

E-TENDER SPECIFICATION

No. BHE/PW/PUR/RMG/SH/3277

Scope of Work: SHORTENING OF LENGTH OF SH PLATEN ASSEMBLIES, FSH FRONT & REAR COIL ASSY. REMOVAL OF 02 INNERMOST ELEMENTS FROM EACH PLATEN SUPER HEATER ASSEMBLY, HEADER END PLUGS/BLANKED ARE TO BE INSTALLED, WELDED AT THE END OF HEADER NIPPLES OF PSH ALONG WITH CUP LOCK SCFFOLDING ARRANGEMENT AND ERECTION & DISMANTLING UPTO BOTTOM OF PSH, HYDRAULIC TEST OF THESE NEW COILS ALONG WITH OTHER RELATED CIRCUITS OF BOILER AT UNIT#01 OF 2X800 MW TSTPP, NTPC RAMAGUNDAM, TELANGANA.

VOLUME I - TECHNICAL BID

THIS TENDER SPECIFICATION CONSISTS OF:

Notice Inviting Tender	
Volume-IA	Technical Conditions of Contract
Volume-IB	Special conditions of Contract
Volume-IC	General conditions of Contract
Volume-ID	Forms & Procedures
Volume-IE	Technical Annexures
Volume II	Price Bid



CONTENTS		
Volume No	Description	Hosted in website bhel.com (Briefly) and detailed in BHEL e-Procurement Portal as files titled
NIL	Tender Specification Issue Details	(Part of <u>Vol-IA-3277</u>)
NIL	Notice Inviting Tender	(Part of <u>Vol-IA-3277</u>)
I-A	Technical Conditions of Contract	Vol-I-A-3277
I-B	Special Conditions of Contract	Vol-I-BCD-3277
I-C	General Conditions of Contract	(Part of Vol-I-BCD-3277)
I-D	Forms & Procedures	(Part of Vol-I-BCD-3277)
II	Price Bid Specification as specified in E-Procurement Portal	Volume-II-Price Bid-3277

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

E-TENDER SPECIFICATION

No. BHE/PW/PUR/RMG/SH/3277

Scope of Work: SHORTENING OF LENGTH OF SH PLATEN ASSEMBLIES, FSH FRONT & REAR COIL ASSY. REMOVAL OF 02 INNERMOST ELEMENTS FROM EACH PLATEN SUPER HEATER ASSEMBLY, HEADER END PLUGS/BLANKED ARE TO BE INSTALLED ,WELDED AT THE END OF HEADER NIPPLES OF PSH ALONG WITH CUP LOCK SCFFOLDING ARRANGEMENT AND ERECTION & DISMANTLING UPTO BOTTOM OF PSH, HYDRAULIC TEST OF THESE NEW COILS ALONG WITH OTHER RELATED CIRCUITS OF BOILER AT UNIT#01 OF 2X800 MW TSTPP, NTPC RAMAGUNDAM, TELANGANA.

EARNEST MONEY DEPOSIT: Refer Notice Inviting Tender

LAST DATE FOR TENDER SUBMISSION Refer Notice Inviting Tender .

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

M/s.

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PLEASE NOTE:
THESE TENDER SPECS DOCUMENTS ARE NOT TRANSFERABLE.

For Bharat Heavy Electricals Limited

GM (Purchase)

Place: Nagpur
Date:

3277

NOTICE INVITING TENDER

Bharat Heavy Electricals Limited



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Date: 31-07-2026

NOTICE INVITING TENDER (NIT)
NOTE: BIDDER MAY DOWNLOAD FROM WEB SITES

To,

Dear Sir/Madam,

Sub : **NOTICE INVITING E-TENDER**

Sealed offers in two part bid system (National competitive bidding (NCB) or ~~International Competitive Bidding (ICB)~~ are invited from reputed & experienced bidders (meeting PRE QUALIFICATION CRITERIA as mentioned in Annexure-1) through E-Procurement Portal <https://eprocurebhel.co.in> only, for the subject job by the undersigned on the behalf of BHARAT HEAVY ELECTRICALS LIMITED as per the tender document. Following points relevant to the tender may please be noted and complied with.

1.0 Salient Features of NIT

S No.	ISSUE	DESCRIPTION
i	TENDER NUMBER	BHE/PW/PUR/RMG/SH/3277
ii	Broad Scope of job	SHORTENING OF LENGTH OF SH PLATEN ASSEMBLIES, FSH FRONT & REAR COIL ASSY. REMOVAL OF 02 INNERMOST ELEMENTS FROM EACH PLATEN SUPER HEATER ASSEMBLY, HEADER END PLUGS/BLANKED ARE TO BE INSTALLED ,WELDED AT THE END OF HEADER NIPPLES OF PSH ALONG WITH CUP LOCK SCFFOLDING ARRANGEMENT AND ERECTION & DISMANTLING UPTO BOTTOM OF PSH, HYDRAULIC TEST OF THESE NEW COILS ALONG WITH OTHER RELATED CIRCUITS OF BOILER AT UNIT#01 OF 2X800 MW TSTPP, NTPC RAMAGUNDAM, TELANGANA.
iii	DETAILS OF TENDER DOCUMENT	
A	Volume-IA	Technical Conditions of Contract (TCC) consisting of Scope of work, Technical Specification, Drawings, Procedures, Bill of Quantities, Terms of payment, etc. Applicable
B	Volume-IB	Special Conditions of Contract (SCC) Applicable
C	Volume-IC	General Conditions of Contract (GCC) Applicable
D	Volume-ID	Forms and Procedures Applicable
E	Volume-IE	Technical Annexures Applicable
F	Volume-II	Price Schedule (Absolute value). Applicable
iv	Issue of Tender Documents	Tender documents will be available for downloading from BHEL website (www.bhel.com) or e-procurement portal (https://eprocurebhel.co.in) as per schedule below: Start: 31/07/2026, Time :17:00 Hrs Closes: 10/08/2026, Time: 13:00 Hrs Brief information of the tenders shall also be available Applicable

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S No.	ISSUE	DESCRIPTION	
		at central public procurement portal. (https://eprocure.gov.in/epublish/app)	
v	DUE DATE & TIME OF OFFER SUBMISSION	Date: 10/08/2026, Time 13:00 Hrs The bidder should submit their offer online only in e-Procurement portal at https://eprocurebhel.co.in <u>Bidders are requested to upload their offer well in advance in order to avoid last minute congestion at this website.</u> Hard copy bid or bids through E-mail / fax shall not be accepted.	Applicable
vi	OPENING OF TENDER (Techno-Commercial Bid)	Date: 10/08/2026, Time: 17:00 Hrs Notes: (1) In case the due date of opening of tender becomes a non-working day, then the due date & time of offer submission and opening of tenders get extended to the next working day. (2) Bidder may depute representative to witness the opening of tender. For e-Tender, Bidder may witness the opening of tender through e-Procurement portal only.	Applicable
vii	EMD AMOUNT	Rs. 2,00,000/- (Rupees Two Lakhs Only) Important Note: Bidders kindly to take note that EMD (Earnest Money Deposit) shall be furnished by MSE bidders as well, as per the amount and procedure indicated in the NIT/GCC	Applicable
viii	COST OF TENDER	NIL	Not Applicable
ix	LAST DATE FOR SEEKING CLARIFICATION	One day before due date of offer submission. Along with soft version also, addressing to undersigned & to others as per contact address given below: 1) Name: Chaitram Patel Designation: Sr. Engineer Deptt: Purchase Address: Floor no. 5 & 6, Shree Mohini Complex, 345 Kingsway, Nagpur-440001 Mobile-8055451608 Email : chaitram@bhel.in 2) Name: Biraj Roy Designation: Sr. Manager Deptt: Purchase Address: Floor no. 5 & 6, Shree Mohini Complex, 345 Kingsway, Nagpur-440001 Mobile-9587886706	Applicable

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

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S No.	ISSUE	DESCRIPTION	
		Email : biraj@bhel.in 3) Name: Varun Vaidya Designation: Sr.Manager Deptt: Purchase Address: Floor no. 5 & 6,Shree Mohini Complex, 345 Kingsway, Nagpur-440001 Mobile-9792334127 Email : vaidya@bhel.in 4) Mr. VK Arya Designation: GM Deptt: Purchase Address: Floor no. 5 & 6,Shree Mohini Complex, 345 Kingsway, Nagpur-440001 Email: vkarya@bhel.in	
x	SCHEDULE OF Pre Bid Discussion (PBD)	---	Not Applicable
xi	INTEGRITY PACT & DETAILS OF INDEPENDENT EXTERNAL MONITOR (IEM)	1) Dr. Sarat Kumar Acharya, Ex-CMD, NLC 2) Shri R. Mukundan, IRPS (Retd.) 3) Shri Madan Lal Meena, IAS (Retd.)	Applicable
xii	Latest updates	Latest updates on the important dates, Amendments, Correspondences, Corrigenda, Clarifications, Changes, Errata, Modifications, Revisions, etc to Tender Specifications will be hosted in BHEL webpage (www.bhel.com-->Tender Notifications →View Corrigendum), & on e-tender portal https://eprocurebhel.co.in and not in the newspapers. Bidders to keep themselves updated with all such information.	

2.0 The offer shall be submitted as per the instructions of tender document and as detailed in this NIT. Bidders to note specifically that all pages of tender document, including these NIT pages of this particular tender together with subsequent correspondences shall be submitted by them, duly signed digitally using Class III DSC & uploaded in E-Procurement Portal, as part of offer. **Rates/Price including discounts/rebates, if any, mentioned anywhere/in any form in the techno-commercial offer other than the Price Bid, shall not be entertained.**

3.0 Not Used

4.0 Unless specifically stated otherwise, bidder shall deposit EMD as per clause 1.9 of General Conditions of Contract.

For Electronic Fund Transfer the details are as below:-

NAME OF THE BENEFICIARY	BHARAT HEAVY ELECTRICALS LTD
ADDRESS OF THE COMPANY	5th Floor, SHREE MOHINI COMPLEX 345, KINGSWAY,NAGPUR
NAME OF BANK	STATE BANK OF INDIA

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

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NAME OF BANK BRANCH AND BRANCH CODE	SBI,NAGPUR MAIN BRANCH ,CODE-00432
CITY	NAGPUR
ACCOUNT NUMBER	40227423158
ACCOUNT TYPE	MC-C C Clean (C&I)
IFSC CODE OF THE BENEFICIARY BANK BRANCH	SBIN0000432
MICR CODE OF THE BANK BRANCH	440002002

(Note -: In case of E-Tenders, proof of remittance of EMD should be uploaded in the E-Procurement Portal and originals, as applicable, shall be sent to the officer inviting tender within a reasonable time, failing which the offer is liable to be rejected.

(Note -: In case of E-Tenders, proof of remittance of EMD should be uploaded in the E-Procurement Portal and originals, as applicable, shall be sent to the officer inviting tender within a reasonable time, failing which the offer is liable to be rejected.

5.0 Procedure for Submission of Tenders:

This is an E-tender floated online through our E-Procurement Site (<https://eprocurebhel.co.in>). The bidder should respond by submitting their offer online only in our e-Procurement platform at (<https://eprocurebhel.co.in>). Offers are invited in two-parts only.

Documents Comprising the e-Tender

The tender shall be submitted online ONLY EXCEPT EMD (in physical form) as mentioned below:

a. Technical Tender (UN priced Tender)

All Technical details (e.g. Eligibility Criteria requested (as mentioned below)) should be attached in e-tendering module, failing which the tender stands invalid & may be REJECTED. Bidders shall furnish the following information along with technical tender (preferably in pdf format):

- i. Earnest Money Deposit (EMD) furnished in accordance with NIT Clause 4.0. ~~Alternatively, documentary evidence for claiming exemption as per clause 29 of NIT.~~
- ii. Technical Bid (without indicating any prices).

b. Price Bid:

- i. Prices are to be quoted in the attached Price Bid format online on e-tender portal.
- ii. The price should be quoted for the accounting unit indicated in the e-tender document.

Note:

- It is the responsibility of tenderer to go through the Tender document to ensure furnishing all required documents in addition to above, if any. Any deviation would result in REJECTION of tender and would not be considered at a later stage at any cost by BHEL.

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- A person signing (manually or digitally) the tender form or any documents forming part of the contract on behalf of another shall be deemed to warrantee that he has authority to bind such other persons and if, on enquiry, it appears that the persons so signing had no authority to do so, the purchaser may, without prejudice to other civil and criminal remedies, cancel the contract and hold the signatory liable for all cost and damages.
- A tender, which does not fulfil any of the above requirements and/or gives evasive information/reply against any such requirement, shall be liable to be ignored and rejected.

DO NOT'S

Bidders are requested NOT to submit the hard copy of the Bid. In case offer is sent through hard copy/fax/telex/cable/electronically in place of e-tender, the same shall not be considered. Also, uploading of the price bid in prequalification bid or technical bid may **RESULT IN REJECTION** of the tender.

Digital Signing of e-Tender

Tenders shall be uploaded with all relevant PDF/zip format. The relevant tender documents should be uploaded by an authorized person having Class 3- SHA2- 2048 BIT- SIGNING & ENCRYPTION digital signature certificate (DSC).

The Requirement:

1. A PC with Internet connectivity &
2. DSC (Digital Signature Certificate) (Class 3- SHA2- 2048 BIT- SIGNING & ENCRYPTION)

BHEL has finalized the e-procurement service Provider:-

NIC PORTAL (<https://eprocurebhel.co.in>)

For E-PROCUREMENT ASSISTANCE & TRAINING, NIC PORTAL HELPDESK CONTACTS AS PER FOLLOWING:

For any technical related queries, please call at 24 x 7 Help Desk Number

0120-4001 002

0120-4200 462

0120-4001 005

0120-6277 787

1. Peter Raj, NIC, Ph: 9942069052

Email Support: support-eproc@nic.in

Other details/update yourself from : <https://eprocurebhel.co.in>

The process of utilizing e-procurement necessitates usage of **DSC (Digital Signature Certificate) (Class 3- SHA2- 2048 BIT- SIGNING & ENCRYPTION)** and you are requested to procure the same immediately, if not presently available with you. Please note that only with DSC, you will be able to login the e-procurement secured site and take part in the tendering process.

The contact details of the DSC certifying authority:-

please refer <http://www.mca.gov.in/> →MCA SERVICES → DSC SERVICES

Vendors are requested to go through seller manual available on <https://eprocurebhel.co.in>.

