapped.
1.49.6.3	Overalls shall be supplied by the Contractor to the workmen and adequate facilities shall be provided to enable the working painters to wash during the cessation of work.
1.50	When the work is being done near any place where there is risk of drowning all necessary equipment should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision should be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.
1.51	Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safe guards. Hoisting appliance should be provided with such means as will reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers employed on electrical installations which are already energized, insulting mats, wearing apparel, such as gloves, sleeves and boots as may be necessary should be provided. The worker should not wear any rings, watches and carry keys or other materials which are good conductor of electricity.
1.52	All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near the places of work.
1.53	The contractor shall maintain and ensure necessary safety measures as required for inspection and tests HV test, Pneumatic test, Hydraulic test, Spring test, Bend test etc as applicable, to enable. inspection Agency for performing Inspection. If any test equipment is found not complying with proper safety requirements then the Inspection Agency may withhold inspection, till such time the desired safety requirements are met.
1.54	The Contractor shall notify BHEL of his intention to bring to site any equipment or material which may create hazard. BHEL shall have the right to prescribe the conditions under which such equipment or materials may be handled and the contractor shall adhere to such instructions. BHEL may prohibit the use of any construction machinery, which according to him is unsafe. No claim for compensation due to such prohibition will be entertained by BHEL.

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1.55	All safety precautions shall be taken for welding and cutting operations as per IS-818. All safety precautions shall be taken for foundation and other excavation marks as per IS-3764.																						
1.56	These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The persons responsible for compliance of the safety code shall be named therein by the Contractor.																						
1.57	To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangement made by the contract shall be open to inspection by the Engineer of the Engineer's Representative.																						
1.58	Keeping the work area clean/ free from debris, removed scaffoldings, scraps insulation/sheeting wastage /cut pieces, temporary structures, packing woods etc. will be in the scope of the contractor. Such cleanings has to be done by contractor within quoted rate, on daily basis by an identified group. If such activity is not carried out by contractor / BHEL is not satisfied, then BHEL may get it done by other agency and actual cost alongwith BHEL overheads will be deducted from contractor's bill. Such decisions of BHEL shall be binding on the contractor.																						
1.59	<p>Notwithstanding the above clauses there is nothing to exit the Contractor from the operations of any other Act or Rule in force in area of work in this respect.</p> <p>Provided always that all safety measures apart from those specifically provided in this agreement which are brought to the notice of the Contractor from time to time by the Engineer shall be complied by the Contractor. Provided further that all consequences, damages, or losses arising by reason of any safety code shall be met with by the Contractor.</p>																						
1.60	<p><u>NON COMPLIANCE:-</u></p> <p>NONCONFORMITY OF SAFETY RULES AND SAFETY APPLIANCES WILL BE VIEWED SERIOUSLY AND BHEL HAS RIGHT TO IMPOSE FINES ON THE CONTRACTOR AS UNDER <u>for every instance of violation noticed:</u></p> <table border="1"> <thead> <tr> <th>SN</th><th>Violation of Safety Norms</th><th>Fine (in Rs)</th><th></th></tr> </thead> <tbody> <tr> <td>01</td><td>Not Wearing Safety Helmet</td><td>50/-</td><td></td></tr> <tr> <td>02.</td><td>Not wearing Safety Belt</td><td>100/-</td><td></td></tr> <tr> <td>03.</td><td>Grinding Without Goggles</td><td>50/-</td><td></td></tr> <tr> <td>04.</td><td>Not using 24 V Supply For Internal Work</td><td>500/-</td><td></td></tr> </tbody> </table>			SN	Violation of Safety Norms	Fine (in Rs)		01	Not Wearing Safety Helmet	50/-		02.	Not wearing Safety Belt	100/-		03.	Grinding Without Goggles	50/-		04.	Not using 24 V Supply For Internal Work	500/-	
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	05.	Electrical Plugs Not used for hand Machine	100/-
	06.	Not Slings property	200/-
	07.	Using Damaged Sling	200/-
	08.	Lifting Cylinders Without Cage	500/-
	09.	Not Using Proper Welding Cable With Lot of Joints And Not Insulated Property.	200/-
	10.	Not Removing Small Scrap From Platforms	200/-
	11.	Gas Cutting Without Taking Proper Precaution or Not Using Sheet Below Gas Cutting	200/-
	12.	Not Maintaining Electric Winches Which are Operated Dangerously	500/-
	13.	Improper Earthing Of Electrical T&P	500/-
	14.	Accident Resulting in Partial Loss in Earning Capacity	25,000/- per victim
	15.	Fatal Accident/Accidents Resulting in total loss in Earning Capacity	1,00,000/- per victim
	Any other non-conformity noticed not listed above will also be fined as deemed fit by BHEL. The decision of BHEL engineer is final on the above. The amount will be deducted from running bills of the contractor. The amount collected above will be utilized for giving award to the employees who could avoid accident by following safety rules. Also the amount will be spent for purchasing the safety appliances and supporting the safety activity at site.		
1.61	<u>CITATION:-</u> If safety record of the contractor in execution of the awarded job is to the satisfaction of safety department of BHEL, issue of an appropriate certificate to recognize the safety performance of the contractor may be considered by BHEL after completion of the job		
1.62	<u>MEMORANDUM OF UNDERSTANDING</u> After Award Of Work, Contractors Are Required To Enter Into A Memorandum Of Understanding As Given Below: <div style="text-align: center;"><u>Memorandum of Understanding</u></div> $\frac{3}{4}$ BHEL, Power Sector _____ Region is committed to Health, Safety and Environment Policy (EHS Policy). $\frac{3}{4}$ M/s _____ do hereby also commit to the same		

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	<p>EHS Policy while executing the Contract Number _____</p> <p>¾ M/s _____ shall ensure that safe work practices not limited to the above are followed by all construction workers and supervisors. Spirit and content therein shall be reached to all workers and supervisors for compliance.</p> <p>¾ BHEL will be carrying out EHS audits twice a year and M/s _____ shall ensure to close any non-conformity observed/reported within fifteen days.</p> <p>Signed by authorized representative of M/s -----</p> <p>Name :</p> <p>Place & Date:</p>
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ANNEXURE-VIIBHARAT HEAVY ELECTRICALS LTD.
POWER SECTOR EASTERN REGION
KOLKATAPRICE SCHEDULE (UNPRICED)

WORK: "SHORT TERM MAINTENANCE CONTRACT OF BOILER, MILLING SYSTEM AND TURBINE WITH THEIR AUXILIARIES AT UNIT-1, 500 MW, BOKARO TPS, DVC, JHARKHAND".

E-Tender No. PSER: PUR: BOK-S256:16 (ENQ:16:PP:0015:PUR:171) Date 18/03/2017.

PRICE: (TO QUOTE LUMP SUM AND FIRM PRICE IN WHOLE RUPEES ONLY IN INTERNATIONAL NUMERALS AND ENGLISH WORDS. BREAK UP NOT TO BE SHOWN UNLESS AND OTHERWISE SPECIFICALLY ASKED FOR.)

SL. NO.	DESCRIPTION OF WORK	QUANTITY	LUMP SUM AND FIRM PRICE FOR FOUR MONTHS (IN WHOLE RUPEES ONLY) INCLUDING ALL TAXES & DUTIES, BUT EXCLUDING SERVICE TAX, SWACHH BHARAT CESS, KRISHI KALYAN CESS & BOCW CESS.
			RS. (IN FIGURE)
1	<u>Main Job:</u> "SHORT TERM MAINTENANCE CONTRACT OF BOILER, MILLING SYSTEM AND TURBINE WITH THEIR AUXILIARIES AT UNIT-1, 500 MW, BOKARO TPS, DVC, JHARKHAND".	01 LOT	
	MONTHLY MAINTENANCE CHARGES FOR THE MAIN JOB SHALL BE DERIVED BY DIVIDING THE 04 MONTHS' LUMP SUM CHARGES BY 4 (FOUR).		
2	<u>Optional Jobs:</u> Rates for Optional Jobs shall be as per Annexure-I (Category-B & Category-C).		
3	Service Tax, Swachh Bharat Cess, Krishi Kalyan Cess & BOCW Cess shall be paid extra, as applicable.		

NOTE: EVALUATION OF BID SHALL BE BASED ON MAIN JOB ONLY ON "LUMP SUM AND FIRM PRICE FOR FOUR MONTHS (IN RS) INCLUDING ALL TAXES & DUTIES, BUT EXCLUDING SERVICE TAX, SWACHH BHARAT CESS, KRISHI KALYAN CESS & BOCW CESS". OPTIONAL JOBS SHALL NOT BE CONSIDERED FOR EVALUATION.

Very Important Note: Any other document (if uploaded by bidder) in Price Bid/ Schedule apart from tendered Price Schedule (Annexure-VII) shall not be taken into cognizance for evaluation of offer. Any Modification in Price schedule in any way by bidder is not acceptable & shall be considered as tampering of tender document.

SIGNATURE OF THE TENDERER & DATE:

NAME, DESIGNATION & SEAL:

BIDDER TO MENTION "QUOTED" OR "NOT-QUOTED" IN THE COLUMN OF MAIN JOB IN "LUMP SUM AND FIRM PRICE FOR FOUR MONTHS (IN WHOLE RUPEES ONLY) INCLUDING ALL TAXES & DUTIES, BUT EXCLUDING SERVICE TAX, SWACHH BHARAT CESS, KRISHI KALYAN CESS & BOCW CESS" ONLY.

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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	Banning across BHEL shall be imposed in following cases, if
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	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.

Note: Above shall be applicable along with **Guidelines for “Suspension of Business dealings with Suppliers/ Contractors”** 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 action 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*	

PROFORMA OF BANK GUARANTEE (in lieu of SECURITY DEPOSIT)

In consideration of the Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at BHEL House, Siri Fort, Asiad, New Delhi – 110049 through its Unit at Bharat Heavy Electricals Limited, Power Sector Eastern Region, BHEL Bhawan, Plot No 9/1, DJ Block, Sector-II, Salt lake City, Kolkata – 700091 having agreed to exempt (Name of the Vendor / Contractor / Supplier) having its registered office at _____¹ (hereinafter called the said Contractor which term includes supplier), from demand under the terms and conditions of the Contract reference No. _____² dated _____² valued at Rs.² (Rupees -----)² for <Nature of the Work>³ (hereinafter called the said Contract) of Security Deposit for the due fulfilment by the said contractor of the terms and conditions contained in the said Contract, on production of a Bank Guarantee for Rs. _____⁴ (Rupees _____ only), we _____ (indicate the name and address of the Bank) having its Head Office at _____ (address of the head Office) (hereinafter referred to as the Bank) at the request of _____ [Name of Contractor(s)] do hereby undertake to pay to the Employer an amount not exceeding Rs. _____ in the event of any breach by the said Contractor(s) of any of the terms and conditions contained in the said Contract.

We, _____ (indicate the name of the Bank), do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Employer. Any such demand made on the bank, shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this guarantee shall be a valid discharge of our liability for payment hereunder and the Contractor(s) shall have no claim against us for making such payment.

We, further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claim satisfied or discharged or till _____⁵ or till the office/Department/Division of Bharat Heavy Electricals Limited certifies that the terms and conditions of the said Contract have been fully and properly carried out by the said contractor(s) and also including the satisfactory performance of the equipment during guarantee period and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the _____⁶, (3 months more than the present date of validity of Bank Guarantee) we shall be discharged from all the liability under this guarantee thereafter.

We, _____ (indicate the name of the Bank) _____ further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said contractor(s) or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

We,..... BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....⁷
- b) This Guarantee shall be valid up to⁸
- c) Unless the Bank is served a written claim or demand on or before _____⁹ (3 months more than the present date of validity of Bank Guarantee) all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ (indicate the name of the Bank) _____ lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Any claim or dispute arising under the terms of this document shall only be enforced or settled in the courts of at Kolkata only.