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Procedure for Submission of Tenders (To be used in case of Paper bid only): The Tenderers must submit their Tenders to Officer inviting Tender, as detailed below:

- ~~PART-I consisting of 'PART-I A (Techno Commercial Bid)' & 'PART-I B (EMD)' in two separate sealed and superscribed envelopes (ENVELOPE-I & ENVELOPE-II)~~
 - ~~PART-II (Price Bid) in sealed and superscribed envelope (ENVELOPE-III)~~
- One set of tender documents shall be retained by the bidder for their reference

6.0 The contents for ENVELOPES and the superscription for each sealed cover/Envelope are as given below. ~~(All pages to be signed and stamped) (To be used in case of Paper bid only):~~

Sl. no.	Description	Remarks
	Part-I A	
	<u>ENVELOPE - I superscribed as:-</u> PART-I (TECHNO COMMERCIAL BID) TENDER NO : NAME OF WORK : PROJECT: DUE DATE OF SUBMISSION: <u>CONTAINING THE FOLLOWING:-</u>	
i. —	Covering letter/Offer forwarding letter of Tenderer.	
ii. —	Duly filled-in 'No Deviation Certificate' as per prescribed format to be placed after document under sl no (i) above. <u>Note:</u> a. In case of any deviation, the same should be submitted separately for technical & commercial parts, indicating respective clauses of tender against which deviation is taken by bidder. The list of such deviation shall be placed after document under sl no (i) above. It shall be specifically noted that deviation recorded elsewhere shall not be entertained. b. BHEL reserves the right to accept/reject the deviations without assigning any reasons, and BHEL decision is final and binding. - i). In case of acceptance of the deviations, appropriate loading shall be done by BHEL - ii). In case of unacceptable deviations, BHEL reserves the right to reject the tender	
iii. —	Supporting documents/ annexure/ schedules/ drawing etc. as required in line with Pre-Qualification criteria. It shall be specifically noted that all documents as per above shall be indexed properly and credential certificates issued by clients shall distinctly bear the name of organization, contact ph. no, FAX no, etc.	
iv. —	All Amendments/Correspondences/Corrigenda/Clarifications/Changes/Errata etc. pertinent to this NIT.	
v. —	Integrity Pact Agreement (Duly signed by the authorized signatory)	If applicable
vi. —	Duly filled-in annexures, formats etc. as required under this Tender Specification/NIT	
vii. —	Notice inviting Tender (NIT)	
viii. —	Volume - I A : Technical Conditions of Contract (TCC) consisting of Scope of work, Technical Specification, Drawings, Procedures, Bill of Quantities, Terms of payment, etc.	
ix. —	Volume - I B : Special Conditions of Contract (SCC)	
x. —	Volume - I C : General Conditions of Contract (GCC)	

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xi.	Volume – I D : Forms & Procedures	
xii.	Volume – II (UNPRICED – without disclosing rates/price, but mentioning only 'QUOTED' or 'UNQUOTED' against each item	
xiii.	Any other details preferred by bidder with proper indexing.	

	PART-I B	
	ENVELOPE – II superscribed as: PART-I (EMD) TENDER NO : NAME OF WORK : PROJECT: DUE DATE OF SUBMISSION: CONTAINING THE FOLLOWING:- Earnest Money Deposit (EMD) in the form as indicated in this Tender	

	PART-II	
	PRICE BID consisting of the following shall be enclosed	
	ENVELOPE-III superscribed as: PART-II (PRICE BID) TENDER NO : NAME OF WORK : PROJECT: DUE DATE OF SUBMISSION: CONTAINING THE FOLLOWING	
i	Covering letter /Offer forwarding letter of Tenderer enclosed in Part-I	
ii	Volume II – PRICE BID (Duly Filled in Schedule of Rates – rate/price to be entered in words as well as figures)	

	OUTER COVER	
	ENVELOPE-IV (MAIN ENVELOPE / OUTER ENVELOPE) superscribed as: TECHNO-COMMERCIAL BID, PRICE BID & EMD TENDER NO: NAME OF WORK: PROJECT: DUE DATE OF SUBMISSION: CONTAINING THE FOLLOWING:	
i	⊖ Envelopes I ⊖ Envelopes II ⊖ Envelopes III	

- **SPECIAL NOTE: All documents/ annexures to be submitted should be uploaded in respective places in the E-Tender portal as per the list mentioned given in this NIT. BHEL shall not be responsible for any in-complete documents.**

7.0 Deviation with respect to tender clauses and additional clauses/suggestions in Techno-commercial bid / Price bid shall NOT be considered by BHEL. Bidders are requested to positively comply with the same.

8.0 BHEL reserves the right to accept or reject any or all Offers without assigning any reasons thereof. BHEL also reserves the right to cancel the Tender wholly or partly without assigning any reason

thereof. Also BHEL shall not entertain any correspondence from bidders in this matter (except for the refund of EMD).

9.0 Assessment of Capacity of Bidders:

Bidder's capacity for executing the job under tender shall be assessed based on its 'LOAD and PERFORMANCE' and 'TURNOVER', as per the following:

- I. **LOAD**: Load takes into consideration **ALL** the contracts of the Bidder under execution with BHEL Regions, irrespective of whether they are similar to the tendered scope or not. The cut off month for reckoning 'Load' shall be the last Month preceding the month corresponding to the 'latest date of bid submission', in the following manner - (**Note:** For example, if latest bid submission is in Jan 2026, then the 'load' shall be calculated up to and inclusive of Dec 2025)

Total number of LOAs in hand = Load (P)

Where 'P' is the sum of all LOAs under execution with BHEL Regions as on the cut off month defined above, excepting LOAs which are on Long Hold, or yet to start, or whose evaluation has been completed upto last month preceding the month corresponding to the 'latest date of bid submission'.

For example, if latest bid submission is in Jan 2026, then the

- i) LOA with start date in Dec-2025 shall be considered in Load.
- ii) LOA with finish date in Dec-2025 shall not be considered in Load.

- II. **PERFORMANCE**: Here 'Monthly Performance' of the bidder for all the packages (under execution/ executed during the 'Period of Assessment' in all Power Sector Regions of BHEL) **SIMILAR** to the packages covered under the tendered scope, excepting packages not commenced shall be taken into consideration. The 'Period of Assessment' shall be 6 months preceding and including the cut off month. The cut off month for reckoning 'Period of Assessment' shall be the 2nd Month preceding the month corresponding to 'latest date of bid submission', in the following manner:

(**Note:** For example, if 'latest date of bid submission' is in Jan 2026, then the 'performance' shall be assessed for a 6 months' period up to and inclusive of Nov 2025 (i.e. from June 2025 to Nov 2025), for all the unit wise identified packages (refer Table I))

- i). **Calculation of Overall 'Performance Rating' for 'Similar Package/Packages' for the tendered scope under execution at Power Sector Regions for the 'Period of Assessment':**

This shall be obtained by summing up the 'Monthly Performance Evaluation' scores obtained by the bidder in all Regions for all the similar

.....
Package/packages', divided by the total number of Package months for which evaluation should have been done, as per procedure below:

- a) $P_1, P_2, P_3, P_4, P_5, \dots, P_N$ etc. be the packages (under execution/ executed during the 'Period of Assessment' in all Regions of BHEL) **SIMILAR** to the packages covered under the tendered scope, excepting packages not commenced. Total number of similar packages for all Regions = P_T (i.e. $P_T = P_1 + P_2 + P_3 + P_4 + \dots + P_N$)
- b) Number of Months ' T_1 ' for which 'Monthly Performance Evaluation' as per relevant formats, should have been done in the 'Period of Assessment' for the corresponding similar package P_1 . Similarly T_2 for package P_2 , T_3 for package P_3 , etc. for the tendered scope. Now calculate cumulative total months ' T_T ' for total similar Packages ' P_T ' for all Regions (i.e. $T_T = T_1 + T_2 + T_3 + T_4 + \dots + T_N$)
- c) Sum ' S_1 ' of 'Monthly Performance Evaluation' Scores ($S_{1-1}, S_{1-2}, S_{1-3}, S_{1-4}, S_{1-5}, \dots, S_{1-T_1}$) for similar package P_1 , for the 'period of assessment' ' T_1 ' (i.e. $S_1 = S_{1-1} + S_{1-2} + S_{1-3} + S_{1-4} + S_{1-5} + \dots + S_{1-T_1}$). Similarly, S_2 for package P_2 for period T_2 , S_3 for package P_3 for period T_3 etc. for the tendered scope for all Regions. Now calculate cumulative sum ' S_T ' of 'Monthly Performance Evaluation' Scores for total similar Packages ' P_T ' for all Regions (i.e. ' S_T ' = $S_1 + S_2 + S_3 + S_4 + S_5 + \dots + S_N$.)
- d) **Overall Performance Rating ' R_{BHEL} ' for the Similar Package/Packages** (under execution/ executed during the 'Period of Assessment') in all the Power Sector Regions of BHEL

Aggregate of Performance scores for all similar packages in all the Regions

=

Aggregate of months for each of the similar packages for which performance

should have been evaluated in all the Regions

$$= \frac{S_T}{T_T}$$

- e) Bidders to note that the risk of non-evaluation or non-availability of the 'Monthly Performance Evaluation' reports as per relevant formats is to be borne by the Bidder.
- f) Table showing methodology for calculating 'a', 'b' and 'c' above

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total number of Package months for which evaluation should have been done. 'R_{BHEL}' shall be calculated subject to availability of 'performance scores' for at least 6 'package months' in the order of precedence below:

- a) 'Period of Assessment' i.e. 6 months preceding and including the cut-off month
- b) 12 months preceding and including the cut-off month
- c) 24 months preceding and including the cut-off month

In case, R_{BHEL} cannot be calculated as above, then Bidder shall be treated as 'NEW VENDOR'. Further eligibility and qualification of this bidder shall be as per definition of 'NEW VENDOR' described in 'Explanatory Notes'.

- iii). Factor "L" assigned based on Overall Performance Rating (R_{BHEL}) at Power Sector Regions:

Sl. no.	Overall Performance Rating (R _{BHEL})	Corresponding Value of 'L'
1	≥ 60 and < 62	NA
2	≥ 62	0.45

- iv). Performance Systems: The performance rating as mentioned in II (i) and (ii) above, shall be calculated as per Online Systems i.e. Contractor Performance Evaluation System (CPES) and Safety Performance Evaluation System (HSEPES). The scores assigned in HSEPES shall be scaled down to 10 and assigned in CPES against the category "HSE" (mentioned in Form F-15).

III. i) 'Assessment of Capacity based on 'LOAD and PERFORMANCE':

- a) 'Assessment of Capacity of Bidder' is based on the Maximum number of LOAs for which a vendor is eligible, considering the performance scores of similar packages, as below:

Max number of-LOA $P_{Max} = (R_{BHEL} - 60)$ divided by corresponding value of 'L', i.e. $(R_{BHEL} - 60)/L$

Note:

- i). In case the value of P_{Max} results in a fraction, the value of P_{Max} is to be rounded off to next whole number
- ii). For $R_{BHEL} \geq 60$ and < 62 , $P_{Max} = '5'$

The Bidder shall be considered 'Qualified' on 'Performance basis' as per 'Assessment of Capacity of Bidder' for the subject Tender if $P \leq P_{Max}$
(Where P is calculated as per clause 'I' above)

- b) In addition to above, the contractor shall be considered disqualified for ongoing tender(s) of BHEL, in case contractor fails to obtain an overall average score of 6 or more than 6 (six) (in the scaled down scores of HSEPES) out of 10 considered for Performance Rating as per sl no II (ii), in a period of '6 months preceding and including the cut-off month'. The period of '6 months preceding and including the cut-off month' can be extended to 12 months and further to 24 months, to account for 'performance scores' for at least 6 'package months'. Bidders who did not qualify this condition shall not be considered under the provisions of clause 9 IV (iv) of NIT.

ii) Assessment of Capacity based on 'TURNOVER':

If the 'value of contracts in hand' across all PS Regions by a contractor is less than the product of "maximum of 'annual average turnover for last 3 years' or 'latest FY turnover' of the Contractor and multiplying factor", then such bidder shall be considered qualified on 'Annual Average Turnover basis'. The 'value of contracts in hand' will be computed by summing up "50% of the annualized awarded value of each contract" unless performance evaluation is not closed in the online CPES.

Based on the performance rating of the Contractor, the above mentioned multiplying factor shall be as below:

Sl. no.	Overall Performance Rating (R_{BHEL})	(Multiplying factor to Turnover)
1	<60	0
2	≥ 60 and ≤ 62	1.0
3	> 62 and ≤ 65	1.5
4	> 65 and ≤ 70	2.0
5	> 70 and ≤ 75	2.5
6	> 75 and ≤ 80	3.0
7	> 80	3.5

'Assessment of Capacity of Bidder':

The bidder will be considered qualified for the tender if it qualifies on 'Load and Performance basis' as well as on 'Average Annual Turnover basis'.

However, 'Consortium Partner' shall be considered qualified based on only 'Overall Performance Rating ≥ 60 ' (they will be regarded pre-qualified on other criteria).

IV. Explanatory note:

i). Similar package means Boiler or ESP or Piping or Turbine or Civil or Structure or Electrical or C&I etc. at the individual level irrespective of rating of Plant and irrespective of whether the subject tender is a single package or as part of combined/composite packages. Normally Boiler, ESP, Piping, Turbine, Electrical, C&I, Civil, Structure etc. is considered individual level of package. For example, in case the tendered scope is a Boiler Vertical Package comprising of Boiler, ESP and Power Cycle Piping (i.e. the 'identified packages as per Table-1 below), the 'PERFORMANCE' part against sl.no. II above, needs to be evaluated considering all the identified packages (i.e. Boiler, ESP and Power Cycle Piping) and finally the Bidder's capacity to execute the tendered scope is assessed in line with III above.

ii). Identified Packages (Unit wise)

Table-1

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Civil	Electrical and C&I	Mechanical
i). Enabling works ii). Pile and Pile Caps iii). Civil Works including foundations iv). Structural Steel Fabrication & Erection v). Chimney vi). Cooling Tower vii). Others (Civil)	i). Electrical ii). C&I iii). Others (Elect. and C&I) iv). Electrical Enabling Works	i). Boiler & Aux (All types including CW Piping if applicable) ii). Power Cycle Piping/Critical Piping iii). ESP iv). LP Piping v). Steam Turbine Generator set & Aux vi). Gas Turbine Generator set & Aux vii). Hydro Turbine Generator set & Aux viii). Turbo Blower (including Steam Turbine) ix). Material Management x). FGD xi). ACC xii). Others (Mechanical)

iii). Bidders who have not been evaluated for at least six package months in the last 24 months preceding and including the Cut-off month in the online BHEL system for contractor performance evaluation in BHEL PS Regions, shall be considered “NEW VENDOR”.

A ‘NEW VENDOR’ shall be considered qualified subject to satisfying all other tender conditions.

A ‘NEW VENDOR’ if awarded a job (of package/ packages identified under this clause) shall be tagged as “FIRST TIMER” on the date of first LOA from BHEL. The “FIRST TIMER” tag shall remain till completion of all the contracts against which vendor has been tagged as First Timer or availability of 6 evaluation scores within last 24 months preceding and including the Cut-off month in the online BHEL system for contractor performance evaluation in BHEL PS Regions. A Bidder shall not be eligible for the next job as long as the Bidder is tagged as “FIRST TIMER” excepting for the Tenders which have been opened on or before the date of the bidder being tagged as ‘FIRST TIMER’.

After removal of ‘FIRST TIMER’ tag, the Bidder shall be considered ‘QUALIFIED’ for the future tenders subject to satisfying all tender conditions including ‘Assessment of Capacity of Bidders’. However, in case any evaluation scores are available in the last 24 months preceding and including the Cut-off month for a ‘First Timer’, the bidder shall be considered qualified only if the average of the available evaluation scores being ≥ 60 and qualified on other parameters i.e Load, HSE and Turnover.

iv). Consequent upon applying the criteria of 'Assessment of Capacity of Bidders' detailed above on all the bidders qualified against Technical and Financial Qualification criteria, if the number of qualified bidders reduces to less than four, then for further processing of the Tender, BHEL at its discretion reserves the right to also consider the bidders who are "not qualified" as per criteria of 'Assessment of Capacity of Bidders', excluding the bidders disqualified on basis of HSE (as per Sl. No. III (b)), and for this, procedure described in following four options shall be followed:

- a) All the bidders having Overall Performance Rating (R_{BHEL}) ≥ 60 shall be considered qualified against criteria of 'Assessment of Capacity of Bidders'.
- b) If even after using option "a", the number of qualified bidders remains less than four, then in addition to bidders considered as per option "a", "First timer" bidders having average of available performance scores ≥ 60 upto and including the Cut Off month shall also be considered qualified against criteria of 'Assessment of Capacity of Bidders'.
- c) If even after using option "a" and "b", the number of qualified bidders remains less than four, then in addition to bidders considered as per option "a" and "b", "First timer" bidders for whom no performance score is available in the system upto and including the Cut Off month, shall also be considered qualified against criteria of 'Assessment of Capacity of Bidders'.
- d) If even after using option "a", "b" and "c" the number of qualified bidders remains less than four, remaining bidders shall be "listed" as per their descending order of Overall Performance Rating (R_{BHEL}) or average of available performance scores for "First timer" bidders upto and including the Cut Off month.

Bidders as per option "a", "b", "c" and additional top bidders as "listed" above shall be considered qualified against criteria of 'Assessment of Capacity of Bidders' to make the total numbers of qualified bidders as four.

In case, from the "listed" bidders, more than 1 "listed" bidder are having the same average performance score, then all such bidders shall be considered.

Example-

If 3 bidders are considered from "a", "b" and "c".

From remaining "listed" bidders, 3 top bidders have same average performance scores. Then all 3 "listed" bidders shall be considered.

Note:- In case, the number of bidders qualified against Technical and Financial Qualification criteria itself is less than four, then all bidders shall be considered qualified against criteria of 'Assessment of Capacity of Bidders' for further processing of tender.

- v). 'Under execution' shall mean works in progress as per the following:
- a. Up to execution of 90% of anticipated Contract Value in case of Civil/ MM/ Structural/ Turbo Blower Packages
 - b. Up to Steam Blowing in case of Boiler/ ESP/ Piping Packages
 - c. Up to Synchronization in all Balance Packages

vi). Contractor shall provide the latest contact details i.e. mail-ID and Correspondence Address to SCT Department, so that same can be entered in the

Contractor Performance Evaluation System, and in case of any change/discrepancy same shall be informed immediately. Login Details for viewing scores in Contractor Performance Evaluation System shall be provided to the Contractor by SCT Department.

vii). Performance Evaluation for Activity Month shall be completed in Evaluation Month (i.e. month next to Activity Month) or in rare cases in Post Evaluation Month (i.e. month next to Evaluation Month) after approval from Competent Authority. In case scores are not acceptable, Contractor can submit Review Request to GM Site/ GM Project latest by 27th of Evaluation Month or 5 days after approval of score, whichever is later. However, acceptance/rejection of 'Review Request' solely depends on the discretion of GM Site/GM Project. After acceptance of Review Request, evaluation score shall be reviewed at site and the score after completion of review process shall be acceptable and binding on the contractor.

viii). Project on Hold due to reasons not attributable to bidder -

a. **Short hold:** Evaluation shall not be applicable for this period, however, Loading will be considered.

b. **Long hold:** Short hold for continuous six months and beyond or hold on account of Force Majeure shall be considered as Long Hold. Evaluation as well as Loading shall not be considered for this period.

Performance evaluation as specified above in this clause is applicable to Prime bidder and Consortium partner (or Technical tie up partner) for their respective scope of work

10.0 Since the job shall be executed at site, bidders must visit site/ work area and study the job content, facilities available, availability of materials, prevailing site conditions including law & order situation, applicable wage structure, wage rules, etc. before quoting for this tender. They may also consult this office before submitting their offers, for any clarifications regarding scope of work, facilities available at sites or on terms and conditions.

11.0 For any clarification on the tender document, the bidder may seek the same in writing or through e-mail and/or through e-procurement portal <https://eprocurebhel.co.in>, as per specified format, within the scheduled date for seeking clarification, from the office of the undersigned. BHEL shall not be responsible for receipt of queries after due date of seeking clarification due to postal delay or any other delays. Any clarification / query received after last date for seeking clarification may not be normally entertained by BHEL and no time extension will be given.

12.0 BHEL may decide holding of pre-bid discussion [PBD] with all intending bidders as per date indicated in the NIT. The bidder shall ensure participation for the same at the appointed time, date and place as may be decided by BHEL. Bidders shall plan their visit accordingly. The outcome of pre-bid discussion (PBD) shall also form part of tender.

13.0 In the event of any conflict between requirement of any clause of this specification/ documents/drawings/data sheets etc. or requirements of different codes/standards specified, the same to be brought to the knowledge of BHEL in writing for clarification before due date of seeking clarification (whichever is applicable), otherwise, interpretation by BHEL shall prevail. Any typing

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error/missing pages/ other clerical errors in the tender documents, noticed must be pointed out before pre-bid meeting/submission of offer, else BHEL's interpretation shall prevail.

14.0 Unless specifically mentioned otherwise, bidder's quoted price shall deemed to be in compliance with tender including PBD.

15.0 Bidders shall submit Integrity Pact Agreement (Duly signed by authorized signatory who signs in the offer), if applicable, along with techno-commercial bid. This pact shall be considered as a preliminary qualification for further participation. The names and other details of Independent External Monitor (IEM) for the subject tender is as given at point (1) above.

"Integrity Pact (IP)"

(a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.

Sl. No.	IEM	Email
1.	Dr. Sarat Kumar Acharya, Ex-CMD, NLC	iem1@bhel.in
2.	Shri R. Mukundan, IRPS (Retd.)	iem2@bhel.in
3.	Shri Madan Lal Meena, IAS (Retd.)	iem3@bhel.in

(b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.

(c) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only.

Note:

No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are provided below:

Details of contact person(s):

Name:	Sh VK Arya /GM(Purchase)	Biraj Roy/ Sr.Manager (Purchase)	Chaitam Patel
Dept:	Purchase Department		
Address:	Floor No. 5 & 6, Shreemohini Complex, 345 Kingsway, Nagpur-440001		
Email:	vkarya@bhel.in	biraj@bhel.in	chaitram@bhel.in
Phone:		9587886706	8055451608

16.0 The Bidder has to satisfy the Pre-Qualifying Requirements stipulated for this Tender in order to be qualified. The Price Bids of only those bidders will be opened who will be qualified for the subject job on the basis of satisfying the Pre-Qualification Criteria specified in this NIT as per Annexure-I (as

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applicable), past performance etc. and date of opening of price bids shall be intimated to only such bidders. BHEL reserves the right not to consider offers of parties under HOLD.

17.0 In case BHEL decides on a 'Public Opening', the date & time of opening of the sealed PRICE BID shall be intimated to the qualified bidders and in such a case, bidder may depute one authorized representative to witness the price bid opening. BHEL reserves the right to open 'in-camera' the 'PRICE BID' of any or all Unsuccessful/Disqualified bidders under intimation to the respective bidders.

18.0 Validity of the offer shall be for **six months** from the latest due date of offer submission (including extension, if any) unless specified otherwise.

19.0 Reverse Auction: Applicable. "BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com (<https://www.bhel.com/guidelines-reverse-auction-2024>))." for this tender. RA shall be conducted among all the techno-commercially qualified bidders.

Price Bids of all the techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.

20.0 On submission of offer, further consideration will be subject to compliance to tender & qualifying requirement and customer's acceptance, as applicable.

21.0 In case the bidder is an "Indian Agent of Foreign Principals", 'Agency agreement has to be submitted along with Bid, detailing the role of the agent along with the terms of payment for agency commission in INR, along with supporting documents.

22.0 The bidders shall not enter into any undisclosed M.O.U. or any understanding amongst themselves with respect to tender.

23.0 Consortium Bidding (or Technical Tie up) shall be allowed only if specified in Pre-Qualifying Requirement (PQR) criteria, and in such a case the following shall be complied with:

23.1 Prime Bidder and Consortium Partner or partners are required to enter into a consortium agreement for the said contract with a validity period of six months initially. In case bidder becomes L1, Consortium Agreement valid till contractual completion period shall be submitted to BHEL before signing the contract. Consortium Agreement shall be kept valid till scope of work awarded to consortium partner(s) as per contract is completed.

23.2 'Standalone' bidder cannot become a '**Prime Bidder**' or a '**Consortium bidder**' or '**Technical Tie up bidder**' in a consortium (or Technical Tie up) bidding. Prime bidder shall neither be a consortium partner to other prime bidder nor take any other consortium partners. However, consortium partner may enter into consortium agreement with other prime bidders. In case of non-compliance, consortium bids of such Prime bidders will be rejected.

23.3 Number of partners for a Consortium Bidding (or Technical Tie up) including Prime Bidder shall be NOT more than 3 (three).

23.4 Prime Bidder shall be as specified in the Pre-Qualification Requirement, else the bidder who has the major share of work.

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- 23.5 In order to be qualified for the tender, Prime Bidder and Consortium partner or partners shall satisfy (i) the Technical 'Pre Qualifying Requirements' specified for the respective package, (ii) "Assessment of Capacity of Bidder" as specified in clause 9.0.
- 23.6 Prime Bidder shall comply with additional 'Technical' criteria of PQR as defined in 'Explanatory Notes for the PQR'.
- 23.7 Prime Bidder shall comply with all other Pre Qualifying criteria for the Tender unless otherwise specified
- 23.8 In case customer approval is required, then Prime Bidder and Consortium Partner or partners shall have to be individually approved by Customer for being considered for the tender.
- 23.9 Prime Bidder shall be responsible for the overall execution of the contract.
- 23.10 In case of award of job, Performance shall be evaluated for Prime Bidder and Consortium Partner or partners for their respective scope of work(s) as per prescribed formats.
- 23.11 In case the Consortium partner or partners back out, their SDs shall be encashed by BHEL and BHEL shall take necessary action as per extant guidelines. In such a case, other consortium partner or partners meeting the PQR have to be engaged by the Prime Bidder, and if not, the respective work will be withdrawn and executed on risk and cost basis of the Prime Bidder. The new consortium partner or partners shall submit fresh SDs as applicable.
- 23.12 In case "Prime Bidder withdraws" or "insolvency / liquidation / winding up proceedings have been initiated / admitted against the Prime Bidder/ consortium bidders",
- consortium bids will be rejected
 - BHEL reserves the right to cancel, terminate or short close the contract or take any other action to safeguard BHEL's interest in the Project / Contract. This action will be without prejudice to any other action that BHEL can take under Law and the Contract to safeguard interests of BHEL.
- 23.13 After execution of work, the work experience shall be assigned to the Prime Bidder and the consortium partner or partners for their respective scope of work. After successful execution of the scope of work of Consortium partner under direct order of BHEL, the Prime Bidder shall be eligible for becoming a 'standalone' bidder for works similar to that for which consortium partner was engaged, for subsequent tenders unless otherwise specifically mentioned elsewhere.
- Execution for the scope of work of consortium partner shall mean:
- i. "BOILER LIGHT UP" in respect of Boiler/CFBC/ESP.
 - ii. Achievement of physical Quantities as per respective PQRs in respect of Civil, Structures, Piling and CHP Civil.
- 23.14 The consortium partner shall submit SD equivalent to 1% of the total contract value in addition to the SD to be submitted by the Prime Bidder for the total contract value. In case there are two consortium partners, then each partner shall submit SD equivalent to 0.5% of the total contract value in addition to the SD to be submitted by the Prime Bidder for the total contract value. However, Prime Bidder has also option for submission of SD on behalf of consortium partner (s).

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SD submitted by Consortium Partner(s) may be released in case corresponding scope of work of the respective Consortium partner(s) has been completed upto the extent of 80% based on certification by Construction Manager and concurrence by the prime bidder.

23.15 In case of a Technical Tie up, all the clauses applicable for the Consortium partner shall be applicable for the Technical Tie up partner also.

24.0 The bidder shall submit/upload documents in support of possession of 'Qualifying Requirements' duly self-certified and stamped by the authorized signatory, indexed and properly linked in the format for PQR. In case BHEL requires any other documents/proofs, these shall be submitted immediately.

25.0 The bidder may have to produce original document for verification if so decided by BHEL.

26.0 The consultant / firm (and any of its affiliates) shall not be eligible to participate in tender(s) for the related works or services for the same project, if they were engaged for the consultancy services.

27.0 Guidelines/rules in respect of Suspension of Business dealings, Vendor evaluation format, Quality, Safety & HSE guidelines, Experience Certificate, etc. may undergo change from time to time and the latest one shall be followed. The abridged version of extant 'Guidelines for suspension of business dealings with suppliers/ contractors' is available on www.bhel.com on "supplier registration page".

28.0 The offers of the bidders who are on the banned/ hold list and also the offer of the bidders, who engage the services of the banned/ hold firms, shall be rejected. The list of **banned/ hold firms** is available on BHEL web site www.bhel.com.

28.1 Integrity commitment, performance of the contract and punitive action thereof:

28.1.1 Commitment by BHEL:

BHEL commits to take all measures necessary to prevent corruption in connection with the tender Process and execution of the contract. BHEL will during the tender process treat all Bidder(s) in a transparent and fair manner, and with equity.

28.1.2 Commitment by Bidder/ Supplier/ Contractor:

- (i) The bidder/ supplier/ contractor commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India.
- (ii) The bidder/ supplier/ contractor will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to relevant guidelines issued from time to time by Govt. of India/ BHEL.
- (iii) The bidder/ supplier/ contractor will perform/ execute the contract as per the contract terms & conditions and will not default without any reasonable cause, which causes loss of business/ money/ reputation, to BHEL.

If any bidder/ supplier/ contractor during pre-tendering/ tendering/ post tendering/ award/ execution/ post-execution stage indulges in mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the prices or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, then, action may be taken against such bidder/ supplier/ contractor as per extent guidelines of the company available on www.bhel.com and / or under applicable legal provisions.

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29.0 Micro and Small Enterprises (MSE)

Any Bidder falling under MSE 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 MSE	SC/ST-owned	Women-owned	Others (excluding SC/ ST & Women-Owned)
Micro			
Small			

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

a) MSE suppliers can avail the intended benefits in respect of the procurements related to the Goods and Services only (Definition of Goods and Services as enumerated by Govt. of India vide Office Memorandum F. No. 21(8)/2011-MA dtd. 09/11/2016 office of AS & DC, MSME) only if they submit along with the offer, attested copies of either Udyam Registration Certificate or EM-II certificate having deemed validity (five years from the date of issue of acknowledgement in EM-II) or valid NSIC certificate or Udyog Aadhar Memorandum (UAM) & Acknowledgement or EM-II Certificate along with attested copy of a CA certificate (format enclosed as Annexure - 3) 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 last date of Technical Bid submission. Non submission of such documents will lead to consideration of their bids at par with other bidders. No benefits shall be applicable for this enquiry if 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. Documents submitted by the bidder may be verified by BHEL for rendering the applicable benefits.

30.0 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.

31.0 PREFERENCE TO MAKE IN INDIA:

For this procurement, the local content to categorize a supplier as a Class I local supplier/ Class II local Supplier/Non-Local Supplier and purchase preferences to Class I local supplier, is as defined I Public Procurement (Preference to Make in India), Order 2017 dated 19.07.2024 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT.