Date _____ Day of _____
for _____ (indicate the name of the Bank) _____

(Signature of Authorised signatory)

¹ NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER .

² DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

³ PROJECT/SUPPLY DETAILS

⁴ BG AMOUNT IN FIGURES AND WORDS

⁵ VALIDITY DATE

⁶ DATE OF EXPIRY OF CLAIM PERIOD

⁷ BG AMOUNT IN FIGURES AND WORDS.

⁸ VALIDITY DATE

⁹ DATE OF EXPIRY OF CLAIM PERIOD

Note:

1. Units are advised that expiry of claim period may be kept 2/3 months after validity date.

2. In Case of Bank Guarantees submitted by Foreign Vendors-

- a. **From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- b. **From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
- b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter-Guarantee by Foreign Bank in favour of the Indian Bank (BHEL's Consortium Bank). It is

advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.

- b.2** In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
- b.3** The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.
- b.4** The BG should clearly specify that the demand or other document can be presented in electronic form.

BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at BHEL House, Siri Fort, Asiad, New Delhi – 110049 through its Unit at Bharat Heavy Electricals Limited, Power Sector Eastern Region, BHEL Bhawan, Plot No 9/1, DJ Block, Sector-II, Salt lake City, Kolkata – 700091 having awarded to (Name of the Vendor / Contractor / Supplier) having its registered office at _____¹ hereinafter referred to as the 'Contractor/Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated² valued at Rs.....² (Rupees -----)for <Nature of Work>³ (hereinafter called the 'Contract') and the Contractor having agreed to provide a Contract Performance Guarantee, equivalent to% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer a maximum amount Rs ----- (Rupees -----)⁴ without any demur, immediately on a demand from the Employer, .

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor/ Supplier in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the contractors/supplier shall have no claim against us for making such payment.

We thebank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Contractor/Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Contractor/Supplier and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor/Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Contractor/Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's liabilities.

This Guarantee shall remain in force upto and including.....⁵ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor/Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the⁶ (3 months more than the present date of validity of Bank Guarantee) we shall be discharged from all liabilities under this guarantee thereafter.

We, BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....⁷
- b) This Guarantee shall be valid up to⁸
- c) Unless the Bank is served a written claim or demand on or before⁹ (3 months more than the present date of validity of Bank Guarantee) all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

Any claim or dispute arising under the terms of this document shall only be enforced or settled in the courts of at Kolkata only.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

¹ NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

² DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

³ PROJECT/SUPPLY DETAILS

⁴ BG AMOUNT IN FIGURES AND WORDS

⁵ VALIDITY DATE

⁶ DATE OF EXPIRY OF CLAIM PERIOD

⁷ BG AMOUNT IN FIGURES AND WORDS.

⁸ VALIDITY DATE

⁹ DATE OF EXPIRY OF CLAIM PERIOD

Note:

1. Units are advised that expiry of claim period may be kept 2/3 months after validity date.

2. In Case of Bank Guarantees submitted by Foreign Vendors-

- a. From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- b. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1** In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank (BHEL's Consortium Bank). It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
 - b.2** In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.

- b.3** The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.
- b.4** The BG should clearly specify that the demand or other document can be presented in electronic form.

List of Consortium Banks *

	Nationalised Banks		Nationalised Banks
1	Allahabad bank	19	Vijaya Bank
2	Andhra bank		Public Sector Banks
3	Bank of Baroda	20	IDBI
4	Canara Bank		Foreign banks
5	Corporation bank	21	CITI Bank N.A
6	Central bank	22	Deutsche Bank AG
7	Indian Bank	23	The Hongkong and Shanghai Banking Corporation Limited
8	Indian Oversea Bank	24	Standard Chartered Bank
9	Oriental bank of Commerce	25	J P Morgan
10	Punjab National Bank		
11	Punjab & Sindh Bank		Private banks
12	State Bank of India	26	Axis Bank
13	State Bank of Hyderabad	27	The Federal Bank Limited
14	Syndicate Bank	28	HDFC
15	State Bank of Travancore	29	Kotak Mahindra Bank
16	UCO Bank	30	ICICI
17	Union Bank of India	31	Indusind Bank
18	United Bank of India	32	Yes Bank

* wef 22.03.2016

RTGS FORMAT

Form for getting payment through RTGS (Real Time Gross Settlement)

01. NAME OF VENDOR
02. ADDRESS
03. VENDOR'S BANK A/C NAME
04. VENDOR'S BANK A/C NO.
05. NAME OF BANK
06. NAME OF BRANCH
07. BRANCH PH. NO.
08. CITY
09. IFSC CODE OF THE BRANCH

THE CHARGES IF ANY FOR PAYMENT THROUGH RTGS MAY BE RECOVERED FROM THE BILL SUBMITTED BY US.

SIGNATURE OF AUTHORISED REPRESENTATIVE
OF VENDOR WITH DATE & SEAL

CONFIRMATION BY BANKER WITH
OFFICE SEAL

Note : Incorrect information will create accounting complications and payment will be delayed.

RTGS DETAILS OF BHEL-PSER FOR EFT BY BIDDER/CONTRACTOR

Form for getting payment through RTGS (Real Time Gross Settlement)

01. Name of Vendor **BHARAT HEAVY ELECTRICALS LTD.**
02. Address **~~BHEL~~ BHEL HOUSE, SIRI FORT, N. DELHI**
03. Vendors Bank A/c Name **BHARAT HEAVY ELECTRICALS LTD.**
04. Vendors Bank A/c No. **11107800029**
05. Name of Bank **STATE BANK OF INDIA**
06. Name of Branch **COMMERCIAL BR., SALT LAKE, SECTOR-V**
07. Branch Phone No. **KOLKATA**
08. City **033-23575666**
09. IFSC Code of the Branch **KOLKATA**
SBIN 0004289

The charges if any for payment through RTGS may be recovered from the Bill submitted by us.

Signature of Authorized Representative of Vendor
के. के. कोआरी / K. K. Coari
उप महाप्रबंधक (वित्त) / Dy. General Manager (Fin)
बी. एच. ई. एल. : पी.एस.ई.आर : कोलकाता - 700 091
BHEL: PSER / Kolkata-700 091

Confirmation by Banker
with office seal


Note : Incorrect information will create Accounting complications and payment will be delayed



**GENERAL & SPECIAL CONDITIONS
OF CONTRACT [FOR SERVICES JOB]**

**PSER
KOLKATA**

SECTION – I
Instructions to Tenderers
GENERAL INSTRUCTION TO TENDERERS

1.1 Submission of Tender in “Three Parts”.

- (1) Technical Tender : All particulars asked for from the Vendor except the Price Bid & E.M.D in an envelope.
- (2) EMD in a sealed envelope clearly superscribing on the envelope “E.M.D”, the Tender Number, Name of Work, addresses of Vendor and addressee. One time EMD holders needn't enclose this provided that proof of EMD remittance is enclosed in the technical tender.
- (3) Price Bid in the price schedule enclosed in the tender, in sealed envelope, clearly superscribing “Price Bid”, Tender Number, Name of Work, Name of the Vendor and addressee.

All the above “Parts” can be placed in an sufficiently large outer envelope for submission.

1.1.1a This Tender specification as a whole, duly furnishing the following details shall be duly signed and sent in a sealed cover superscribing :

TENDER		FOR
TENDER	SPECIFICATION	NO.
DUE ON _____		

1.1.1b DURATION OF JOB

1.1.1.1 Earnest Money Deposit.

1.1.1.2 Income Tax & Sales Tax Clearance Certificate.

1.1.1.3 Detailed organisation chart for manpower resources available with the tenderer and to be employed for the present jobs.

1.1.1.4 Time to be taken for commencement and completion of Work.

1.1.1.5 A list of experience as mentioned in the tender document.

1.1.1.6 The details of the present jobs being handled.

1.1.1.7 Certificate from the BHEL's scheduled Banks to establish financial capability of the tenderer as per format enclosed at annexure-I.

1.1.1.8 Attested copies of partnership deed, power of attorney and tender specifications duly signed as mentioned in the tender documents.

1.1.1.9 Price schedule and other relevant information.

NOTE: All Xerox copies enclosed by the Vendor should be attested and sealed for authenticity.



**GENERAL & SPECIAL CONDITIONS
OF CONTRACT [FOR SERVICES JOB]**

**PSER
KOLKATA**

1.1.2 The tender shall be addressed to:

**HEAD, PURCHASE DEPARTMENT
BHARAT HEAVY ELECTRICALS LIMITED,
POWER SECTOR, EASTERN REGION, (2ND FLOOR),
PLOT-9/1, BLOCK-DJ, SECTOR-II, SALT LAKE,
KOLKATA – 700091.**

- 1.1.3 Tenders submitted by post shall be sent “REGISTERED POST ACKNOWLEDGEMENT DUE” and shall be posted with the due allowance for any postal delay. The tenders received after the due date and time of opening are liable to be rejected. Telegraphic offers and offers received by telex may not be considered unless confirmed in writing by a detailed offer.
- 1.1.4 Tenders shall be opened by the authorised officer of BHEL at his office at the time and date as specified in the tender notice in the presence of such of those tenderers or their authorised representatives who may be present.
- 1.1.5 The Tenderer shall closely peruse all the clauses, specifications and drawings indicated in the Tender Documents before quoting. Should the tenderer have any doubt about the meaning of any portion of the Tender Specifications or find discrepancies or omission in the drawings or the tender documents issued are incomplete or shall require clarification on any of the technical aspect, scope of work etc., he shall at once contact the authority inviting the tender for clarification before the submission of the offer.
- 1.1.6 Before tendering, the tenderer is advised to inspect the site of work and the environments and be well acquainted with the actual working and other prevalent conditions, facilities available, position of material and labour. No claim will be entertained later on the ground of lack of knowledge.
- 1.1.7 Tenderers must fill up all the schedules and furnish all the required information as per the instructions given in various sections of the tender specification. Each and every page of the Tender Specification & deceleration must be signed bearing seal and submitted along with the offers by the Tender in token of complete acceptance thereof. The information furnished shall be complete by itself. The booklet of G.S.C.C may be retained by the bidder if deceleration is enclosed along with the bid duly filled in and signed and sealed.
- 1.1.8 The tender shall quote the rates in English language and international numerals. The rates shall be in whole rupees. These rates shall be entered in figures as well as in words. For the purpose of the tender, the metric system of units shall be used.
- 1.1.9 All entries in the tender shall either be typed or be in ink. Erasures and overwriting are not permitted and may render such tenders liable to summary rejection. All cancellations and insertions shall be duly attested by the tenderer.

1.2 Qualifications of Tenderers :

Only tenderers who have previous experience in work of this nature and description detailed in this tender specification and/or registered with BHEL, PS-ER-SAS for such works are expected to quote for this work duly detailing their



**GENERAL & SPECIAL CONDITIONS
OF CONTRACT [FOR SERVICES JOB]**

**PSER
KOLKATA**

experience along with the offer. Offers from tenderers who do not have established experience in the field are not likely to be considered.

1.3 Data to be enclosed :

Full information shall be given by the tender in respect of following. Non-submission of this information may lead to rejection of the offer/tender.

1.3.1 Financial Status :

- a) A certificate from BHEL's scheduled Bank to prove his financial capacity/capability to undertakes the work of solvency certificate from the concerned Government Authority.
- b) Contractors other than those who are registered in ER, should submit their audited annual accounts for three years preceding the financial year in which tenders are called for.

1.3.2 Income Tax / Sales Tax Certificate :

A certificate of Income Tax / Sales Tax verification from the appropriate authority in the forms prescribed therefor duly indicating annual turnover. The certificates shall be valid for one year from the date of issue or for the period prescribed therein for all tenders submitted during the period.