31.1 Compliance to Restrictions under Rule 144 (xi) of GFR 2017

- I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. The Competent Authority for the purpose of this Clause shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).
- II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
- III. "Bidder from a country which shares a land border with India" for the purpose of this Clause means: -

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- a. An entity incorporated established or registered in such a country; or
 - b. A subsidiary of an entity incorporated established or registered in such a country; or
 - c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - d. An entity whose beneficial owner is situated in such a country; or
 - e. An Indian (or other) agent of such an entity; or
 - f. A natural person who is a citizen of such a country; or
 - g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

IV. The beneficial owner for the purpose of (III) above will be as under:

- 1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation

- a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company.
 - b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements.
- 2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership.
 - 3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person has ownership of or entitlement to more than fifteen percent of the property or capital or profits of the such association or body of individuals.
 - 4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
 - 5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.

VI. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

Note:

- (i) The bidder shall provide undertaking for their compliance to this Clause, in the Format provided in **Annexure-11**.
- (ii) Registration of the bidder with Competent Authority should be valid at the time of submission as well as acceptance of the bids.

32.0 Bid should be free from correction, overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else bid shall be liable for rejection.

All overwriting/cutting, etc., will be numbered by bid opening officials and announced during bid opening.

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33.0 In the course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective L-1 bidders.

In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss/ draw of lots, in the presence of the respective L-1 bidder(s) or their representative(s).

Ranking will be done accordingly. BHEL's decision in such situations shall be final and binding.

34.0 The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.

35.0 **Grievance Redressal Mechanism:** To promote transparency and ensure fair treatment of all bidders, a structured Grievance Redressal Mechanism is in place to address any concerns or issues arising during the tendering process.

Suppliers/Contractors are requested to follow the below escalation process for grievance resolution:

1. First Level: Any grievance should initially be addressed to the designated Dealing Officer, whose contact details are provided in the Notice Inviting Tender (NIT).

2. Second Level: If the issue remains unresolved, it may be escalated by lodging a formal grievance through the SUVIDHA Portal: <https://suvidha.bhel.in/suvidha/>. Responses will be provided in accordance with the defined escalation matrix.”

36.0 Order of Precedence:

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

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

It may please be noted that guidelines/ circulars/ amendments/ govt. directives issued from time to time shall also be applicable.

For BHARAT HEAVY ELECTRICALS LTD

(General Manager - Purchase)

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Enclosure:

- 1.0** Annexure-1: Pre Qualifying Requirements.
- 2.0** Annexure-2: Check List.
- 3.0** ~~Annexure-3: Certificate by Chartered Accountant~~
- 4.0** Annexure-4: Reverse Auction Process Compliance Form
- 5.0** Annexure-5: Authorization of representative who will participate in the online Reverse Auction Process
- 6.0** Annexure-6: RA Price Confirmation and Breakup
- 7.0** Annexure-7: Integrity Pact
- 8.0** Annexure-8: Undertaking as per PQR C4 of Annexure-1 i.e. PQR
- 9.0** Annexure-9: Declaration reg. Related Firms & their areas of Activities
- 10.0** Annexure-10: Declaration regarding minimum local content
- 11.0** Annexure-11: Declaration regarding compliance to restrictions under rule 144 (xi) of GFR 2017
- 12.0** **Annexure 12: Important information.**
- 13.0** Annexure-13 Declaration/Undertaking regarding Conflict of Interest among Bidders

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ANNEXURE-1

PRE QUALIFYING CRITERIA

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JOB	SHORTENING OF LENGTH OF SH PLATEN ASSEMBLIES, FSH FRONT & REAR COIL ASSY. REMOVAL OF 02 INNERMOST ELEMENTS FROM EACH PLATEN SUPER HEATER ASSEMBLY, HEADER END PLUGS/BLANKED ARE TO BE INSTALLED ,WELDED AT THE END OF HEADER NIPPLES OF PSH ALONG WITH CUP LOCK SCFFOLDING ARRANGEMENT AND ERECTION & DISMANTLING UPTO BOTTOM OF PSH, HYDRAULIC TEST OF THESE NEW COILS ALONG WITH OTHER RELATED CIRCUITS OF BOILER AT UNIT#01 OF 2X800 MW TSTPP, NTPC RAMAGUNDAM, TELANGANA.

S No	PRE QUALIFICATION CRITERIA	Bidders claim in respect of fulfilling the PQR Criteria	
		Applicability	
A	Submission of Integrity Pact duly signed (if applicable) (Note: To be submitted by Prime Bidder & Consortium /Technical Tie up partner jointly in case Consortium bidding is permitted, otherwise by the sole bidder)	Applicable	
B	Bidder shall essentially meet all the Qualifying Requirements (i.e. B.2) as under, in the last seven (07) years as on latest date of bid submission: B.2: Technical Criteria for Pre-Qualification: B.2.1. Bidder should have executed at least one FGD / Boiler (Structures and Pressure Parts of the same unit as standalone bidder) / ESP / STG/PCP in any power plant of rating ≥ 67.5 MW OR B.2.2. R&M work involving erection of at least 400 MT of one Boiler (Structures, Non-Pressure Parts and/or Pressure Parts of the same unit as standalone bidder)/ ESP in power plant of any rating. OR B.2.3. Executed work of Structure and/or 'Pressure Part and/or Power Cycle Piping and/or Non-Pressure Parts and/or Rotating Machines' in power plant of any rating of - B.2.3.a. At least 120 MT of Erection works of Structure and/or 'Pressure Part and/or Power Cycle Piping and/or Non-Pressure Parts and/or Rotating Machines' within cumulative of two running/completed contracts. OR B.2.3.b. At least 160 MT of Erection work of Structure and/or 'Pressure Part and/or Power Cycle Piping and/or Non-Pressure Parts and/or Rotating Machines' within one running/completed contract. OR	Applicable	

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	B.2.4. Overhauling work involving erection of at least one Boiler (Structures, Non-Pressure Parts and Pressure Parts of the same unit as standalone bidder) in any power plant of rating ≥ 67.5 MW. OR B.2.5. Should have carried out similar modification works of Boiler. *Similar modification work means overhauling of complete set of pressure part coils ”		
C-1	FINANCIAL TURNOVER Bidders must have achieved an average annual financial turnover (audited) of ₹ 129 Lakhs or more over last three Financial Years (FY) i.e. ‘2022-23 ,2023-24 & 2024-25’	Applicable	
C-2	NETWORTH (only in case of Companies) Net worth of the Bidder based on the latest Audited Accounts as furnished for ‘C-1’ above should be positive.	Applicable	
C-3	PROFIT Bidder must have earned profit in any one of the Five Financial Years as applicable in the last Five Financial Years (“2020-21, 2021-22, 2022-23, 2023-24 & 2024-25’ as on date)”. Bidders to submit audited Balance sheet and Profit & Loss statement for the years as supporting documents.	Applicable	
C-4	Bidder must not be under Insolvency Resolution Process or Liquidation or Bankruptcy Code Proceedings (IBC) as on date, by NCLT or any adjudicating authority/authorities, which will render him ineligible for participation in this tender, and shall submit undertaking (Annexure-8) to this effect	Applicable	
D	Assessment of Capacity of Bidder to execute the work as per sl no 9 of NIT (if applicable) Applicable, The “Assessment of Capacity of Bidders” for this Tender shall be carried out by considering the identified packages i.e. “Boiler”	Applicable	
E	Approval of Customer (if applicable)	Applicable	BY BHEL
F	Price Bid Opening Note: Price Bids of only those bidders shall be opened who stand qualified after compliance of criteria A to E		BY BHEL
G	Consortium tie-ups	Applicable	

Explanatory Notes for the PQR (unless otherwise specified in the PQR):

Explanatory Notes for PQR B.1 (Technical)

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1. The evaluation currency for this tender shall be INR.
2. For the criteria (B.1), actual executed value shall be considered.
3. Value of work is to be updated with indices for "All India Avg. Consumer Price index for industrial workers" and "Monthly Whole Sale Price Index for All Commodities" with base month as per last month of work execution and indexed up to three (3) months prior to the month of latest due date of bid submission as per following formula-

$$P = R + 0.425 \times R \times \frac{(X_N - X_0)}{X_0} + 0.425 \times R \times \frac{(Y_N - Y_0)}{Y_0}$$

Where

P = Updated value of work

R = Value of executed work

X_N = All India Avg. Consumer Price index for industrial workers for three months prior to the month of latest due date of bid submission (e.g. If latest bid submission date is 02-Mar-17, then bid submission month shall be reckoned as March'17 and index for Dec'2016 shall be considered).

X₀ = All India Avg. Consumer Price index for industrial workers for last month of work execution

Y_N = Monthly Whole Sale Price Index for All Commodities for three months prior to the month of latest due date of bid submission (e.g. If latest bid submission date is 02-Mar-17, then bid submission month shall be reckoned as March'17 and index for Dec'2016 shall be considered).

Y₀ = Monthly Whole Sale Price Index for All Commodities for last month of work execution

Explanatory Notes for Technical Criteria (B2):

1. VOID
2. Unless otherwise specified, for the purpose of "B2 Technical Criteria", the word 'EXECUTED' means achievement of milestones as defined below -
 - a. "ACHIEVEMENT OF PHYSICAL QUANTITIES" as per PQRs.
 - b. "READINESS FOR COAL FILLING" of at least one Bunker, in respect of Mill Bunker Structure.
 - c. "CHARGING" in respect of Power Transformers/ Bus Ducts/ "HT/LT Switchgears" / "HT/LT Cabling".
 - d. For C&I works: "SYNCHRONISATION" in case of power project (Excluding Nuclear Projects) / "WORK EXECUTION of the value as defined in PQR" in case of industry & Nuclear Projects.
 - e. "BOILER LIGHT UP" in respect of Boiler / CFBC / ESP.
 - f. "CHARGING OF ATLEAST ONE PASS" in respect of ESP(R&M)
 - g. "GAS IN" in respect of HRSG.
 - h. "STEAM BLOWING" in respect of Power Cycle Piping.
 - i. "HYDRAULIC TEST"/ ANY OTHER EQUIVALENT TEST LIKE "100% RT/UT OF WELDED JOINTS" of the system in respect of Pressure parts/ LP Piping/CW Piping.
 - j. "FULL LOAD OPERATION OF THE UNIT" in respect of Insulation work.
 - k. "SYNCHRONISATION" in respect of STG / GTG.

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l. "SPINNING" in respect of HTG.

m. "GAS IN" in respect of FGD

3. Boiler means HRSG or WHRB or any other types of Steam Generator.

4. Power Cycle piping means Main Steam, Hot Reheat, Cold Reheat, HP Bypass.

5. For the purpose of evaluation of the PQR, one MW shall be considered equivalent to 3.5 TPH where ever rating of HRSG/BOILER is mentioned in MW. Similarly, where ever rating of Gas Turbine is mentioned in terms of Frame size, ISO rating of the same in terms of MW shall be considered for evaluation.

Explanatory Notes for PQR -C (Financial):

C-1:

- i. Bidder to submit Audited Balance Sheet and Profit and Loss Account for the respective years as indicated against C-1 above.
- ii. Evaluation of Turnover criteria shall be calculated from the Audited Balance Sheet and Profit & Loss Account for the three Financial Years (FY).
- iii. In case audited Financial statements have not been submitted for all the three years as indicated against C-1 above, then the applicable audited statements submitted by the bidders against the requisite three years, will be averaged for three years.
- iv. 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.

C-2: Net Worth (Only in case of companies) of the bidder should be positive.

Note: Net worth shall be calculated based on the latest Audited Accounts as furnished for 'C-1' above.

Net worth = Paid up share capital + Reserves

C-3: Bidder must have earned profit in any one of the **Five** financial years as applicable in the last **Five** financial years as furnished for 'C-1' above.

Note: PROFIT shall be PBT earned during any one year of last **Five** financial years as in 'C-1' above.

C-4: Bidder must not be under Bankruptcy Code Proceedings (IBC) by NCLT or under Liquidation / BIFR, which will render him ineligible for participation in this tender, and shall submit undertaking to this effect.

Common Explanatory Notes:

1. For evaluation of PQR, in case Bidder alone does not meet the pre-qualifying technical criteria B1 above, bidder may utilize the experience of its Parent/ Subsidiary Company along with its own experience, subject to following:
 - a. The parent company shall have a controlling stake of $\geq 50\%$ in the subsidiary company (as per Format-1).
 - b. The Parent Company/ Subsidiary Company of which experience is being utilized for bidding shall submit Security Deposit(SD) equivalent to 1% of the total contract value
 - c. The parent/ subsidiary company and bidder shall provide an undertaking that they are

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jointly or severally responsible for successful performance of the contract (as per Format-2).

- d. In case Bidder is submitting bid as a Consortium Partner, option of utilizing experience of parent/subsidiary Company can be availed by Prime Bidder only.
 - e. Parent Company/ Subsidiary Company of which experience is being used for bidding, cannot participate as a 'Standalone Bidder' or as a 'Consortium bidder'.
2. Completion date for achievement of the technical criteria specified in the 'B' above should be in the last 7 years ending on the 'latest date of Bid Submission' of Tender irrespective of date of the start of work. Completion date shall be reckoned from the "Financial Year quarter of bid submission". (for e.g. -Work completed on 01.01.2014 shall be considered even if latest date of bid submission is 20.03.2021).
3. "Executed" means the bidder should have achieved the technical criteria specified in the Common QR even if the Contract has not been completed or closed.
4. In case the Experience/PO/WO certificate enclosed by bidders do not have separate break up of prices for the E&C portion for Electrical and C&I works (i.e. the certificates enclosed are for composite order for supply and erection of Electrical and C&I and other works if any), then value of Erection & Commissioning for the Electrical and C&I portion shall be considered as 15% of the price for supply & erection of Electrical and C&I.
5. Following shall be complied with in case of consortium:
- a. The Prime Bidder and Consortium Partner(s) are required to enter in to a consortium agreement and certify to BHEL regarding existence and validity of their consortium agreement in line with validity period mentioned in NIT.
 - b. Prime Bidder and Consortium partners shall be approved by Customer for being considered for the tender (applicable if customer approval is required).
 - c. Number of partners including prime Bidder shall be NOT more than 3 (three).
 - d. Prime Bidder alone shall necessarily comply with "B1 Technical Criteria" except for mechanical package where B1 criteria is not applicable.
 - e. Prime Bidder and Consortium Partner shall together comply with the 'Pre-Qualification Requirements' specified for the respective category of technical requirement as per "B2 technical criteria".
 - f. Prime Bidder shall comply with all other Pre Qualifying criteria for the Tender unless otherwise specified.
 - g. All other conditions shall be read in conjunction with clause no 23.0 of NIT.
 - h. Prime Bidder shall be the Bidder who has a major share of work.
 - i. Prime Bidder shall be responsible for the overall execution of the Contract.
 - j. Performance shall be evaluated for Prime Bidder and the Consortium partner for their respective scope of work.
 - k. In case the Consortium partner backs out, another consortium partner meeting the QRs, has to be engaged by Prime Bidder and if not, the respective work will be withdrawn and executed on risk and cost basis of the prime bidder.
 - l. In case Prime Bidder withdraws or insolvency / liquidation / winding up proceedings have been initiated / admitted against the Prime Bidder, BHEL reserves the right to

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cancel, terminate or short close the contract or take any other action to safeguard BHEL's interest in the Project / Contract. This action will be without prejudice to any other action that BHEL can take under Law and the Contract to safeguard interests of BHEL

m. After successful execution of one work with a consortium partner under direct orders of BHEL, the Prime Bidder shall be eligible for becoming a 'standalone' bidder for works similar to that for which consortium partner was engaged, for subsequent tenders.

n. The Consortium partner shall submit SD equivalent to 1% of the total contract value in addition to the SD to be submitted by the Prime Bidder for the total contract value.