1.3.3 Previous Experience :

A statement giving particulars duly supported by documentary evidence of the various services rendered for each similar work by the tenderer indicating the particulars and value of each work, the site location and the duration and date of completion and also a list of site locations and particulars and value of various services that are under progress.

1.3.4 Organisation Chart :

The organisation pattern that is totally available with the tenderer and that will be employed by the tenderer for this work duly indicating the number of Engineers and Supervisors, their qualification and experience in the line, the number of skilled and unskilled workmen etc.

1.3.5 An attested copy of the Power of Attorney, in case the tender is signed by an individual other than the sole proprietor, shall also be attached.

**1.3.6 In case of an individual :
His full name, address and place and nature of business.**

**1.3.7 In case of Partnership firms:
The name of all the partners and their addresses. A copy of the Partnership Deed (Instrument of partnership) duly certified by the Notary Public shall be enclosed.**

1.3.8 In case of Companies:



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Date and place of registration including Date of Commencement Certificate in case of public companies (certified copies of Memorandum and Articles of Associations are also to be furnished).

- 1.3.9 Nature of business carried on by the Company and the provision of the Memorandum relating thereof.
- 1.3.10 Names and particulars including addresses of all the Directors and their previous experience.
- 1.3.11 A list of tools and tackles that the tenderer is having and those that will be earmarked for this job.
- 1.3.12 In addition to the above, the particulars required in various annexures.

1.4 EARNEST MONEY DEPOSIT (EMD):

- 1.4.1 Every tender Must be accompanied by the prescribed amount of Earnest Money Deposit in any one of the following forms:
- 1.4.1.1 **Cash deposit as permissible under the extant Income Tax Act** (Before tender opening) - The amount should be remitted by the party to the Cashier of Bharat Heavy Electricals Limited, PS-ER, Kolkata between 14.00 hours and 16.00 hours on working days and cash receipt issued by him shall be enclosed along with the tender.
- 1.4.1.2 **Electronic Fund Transfer** credited in Bharat Heavy Electricals Limited, PS-ER' account (before tender opening). RTGS details of BHEL-PSER is available in tender.
- 1.4.1.3 **Banker's Cheque/Pay Order/Demand Draft** payable at Kolkata duly pledged in Favour of Bharat Heavy Electricals Limited, Kolkata (along with offer).
- 1.4.1.3(a) **Any other mode as per latest guidelines issued by Govt. of India.**
- 1.4.1.4 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.
- 1.4.2 Tenders received without Earnest Money in full in the manner prescribed above are liable to be rejected. EMD shall not carry any interest.
- 1.4.3 The Earnest Money Deposit of the successful tenderer will be retained as part of Security Deposit.
- 1.4.4 EMD given by all unsuccessful tenderers shall be refunded normally within 15 days of award of work.
- 1.4.5 BHEL reserves the right of forfeiture of Earnest Money Deposit submitted by the tenderer if :-
- After opening the tender and within the offer validity period, the tenderer revokes his tender or makes any modification in his tender which is not acceptable to BHEL.
 - The Contractor fails to deposit the required Security Deposit or commence the work within the period as per LOI/Contract.

EMD by the tenderer shall be withheld in case any action on the tenderer is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with suppliers/contractors" and forfeited/released based on the action as determined under these guidelines"



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1.5 Authorisation and Attestation :

1.5.1 Tenders shall be signed by persons duly authorised/empowered to do so. Certified copies of such authority and relevant documents shall be submitted along with the tenders.

1.6 Validity of Offer :

The rates in the tender shall be kept open for acceptance for a minimum period of six months from the due date of opening of tenders. If a tenderer withdraws or revokes his tender or increases the tender rates and/or conditions for any item within the aforesaid period, his Earnest Money Deposit is liable to be forfeited. In case the Bharat Heavy Electricals Limited calls for negotiations, such negotiation shall not amount to cancellation or withdrawal of the original offer which shall be binding on the tenderers.

1.7 Execution of Contract:

The successful tender's responsibility under this contract commences from the date of issue of the Letter of Intent by Bharat Heavy Electricals Limited. The successful tenderer may be required to execute an agreement in the prescribed form with the BHEL within a reasonable time after the acceptance of his tender and in any case before submitting first RA bill for payment. The expenses for completing and stamping the agreement shall be borne by the tenderer.

1.8 Security Deposit (SD):

1.8.1 Security Deposit means the security provided by the contractor towards fulfilment of any obligations in terms of the provisions of the contract. Upon acceptance of tender, the successful tenderer within the time specified in the Letter of Intent must deposit the required amount towards Security Deposit before start of the work. The Security Deposit shall not carry any interest.

1.8.2 The total amount of **Security Deposit will be 5% (Five percent) of the contract value.** EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit.

1.8.3 If the value of the work done at any time exceeds the accepted agreement value, the Security Deposit shall be correspondingly enhanced and the additional Security Deposit shall immediately be deposited by the contractor or recovered from payments due to the contractor.

1.8.4 Regarding adjustment of Earnest Money Deposit towards part of Security Deposit, refer clause 1.8.2 above, the successful tenderer shall not commence any work under the contract before remitting the Security Deposit except as directed by BHEL.

1.8.5 Failure to deposit the Security within the stipulated time may lead to forfeiture of Earnest Money and cancellation of the award of work.

1.8.6 Security Deposit may be furnished in any one of the following forms:

- i) Cash (as permissible under the Income Tax Act)
- ii) Local cheques of scheduled banks (subject to realization)/Pay Order/Demand Draft/Electronic Fund Transfer credited in Bharat Heavy Electricals Limited, PS-ER' account.



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iii) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL. Bank Guarantee for S.D. must be posted by the Bank by registered post directly to us, and it should not be submitted by the bidder directly to us.

iv) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the contractor, A/C BHEL).

v) Securities available from Indian Post Offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/hypothecated/ pledged, as applicable, in favour of BHEL).

vi) Any other mode as per latest guidelines issued by Govt. of India.

Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.

1.8.7 Collection of Security Deposit:

1.8.7.1 At least 50% of the required Security Deposit, including EMD, should be collected before start of work. Balance of the Security Deposit can be collected by deducting 10% of the gross amount progressively from each of the running bills of the contractor till the amount of the required Security Deposit is collected.

1.8.7.2 If the value of the work done at any time exceeds the accepted agreement value, the Security Deposit shall be correspondingly enhanced and the additional Security Deposit shall immediately be deposited by the contractor or recovered from payments due to the contractor.

1.8.7.3 The recoveries made from running bills (cash deduction towards balance SD amount) can be released against submission of equivalent Bank Guarantee in acceptable form, but only once, before completion of work, subject to approval of BHEL.

1.8.7.4 Security Deposit should cover up to the period of guarantee also.

(Note: In case of SAS jobs, work can be started before the required Security Deposit is collected. However, payment can be released only after collection/ recovery of initial 50% Security Deposit).

1.8.8 BHEL reserves the right of forfeiture of Security Deposit in addition to other claim and penalties in the event of the contractor's failure to fulfil any of the contractual obligations including statutory or in the event of termination of contract as per terms and conditions of contract.

1.8.9 Return of Security Deposit:

If the contractor duly performs and completes the contract in all respects to the entire satisfaction of BHEL, and presents an absolute "No Demand Certificate" in the prescribed form and return properties belonging to BHEL handed over, lent or hired by him for carrying out the said works the security deposit will be released to the contractor after deducting all costs or expenses or other contracts entered into with the contractor, only after the satisfactory completion or guarantee period as per clause 2.13.

1.8.10 No interest shall be payable by BHEL on Earnest Money / Security Deposit or any money due to the contractor from BHEL.

1.8.11 In no case Security Deposit can be released before settling all claims under this contract.

1.9 Rejection of Tender and other conditions:



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- 1.9.1 The acceptance of tender will rest with BHEL which does not bind itself to accept the lowest tender or any tender and reserves to itself full rights for the following without assigning any reasons whatsoever:
- a) to reject any or all of the tenders.
 - b) To split up the work amongst two or more tenderers.
 - c) To award the work in part.
 - d) Either of the contingencies stated in (b) and (c) to modify the time for completion suitably.
 - e) To modify the scope of work after mutual agreement.
- 1.9.2 Conditional and unwitnessed tenders:
- Tenders containing absurd or unworkable rates and amounts and tenders which are incomplete and otherwise considered defective and tenders not in accordance with the tender conditions, specifications etc. are liable to be rejected.
- 1.9.3 If a tenderer expires after his submission of the tender or after the acceptance of his tender, BHEL may at their discretion, cancel such tender. If a partner of a firm expires after the submission of the tender or after the acceptance of the tender, BHEL may cancel such tender at their discretion unless the firm retains its character.
- 1.9.4 BHEL will not be bound by any Power of Attorney granted by the tenderer or by changes in the compositions of the firm made subsequent to the execution of the contract. They may, however, recognise such power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor concerned.
- 1.9.5 If the tenderer deliberately gives wrong information in his tender, BHEL reserves the right to reject such tender at any stage or to cancel the contract, if awarded and forfeit the Earnest Money/Security Deposit.
- 1.9.6 Canvassing in any form in connection with the tenders is strictly prohibited and the tenders submitted by the contractor who resort to canvassing are liable to rejection.
- 1.9.7 Should a tenderer or contractor or in the case of a firm or Company of Contractors one or more of its Partners/shareholders/Directors have a relation or relations employed in the capacity of an officer of BHEL, the authority inviting tender shall be informed of the fact along with the offer, failing this, BHEL may at its sole discretion, reject the tender or cancel the contract and forfeit the Earnest Money/Security Deposit.
- 1.9.8 The successful tenderer should not sub-contract the part or complete work detailed in this tender specification undertaken by him without permission of BHEL. The tenderer is solely responsible to BHEL for the work awarded to him. Any deviation in this regard will entail termination of such contract by BHEL at the risk and responsibility of contractor.
- 1.9.9 The successful tenderer shall inform/keep BHEL informed if he has already undertaken any work/is likely to be awarded any job with the same customer with whom BHEL is entering into contract.



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SECTION – II

GENERAL TERMS & CONDITIONS OF THE CONTRACT

2.1 Definition :

The following terms and expressions shall have the meaning hereby assigned to them except where they context otherwise requires :

- 2.1.1 'BHEL' (or B.H.E. Ltd.) shall mean Bharat Heavy Electricals Limited, a company registered under Indian Companies Act., 1956, with its Registered Office at BHEL House, SIRI FORT, NEW DELHI-110049, Power Sector, Eastern Region, Service After Sales – Services, DJ-9/1, Salt Lake, Kolkata – 700091 or its Administrative officers or its site Engineer or the employees authorised to deal with any matters with which these persons are concerned on its behalf.
- 2.1.2 "GENERAL MANAGER"/DEPUTY IN CHARGE" shall mean the Officer in Administrative charge of BHEL, PS-ER, SAS – Services, Kolkata or their other regional offices.
- 2.1.3 "ENGINEER" or "ENGINEER IN CHARGE" shall mean Engineer deputed by BHEL. The terms includes "SITE ENGINEER", "RESIDENT ENGINEER" and "ASSISTANT SITE ENGINEER" of BHEL at the site as well s the officers in-charge at Kolkata office.
- 2.1.4 "SITE" shall mean the place or places at which the plants/equipment are to be overhauled and services are to be performed as per the specification of this contract.
- 2.1.5 "CLIENTS OF BHEL" or "CUSTOMER" shall mean the Project authorities to whom BHEL is supplying the equipment/services.
- 2.1.6 "CONTRACTOR" shall mean the individual, firm or company who enters into this contract with BHEL and shall include their executors, administrators, successors and permitted assigns.
- 2.1.7 "CONTRACT" or "CONTRACT DOCUMENT" shall mean and include the agreement or work order, the accepted appendices of rates, schedule of quantities, if any and general condition of contract, the special conditioning of contract instructions of the tenderers, the drawings, the specifications, the special specification, if any, the tender specifications, the special specification, if any, the tender documents and the Letter of Intent/Accepting Letter issued by BHEL. Any conditions or terms stipulated by the contractor in the tender documents or supporting letters shall not form part of the contract unless specifically accepted in writing by BHEL and incorporated in the agreement.
- 2.1.8 "GENERAL CONDITIONS OF CONTRACT" shall mean the instructions to tenderers and general conditions of contract pertaining to the work detailed.
- 2.1.9 "TENDER SPECIFICATION" shall mean the "Specific Conditions, technical specifications, appendices, site information and drawings, "pertaining to the work for which the tenderers are required to submit their offer. Also this will include the specifications detailed in NIT of client of BHEL for overhauling, erection, testing and commissioning of plant. Individual specification no. will be assigned to each tender specification.