BIDDER SHALL SUBMIT ABOVE PRE-QUALIFICATION CRITERIA FORMAT, DULY FILLED-IN, SPECIFYING RESPECTIVE ANNEXURE NUMBER AGAINST EACH CRITERIA AND FURNISH RELEVANT DOCUMENT INCLUSIVE OF WORK ORDER AND WORK COMPLETION CERTIFICATE ETC IN THE RESPECTIVE ANNEXURES IN THEIR OFFER.

Credentials submitted by the bidder against "PRE QUALIFYING CRITERIAS" shall be verified for its authenticity. In case, any credential (s) is/are found unauthentic, offer of the bidder is liable to the rejection. BHEL reserves the right to initiate any further action as per extant guidelines for Suspension of Business Dealings.

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Format-1

Certificate for relationship between Parent Company / Subsidiary Company and the bidder

To,

.....

.....

Dear Sir,

Sub: Bid for NIT Nodated..... for "....." (name of the tender).

We hereby certify that M/s..... is Parent Company/ Subsidiary Company of M/s.....(the bidder) and details of equity holding of the Parent Company in Subsidiary Company as on(not earlier than seven days prior to the Bid Submission Date) are given as below:

Name of Parent Company	Name of Subsidiary Company	Percentage of Equity Holding of Parent Company in Subsidiary Company

(Insert Name and Signature of Statutory Auditor or practicing Company Secretary of the Bidder)

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Format-2

Undertaking from the Parent Company/ Subsidiary Company of the bidder

(On the Letter Head of Parent Company/ Subsidiary Company, as applicable)

From,
Name:
Full Address:

Telephone No.:
E-mail address:
Fax/No.:

To,

Dear Sir,

We refer to the NIT No dated..... for "....." (name of the Tender).

"We have carefully read and examined in detail the NIT/Tender Terms and Conditions, including in particular, Clause of the NIT/Tender, regarding submission of an Undertaking, as per the prescribed Format 1 of the NIT/ Tender.

We confirm that M/s.....(the Bidder) has been authorized by us to use our Technical capability for meeting the Technical Criteria as specified in Clause.....of the PQR of the NIT/Tender referred above.

We agree to submit the Security Deposit equivalent to 1% of the total contract value in addition to Security Deposit to be submitted by Bidder as per Clause.....of the NIT/Tender for fulfillment of all obligations in terms of provisions of the contract, in the event of(the Bidder) being selected as the Successful Bidder.

We confirm that we along with M/s.....(the bidder), are jointly or severally responsible for successful performance of the contract.

We confirm that our company shall not participate in the above tender as a 'Standalone Bidder' or as a 'Consortium bidder' and also shall not authorize any other bidder to use our Technical capability for the above tender.

All the terms used herein but not defined, shall have the meaning as ascribed to the said terms under the referred NIT/Tender.

Signature of Managing Director/Authorized signatory of Parent/ Subsidiary Company

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CHECK LIST

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

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

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14	Declaration confirming knowledge about Site Conditions	Applicable/ Not Applicable	YES/NO
15	Declaration for relation in BHEL	Applicable/ Not Applicable	YES/NO
16	Non-Disclosure Certificate	Applicable/ Not Applicable	YES/NO
17	Bank Account Details for E-Payment	Applicable/ Not Applicable	YES/NO
18	Capacity Evaluation of Bidder for current Tender	Applicable/ Not Applicable	YES/NO
19	Tie Ups/Consortium Agreement are submitted as per format	Applicable/ Not Applicable	YES/NO
20	Power of Attorney for Submission of Tender/Signing Contract Agreement Power of Attorney of Consortium Partner.	Applicable/ Not Applicable	YES/NO
21	Analysis of Unit rates	Applicable/ Not Applicable	YES/NO
22	Annexure-5: Authorization of representative who will participate in the online Reverse Auction Process	Applicable/ Not Applicable	YES/NO
23	Annexure-6: RA Price Confirmation and Breakup	Applicable/ Not Applicable	YES/NO
24	Annexure-8: Undertaking as per PQR C4 of Annexure-1 i.e. PQR	Applicable/ Not Applicable	YES/NO
25	Annexure-9: Declaration reg. Related Firms & their areas of Activities (x) Other Tender documents as per this NIT.	Applicable/ Not Applicable	YES/NO
26	Annexure-10 Declaration regarding minimum local content	Applicable/ Not Applicable	YES/NO
27	Annexure-11: Declaration regarding compliance to restrictions under rule 144 (xi) of GFR 2017	Applicable/ Not Applicable	YES/NO
28	Annexure-13 Declaration/Undertaking regarding Conflict of Interest among Bidders	Applicable/ Not Applicable	YES/NO

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

DATE :

AUTHORISED SIGNATORY

(With Name, Designation and Company seal)

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ANNEXURE-3

Certificate by Chartered Accountant on letter head

(applicable upto 31st March'2021 in line with MSME notification no. S.O. 2119 (E), dated 26th June'2020)

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)/ Udyam Registration Certificate No.
..... dtd:, Category: (Micro/Small/Medium)).
(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:
1 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:
2 Rs Lacs
3. ~~For Enterprises~~ (having EM-II Certificate/ valid NSIC Certificate or Udyog Aadhar Memorandum): Investment in plant and machinery or equipment is Rs. Lacs and turnover is Rs. Lacs (as notified in MSME notification no. S.O. 2119 (E) dated 26.06.2020)
4. ~~For Enterprises~~ (having EM-II Certificate/ valid NSIC Certificate or Udyog Aadhar Memorandum): Investment in plant and machinery or equipment is Rs. Lacs and turnover is Rs. Lacs (as notified in MSME notification no. S.O. 2119 (E) dated 26.06.2020)
- 3 (Strike off whichever is not applicable)
- 4
The above investment of Rs Lacs is within permissible limit of
5 Rs Lacs for
..... Micro / Small / Medium (Strike off which is not applicable)
6 Category under MSMED Act 2006.
- 7 Or
- 8 The enterprise has been graduated upward from its original category (micro/small/medium) (strike off which is not applicable), the enterprise shall maintain its prevailing status till expiry of one year from the close of year of registration, as notified vide S.O. No. 2119 (E) dated 26.06.2020 published in the gazette notification dated 26.06.2020 by Ministry of MSME.
- 9 Or
- 10 The enterprise has been reverse-graduated from its original category (micro/small/medium) (strike off which is not applicable), the enterprise will continue in its present category till the closure of the financial year and it will be given the benefit of the changed status only with effect from 1st April of the financial year following the year in which such change took place, as notified vide S.O. No. 2119 (E) dated 26.06.2020 published in the gazette notification dated 26.06.2020 by Ministry of MSME.
- 11 Date:

(Signature)

Name:

Membership Number:

Seal of the Chartered Accountant

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

[ANNEXURE-4](#)

Reverse Auction Process Compliance Form

(The bidders are required to print this on their company's letterhead and sign, stamp before RA)

To

- M/s. {Service provider
- Postal address}

Sub: Agreement to the Process related Terms and Conditions

Dear Sir,

This has reference to the Terms & Conditions for the Reverse Auction mentioned in the RFQ document for {Items} against BHEL enquiry/ RFQ no. { BHE/PW/PUR/RGM/SH/3277} dt. {.....}
This letter is to confirm that:

- 1) The undersigned is authorized official/ representative of the company to participate in RA and to sign the related documents.
- 2) We have studied the Reverse Auction guidelines (as available on www.bhel.com), and the Business rules governing the Reverse Auction as mentioned in your letter and confirm our agreement to them.
- 3) We also confirm that we have taken the training on the auction tool and have understood the functionality of the same thoroughly.
- 4) We also confirm that, in case we become L1 bidder, we will FAX/ email the price confirmation & break up of our quoted price as per Annexure - 6 within **two** working days (of BHEL) after completion of RA event, besides sending the same by registered post/ courier both to M/s. BHEL and M/s. {Service provider.}

We, hereby confirm that we will honor the Bids placed by us during the auction process.

With regards

Signature with company seal

Name:

Company / Organization:

Designation within Company / Organization:

Address of Company / Organization:

Sign this document and FAX/ email it to M/s {Service provider} at {.....} prior to start of the Event.

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ANNEXURE-5

Authorization of representative who will participate in the on line Reverse Auction Process:

1	NAME OF THE BIDDER	
2	NAME & DESIGNATION OF OFFICIAL	
3	POSTAL ADDRESS (COMPLETE)	
4	TELEPHONE NOS. (LAND LINE & MOBILE BOTH)	
5	E-MAIL ADDRESS	
6	NAME OF PLACE/ STATE/ COUNTRY, WHEREFROM S/HE WILL PARTICIPATE IN THE REVERSE AUCTION	

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

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ANNEXURE-6

**Reverse Auction price confirmation and breakup
(To be submitted by L1 bidder after completion of Reverse Auction)**

To

- M/s. Service provider
- Postal address

CC: M/s BHEL

BHEL-PSWR, 345, KINGSWAY, NAGPUR-440001

Sub: Final price quoted during Reverse Auction and price breakup

Dear Sir,

We confirm that we have quoted.

Rs.{____in value & in words____} for item(s) covered under tender enquiry No. { BHE/PW/PUR/RGM/SH/3277} dt.{...}

Total price of the items covered under above cited enquiries is inclusive of {*Packing & forwarding, GST, E.D., C.S.T., freight and insurance charges up to {.....} District,{.....} State and Type Test Charges etc., (exclusive of service tax), other as per NIT*}

as our final landed prices as quoted during the Reverse Auction conducted today {date} which will be valid for a period of {____ in nos. & in words ____} days.

The price break-up is as given below.

Total

=====

- Rs. in value & in words

=====

Yours sincerely,

For _____

Name:

Company:

Date:

Seal:

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

INTEGRITY PACT

Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and

_____, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract(s) for

"E-Tender Spec No: BHE/PW/PUR/RGM/SH/3277 for Job: SHORTENING OF LENGTH OF SH PLATEN ASSEMBLIES, FSH FRONT & REAR COIL ASSY. REMOVAL OF 02 INNERMOST ELEMENTS FROM EACH PLATEN SUPER HEATER ASSEMBLY, HEADER END PLUGS/BLANKED ARE TO BE INSTALLED, WELDED AT THE END OF HEADER NIPPLES OF PSH ALONG WITH CUP LOCK SCFFOLDING ARRANGEMENT AND ERECTION & DISMANTLING UPTO BOTTOM OF PSH, HYDRAULIC TEST OF THESE NEW COILS ALONG WITH OTHER RELATED CIRCUITS OF BOILER AT UNIT#01 OF 2X800 MW TSTPP, NTPC RAMAGUNDAM, TELANGANA." (hereinafter referred to as "Contract").

The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint panel of Independent External Monitor(s) (IEMs), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -
 - 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

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1.1.3 The Principal will exclude from the process all known prejudiced persons.

1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption.—The Bidder(s)/ Contractor(s) commits himself to observe the following principles during participation in the tender process and during the contract execution.

2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.

2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and shall await their decision in the matter.

Section 3 - Disqualification from tender process and exclusion from future contracts

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.....
If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process, terminate the contract, if already awarded, exclude from future business dealings and/ or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder (s) from the tender process before award / order acceptance according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal is entitled to terminate the Contract according to Section 3, or terminates the Contract in application of Section 3 above , the Bidder(s)/ Contractor (s) transgression through a violation of Section 2 above shall be construed breach of contract and the Principal shall be-entitled to demand and recover from the Contractor an amount equal to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee , whichever is higher, as damages, in addition to and without prejudice to its right to demand and recover compensation for any other loss or damages specified elsewhere in the contract.

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 (three) years (to be reckoned from date of bid submission) with any other company in any country conforming to the anti-corruption approach in India that could justify his exclusion from the tender process. The date of such transgression, for the purpose of disclosure by the bidders in this regard, would be the date on which cognizance of the said transgression was taken by the competent authority. The transgression(s), for which cognizance was taken even before the said period of three years, but are pending conclusion, shall also be reported by the bidders.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason or action can be taken as per the separate "Guidelines on Suspension of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 6 - Equal treatment of all Bidder (s)/ Contractor (s) / Sub-contractor (s)

- 6.1 The Principal will enter into Integrity Pacts with identical conditions as this Integrity Pact with all Bidders and Contractors.
- 6.2 In case of a joint venture, all the partners of the joint venture should sign the Integrity Pact. In case of Sub-contracting, the Principal Contractor shall be solely responsible for the adherence to the provisions of IP by the sub-contractor(s).
- 6.3 The Principal will disqualify from the tender process all Bidders who do not sign this Integrity Pact or violate its provisions.

Section 7 - Criminal Charges against violating Bidders/ Contractors /Subcontractors

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If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 -Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible panel of Independent External Monitor (s) (IEMs) for this Integrity Pact. The task of the IEMs is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Integrity Pact on receipt of any complaint by them from the bidder(s).
- 8.2 The IEMs are not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The IEMs shall be provided access to all documents/ records pertaining to the Contract, for which a complaint or issue is raised before them as and when warranted. However, the documents/records/information having National Security implications and those documents which have been classified as /Top Secret are not to be disclosed.
- 8.4 The Principal will provide to the IEMs sufficient information about all meetings among the parties related to the Contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the IEMs the option to participate in such meetings.
- 8.5 The role of IEM is advisory and the advice of IEM is non- binding on the Organization. However, as IEMs are invariably persons with rich experience who have retired as senior functionaries of the government, their advice would help in proper implementation of the IP.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of the tendering process, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an examination, and submit their joint recommendations to the Management. In case the full panel is not available due to some unavoidable reasons, the available IEM(s) will conduct examination of the complaints. Consent of the IEM(s), who may not be available, shall be taken on record.
- 8.7 The IEMs shall examine all the representations/grievances/ complaints received by them from the bidders or their authorized representative related to any discrimination on account of lack of fair play in modes of procurement and bidding systems, tendering method, eligibility conditions, bid evaluation criteria, commercial terms & conditions, choice of technology/ specifications etc.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the IEMs and its terms and conditions.
- 8.9 IEMs should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the Principal should be looked into by the CVO of the Principal.

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- 8.10 If the IEMs have reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code / Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the IEMs may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 After award of work, the IEMs shall look into any issue relating to execution of Contract, if specifically raised before them. As an illustrative example, if a Contractor who has been awarded the Contract, during the execution of Contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs.
- 8.12 However, the IEMs may suggest systemic improvements to the management of the Principal, if considered necessary, to bring about transparency, equity and fairness in the system of procurement.
- 8.13 The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

- 9.1 This Integrity Pact shall be operative from the date this Integrity Pact is signed by both the parties. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.
- 9.2 If any claim is made/ lodged during currency of this Integrity Pact, the same shall be binding and continue to be valid despite the lapse of this Pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 - Other Provisions

- 10.1 This Integrity Pact is subject to Indian Laws and exclusive jurisdiction shall be of the competent Courts as indicated in the Tender or Contract, as the case may be.
- 10.2 Changes and supplements as well as termination notices need to be made in writing.
- 10.3 If the Bidder(s)/ Contractor(s) is a partnership or a consortium or a joint venture, this Integrity Pact shall be signed by all partners of the partnership or joint venture or all consortium members.
- 10.4 Should one or several provisions of this Integrity Pact turn out to be invalid, the remainder of this Integrity Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this Integrity Pact with the Principal would be competent to participate in the bidding. In other words, entering into this Integrity Pact would be a preliminary qualification.