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- 2.1.10 "TENDER DOCUMENTS" shall mean the General conditions of contract (2.1.8) and tender specification (2.1.9)
- 2.1.11 "LETTER OF INTENT" shall mean the intimation by a letter to the tenderer that the tender has been accepted in accordance with provisions contained in that letters. The responsibility of the contractor commences from the date of issue of this letter and all the terms and conditions of contract are applicable from this date.
- 2.1.12 "COMPLETION TIME" shall mean the period by date specified in the acceptance of tender for handing over the overhauled equipment/plant which are found acceptable by the engineer being of required standard and conforming to the specification of the contract or recommissioning of the machine successfully whichever is later. Completion time will be reckoned from the date of LOI with the period for mobilisation as prided with LOI, added to the same.
- 2.1.13 "PLANT" shall mean and cannot the entire assembly of the plant and equipments covered by the contract.
- 2.1.14 "EQUIPMENT" shall mean all equipments, machineries, materials, structurals, electricals and other components of the plant covered by the contract.
- 2.1.15 "TESTS" shall mean and include such test or tests to be carried out on the part of the contractor as are prescribed in the contract or considered necessary by BHEL, in order to ascertain the quality workmanship, performance and efficiency of the contract work or part thereof.
- 2.1.16 "APPROVED" "DIRECTED" or "INSTRUCTED" shall mean approved, directed or instructed by BHEL.
- 2.1.17 "WORK OR CONTRACT WORK" shall mean and include supply of all categories of labour, specified consumables, tools and tackles required for complete and satisfactory site transportation, handling, stacking, storing, overhauling erection, testing and commissioning of the equipment to the entire satisfaction of BHEL.
- 2.1.18 "SINGULAR AND PLURAL ETC" words carrying singular number shall also include plural and vice versa, where the context so requires, words importing the masculine gender shall be taken to include any company or Association or body of individuals, whether incorporated or not.
- 2.1.19 "HEADINGS" The Leadings in these general conditions are solely for the purpose of facilitating reference and shall not be deemed to be part thereof or be taken into consideration in interpretation or construction thereof or of the contract.
- 2.1.20 "MONTH" shall mean calender month.
- 2.1.21 "WRITING" shall include any manuscript, type written or printed statement under the signature or seal as the case may be.
- 2.2 Law governing the contract and Court Jurisdiction:

The contract shall be governing by the Law for the time being in force in the Republic of India. The Civil Court having ordinary original civil jurisdiction, Kolkata



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shall alone have exclusive Jurisdiction in regard to all claims in respective of this contract.

2.3 Issue of Notice :

The contractor shall furnish to the BHEL Engineer the name, designation and address of his authorised agent and all complaints, notices, communications and reference shall be deemed to have been duly given to the contractor if delivered to the contractor or his authorised agent or left at or posted to the address either of the contractor or of his representative and shall be deemed to have been so given in the case of posting on the day on which they would have reached such address in the ordinary course of post or on which they were so delivered or/ or left.

2.4 Use of Land:

No land belonging to BHEL or their customer, under temporary possession of BHEL shall be occupied by the contractor without the written permission of BHEL.

2.5 Commencement of Work:

2.5.1 The contractor shall commence the work within the time indicated in the Letter of Intent from BHEL and shall proceed with the same with due expedition without delay. For computing the scheduled completion date, commencement, of work will be reckoned from the date of complete mobilisation as per LOI, unless specifically amended by Head (Services), BHEL, Kolkata.

2.5.2 If the successful tenderer fails to start the work within the stipulated time, BHEL as its discretion will have the right to cancel the contract. His Earnest Money and / or Security Deposit with BHEL will stand forfeited without any further reference to him, without prejudice to any and all of BHEL's other rights and remedies in this regard.

2.5.3 All the works shall be carried out under the direction and to the satisfaction of BHEL.

2.5.4 The erected overhauled plant or work performed under the contract shall be taken over when it has been completed in all respects and or satisfactorily put into operation at site.

2.6 Mode of payment and measurement of the work completed.

2.6.1 "All payment due to the contractor shall be paid only by Account payee Cheques"

2.6.2 The contractor shall present his bill on the format prescribed by BHEL for every payment. After verification of such bills by BHEL, all items having financial value shall be entered and certified in BHEL Measurement Book by BHEL Engineer and the bills prepared based on the same and connected technical documents which form part of this tender specification.

2.6.3 Lumpsum omission will be entered for deduction. Measurement shall be restricted to that for which it is required to ascertain the financial liability of BHEL under this Contract.



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2.6.4 Work which is to be measured in details shall be measured as per standard procedure without reference to any local procedures without reference to any local procedures excepting where it is otherwise stated in the tender documents. The measurement shall be taken jointly by person duly authorised on the part of BHEL and by the contractor.

2.6.5 If, at any time due to reason whatsoever, it becomes necessary to remeasure the work done in full or in part, the expenses towards such remeasurement shall be borne by the contractor.

2.6.6.1 The contractor shall bear the expenditure involved, if any, in making the measurement. The Contractor shall, without extra charges, provide all the assistance with appliances with appliance and other things necessary for measurement.

2.6.7 The measurement entered in the Measurement Books and the bills prepared shall be signed and dated by both the contracting parties.

2.6.8 The Contractor will be intimated in writing by the site Engineer, the proposed date of measurement. If the contractor, representative fails to participate in the joint measurement, the BHEL engineer shall have the power to proceed by himself to take measurement in which case the measurement shall be accepted by the contractor as final.

2.6.9 Passing of measurement as per bills does not amount to acceptance of the completion of work mentioned. Any left out work has to be completed if pointed out at a later dated by BHEL.

2.7 Right of BHEL :

BHEL reserves the following rights in respect of contract without entitling the contractor for any compensation.

2.7.1 To get the work done through other agency at the risk and cost of the contractors poor progress, or inability to progress the work for completion as stipulated in contract, poor quality of the work etc., and to recover compensation for such losses from the contractor including BHEL's supervision charges and overheads from security deposit other use.

2.7.2 To withdraw any portion of work and/or to restrict / alter the quantum of work as indicated in the contract during the progress of work and get it done through other agency and/or by departmental labour to suit BHEL's commitment to its customer or in case BHEL decides to advance the date of completion due to other emergency reasons / BHEL's obligation to its customer.

2.7.3 To terminate the contract after due notice and forfeit Security Deposit and recover the loss sustained in getting the balance work done through other agencies in addition to liquidated damages in the events of :

2.7.3.1 Contractor's continued poor progress brought to his notice from time to time .

2.7.3.2 With draws from or abandonment of the work before completion of work.

2.7.3.3 Corrupt act of Contractor.



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2.7.3.4 Insolvency of the Contractor.

2.7.3.5 Persistent disregard to the instruction in writing of BHEL.

2.7.3.6 Assignment, transfer, sub-letting of the contract without BHEL's written permission.

2.7.3.7 Non fulfilment of any contractual obligations :

Any delay in works for reasons attributable to the contractor will have to be compensated by either increasing manpower and resources or by working extra hours and more than one shift without any extra cost.

2.7.4 To recover any money due from the contractor, from any money due to the contractor under this contract or any other contract or from the Security Deposit.

2.7.4.1 The term 'any other contract' will also include any contract entered with the contractor by any other unit division of BHEL, in addition to the ones awarded by BHEL, PSER, Kolkata.

2.7.5 To claim compensation for losses sustained including BHEL's supervision charges and overheads in completion, on termination of contract, to impose penalty for delay in completion of the work, at the rate of 0.5% (half percent) of the Contract value per day of delay or part thereof subject to a ceiling of 10% of the contract value.

2.7.6 To terminate the contract or to restrict the quantum of work and pay for the portion of work executed in case BHEL's contract with their customers are terminated for any reason.

2.7.7 To effect recovery from any amounts due to the Contractor under this or any other contract etc. in any other form, the money BHEL, is forced to pay to any body, due to contractor's failure to fulfil any of his obligations.

2.7.8 While every endeavour will be made by BHEL they cannot guarantee uninterrupted work due to conditions beyond their control. Contractor will not be entitled to any compensation / extra payment on this account.

2.7.9 In the event of any dispute of any nature, the decision of BHEL shall be final and binding on the contractor.

2.8 Responsibilities of the Contractor :

The following are the responsibilities of the contractor in respect of observation of local laws, employment of personnel, payment of taxes and execution of job etc.

2.8.1 As far as possible, unskilled workers shall be engaged from the local areas in which the work is being executed.

2.8.2 The Contractor at all times during the continuance of this contract, shall in all his dealing with local labour for the time being employed on or in connection with the work, have due regard to all local festivals and religious and other customs.

2.8.3 The contractor shall comply with all state and central Laws, Statutory Rules, Regulations etc., such as :

The payment of wages Act, Minimum Wage Act, Workmen compensation Act, Employers Liability Act, Industrial Disputes Act, Employees Provident Fund Scheme,



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Employees Insurance Scheme, Contract Labour (Regulation & Abolition) Act 1970 and other Acts, Rules & Regulations for labour as may be enacted by the Government during the tenure of the Contract and having force or jurisdiction at site. The Contractor shall give to the local Governing Body, Police and other relevant authorities all such notices as may be required by law.

- 2.8.4 The Contractor shall pay all taxes, fees, licence charges, deposits duties, tools, royalty, commission or other charges which may be leviable on account of any of his operations in executing the contract. In case, BHEL is forced to pay any of such taxes, BHEL shall have the right to recover the same from the contractor either from his bills or otherwise as deemed fit.
- 2.8.5 The Contractor shall be responsible for provision of health and sanitary arrangements, more particularly described in contract Labour (Regulation & Abolition Act) safety precautions etc., as may be required of same and satisfactory execution of the contract.
- 2.8.6 The contractor shall fulfil all his obligation in respect of accommodation including proper medical facilities for the personnel employed by him.
- 2.8.7 The contractor shall be responsible for the proper behaviour at site and observance of all regulations by the staff employed by him.
- 2.8.8 The Contractor shall ensure that no damage is caused to any person / property of other parties working at site. If any such damages is caused, it is the responsibility of the contractor to make the losses or compensate for the same.
- 2.8.9 All the properties / equipments / components of BHEL / their client loaned with or without deposit to the contractor in connection with the contract shall remain the properties of BHEL / their client. The Contractor shall use such properties for the purpose of execution of this contract. All such properties / equipment / components shall be deemed to be in good condition when received by the contractor unless he notified within 48 hours to the contrary. The Contractor shall return them in good conditions as and when required by BHEL / their client. In case of non-return, loss damage, repairs, etc. the cost thereof, as may be fixed by the site Engineer, will be recovered from the contractor.
- 2.8.10 It is not obligatory on the part of BHEL to supply any tools and tackles or other materials other than those specifically agreed to do so by BHEL. However, depending upon the availability / possibility BHEL's customers' handling equipment and other plants may be made available to the contractor on payment of the hire charges / free of charges as fixed, subject to the condition laid down by BHEL. Customer from time to time, Unless paid in advance, such hire charges if applicable shall be recovered from contractor's bill / security Deposit in one instalment.
- 2.8.11 The contractor shall not claim any compensation of the scope of the work, due to changes in design which curtails quantum.
- 2.8.12 The Contractor shall fully indemnify BHEL against all claims of whatsoever nature arising during the course of erection / overhauling / performing work under the contract.



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- 2.8.13 In case the contractor is required to undertake any major work outside the scope of this contract the rates payable shall be decided by BHEL Resident Engineer.
- 2.8.14 The contractor shall keep the area of work clean and shall remove debris etc., while executing day to day work. Upon completion of work, the contractor shall remove from the vicinity of work, all scrap, packing materials, rubbish, unused and other materials and deposit them in places to be specified by the BHEL Engineer. The contractor will also demolish all hutments, sheds, partitions, offices, constructed and used by him and shall clean the debris. In the event of his failure to do so, the same will be arranged to be removed by the BHEL. The expenses thereof will be recovered from contractor.
- 2.8.15 The contractor shall arrange and co-ordinate his work in such a manner as to cause no inconvenience to other agencies working in the area.
- 2.8.16 All safety rules and codes applied by the client / BHEL at site shall be observed by the contractor without exception. The contractor shall be responsible for the safety of the equipment / material and work to be performed by him and shall maintain all light, fencing guards, signs etc. or other protection necessary for the purpose. Contractor shall also take such additional precautions as may be indicated from time to time by the Engineer with a view to prevent pilferage, accidents, fire hazards and atmospheric conditions. Suitable number of electrical staff, watch and ward, store keepers to take care of the equipment, materials and construction tools and tackles, shall be posted at site by the contractor till completion of the work under this contract. The contractor shall arrange for such safety devices as are necessary for such type of work and carry out the requisite tests of handling equipment, lifting tools, tackles etc, as per prescribed standards and practices.
- 2.8.17 The contractor will be directly responsible for payment of wages to his workmen. A pay roll sheet giving all the payments given to workers and duly signed by the contractor's representative should be furnished to BHEL site office for record purpose. BHEL site In-charge may be intimated the date of disbursement of wages to the workmen engaged for the work, so that his representative can witness the same.
- 2.8.18 The intent of specification, is to provide services according to most modern and proven techniques and codes. The omission of specific reference to any method, requirement or material necessary for the proper and efficient performance of work shall not relieve the contractor of the responsibility of providing such facilities to complete the work.
- 2.8.19 In case of any clause of the work for which there is no such specification as laid down in the contract, such work shall be carried out in accordance with the instructions and requirements of the BHEL Engineer.
- 2.8.20 No levy or payment or charge made or imposed shall be impeached by reason of any clerical error or by reason of any mistake in the amount levied or demanded or charged.
- 2.8.21 The details drawings, specifications, instructions manual, if any available with the BHEL Engineer will form part of tender specification . These documents will be made available for reference only to the contractor during execution of work.
- 2.8.22 Should any error or ambiguity be discovered in the specification or information, the contractor shall forthwith bring the same to the notice of BHEL before



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commencement of work. BHEL's interpretation in such cases shall be final and binding on the contractor.

- 2.8.23 No idle labour charges will be admissible in the event of any stoppage caused in the work resulting in contractor's labour being rendered idle due to any cause of any type.
- 2.8.24 No over run charges shall be paid in the event of the completion period being extended for any reason whatsoever.
- 2.8.25 It is possible that some repair/rectification, modification may be needed on the equipments to be overhauled / work to be performed under this specification, for reasons not attributions to the contractor . All such repair / rectification / modification work which can be done, with the available facilities at site shall be carried out by the contractor free of cost and no extra charger shall be paid to contractor.
- 2.8.26 The quality and progress of work will be regularly reviewed. The schedule and progress of work will be given to the contractor in advance and it will be the obligation / responsibility of the contractor to achieve the desired quality and progress of work by suitably reinforcing their labour force and/or by working extra hours or in more than one shift without any extra cost. Workmen found unsuitable for the work will be replaced immediately by the contractor on being informed by BHEL.
- 2.8.27 During the overhauling work under the contract it is very essential that proper and adequate inspection should made constantly to maintain the quality or workmanship so that any deviation from design dimension does not exceed permissible limits. The proper functioning of the unit, while in operation, depends to a great extent on the above factors. The fact that effective supervision and inspection at the execution stage is less costly than any down time of running unit even for a short period need not be over emphasized. For the details regarding alignment and permissible dimensional deviations in the sub-assemblies BHEL Engineer may be consulted.
- 2.8.28 The contractor shall be furnish fortnightly labour report showing by classification of number of employees engaged in various categories or work date wise and submit a progress report of wok as required by BHEL Engineer.
- 2.8.29 The contractor shall execute the work in the most substantial and workmen-like manner in stipulated time. Accuracy of work and timely execution are the essence of this contract. The contractor shall be responsible to ensure that the assembly and workmanship conform to the dimensions and clearances given in the drawings and/or as per instructions of BHEL Engineers.
- 2.8.30 The contractor shall take all responsible care to protect the materials and work till such time the plant/equipment has been taken over by BHEL / their client. Where necessary, suitable temporary fencing and lighting shall have to be provided by the contractor as a safety measure against accident and damage of property of BHEL. Suitable caution notice shall be displayed where access to any part may be deemed to be unsafe and hazardous.
- 2.8.31 It will be the responsibility of the contractor to ensure safe lifting of the equipments taking due precautions to avoid any accidents and damage to other equipments and personnel.
- 2.9 Consequence of cancellation :



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Whenever BHEL exercises its authority to terminate the contract/withdrew a portion of work under the clause 2.7 they may complete the work by any means at the contractor's risk and expenses provided that in the event of the cost of completion (as certified by the site Engineer which is final and conclusive) being less than the contract cost, the advantage shall accrue to BHEL and that if the cost of completion exceeds the money due to the contractor under the contract, the contractor shall either pay the excess amount ordered by BHEL or the same shall be recovered from the contractor by any other means. This will be in addition to the forfeiture of Security Deposit and recovery of liquidated damages as per relevant clauses.

2.9.1 In case BHEL completes the work under the provision of this condition, the cost of such completion to be taken into account in determining the excess cost to be charged to the contractor under this condition, shall consist of materials purchased and / or labour, provided by BHEL with an addition of such percentage to cover supervision and establishment charges as may be decided by BHEL.

2.10 Insurance :

2.10.1 BHEL / their customer shall arrange for insuring the materials / properties of BHEL/customer covering risks during transit, storage, overhauling, erection and commissioning.

2.10.2 It is the sole responsibility of the contractor to Insure his workman against accident and injury while at work as required by relevant rules and to pay compensation, if any, to workmen as per workmen's compensation Act. Contractor shall insure his staff against accidents. The work will be carried out in a protected area and all the rules and regulations of the client / BHEL in the area of project which are in force from time to time, will have to be followed by the contractor.

2.10.3 If due to negligence and /or non-observations of safety and other precautions, any accident / injury occurs to any other person/public, the Contractor shall have to pay necessary compensation and other expenses, if so decided by the appropriate authorities. Third party insurance coverage is to be made by the contractor.

2.10.4 If due to contractor's carelessness, negligence or non-observance of safety precautions damage to BHEL's /Customer's property and personnel should occur, and if BHEL is unable to recover, in full, cost from the Insurance Company, the balance will be recovered from the Contractor.

2.11 Strikes & Lockouts :

The contractor will be fully responsible for all the disputes and other issues connected with his labour. In the event of the contractor's labour resorting to strike or the lockout declared is not settled within a period of one week BHEL shall have the right to get the work executed employing the own labour or through any other agencies or both and the cost so incurred by BHEL, shall be deducted from the contractor's bills as per clause 2.7. For all purposes whatsoever, the employees of the contractor shall not be deemed to be in the employment of BHEL.

2.12. Force Majeure :

2.12.1 The following shall amount to Force Majeure :



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Acts of God, Acts of any Government, war, sabotage, riots, civil commotion, police action, revolution, flood, fire, cyclones, earthquake and epidemic and other similar causes over which the contractor has no control.

2.12.2 If the contractor suffers delay in the due execution of the contractual obligation due to delays caused by Force Majeure as defined above, the agreed time of completion of the job covered by this contract or the obligations of the Contractor shall be extended by a period of time equal to the period of delay provided that on the occurrence of any such contingency the Contractor immediately reports to BHEL in writing the causes of delay and the contractor shall not be eligible for any compensation.

2.13 Performance Guarantee :

Even though the work will be carried out under supervision of BHEL Engineers. The contractor shall guarantee against defects attributable to faulty workmanship or procedure adopted in the overhaul for items covered in the contract for a period of six months from the date of re-commissioning of the set after the capital overhaul. The guarantee should cover all defects notified during this period and shall have to be attended to free of cost immediately or at the time our clients are able to give shut down of the set for the required period. when necessary. In case of failure of contractor to attend to such defects as and when required in time, BHEL shall arrange to attend the defects and the charges shall be levied to contractor's account and shall be recoverable from the security deposit / progressive payments.

2.13. Arbitration :

All disputes between the parties to the contract arising out of or in relation to the contract, other than those for which the decisions of the Engineer or of any other person is by the contract expressed to be final and conclusive, shall, after written notice by either party to the contract to other party be referred to sole arbitration of General Manager or his nominee. The arbitration shall be conducted in accordance with the provision of the Indian Arbitration Act, 1996.

The parties to the contract understand and agree that if will be no objection that the General Manager or the person nominated as arbitrator, had earlier in his official capacity to deal directly or indirectly with the matters of which the contract relates or that in the course of his official duties had expressed views on all or any of the matters in dispute of difference. The award of the arbitrator shall be final and binding on the parties to this contract.

In the event of the arbitrator dying, neglecting or refusing to act or resigning or being unable to act for any reason or his award being set aside by the court for any reason, it shall be lawful for the GM or his successor, as the case may be, either to act himself as the Arbitrator or to appoint another arbitrator in place of the outgoing arbitrator in the matter aforesaid.

The arbitrator may from time to time with the consent of both the parties to the contract enlarge the time for making the award.

Work under the contract shall be continued during the arbitration proceedings. The venue of the arbitration shall be the place from which the contract is issued or such other place as the arbitrator at his discretion may determine.



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**SECTION – III
SPECIAL CONDITIONS OR CONTRACT**

3.1 Quantum of Work :

3.1.1 The scope of work given in the tender specification is only approximate and is liable to variation and alternation at the discretion of BHEL Resident Engineer. No compensation on this account shall be payable to the contractor unless specifically recommended by BHEL Resident Engineer as the variation forming major additions to the original scope of work. All repair / rectification work arising out of normal wear and tear, seizure of parts etc. have to be done by the contractor and the same will be covered by the scope of work of the contract.

3.1.2 The scope of work details out the major activities only. However, as per the general maintenance requirement and site condition, certain related activities may have to be carried out without any extra cost.

3.2 Commencement and completion of work :

3.2.1 The starting time and completion time is the essence of the of the tender. As the time bound programme is firmly committed to customer, the starting time and completion time should be strictly adhered to. It will be not be possible to grant extension in completion time except in extraordinary circumstance, which will be decided entirely at the discretion of BHEL Resident Engineer. Work should normally be carried out in two shifts and sometimes also in three shifts in consultation with BHEL Resident Engineer.