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- 10.6 In the event of any dispute between the Principal and Bidder(s)/ Contractor(s) relating to the Contract, in case, both the parties are agreeable, they may try to settle dispute through Mediation before the panel of IEMs in a time bound manner. If required, the Principal may adopt any mediation rules for this purpose. However, not more than five meetings shall be held for a particular dispute resolution. The fees/expenses on dispute resolution shall be equally shared by both the parties. In case, the dispute remains unresolved even after mediation by the panel of IEMs, either party may take further action as per the terms & conditions of the Contract.

For & On behalf of the Principal
Bidder/ Contractor
(Office Seal)
(Office Seal)

Place _____
Date _____

Witness: _____
Witness: _____
(Name & Address) _____

For & On behalf of the

(Name & Address)

[ANNEXURE-8](#)

UNDERTAKING

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

To,
GM-PURCHASE
BHEL-PSWR, 345, KINGSWAY, NAGPUR-440001

Dear Sir/Madam,

Sub: DECLARATION REGARDING INSOLVENCY/ LIQUIDATION/ BANKRUPTCY PROCEEDINGS

Ref: NIT/Tender Specification No: BHE/PW/PUR/RGEM-ESP-R&M-BAL-WORK/3277

I/We,

____ declare that, I/We am/are not under insolvency resolution process or liquidation or Bankruptcy Code Proceedings (IBC) as on date, by NCLT or any adjudicating authority/authorities, which will render us ineligible for participation in this tender.

Sign. of the AUTHORISED SIGNATORY
(With Name, Designation and Company seal)

Place:
Date:

ANNEXURE-9

DECLARATION

Date: _____

To,
GM-PURCHASE
BHEL-PSWR, 345, KINGSWAY, NAGPUR-440001

Sub: Details of related firms and their area of activities

Dear Sir/ Madam,

Please find below details of firms owned by our family members that are doing business/ registered for same item with BHEL, _____ (NA, if not applicable).

1	Material Category/ Work Description	
	Name of Firm	
	Address of Firm	
	Nature of Business	
	Name of Family Member	
	Relationship	
2	Material Category/ Work Description	
	Name of Firm	
	Address of Firm	
	Nature of Business	
	Name of Family Member	
	Relationship	

Note: I certify that the above information is true and I agree for penal action from BHEL in case any of the above information furnished is found to be false.

Regards,

(_____)

From: M/s _____
Supplier Code: _____

Address: _____

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Annexure-10

**DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH
REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017 DATED
04TH JUNE, 2020 AND SUBSEQUENT ORDER(S)**

(To be typed and submitted in the Letter Head of the Entity/Firm providing certificate as applicable)

To,
GM-PURCHASE
BHEL-PSWR, 345, KINGSWAY, NAGPUR-440001

Dear Sir,

Sub: Declaration reg. minimum local content in line with Public Procurement (Preference to Make in India), Order 2017-Revision, dated 04th June, 2020 and subsequent order(s).

Ref : 1) NIT/Tender Spec No: BHE/PW/PUR/RGM/SH/3277

2) All other pertinent issues till date

We hereby certify that the items/works/services offered by..... *(specify the name of the organization here)* has a local content of _____ % and this meets the local content requirement for 'Class-I local supplier' / 'Class II local supplier' ** as defined in Public Procurement (Preference to Make in India), Order 2017-Revision dated 04.06.2020 issued by DPIIT and subsequent order(s).

The details of the location(s) at which the local value addition is made are as follows:

- | | |
|----------|----------|
| 1. _____ | 2. _____ |
| 3. _____ | 4. _____ |

...

...

...

Thanking you,
Yours faithfully,

**(Signature, Date & Seal of
Authorized Signatory of the Bidder)**

**** - Strike out whichever is not applicable.**

Note:

1. Bidders to note that above format Duly filled & signed by authorized signatory, shall be submitted along with the techno-commercial offer.
2. In case the bidder's quoted value is in excess of Rs. 10 crores, the authorized signatory for this declaration shall necessarily be the statutory auditor or cost auditor of the company (in the case of companies) or a practising cost accountant or practicing chartered accountant (in respect of suppliers other than companies).
3. In the event of false declaration, actions as per the above order and as per BHEL Guidelines shall be initiated against the bidder.

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ANNEXURE-11

**DECLARATION REGARDING COMPLIANCE TO RESTRICTIONS UNDER RULE 144 (xi) OF GFR
2017**

(To be typed and submitted in the Letter Head of the Entity/Firm providing certificate as applicable)

To,
GM-PURCHASE
BHEL-PSWR, 345, KINGSWAY, NAGPUR-440001

Dear Sir,

Sub: Declaration regarding compliance to Restrictions under Rule 144 (xi) of GFR 2017

Ref : 1) NIT/Tender Spec No: BHE/PW/PUR/RGM/SH/3277,

2) All other pertinent issues till date

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries. I certify that _____ *(specify the name of the organization here)*,

- a. is not from such a country
- b. has been registered with the Competent Authority *(attach valid registration by the Competent Authority, i.e., the Registration Committee constituted by the Dept. for Promotion of Industry and Internal Trade (DPIIT))*;

and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. *(attach relevant valid registration, if applicable)*

I hereby certify that we fulfill all requirements in this regard and is eligible to be considered.

Thanking you,
Yours faithfully,

**(Signature, Date & Seal of
Authorized Signatory of the Bidder)**

Note: Bidders to note that in case above certification given by a bidder, whose bid is accepted, is found to be false, then this would be a ground for immediate termination and for taking further action in accordance with law and as per BHEL guidelines.

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ANNEXURE-12

IMPORTANT INFORMATION

E -Tender for this work is invited by BHEL PSWR NAGPUR and offer shall be submitted through BHEL e-procurement portal only. All correspondences regarding this tender shall be through E-procurement portal.

Postal Address:

GM /Purchase BHEL PSWR,
SRIMOHINI COMPLEX, Floor No. 5 & 6, 345 KINGSWAY, NAGPUR 440001, INDIA

Following are the concerned BHEL officials to whom bidders can contact in case of any difficulty:

Engineer Purchase, Email: chaitram@bhel.in, Mob: 8055451608

Sr.Manager Purchase, Email: biraj@bhel.in, Mob: 9587886706

Sr.Manager /Purchase, email: vvaidya@bhel.in,

GM Purchase, Email: vkarya@bhel.in. Ph: +91 - 712 - 2858 - 633

1. Refer the abridged version of extant 'Guidelines for suspension of business dealings with suppliers/ contractors' which is available at www.bhel.com on "supplier registration page" at the following link: https://www.bhel.com/sites/default/files/suspension_guidelines_abridged.pdf
2. "Pradhan Mantri Kaushal Vikas Yojna: The contractor shall, at all stages of work deploy skilled/semi-skilled tradesmen who are qualified and possess certificate in particular trade from CPWD Training Institute/Industrial Training Institute/ National Institute of Construction Management and Research (NICMAR), National Academy of Construction, CIDC or any similar reputed and recognized Institute managed/ certified by State/ Central Government. The number of such qualified tradesmen shall not be less than 20% of total skilled/semi-skilled workers required in each trade at any stage of work. The contractor shall submit number of man days required in respect of each trade, its scheduling and the list of qualified tradesmen along with requisite certificate from recognized Institute to Engineer-in-Charge for approval. Notwithstanding such approval, if the tradesmen are found to have inadequate skill to execute the work of respective trade, the contractor shall substitute such tradesmen within two days of written notice from Engineer-in-Charge. Failure on the part of contractor to obtain approval of Engineer-in-Charge or failure to deploy qualified tradesmen will attract a compensation to be paid by contractor at the rate of Rs.100 per such tradesman per day. Decision of Engineer-in-Charge as to whether particular tradesman possesses requisite skill and amount of compensation in case of default shall be final and binding".
3. All Statutory Requirements as applicable for this project shall be complied with.

4. Conflict of Interest among Bidders/ Agents:

“A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. ***The bidder found to have a conflict of interest shall be disqualified.*** A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:

a) they have controlling partner (s) in common;

or

b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or

c) they have the same legal representative/agent for purposes of this bid; or

d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; or

e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid; or

f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer. There can be only one bid from the following:

1. The principal manufacturer directly or through one Indian agent on his behalf; and

2. Indian/foreign agent on behalf of only one principal;

or

g) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid; or

h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business.

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Treatment of cases regarding conflict of interest:

The bidder notes that a conflict of interest would said to have occurred in the tender process and execution of the resultant contract, in case of any of the following situations:

- i) If its personnel have a close personal, financial, or business relationship with any personnel of BHEL who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of BHEL directly or indirectly;
- ii) The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating;
- iii) Procurement of goods directly from the manufacturers/ suppliers shall be preferred. However, if the OEM/ Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer/ supplier could bid directly but not both. In case bids are received from both the manufacturer/ supplier and the agent, bid received from the agent shall be ignored. However, this shall not debar more than one Authorised distributor (with/ or without the OEM) from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate.
- iv) A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice-versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of an entity as a sub-contractor in more than one bid if he is not bidding independently in his own name or as a member of a JV.

The Bidder declares that they have read and understood the above aspects, and the bidder confirms that such conflict of interest does not exist and undertakes that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s), in this regard. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, the same will be considered as a violation

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of the tender conditions, and suitable action shall be taken by BHEL as per extant policies/ guidelines

5. BHEL Fraud Prevention Policy: "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."
6. Following clause shall form part of the HSE documents issued under Chapter IX of Volume IB 'Special Conditions of Contract'

"In case of any financial deduction made by Customer for lapses of safety other than what is provided elsewhere in the contract, the same shall be charged on back-to-back basis on the defaulting contractor without prejudice to any other right spelt anywhere in the tender /contract".

~~7. The clause 2.7.9.1 below is added under the heading "Rights of BHEL" of General Conditions of Contract Volume-IC GCC:~~

~~2.7.9.1 Provision of Penalty in case of slippage of Intermediate Milestones:~~

- ~~i) Two major Intermediate Milestones are mentioned as M1 & M2 in Chapter VI: Time Schedule of Vol IA Technical Conditions of Contract.~~
- ~~ii) In case of slippage of these identified Intermediate Milestones, Delay Analysis shall be carried out on achievement of each of these two Intermediate Milestones in reference to Form 14.~~
- ~~iii) In case delay in achieving M1 Milestone is solely attributable to the contractor, 0.5% per week of Executable Contract Value*, limited to maximum 2% of Executable Contract Value, will be withheld.~~
- ~~iv) In case delay in achieving M2 Milestone is solely attributable to the contractor, 0.5% per week of Executable Contract Value*, limited to maximum 3% of Executable Contract Value, will be withheld.~~
- ~~v) Amount already withheld, if any against slippage of M1 milestone, shall be released only if there is no delay attributable to contractor in achievement of M2 Milestone.~~
- ~~vi) Amount required to be withheld on account of slippage of identified intermediate milestone(s) shall be withheld out of respective milestone payment and balance amount (if any) shall be withheld @10% of RA Bill amount from subsequent RA bills.~~
- ~~vii) Final deduction towards LD (if applicable as per clause 2.7.9 above), on account of delay attributable to contractor shall be based on final delay analysis on completion / closure of contract. Withheld amount, if any due to slippage of identified intermediate milestone(s) shall be adjusted against LD or released as the case may be.~~
- ~~viii) In case of termination of contract due to any reason attributable to contractor before completion of work, the amount already withheld against slippage of intermediate milestones shall not be released and be converted into recovery.~~

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~~* **Executable Contract Value** – Value of work for which inputs/ fronts were made available to contractor and were scheduled for execution till the date of achievement of that milestone.~~

8. Acceptance of Bank Guarantee (BG)

Revision in Acceptance of Bank Guarantee (BG) Clause no. 1.10.3 (iii) of Vol I C GCC:

Clause No. 1.10.3 (iii) of Vol IC GCC is revised as below: -

“Bank Guarantee issued by:

a. Any of the BHEL consortium bank listed below:

State Bank of India
ABN Amro Bank N.V.
Bank of Baroda
Canara Bank
Citi Bank N.A.
Corporation Bank
Deutsche Bank
HDFC Bank Ltd.
The Hongkong and Shanghai Banking Corporation Ltd
ICICI Bank Ltd.
IDBI Ltd.
Punjab National Bank
Standard Chartered Bank
State Bank of Travancore
State Bank of Hyderabad
Syndicate Bank

b. Any public sector Bank (other than consortium banks) with a clause in the text of Bank Guarantee that “**It is enforceable at Nagpur, Maharashtra**”.

c. Any private sector banks, with a clause in the text of Bank Guarantee that “**It is enforceable by being presented at any branch of the bank**”.

Note: “Bank Guarantees issued by Co-operative Banks are not acceptable”.

9. Broad Terms & Conditions of Reverse Auction:

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

“BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) (<https://www.bhel.com/guidelines-reverse-auction-2024>) for this tender. RA shall be conducted among the techno-commercially qualified bidders.

Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA. In case any bidder(s) do(es) not participate in online Reverse Auction,

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their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.”

Note: -

1. *In case of enquiry through e-procurement the sealed electronic price bid (e-bid) is to be treated as sealed envelope price bid.*
2. *Reverse Auction will be conducted if two or more bidders are techno-commercially qualified.*
3. *Wherever RA is opted in a tender, the techno-commercially qualified H1 will not be allowed to participate in RA. In case more than one H1 bidder quote the same rate, the Price Offer received last, as per the time log of the Portal, shall be removed first, on the principle of last in, first out by the system.*
4. *However, H1 will be allowed to participate in RA in the following cases:*
 - a) *If number of techno-commercially qualified bidders are only 2 or 3.*
 - b) *In case Primary product of only one OEM is left in contention for participation in RA on elimination of H1.*
 - c) *For cases where there are more than 3 techno-commercially qualified bidders, if lowest bidder in sealed price bid is non-MSE and H-1 is eligible MSE and H-1 price is coming within price band of 15% of Non-MSE lowest bidder.*
 - d) *For cases where there are more than 3 techno-commercially qualified bidders, if lowest bidder in sealed price bid is non-MII and H-1 is eligible MII and H-1 price is coming within price band of 20% of Non-MII lowest bidder.*
10. Bidder to strictly follow all the necessary guidelines issued by Customer, District Magistrate, State Government and Central government to control Pandemic/Epidemic outbreak. The related towards quarantine Centre/Medical expenses etc., if any, shall be in the bidder's scope.
11. **Bidders kindly to take note that EMD (Earnest Money Deposit) shall be furnished by MSE bidders as well, as per the amount and procedure indicated in the NIT/GCC.**
12. **OVER RUN COMPENSATION Clause no. 2.12 of Vol I C GCC: Not Applicable**
13. **PRICE VARIATION COMPENSATION: Not applicable.**
14. **Clause no. 2.24 of GCC PERFORMANCE GUARANTEE FOR WORKMANSHIP:** The guarantee period shall commence from the date of Completion of contractual work as certified by BHEL Site-in charge.