A detailed programme of the various activities covered under this contract with specific time period to fall in the overall frame work of the above dates should be prepared and got approved by BHEL Resident Engineer. The progress against this programme shall be reviewed with BHEL Resident Engineer at the end of each day and critical areas identified and suitable steps taken in time.

If during the review, at any stage of overhauling, BHEL Resident Engineer feels that the delays are not likely to be made up, BHEL reserves the right to take corrective steps as considered necessary by BHEL Resident Engineer to complete work in scheduled time and debit the cost incurred thereon to the contractor. This does not however absolve the contractor of his own efforts in consultation with BHEL Resident Engineer. Every endeavour will be made to see that work proceeds uninterruptedly.

3.2.2 The tenderers should indicate the time required for starting the work once the letter of intent is issued and the time required for completion. The work may have to commence immediately after opening of the tenders. Hence, preference may be given to those tenderers who can commence the work earlier, and also ensure early completion.

3.2.3 The Contractor shall ensure completion of the job in all respects within the day from the date of commencement of work as given in contract.

3.3 Penalty for delay :



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- 3.3.1 In the event of failure to complete the work in given time, an amount equal to ½% [half percent] of the contract value per day subject to a maximum of 10% [ten percent] of the contract value will be levied as penalty, in case the balance work is allowed to be completed by the contractor beyond the scheduled time of completion, which is at the discretion of BHEL. In case of delays on contractor's part, at any stage during the scheduled period or after, BHEL shall have the option of ensuring completion of the job by any other means at its disposal and the charges on this account shall be levied on the contractor. These shall be adjusted against contractor's bills or Security Deposit.
- 3.4 Terms of Payment:
- A minimum time of 15 days will be required for processing the bills and release of payment after the bills are presented to BHEL.
- 3.4.1 **As per STC**
- All payments are subjects to income tax deductions @1% of the bill amount at source or as per Central Government Laws. No request for advance payment will be entertained by BHEL.
- 3.5 Inspection and Completion:
- The work being carried out by the contractor will be supervised and inspected by our Site Engineers under the overall supervision of BHEL Resident Engineer.
- 3.6 The work will be deemed as complete when it is finally accepted by BHEL Resident Engineer and job completion certificate is issued. No extra payment will be made for any rework carried out by the contractor to rectify any defective work.
- 3.6 The contractor shall not be entitled for labour idling charges under any circumstances.
- 3.6 Tools, Tackles, Test Equipments & Consumables:
- 3.6.1 All tools and tackles and consumables required for day-to-day work like gas and gas cutting sets with accessories, AC/DC welding sets, TIG welding kits, welding cables, electrodes, all necessary power connection at his own cost. However, in case of emergency, BHEL may supply certain items if available, to contractor at actual cost plus handling charges, These will be deducted from contractors' running bills, testing equipment for conducting various tests, during the progress of overhauling / re-commissioning shall have to be provided by the contractor. Spare parts going into permanent installation shall only be provided by BHEL.
- 3.7 Accommodation for site staff and store space :
- 3.7.1 Contractor has to arrange for the stores and office at site ; space for the same shall be made available as per the availability at site. The contractor shall be responsible to provide all necessary facilities like residential accommodation with sanitary facilities, transport, electricity, water, medical bonus etc. as required under various labour laws



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and statutory rules and regulations framed thereunder to the personnel employed by him.

3.8 Responsibilities of the contractor :

3.9 Supervisory staff and labour :

The contractor shall employ, specially skilled labour, supervisor and engineers thoroughly conversant with particular type of work to ensure quality work. BHEL reserves the right to decide on the suitability of the workers and other staff employed by the contractor. BHEL reserves the right to insist on removal of any employees of the contractor at any time if they find him unsuitable and the contractor should forthwith remove him.

3.9 Planning and Execution :

Contractor shall submit a job planning in form of Bar Chart or PERT Chart. A List of manpower category wise, indicating individuals responsibility job activity wise , shall have to be submitted. Daily programme of job shall be displayed on board near work site on day in advance. A daily progress report along with Manpower utilities has to be submitted and backlog of the work, if any, shall be covered up in consultation with BHEL Resident Engineer.

3.9 Safety and Accident Coverage

Contractor shall ensure safety of all his employees at site of work. All employees shall be covered by insurance (workmen compensation) against accident, failing which proper action will be taken against the contractor.

Contractor shall ensure proper safety of the equipments under overhauling by deputing personnel to guard the equipments round the clock. Open oil spaces, steam spaces shall be covered properly against ingress of foreign materials while working.

RESPONSIBILITIES OF THE CONTRACTOR IN RESPECT OF SAFETY OF MAN, EQUIPMENT, MATERIAL AND ENVIRONMENT

3.8.3.1 Before commencing the work, contractor shall submit a 'SAFETY PLAN" to the authorised BHEL official. The 'Safety Plan' shall indicate in detail the measures that would be taken by the contractor to ensure safety of men, equipment, material and environment during execution of the work. The plan shall take care to satisfy all requirements specified here under. The contractor shall submit safety plan along with his offer. During negotiations before placing or work order and during execution of the contract, BHEL shall have right to review and suggest modifications in the safety Plan. Contractor shall abide by BHEL decision in this respect.

3.8.3.2 The contractor shall take all necessary safety precautions and arrange for appropriate appliances as per direction of BHEL or it's authorised officials to prevent loss of human lives, injuries to personnel engaged, and damage to property and environment.

3.8.3.3 The contractor shall provide to it's work force and ensure the use of the following personal protective equipment as found necessary and as directed by the authorised BHEL officials :



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- a. Safety Helmets conforming to IS-2925 : 1984
- b. Safety Belts confirming to IS – 3521 : 1983
- c. Safety shoes conforming to IS-1989 : 1978
- d. Eye & Face Protection devices conforming to IS-8520 : 1987 and IS-8940 : 1978
- e. Hand & body protection devices conforming to :
 - IS – 2573 : 1975
 - IS – 6994 : 1973
 - IS – 8807 : 1973
 - IS – 8513 : 1977

- 3.8.3.4 All tools tackles, lifting appliances, material handling equipment scaffolds, cradles, safety nets, ladders, equipment etc. used by the contractor shall be of safe design and construction. These shall be tested and certificate of fitness obtained before putting them to use and from time to time as instructed by authorised BHEL official who shall have the right to ban the use of any item.
- 3.8.3.5 All electrical equipment, connections and wiring for construction power, its distribution and use shall conform to the requirements of Indian Electricity Act & Rules. Only electricians licensed by the appropriate statutory authority shall be employed by the contractor to carry out all types of electrical works. All electrical appliance including portable electrical tools used by the contractor shall have safe plugging system to source of power and be appropriately earthed..
- 3.8.3.6 The contractor shall not use any hand – lamp energised by electric power with supply voltage of more than 24 volts. For work in confined spaces, lighting shall be arranged with power source not more than 24 volts.
- 3.8.3.7 The contractor shall adopt all fire safety measures as laid down in the “Code for Fire Safety at Construction Sites’ issued by the safety Department of the Construction Management (HQ) of BHEL and as per directions of the authorised BHEL official. A copy of the above referred “Code for Fire Safety at Construction Sites” shall be made available by BHEL to the contractor for reference, on demand by the contractor, during tendering stage itself.
- 3.8.3.8 Where it become necessary to provide and / or store petroleum products, explosives, chemicals, and liquid or gaseous fuel or any other substance that may cause fire or explosion, the contractor shall be responsible for carrying out such provisions and / or storage in accordance with the rules and regulations laid down in the relevant government acts, such as Petroleum Act, Explosives Act, Petroleum & Carbides of Calcium Manual of the Chief Controller of Explosives, Govt. of India, etc. Prior approval of the authorised BHEL official at the site shall also be taken by the contractor in all such matters.
- 3.8.3.9 The contractor shall arrange at his cost (wherever not specified) appropriate illumination at all work spots for safe working, when natural daylight may not be adequate for clear visibility.
- 3.8.3.10 The contractor shall be held responsible for any violation of statutory regulations (local, state or central) and BHEL instructions, that may endanger safety of men, equipment, material and environment in his scope of work or another contractor’s or agency’s Cost of damage if any, to life and property arising out of such violation of statutory regulations and BHEL instructions shall be borne by the contractor.



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- 3.8.3.11 In case of a fatal or disabling injury, accident to any person at construction site due to lapses by the contractor, the victim and / or his / her dependents shall be compensated by the contractor as per statutory requirements. However, if considered necessary, BHEL shall have the right to impose appropriate financial penalty on the contractor and recover the same from payments due to the contractor for suitably compensating the victim and / or his/her dependents. Before imposing any such penalty, appropriate enquiry shall be held by BHEL giving opportunity to the contractor to present his case.
- 3.8.3.12 In case of any damage to property due to lapses by the contractor, BHEL shall have the right to recover cost of such damages from payments due to the contractor after holding an appropriate enquiry.
- 3.8.3.13 In case of any delay in the completion of a job due to mishaps attributable to lapses by the contractor, BHEL shall have right to recover cost of such delay from payments due to the contractor, after notifying the contractor suitably and giving him opportunity to present his case.
- 3.8.3.14 If the contractor fails to improve the standards of safety in its operation to the satisfaction of BHEL after being given a reasonable opportunity to do so, and/or if the contractor fails to take appropriate safety precautions or to provide necessary safety devices and equipment or to carry out instructions regarding safety issued by the authorised BHEL official, BHEL shall have the right to take corrective steps at the risk and cost of the contractor after giving a notice of not less than seven days indicating the steps that would be taken by BHEL.
- 3.8.3.15 The contractor shall submit report of the accidents, fires and property damage, dangerous occurrences, to the authorised BHEL official immediately after such occurrence, but in any case not later than twelve hours of the occurrence. Such reports shall be furnished in the manner prescribed by BHEL. In addition, periodic reports on safety shall also be submitted by the contractor to the authorised BHEL official from time to time as prescribed.
- 3.8.3.16 Before commencing the work, the contractor shall appoint / nominate a responsible officer to supervise implementation of all safety measures and liaison with his counterpart of BHEL.
- 3.8.3.17 If safety record of the contractor in execution of the awarded job is to the satisfaction of safety Department of BHEL, issue of an appropriate certificate to recognise the safety performance of the contractor may be considered by BHEL after completion of the jobs.
- 3.9 House keeping and preservation :
- 3.9 Work floor/area shall be cleaned every day and be kept absolutely clean. A regular cleaning gang may be engaged for the purpose.

All dismantled components of the equipments under overhauling should be tag marked and stored properly according to type of components, namely all loose/small parts shall be kept in boxes bearing and matching components shall be kept on wooden planks. A list of such components shall be maintained to identify / locate be preserved properly against probable damages.



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No floor shall be damaged while working and necessary steps shall be taken by the contractor for repair in case of any damage.

3.9 Tools stores and Consumables :

Tools & tackles, other than special tools and tackles supplied along with the equipments, shall be arranged and kept properly by the contractor. A register must be maintained and updated regularly.

All consumables, other than those going permanently into the equipment, shall be stored by the contractor for daily use. Regular check shall be made at end of each day's work and exhausted consumables shall be replenished immediately.

The store may be visited by BHEL Engineers without notice for verification.

3.9 The contractor shall make all necessary arrangement to receive spares from BHEL/Customer's stores , as and when required. The unused and scrap materials shall be returned to BHEL / Customer's stores on completion of the work.

A detailed account shall be submitted by the contractor to this effect at the end of the work certifying no dues remained against them duly signed by Resident Engineer BHEL/Customer.

3.9 General :

3.9.1 Standard printed conditions if enclosed with the offer by the tenderers will not be accepted and only those in main body of the offer will be considered for acceptance.

3.9.2 The tenders are likely to be rejected if the tendered is not acceptable to the ultimate customer.

3.9.3 It will be the responsibility of the contractor to carry out trial run of all the equipments overhauled and confirm the satisfactory operation of equipment. The contractor's personnel shall also be present at time of final commissioning and attend to any defects that shall occur during this time.



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Annexure – V

A) TENDERING

1. Tenders may be submitted through Registered post with acknowledgement due, in the name of the addressee only indicated, or by hand delivery or by courier service obtaining acknowledgements of receipt. Telegraphic / Telex offers received in time can be considered, if only followed by acceptable written tender documents in accordance with the telex / telegram and does not result in any advantage over other tenderers because of any possible manipulation in price or date of completion etc.
2. Each and every page of tender documents from declaration of bidders to Annexure VI enclosed should be signed by the tenderer providing his / their seal and date as taken of their full acceptance of the scope of work, terms and conditions etc., and should be returned along with the tender offers.
3. The tenders should be quoted in English language and international numbers.
4. All entries in the tender shall be typed in ink legibly written without ambiguity.
5. Qualifications of Tenderers : for open tenders only, the tenderers who have previous experience in the similar nature of work as detailed in this tender specifications are expected to quote duly detailing their relevant experience / credentials along with the offer. Offers of other than the above are not likely to be considered. (List of similar jobs done)
- Enclosure – 1
6. Financial Status : A current / valid certificate from a scheduled bank to provide the financial soundness / capability of the bidder to undertake the work, is required to be submitted along with offer.
- Enclosure – 2
7. Income Tax / Sales Tax certificates : A certificate of income tax / sales tax clearance from the appropriate authority, is to be submitted in the form prescribed therefor, valid for the period of contract.
- Enclosure - 3
8. Organization Chart : The organization pattern and that will be deployed by the tenderer for this work duly indicating the number of supervisors, their qualifications and experience in the line, the number of skilled and unskilled persons / etc. is required to be indicated in the offer.
- Enclosure – 4
9. THE FOLLOWING DOCUMENTS SHOULD ALSO BE ENCLOSED.
 - a) An attested copy of the power of attorney in case the tender is signed by an individual other than the sole proprietor.
 - b) In case of an individual his full name, address, nature of business and valid trade licence.



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- c) In case of partnership firm, the names of all partners and their addresses. (A copy of the partnership deed / instrument of partnership, duly attested by the Notary public shall be enclosed.)
- d) In case of companies, date and place of incorporation / registration including date of commencement certificate (for public companies). (Certified copies of Memorandum and articles of association are also to be furnished).

B) EARNEST MONEY DEPOSIT :

For this, please refer article 1.4 (page 4 of 23) of the General and special conditions of contract – 1991 (GSCC) enclosed / supplied with the form issued for empanelment.

C) VALIDITY OF OFFER :

The rates in the tender shall be kept open for acceptance for a minimum period of six months from the due date of opening of tenders. For details, please refer article 1.6 (page 7) of GSCC enclosed.

D) SECURITY DEPOSIT:

As per clause no. 1.8 of GENERAL & SPECIAL CONDITIONS OF CONTRACT [FOR SERVICES JOB].

Return of Security Deposit:

If the contractor duly fulfils the contractual obligations as per contract in all respects to the entire satisfaction of BHEL, and presents an absolute “No Demand Certificate” in the prescribed form and return properties belonging to BHEL handed over, lent or hired by him for carrying out the said works the security deposit will be released to the contractor after deducting all costs or expenses or other contracts entered into with the contractor, only after the satisfactory completion of guarantee period irrespective of release of last 10% payment. In no case Security Deposit can be released before settling all claims of BHEL on contractor under this contract.

No interest shall be payable by BHEL on Earnest Money / Security Deposit or any money due to the contractor from BHEL.

E) ACCEPTANCE / REJECTION OF TENDERS :

For this, please refer article 1.9 (pages 6 to 10) of GSCC enclosed. Also acceptance of customer is pre-requisite for consideration of bid, wherever applicable.

F) ADDITIONAL SPECIFIC TERMS AND CONDITIONS :

01. EXECUTION.

- i) If the site in question is subjected to industrial relations unrest / disturbances / problems, then the successful bidder should take adequate precautionary measures against dislocation of the job on account short problems. Any liability on this account, lies entirely with the contractor.



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- ii) The contractor shall commence the work at site with full manpower, T&P etc. and complete as specified in the particulars of the tender. In case of any delay on the completion of work attributable to the contractor BHEL reserves full rights to cancel the contract fully or partly and to award the job in full or part to an alternate agency and recover the costs towards the same including BHEL's overheads from the contractor.
- iii) In the event of termination of contract or restriction of quantum of job by our client, before or during the execution of contract, BHEL reserves the right to terminate the contract or restrict the quantum of work of sub-contractors accordingly without paying any compensation.
- iv) **Manpower:** For various category of manpower and their numbers recommended, please refer to the Annexure IV of the tender enquiry. The contractor shall engage proper skilled / qualified personnel and ensure the expected quality of work. If any of their personnel has been found to be unsuitable, by BHEL / or their client, the contractor shall withdraw them and provide suitable replacement immediately, failing which BHEL reserves full rights to get the job done by alternate suitable persons at risk and cost of the contractor. The delay on this account is attributable to the contractor.
- v) **TOOLS (TACKLES & PLANTS) :** All tools, tackles and plants including precision measuring instruments, lifting devices shall have to be arranged by the contractor. (List of recommended T&P, for guidance, is provided in Annexure II of the tender enquiry). All lifting tackles and pulling devices to be used must bear valid / latest test certificates for their suitability, and the sales tax furnished along with the offer itself.
- Also certificates of test / calibration with date of validity for various measuring / test instruments have to be submitted by the tenderer preferably along with the offer itself, or else the same is required to be produced at site before start of job failing which the LOI / W.O. is liable to be cancelled without any compensation.
- Successful bidder shall provide valid calibration certificates for IMTEs, fitness certificates for T&Ps and Construction Equipment (e.g. wire ropes, hand operated chain pulley blocks, pulling and lifting machines, electric welding generators, arc welding transformers etc.). Calibration of IMTEs is to be arranged from the accredited agencies. Calibration certificates should have the traceability as per national/international standards. At work site the IMTEs, T&Ps and Construction Equipment shall be checked/tested/inspected by BHEL engineers. The procedure for fitness testing and storage preservation and maintenance of Construction Equipment and T&Ps shall be as per Doc. Nos. PSER:FEX:001:94, PSER:SAS(CAL):016:95 and PSER:FEX:002:94 available with BHEL site engineers.
- vi) **CONSUMABLES:** All consumables required (list for guidance is given in Annexure III of the tender enquiry) for the job shall be arranged by the contractor



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at his cost. However, any spares / components / consumables / materials going permanently into the clients equipment shall be provided to the contractor.

- vii) Successful bidder has to arrange proper storing facilities at site with traceabilities for IMTEs, T&Ps, construction equipments and consumables used during job execution.
- viii) All the T&Ps, consumables etc. must be mobilized at site at least three days prior to actual start of the job. They must be in accordance with those recommended in the Annexure – II and III respectively of the Tender Enquiry and must be got verified to that effect. Formal clearance in writing must be obtained from BHEL's resident engineer before the contractor starts the job.

T&P found defective / improper / insufficient or not having valid test / calibration certificate should be made good immediately.

If the contractor fails to mobilize at least 90% of the recommended T&P and manpower within the stipulated period, the order on the contractor is liable to be cancelled without paying any compensation on to him.

- viii) Storage : The contractor shall be responsible for proper storing of all dismantled components, spares, T&P etc., identify them properly and preserve them throughout the execution of the job. Any loss or damage of the components caused due to the lapses attributable to the contractor or his personnel, shall be chargeable to the contractor.

- ix) Transportation of Spares / materials / consumables :

Any material / components / spares required for the work must be collected by the vendor and carried safely to the work site from the point of issue in our clients premises, through his own resources and cost.

Similarly, excess materials / spares etc. must be returned to the client's stores /
any other place, within the client's premises, indicated by site-in-charge of BHEL.

Any debris, rubbish at the work spot must be cleared very day by the contractor using his own resources and cost, and disposed off at a placement for, as to be informed to him.

- x) Space / Accommodation :

The contractor will be allowed to have his site office, stores etc. by erecting temporary partitions / chambers / sheds etc. at the work spot according to the availability of space, which will have to be vacated and dismantled at the end of the jobs to restore the space to the client. The contractor should make his own arrangements for the security / watch and ward.



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No residential accommodation / spare can be provided by BHEL to the contractor for any residential accommodation of his personnel. Contractor has to make arrangements/accommodation at site at his cost.

- xi) The contractor shall ensure responsible execution of the job and proper behavior of their personnel and observance of all the rules and regulations of our clients.

xii) Safety :

- a) Standard safety norms/ regulations shall be conserved by the contractor during the execution of the job. The contractor should provide the necessary / stipulated safety devices to his personnel deputed to the site, such as grinding / welding goggles, masks, safety belts, helmets etc. No worker will be permitted to work without necessary safety appliances. Delay of work due to work without necessary safety appliances. Delay of work due to these lapses are attributable to the contractor.
- b) All norms related to Health, Safety & Environmental (HSE) norms conforming to ISO-14001 & OHSAS-18001 shall be followed by successful bidder. Bidders may contact SAS-PSER office for getting detailed norms to be followed by bidder at Site
- c) The contractor shall comprehensively insure all his site personnel against any hazard / accident and submit a copy of the insurance certificate covering all his site personnel to our resident engineer before commencement of work.
- d) In case of any accident / hazard, the contractor shall arrange for medical attendance immediately shall compensate the personnel concerned in accordance with the workmen's compensations act in force and shall keep BHEL indemnified against any provisions of the act.
- e) The successful bidder is to arrange a full set of First Aid kit for attending to manpower deployed by him at site as per requirement.
- f) Successful bidder should follow all safety norms at work site. The Doc. No. PSER:PMX:004:94 in this regard is available with BHEL engineer at site.

02. STATUTORY COMPLIANCE :

- i) The contractor shall comply with all state and central laws, statutory rules regulations etc. such as :



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The payment of wages act, maximum wages act, workmen's compensation act., industrial disputes act, employees provident funds act / scheme, Employees' state insurance scheme, contract labour (Regulation & abolition) act, 1970 etc. and all other acts, rules & regulations for employment of labour as may have been and as may be enacted by the Government during the tenure of the contract and having force or jurisdiction at site. The contractor shall give to the local government body, police, labour authorities and other relevant authorities and all such intimation and notices as may be required by law and appraise BHEL site-in-charge of such compliance.

- ii) The contractor shall pay all taxes, fees, licence charges, deposits, duties, fines, royalty commissions or other charges which may be leviable on account of any of his operations in executing the contract. In case, BHEL is forced to pay any of such taxes, BHEL shall have the right to recover the same from the contractor either from his bills or other issue as deemed fit.
- iii) The contractor shall obtain requisite licence from appropriate authority of the ministry of labour under the provision of the contract labour (Regulation and abolition) Act as soon as the work is awarded to him and indemnify BHEL against the application of any provisions of the act.
- iv) The contractor shall be responsible for provision of welfare and health of his employees / workmen, more particularly described in the contract labour (Regulation & abolition) act / rules, and safety precautions etc., as may be required for satisfactory execution of the contract.
- v) The contractor shall fulfil all his obligations in respect of canteens, rest rooms, accommodation including proper medical facilities etc. for the personnel employed by him, more particularly described in the contract labour (regulation & abolition) act / rules.
- vi) The contractor will be directly responsible for payment of wages to his workmen more specifically described in the contract labour (regulation and abolition) act / rules. A pay roll sheet showing all the wage payments representative should be furnished to BHEL site office for record purpose. BHEL site in-charge may be intimated the date of disbursement of wages to the workmen engaged for the work; so that his representative can witness the same. The contractor shall indemnify BHEL against any statutory liability on account of dues to his workmen.
- vii) The bidders should be having appropriate licence from the local Boiler Inspectorate if the job involves welding of pressure parts. Also they should be having alloy steel / carbon steel high pressure welders (for PIG and submerged arc welding approved by the local Boiler Inspectorate for welding the pressure parts. The bidders should clearly indicate the same in the offer.