BHEL PSWR
Notice Inviting Tender

E-Tender Spec No: BHE/PW/PUR/RGM/SH/3277

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15. Clause 2.27 LIMITATION ON LIABILITY of General Conditions of contract for services/works has been amended as below:

“Notwithstanding anything to the contrary in this Contract or LOA or Work Order or any other mutually agreed document between the parties, the maximum liability, for damages, of the contractor, its servants or agents, shall under no circumstances exceed an amount equal to the Price of the Contract or the Work Order. Neither party shall be liable to the other for any indirect or consequential loss or damage, including but not limited to loss of use, loss of profits, or loss of contracts, or special, punitive, exemplary losses whatsoever, arising out of or in connection with this contract.

This shall not be applicable on the recoveries made by Customer from BHEL on account of Contractor, any other type of recoveries for workmanship, material, T&P etc. due from the contractor.”

This shall be the part of General Conditions of Contract for this tender.

**BHEL PSWR
Notice Inviting Tender**

E-Tender Spec No: BHE/PW/PUR/RGM/SH/3277

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Annexure-13 (Declaration/Undertaking regarding Conflict of Interest among Bidders)
(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

GM/Purchase
BHEL PSWR
Floor No. 5 & 6, Shree Mohini Complex,
345-Kingsway, Nagpur-440001

Dear Sir/Madam,

Sub: Declaration/Undertaking regarding Conflict of Interest among Bidders

E-Tender Specification No: BHE/PW/PUR/RGM/SH/3277

Job: SHORTENING OF LENGTH OF SH PLATEN ASSEMBLIES, FSH FRONT & REAR COIL ASSY. REMOVAL OF 02 INNERMOST ELEMENTS FROM EACH PLATEN SUPER HEATER ASSEMBLY, HEADER END PLUGS/BLANKED ARE TO BE INSTALLED, WELDED AT THE END OF HEADER NIPPLES OF PSH ALONG WITH CUP LOCK SCFFOLDING ARRANGEMENT AND ERECTION & DISMANTLING UPTO BOTTOM OF PSH, HYDRAULIC TEST OF THESE NEW COILS ALONG WITH OTHER RELATED CIRCUITS OF BOILER AT UNIT#01 OF 2X800 MW TSTPP, NTPC RAMAGUNDAM, TELANGANA.

The Bidder declares that they have read and understood the aspects stated in **SI No. 4 of Annexure-12 above**, and the bidder confirms that such conflict of interest does not exist and undertakes that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s), in this regard. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

In case, the Bidder is found having indulged in above activities, the same will be considered as a violation of the tender conditions, and suitable action shall be taken by BHEL as per extant policies/ guidelines.

**Signature of the Authorised Signatory
(With Name, Designation and Company seal)**

Place:
Date:

3277

TECHNICAL CONDITIONS OF CONTRACT (TCC)

BHARAT HEAVY ELECTRICALS LIMITED

TECHNICAL CONDITIONS OF CONTRACT (TCC) CONTENTS

Sl. No	DESCRIPTION	Chapter
Volume-IA	Part-I: Contract specific details	
1	Project Information	Chapter-I
2	Scope of Works and Technical Specifications	Chapter-II
3	Facilities in the scope of Contractor/BHEL (Scope Matrix)	Chapter-III
4	T&Ps and MMEs to be deployed by Contractor	Chapter-IV
5	T&Ps and MMEs to be deployed by BHEL on sharing basis	Chapter-V
6	Time Schedule	Chapter-VI
7	Terms of Payment	Chapter-VII
8	Taxes and other Duties	Chapter-VIII
9	Estimated Weight for various systems in scope of work (BOQ)	Chapter-IX
10	Bill of Quantities and % Weightage of Individual Items	Chapter-X

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - I: Project Information

1. 1 Project Information

The proposed site is located at a Latitude of 18° 44' 50" North to 18° 45' 29" North and Longitude of 79° 28' 5.35" East to 79° 28' 37" East near Ramagundam village, Karimnagar district of Telangana State. The site is approximately 51 km from district headquarter Karimnagar and about 1 km from Ramagundam. The nearest railway station, Ramagundam is about 5 km from the plant which lies on the main Kazipet - Balharshah broad gauge railway line of South Central Railway. The area is accessible by SH-1 Hyderabad-Mancheril Road popularly known as Rajiv Rahadari. The nearest commercial airport is at Hyderabad approximately at an aerial distance of 210 km. Environmental setting of the site is given in **Table-1**. The study area map of 10 km radius is shown in **Figure-1**.

Table-1

Sr. No.	Particulars	Details		
1	Plant location	Ramagundam, Karimnagar district, Telangana State		
2	Topo sheet No.	56 N/5, 56 N/6, 56 N/9 and 56 N/10		
3	Site Coordinates			
			Proposed Plant Site Coordinates	
		Corner	Latitude	Longitude
		A	18° 45' 17.4" N	79° 28' 37" E
		B	18° 45' 29" N	79° 28' 30" E
		C	18° 45' 27" N	79° 28' 12" E
		D	18° 45' 05" N	79° 28' 5.35" E
		E	18° 44' 50" N	79° 28' 18" E
		F	18° 44' 57.2" N	79° 28' 31" E
4	Climatic conditions	(IMD, Ramagundam)		
a)	Maximum temperature	41.7 °C		
	Minimum temperature	14.0 °C		
b)	Annual rainfall (total)	1147.7 mm		
c)	Relative humidity	Maximum- 83 % (August)		
		Minimum- 35 % (March)		
d)	Predominant wind directions	Annual:- NW, NE, SE, S and SW		
	Wind Velocity, Avg in last 10 years/Max			
		Pre-Monsoon:- SE, S, SW and SSE		
		Monsoon:- NW, W and SW		
		Post Monsoon:- NW, NE, E and SE		
		Winter:- NE, SE and S		
		Wind Velocity, Avg: 2.5 km/hr		
		Max: 3.8 km/hr		

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - I: Project Information

Sr. No.	Particulars	Details
5	Plant site elevation above MSL	RL 152.50 m
6	Plant site topography	Plain
7	Present land use at the site	Land use pattern is notified for industrial use
8	Nearest highway	Rajiv Rahadari SH-1 (Hyderabad-Mancherial road)- 0.4 km, N
9	Nearest railway station	Ramagundam RS- 5.0 km, WNW
10	Nearest Airport	Hyderabad, 210 km, SSW
11	Nearest major water bodies	· Godavari River- 4.0 km, NE
		· Jyothi Sagar (NTPC Balance Reservoir) - 0.9 km, S
12	Water source for the project	Yellampally Barrage, 14.0 km, NW
13	Nearest town/City	Godavarikhani, 3.0 km, E
14	Nearest village	Malyalapalli, 2.5 km, W
15	Archaeologically important places	None in 15 km radius
16	Protected areas as per Wildlife Protection Act, 1972 (Tiger reserve, Elephant reserve, Biospheres, national parks Wildlife sanctuaries, community and conservation reserves)	Nil
17	Reserved / Protected Forests	As per toposheet no. 56 N/5, 56 N/6, 56 N/9 and 56 N/10
		· Ramagundam RF- 0.6 km, NNW
		· Putnur RF- 3.0 km, W
		· Raidandi RF- 4.0 km, WNW
		· Indaram RF- 9.3 km, NE
18	Defence Installations	Nil
19	List of Industries in 10 km radius	NTPC Ramagundam STPP, 2600 MW (Adjacent)
		· Fertilizer Corporation of India, (not in Operation)- 1.7 km, SE
		TSGENCO, 62.5 MW- 2.1 km, NW
		· SCCL OCP-IV – 2.9 km, N
		· RG Coal Washery- 3.5 km, SE
		· 18 MW Singareni Power House at Godavarikhani- 3.7 km, ENE

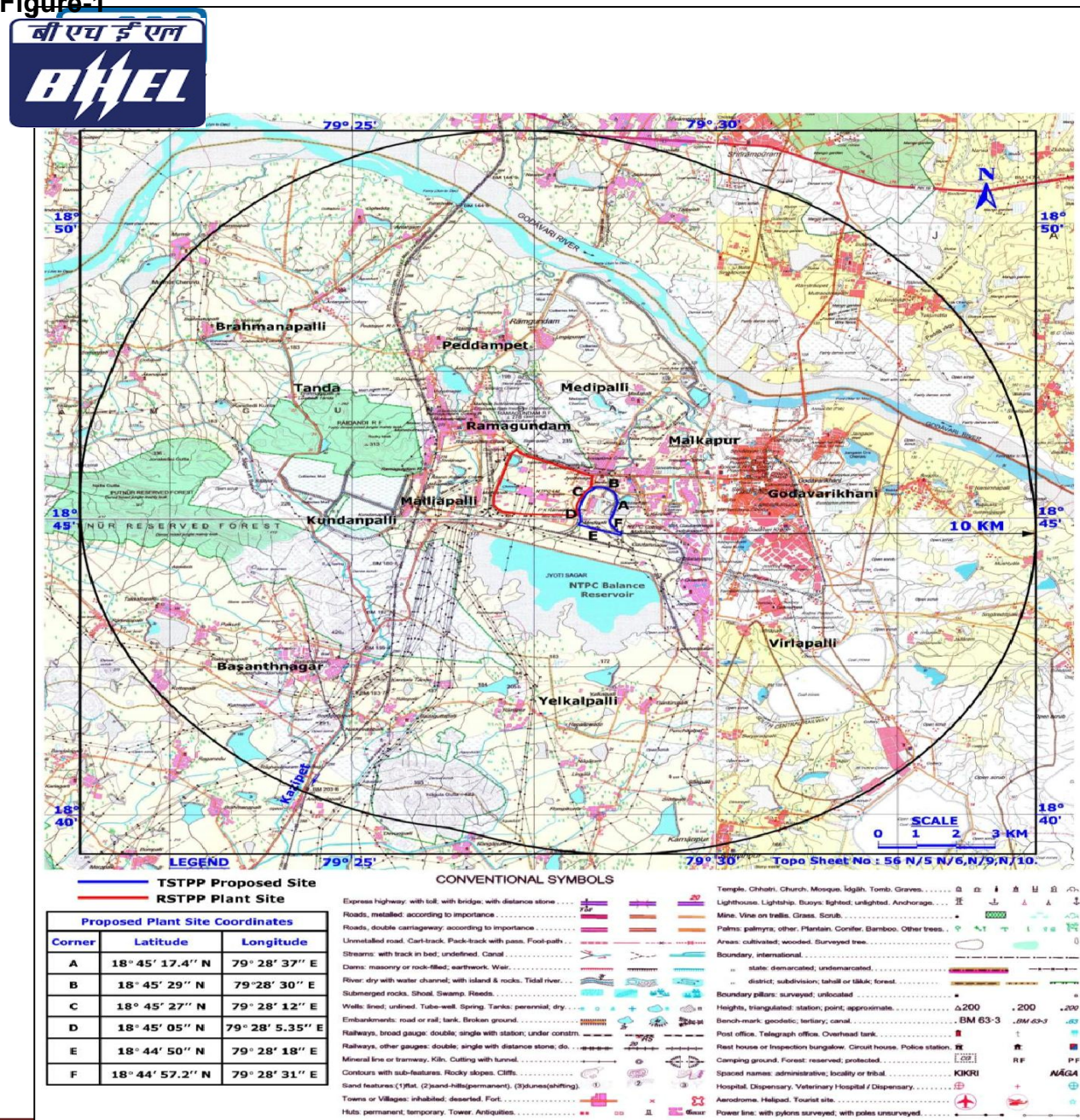
TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - I: Project Information

Sr. No.	Particulars	Details
		· SCCL OCP-III - 4.5 km, SE
		· Kesoram Cements Ltd, Basanth nagar- 7.3 km
20	Seismicity	Seismic Zone-II as per IS 1893 (Part I): 2002

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

Figure-1



TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Work

SCOPE OF WORK

JOB DESCRIPTION: SHORTENING OF LENGTH OF SH PLATEN ASSEMBLIES, FSH FRONT & REAR COIL ASSY. REMOVAL OF 02 INNERMOST ELEMENTS FROM EACH PLATEN SUPER HEATER ASSEMBLY, HEADER END PLUGS/BLANKED ARE TO BE INSTALLED ,WELDED AT THE END OF HEADER NIPPLES OF PSH ALONG WITH CUP LOCK SCFFOLDING ARRANGEMENT AND ERECTION & DISMANTLING UPTO BOTTOM OF PSH, HYDRAULIC TEST OF THESE NEW COILS ALONG WITH OTHER RELATED CIRCUITS OF BOILER AT UNIT#01 OF 2X800 MW TSTPP, NTPC RAMAGUNDAM, TELANGANA.

JOB DURATION: 45 DAYS: (Pre-Shutdown Period of 15 days, Shutdown period of 25 days with a grace period of 5 days)

Name of the work:- Shortening of length of FSH front & rear coil assembly, removal of 02 nos. innermost elements from each Platen Superheater Assemblies & blanking of PSH inlet & outlet header nipples along with connected accessories and hydraulic test of these new coils along with other related circuits of Boiler in one Boiler.

Detailed Scope of work covers the following:-

- (a) Shortening of length of 104 FSH Rear Coil assembly and 104 FSH Front Coil Assembly.
- (b) Removal of 02 innermost elements from each platen super heater assemblies (S-26 & S-34) and blanking of PSH headers (S-28, S-32) nipples with supplied blanks.
- (c) Welding of Seal Bands and other attachments applicable during the modification.

1. **Description of work before shutdown (Preparatory work OR Pre Shutdown work):-**

- (A) Cutting of existing Platform suitably to facilitate the coil feeding up inside BP furnace. Same has to be restored after completion of erection.
- (B) Making suitable arrangement from both sides (as per site condition) of Boiler for lifting of coils by using load tested winch/crane with all pulleys in position. The lifting arrangement to be made by vendor has to be tested at site through testing agency.
- (C) Installation of welding booth with adequate nos. of welding machines/ rectifier/ thyristor based (refer T&P list) at a floor convenient to joint locations. Vendor has to arrange to draw cables from provided source of construction power by BHEL/Customer.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Work

(D) Installation of adequate nos. heating panels/ low voltage heating panels with temperature recorders at convenient place before start of welding job (refer T&P list, as provided by vendor.

(E) Arrangement for qualification test of HP welders for HP joints/ Attachment welding/structural welding.

Note: i) Above mentioned scope is tentative.

ii) If any activity as mentioned above under Pre Shutdown activities, couldn't be completed/taken up during pre-shutdown period, the same has to be completed by vendor with additional resources within the shutdown period.

2. Description of work after shut down (Shut down Period):-

2.1 Work for reduction of Length of FSH Coil Front & Rear Bank (104 nos coil assies on front & rear) with Workforces/T&Ps/Consumables etc. (Involment of activites such as cutting, grinding, welding, buffing, NDT, PWHT) at marked locations & after shot peening restoration of same 104 Coils in each assemblies) & Removal of 02 innermost elements from each platen super heater assemblies and blanking of PSH headers nipple with supplied blanks, during shutdown period :-

2.1.a. FSH WORK:

The scope covers shortening of FSH Front & Rear Coil Assemblies length (for all 104 nos. coils in each assembly) by cutting & removal of straight tube from FSH Rear Coil Assy, re-welding of Bottom loop of coil in new position (refer attached tentative sketch).

2.1.a.1. After clearance from customer (water wash of boiler, for which vendor may have to get associated and takeover the Boiler after water washing), scaffolding to be made in Final SH Front & Rear Bank as per requirement/as directed by BHEL.