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03. TERMS OF PAYMENT:

- i) No advance shall be payable to the contractor unless specifically spelt out in the tender enquiry.
- ii) A minimum time of fifteen days will be required for the processing of bills presented and for their payment.
- iii)
 - a) **80% of the contract value shall be payable against submission of three progressive running bills. Each of the billed amount shall correspond to the quantum of job actually completed and to that effect the claim can be preferred based on percentage allotments (to be given in the work order) made. This, however, has to be certified by the resident manager / engineer of the site.**
 - b) **10% of contract value shall be payable after submission of statutory documents & 'no due certificate from customer's personal department'.**
 - c) **Balance 10% of contract value shall be paid after successful synchronization / commissioning and on receipt of final payment by BHEL from Customer.**

BHEL at its discretion may further split up the percentage break up given in billing schedule and effect payment to suit site condition, cash flow requirement etc. according to progress of work.
- iv) The bidder should be financially sound to maintain the site establishment with regard to timely payment of wages to his workmen, arrangements of other inputs viz. T&P consumables etc.
Non-receipt of progressive payment from BHEL due to any reasons should not be a constraint for the smooth execution of the job at site.
- v) The bidder should make all out efforts to provide all inputs in consultation with BHEL engineers at site for completing the job in the specified time frame.
- vi) No over run/escalation / idle charges are payable against any services job under any circumstances. (in exceptional cases such claims may be considered provided BHEL's customer admits of such payment).
- vii) Extra work rate being admitted off by BHEL for other similar contracts have been stated on the page no.10 of this annexure.

For any additional work not envisaged in the scope of work or quantities exceeding the stated quantities, these rates shall be applicable.
- viii) All claims for extra works should be settled before claiming the final (10%) bill. The contractor should prefer the final claim with the certificate that 'no other claim is due from BHEL against this contract', without which final bill cannot be processed for payment.
- ix) For reduction / deletion / withdrawal in the scope of work proportionate deduction in contract value will be made.



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4. PERFORMANCE:

- i) As soon as job is awarded, the contractor has to submit a barchart to the resident engineer nominated showing the detailed schedule for all activities.

This schedule will be reviewed by the resident engineer from time to time to enable the contractor to recast the barchart matching the planned completion of the job.

- ii) It shall be the responsibility of the contractor's supervisor to distribute the work among his workmen deployed at site and get day to day activities executed as per BHEL's requirement.

BHEL's engineers / supervisors will check the correctness of the job done and will also give the daily programme of work to the contractors supervisor. The contractor has to ensure completion of daily programme and if there is any spill over, the same has to be completed by putting in same additional resources. (Technical guidance wherever required will be provided by BHEL).

- iii) The scope of work mentioned in this tender enquiry gives the broad outline of the actual work involved and it not is possible to mention all minute details of the work. For proper evaluation, the bidders may seek clarifications from this office. Or else, they may visit site and study the job content before submitting offers and be well informed and acquainted with the actual working and other prevalent conditions of the site, facilities available etc.

No claim will be entertained later on the ground of lack of knowledge.

- iv) The bidders have to furnish the bio-data and experience details of the site-in-charge, other key workmen, supervisors, senior technicians etc. to be deployed. In case of award of contract, the key members of the contractor's team may be interviewed at site by BHEL's resident engineer to ascertain their suitability. Replacement of non-acceptable personnel will have to be arranged by the contractor immediately at his own cost.
- v) Penalty for the delay in job completion will be 0.5% per day of delay, limiting to maximum 10% of the contract value, to be imposed on the contractor in case the delay in work completion is attributable to the lapses on the part of the contractor.
- vi) Performance Guarantee: Even though the work will be carried out under supervision of BHEL Engineers, the contractor shall guarantee against defects attributable to faulty workmanship or procedure



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adopted in the overhaul for items covered in the contract for a period of Six months from the date of re-commissioning of the set after the overhaul. The guarantee should cover all defects notified during this period and shall have to be attended free of cost immediately or at the time our clients are able to give shutdown of the set for the required period, when necessary. In case of failure of contractor to attend to the defect as and when required in time, BHEL shall arrange to attend the defects and the charges shall be levied to the contractor's account and shall be recoverable from the security deposit / progressive payments.

5. MISCELLANEOUS:

- i) The bidders shall submit a list of jobs being carried out by them or expected to be taken up by them during the period as called for in the participation of the tender.

Enclosure – 6.

- ii) The contractor has to engage a cleaning gang at site to ensure continuous cleaning of the floor at work site to protect the parts and to give safe access at the work site.
- iii) Obtaining licenses / permits / road permits in connection with the fulfillment of the contractual obligations is entirely the contractors responsibility. However, wherever applicable BHEL can only offer support to the extent possible.
- iv) For all matters bearing on the execution of the job at site, the decisions of the resident engineer are final and binding upon the contractor.
- v) The contractor has to retain suitable minimum work force at site for a period of one month from the date of completion or work / commissioning, to attend any small / miscellaneous problems, as leakage etc.
- vi) The contractor has to mobilize on a short notice (within 4 days) to attend any troubles encountered in the equipment worked on, during warranty period of six months.
- vii) After dismantling and during execution of the job, successful bidder has to suitably tag the components and sub-assemblies for traceability and store properly before final assembly. This is as per Doc. Nos. PSER:PMX:002:94 & PSER:PMX:001:94.
- viii) Process control of Special Processes like Welding and Heat Treatment shall be carried by successful bidder as per Doc. Nos. PSER:QLY:001:99, PSER:QLY:001:94 (3 VOL) and PSER:QLY: 003:99.



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- ix) Proper segregation, identification, tagging and up-keep of all dismantled items at work site during job execution have to be done by successful bidder.
- x) Successful bidder is to obtain necessary "No Dues" certificates before de-mobilisation from site.
- xi) Any NDT within the scope shall be as per Non-Destructive Examination manual (Doc. No. PSER:QLY:002:99 available with BHEL site engineer).
- xii) Unless otherwise mentioned specifically in this tender elsewhere, the storage & preservation of components, sub-assemblies, IMTEs, T&Ps, Construction Equipments etc, maintenance of stores, watch and ward of stores and BHEL site office is in the scope of the successful bidder.
- xiii) The successful bidder is to arrange extra illumination at work site to augment the existing site illumination if required to enable round-the-clock safe working.

Note: Any of the documents mentioned above can be referred before submission of tender at the office of PSER:SAS(CAL).

EXTRA WORK RATES CURRENTLY BEING ADMITTED BY BHEL, PS-ER

- A. The following all inclusive manhour rates will be applicable for modification, rectification work and services work.

(For all categories)

- a) Average single manhour rate including overtime if any, supervision, T&P, other site expenses and incidentals including consumables as certified by site-in-charge of BHEL.

Rs. 18/- per man-hour (Rupees Eighteen only per man-hour)

- b) Same as above (a) but excluding supply of consumables by vendor.

Rs. 12/- per man-hour (Rupees Twelve only per man-hour)

- B. The following all inclusive rates will be applicable for modification work involving welding of high pressure butt joints only. Extra work involving other types of joints will be done on the above manpower basis.

Unit rate per equivalent joint of size OD 63.5 mm x 6.3 mm thick

Average unit rate per equivalent joint,
including NDT and stress relieving.



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Carbon Steel

Rs.200/- (Rs. Two hundred only)

Alloy Steel

Rs.250/- (Rs. Two hundred fifty only)



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List of enclosure to be furnished by the bidder along with tender documents.

- | | | |
|----|-----------------------------------------------------------------|----------------|
| a) | Experience certificate | Enclosure 1 * |
| b) | Banker's certificate of financial soundness as per BHEL' format | Enclosure 2 * |
| c) | IT / ST clearance certificate | Enclosure 3. |
| d) | Organisation Chart | Enclosure 4. * |
| e) | List of concurrent jobs held by the contractor / bidder. | Enclosure 5. |
- (* Vendors registered with BHEL should submit documents in support of sl. no. c only.)

List of documents to be furnished by the contractor to the resident engineer before commencement of the jobs / during the execution.

- i) Barchart (if not furnished in the offer)
- ii) List of T&P being mobilized. Test / Calibration certificate with date of validity for lifting / pulling devices and measuring / test instrument (if not furnished in the offer).
- iii) Category wise list of manpower being mobilized. iv)
List of consumables being mobilized.
- v) Licence from the department of Labour under contract Labour (Regulation & Abolition) Act / Proof of Application for Lincence.
- vi) ESI coverage, if applicable.
- vii) Insurance certificate covering the site personnel.
- viii) Proof of remittance of provident fund to the concerned authorities, for all workmen employed for this job.
- ix) Third party insurance coverage.



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ANNEXURE - VI

QUESTIONNAIRE TO BE FILLED IN BY THE BIDDER, SIGNED WITH DATE AND SEAL, AND TO BE RETURNED ALONG WITH TECHNICAL TENDER.

BIDDER'S NON-ACCEPTANCE OF TENDER REQUIREMENTS CAN DISQUALIFY HIS BID FOR OPENING OF "PRICE BID"

TENDER NO: PSER:SCT:

DATE:/...../20.....

- 01 NAME OF THE ORGANISATION.
ADDRESS, TELEPHONE / FAX NO. :
.....
.....
.....
.....
- 02 MODE AND PARTICULARS OF EMD
ENCLOSED
- 03 BANKER'S CERTIFICATE FOR FINANCIAL : Enclosed / Not enclosed.
SOUNDNESS / CAPABILITY TO
UNDERTAKE WORK.
04. IS THE FIRM HAVING VALID TESTED / : YES / NO.
CALIBRATED TOOLS AND MEASURING
INSTRUMENT REQUIRED FOR THIS TYPE
OF JOB AND EQUIPMENT.
05. ORGANISATION CHART / MANPOWER : Enclosed / Not enclosed.
06. STATUTORY REQUIREMENTS AS PER :
RELEVANT ACTS WITH LATEST
AMENDMENT (Pl. tick out)
- i) LICENCE FOR EMPLOYING : Will be complied with
CONTRACT LABOUR
- ii) MINIMUM WAGES ACT : - do -
- iii) INSURANCE OF SITE PERSONNEL : - do -
EMPLOYED.
- iv) WORKMEN'S COMPENSATION ACT : - do -
- v) THIRD PARTY INSURANCE : Will be complied with
- vi) EMPLOYEE'S LIABILITY ACT
- vii) INDUSTRIAL DISPUTES ACT : - do -
- viii) EMPLOYEE'S PROVIDENT FUNDS : - do -
ACT



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- ix) CONTRACT LABOUR : - do -
(REGULATION AND ABOLITION)
ACT / RULES
- x) SAFETY APPLIANCES / DEVICES : - do -
FOR WORKMEN
- xi) BOILER INSPECTORATE : - do -
- xii) ARBITRATION ACT : - do -
07. AGREEABILITY TO "NO OVERRUN : Agreeable
CHARGES" CLAUSE
08. AGREEABILITY TO "NO IDLE TIME : Agreeable
CHARGES" CLAUSE
09. AGREEABILITY TO EXECUTE FULL : Agreeable
SCOPE OF WORK OF TENDER ENQUIRY
(INCLUDING RELATED MINOR
ACTIVITIES).

Signature of the bidder :

Date :

Name of the person signing :

Designation :

SEAL