2.1.a.2. This work involves removal of sheeting and insulation from BP side wall on both sides and cutting of BP side wall tubes for making arrangement of final SH front & rear Coil Assy straight portion cutting & removal(as per drawing), arrangement for creating gap between FSH coils for cutting of coils, removal of straight tube, re welding of old bottom loops in new position etc. or as per BHEL instruction. The BP side wall is to be cut in such a way that it can be reinstalled without any problem. The arrangement for lifting and removal of cut tubes/panel to be done in advance. Arrangement of any temporary arrangement /scaffolding under vendor scope.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Work

Note: For shortening of FSH Front & Rear Coil Assy Length (for all 104 no coils for each assemblies) by cutting & removal of straight tube from FSH Front & Rear Coil Assy, re-welding of Bottom loop of coils in new position, if any other job to be carried out (which is not mentioned here), vendor has to carry out the same within their quoted price (without any extra cost).

2.1.a.3. Gap to be created in FSH front & rear coils in multiple locations for parallel work. Length of existing FSH front & rear coil assy is to be approximately reduced by 6.5 m (as per drawing). Before cutting, coils are to be locked (if required), support in bottom loop to be taken. Cutting of FSH front & rear coils in 2 location as per drawing, removal & disposal of straight spool tubes from coils, bottom loop portion to be kept in goose neck area or to be taken outside floor, the loop tube ends to be capped, before fit up, the bottom loops to be cleaned with air/steam and sponge test, fitup of bend portion of coils in new position (after reduction of coil length), Pre-Heat, welding, PWHT & NDT as per Erection Welding Schedule/WPS.

2.1.a.4. Alignment of the FSH coils to be done after reduction of length.

2.1.a.5. Restoration of Mechanical seal band after erection alignment and joint completion of FSH rear coil assembly as per drawing.

2.1.a.6. Approximately 183.040 MT weight of coil assemblies to be removed from Final SH Front & Rear Coil assy. After removal of straight tubes from boilers, the same to be transported to BHEL store or any other location as directed by BHEL and The bottom bend portion to be re-erected, welded again as per drawing.

2.1.a.7. Final SH modifications will require tentatively following welds joints:

Sl.no	Circuit	Size	Material	Qty	Unit
1	S-39 Trimming	44.45 x 8.13	SA213TP347H	104	Nos.
2	S-39 Trimming	44.45 x 7.62	SA213S30432	104	Nos.
3	S-39 Trimming	44.45 x 7.11	SA213S30432	1040	Nos.
4	S-39 Trimming	44.45 x 7.62	SA213TP347H	1040	Nos.
5	S-40 Trimming	44.45 x 8.1	SA213S30432	104	Nos.
6	S-40 Trimming	44.45 x 7.6	SA213S30432	1144	Nos.
7	S-40 Trimming	44.45 x 7.11	SA213S30432	1040	Nos.

- APPLICABLE NDT: 20% RT (As per the scope of latest revision of EWS)

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Work

- Weld joint of tubes (for restoration of Water wall tube, any other tube if cut for making arrangement for shortening FSH coil length) its PH, PWHT, NDT as per EWS/WPS of BHEL

2.1.b. PSH WORK:

The scope covers Removal of 02 innermost elements from each platen super heater Front & rear assemblies (34 nos. of assemblies on front & rear each) and blanking of PSH headers nipple with supplied blanks (refer Drawing).

2.1.b.1 After clearance from customer (water wash of boiler, for which vendor may have to get associated and takeover the Boiler after water washing), scaffolding to be made in Platen SH Coil front & rear assy. Scaffolding in PSH coil from Coil Bottom to Roof Tube Bottom as required to be made by vendor. The arrangement/preparatory work for removal of 02 innermost elements from each platen super heater assemblies to be done in advance.

2.1.b.2. This work involve removal of sheeting and insulation from both side water wall, roof tube refractory/skin casing, seal band of crown plate (as required) and cutting of side water wall tubes, roof (as required) for making arrangement of 02 innermost elements from each platen super heater front & rear assemblies removal, arrangement for support for cutting of PSH coils assemblies as per drawing, locking of PSH coils & loops (if reqd.), removal of 02 innermost elements from each platen super heater assemblies (34 nos of assemblies each in front & rear), restoration of refractory, skin casing, seal band of crown plate etc. in roof area/water wall tube (as required) etc. or as per BHEL instruction. After cutting PSH coils assemblies, the same to be taken outside the boiler & disposed. Platen SH front & Rear Inlet & outlet Headers nipples are to be blanked.

Note: For removal of 02 innermost elements from each platen super heater assemblies & blanking of nipples of PSH Inlet & Outlet Header, if any other job to be carried out (which is not mentioned here), vendor has to carry out the same within their quoted price (without any extra cost).

2.1.b.3 PSH header nipples are to be blanked (with BHEL supplied blanks) after removal of coil assemblies.

2.1.b.4 After removal of 02 innermost elements from each platen super heater assemblies, male –female connectors/mechanical spacer etc of different area are to be re-fixed, welded.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Work

2.1.b.5 Removal & Fixing of MTM pads/acromats along with associated C&I work (as may be required) to be done. Cutting, edge preparation and installation of T22/T91 plates for PSH seal band blanking as directed by BHEL.

2.1.b.6 Balance restoration to be done.

2.1.b.7 Approximately 47.6 MT weight of coil assemblies to be removed from Existing Platen front & rear SH coil assies. The removed elements to be taken outside the boiler & it is to be transported to BHEL store or to be disposed of in location as directed by BHEL.

2.1.b.8 Platen SH element removal work will require tentatively following weld joints:

Sl.no	Circuit	Size	Material	Qty	Unit
1	S-26 Blank	33.4 x 7.11	SA182F22	68	Nos.
2	S-28 Blank	33.4 x 7.11	SA182F91	68	Nos.
3	S-32 Blank	33.4 x 4.19	SA182F91	68	Nos.
4	S-34 Blank	33.4 x 5.1	SA182F91	68	Nos.
5	Seal band welding	5 fillet	SA387GR91	150	meters

- APPLICABLE NDT: as per applicable latest revision of EWS/FWS
- PH+PWHT: as per EWS/WPS of BHEL(to be provided during execution)
- Weld joints of tubes (for restoration of Water wall tube, any other tube if cut for making arrangement for removal of Platen SH coil assemblies), its PH,PWHT,NDT as per EWS/WPS of BHEL.

2.1.c. Cuplock scaffolding for trimming of FSH coils & PSH modification work: Work under clause 2.1.a & 2.1.b require cuplock scaffolding arrangement and erection & dismantling upto required height for carrying out modification works is also under vendor scope .

3. Tentative description of Joints to be done or associated with the erection of coils, cutting and restoration of walls and fixing of profile tubes of doors and LRSB In shut down Period, Joints related to FSH ,PSH Modification & it is also mentioned above in sl no 2.6 & 2.11 of this scope.

After completion of joint fit up and clearance from BHEL Engineers, welding to be started by qualified HP welders. The details of the joints are as follows involved in the erection of LTRH pendent, LTRH Horizontal, ECO outlet header, Economiser Coils & Profile tubes.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Work

Sl.no	Circuit	Size	Material	Qty	Unit
1	S-26 Blank	33.4 x 7.11	SA182F22	68	Nos.
2	S-28 Blank	33.4 x 7.11	SA182F91	68	Nos.
3	S-32 Blank	33.4 x 4.19	SA182F91	68	Nos.
4	S-34 Blank	33.4 x 5.1	SA182F91	68	Nos.
5	Seal band welding	5 fillet	SA387GR91	150	meters
6	S-39 Trimming	44.45 x 8.13	SA213TP347H	104	Nos.
7	S-39 Trimming	44.45 x 7.62	SA213S30432	104	Nos.
8	S-39 Trimming	44.45 x 7.11	SA213S30432	1040	Nos.
9	S-39 Trimming	44.45 x 7.62	SA213TP347H	1040	Nos.
10	S-40 Trimming	44.45 x 8.1	SA213S30432	104	Nos.
11	S-40 Trimming	44.45 x 7.6	SA213S30432	1144	Nos.
12	S-40 Trimming	44.45 x 7.11	SA213S30432	1040	Nos.
Total Joints				4848	Nos.

Note: All NDT quantum and method shall be as per applicable latest revision of EWS.

Note: In addition to the above joints detailed above regarding the joints required to re-weld the cut portion of BP side walls or First Pass panels, roof tubes, any other portion removed to facilitate the modification works shall be done by agency as per the applicable EWS for the project.

- 3.1 Pre- heat of Pipe joints (of any spec) & T23 tubes to be done with resistance heating coils with ceramic pads only.
- 3.2 Preheating of joints other than T-23 and pipe of any grade materials shall be done by resistance heating coils OR heating torch (using perforated burner with oxy acetylene/LPG) with temperature recorder only. **Preheating by cutting torches is not permitted.** The decision of BHEL engineers shall be final in this regard.
- 3.3 Only IBR qualified welders shall be tested as per BHEL welder qualification test procedure and qualified welders shall be allowed to be engaged with the job.
- 3.4 Adequate nos. of heating panels with recorders (for pre-heating/ post heat/PWHT) shall be used with valid test/ calibration certificate of the equipment (refer T&P list, as to be provided by vendor).
- 3.5 PWHT to be done as per BHEL approved EWS/FQP. PWHT of T-23 shall be done by using low voltage ceramic pads resistance coils only. The decision of BHEL engineers shall be final in this regard
- 3.6 Radiography is to be taken as per the quantity mentioned in approved EWS. Penalty shots (on occurrence of any joint defect) to be taken as per procedure and norms of BHEL/IBR. The decision of BHEL engineers shall be final in this regard

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Work

- 3.7 Qualified agency/persons are required to take radiography, RT film processing and development and interpretations of films. However, acceptance of the joints shall be as per IBR/ASME/BHEL codes and norms.
- 3.8 Arrangements for radiography source handling at site, dark room to develop the RT films, RT film viewer and Pit room to be made by vendor.
- 3.9 The quantity of NDT as mentioned above is indicative only, and it may vary as per BHEL approved EWS (to be provided during execution). Vendor has to do the job as per approved EWS only within their quoted price.
- 3.10 NDT other than RT system have to be taken by PAUT (Phased Array Ultrasonic Technique) system. The quantity of the NDT shall be 20% Gamma Ray RT and 80 % PAUT wherever 100% NDT is applicable OR as per EWS (will be provided during execution).
- 3.11 The Hardness requirement mentioned above are indicative only & it may vary as per BHEL approved EWS (to be provided during execution). Vendor has to carry out the job as per approved EWS only within their quoted price). The hardness to be taken with UCI (ultrasonic compact impedance) tester (Refer T&P list).
- 3.12 The Nos. of joint & size of tubes as mentioned above are indicative only. It may vary during actual execution of the job. All joints and their NDT, PWHT, Hardness irrespective of variation from indicated/ EWS quantity has to be done within quoted price only.
- 3.13 Vendor has to replace the joint with inserting a spool piece (if required) due to wrong cutting or misalignment of the joint free of cost. In that case no of joints and corresponding quantity of NDT may vary.
- 3.14 Wherever the PAUT is applicable as per latest EWS. The mobilization of the agency or equipment for conducting PAUT in the under the scope of vendor. Preparation & submission of report shall also be under the vendor scope.
- 3.15 For conducting the NDT method/quantum, a latest revision of the EWS shall be referred to.

Notes:-

- 1. Vendor has to mobilize at site within 7 days of intimation of BHEL to complete all preparatory works/pre-shutdown activities prior to shutdown, shifting of maximum plant materials and all arrangements for shifting of coils to nearest platforms and to make other necessary arrangements etc.
- 2. Agency should submit a detailed resource/manpower linked execution plan (in the form of PERT network / BAR chart) to BHEL/NTPC EIC immediately after receipt of LOI and same has to be finalized after reviewing from BHEL/NTPC and to be mutually agreed within 07 days. In respect of time schedule, it may be noted that 10

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Work

days of Pre-Shutdown Works, 25 days of shutdown period will be allocated for this job along with 5 days of grace period as per discretion of BHEL/NTPC.

3. The Agency should make up for any inadequacy in mobilization as felt by BHEL/ NTPC within 24 hours of intimation. In case Agency fails to mobilize sufficiently and the progress of work at various stages is not achieved, BHEL/ NTPC will mobilize at the risk and cost of the contractor. In such case, BHEL/NTPC overhead will be charged along with the cost of mobilization.
4. Any scaffolding required for the retrofitting job to make an easy approach for inspection by BHEL/NTPC authority has to be carried out by the Agency without any extra cost. All scaffolding materials(steel pipes, clamps,steel planks etc.) for the same to be arranged by vendor.
5. Vendor has to supply & apply touch up/finish paints in newly erected structures, platforms, restored platforms/structures/buckstays etc.& also in existing areas wherever painting will be removed during dismantling,re-erection work etc.
6. The fixtures/T&P's required for load transfer arrangement/ lifting arrangements of coils,headers etc shall be arranged by the contractor at his own cost. However, no payment shall be made to vendor for Erection & Removal of load transfer arrangement/temporary steel structures & vendor has to do the same within its quoted price without any extra cost.
7. The scope under this specification is not exhaustive but indicative only. However, any activity covered under the normal course of rectification job shall be deemed to be within the scope. The scope shall also include manpower assistance during Hydro test / vacuum pulling of the circuits and subsequent activities till synchronization of the unit. After successful completion of hydro test/ vacuum pulling of the unit, application of refractory & insulation followed by skin casing plate welding (attached to pressure parts only) to be done within next time as per schedule allocated for the job.
8. Time is the essence of this contract, Hence contractor must mobilize to site with adequate manpower and corresponding resources for round the clock 12 hours shifts work during the entire duration of job. Also adequate T&P, consumables and inspection/measuring and monitoring devices are to be mobilized at site for two/three shift operations to avoid any hold up during execution of the work.
9. Vendor is also advised to visit 2X800 MW Telangana project, for clear and better understanding of the job before quoting the tender.
10. Post synchronization of the unit, observation for 72 hrs. at stable rated load and attending all works to rectify defects if any pertaining to concerned area, is included within the scope of work. Prior to mobilization of site, list of work men shift wise with the concerned work area supervisor shall be finalized jointly with BHEL/Customer.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Work

11. Providing manpower for assistance in PG Test of the Unit. Information for mobilization shall be provided in advance for deployment of manpower in advance to vendor.
12. Returning/ Reconciliation of issued materials, transportation/disposal of old / dismantled/ surplus material at appropriate place inside plant premises to be done by vendor during execution/on completion of job.
13. Vendor should provide test certificate for all the T&P's mobilized at site. The erection arrangement (for coils, structures, pr Parts etc) to be made by vendor, has to be tested at site through testing agency.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

CHAPTER - III: Facilities in the scope of Contractor/BHEL

(SCOPE MATRIX)

Facilities in the scope of Contractor/BHEL:

Sl. No	Description Part I	Scope / to be taken care by		Remarks
		BHEL	Bidder	
3.1	Establishment			
3.1.1	For construction purpose:			
a	Open space for office (as per availability)	Yes		Location will be finalized after joint survey with owner
b	Open space for storage (as per availability)	Yes		Location will be finalized after joint survey with owner Note: There can be more than one location of open storage yard, Closed shed/ Semi Closed shed. Bidder shall make his establishment accordingly
c	Construction of bidder's office, canteen and storage building including supply of materials and other services		Yes	
d	Bidder's all office equipments, office / store / canteen consumables		Yes	
e	Canteen facilities for the bidder's staff, supervisors and engineers etc		Yes	
f	Fire fighting equipments like buckets, extinguishers etc		Yes	
g	Fencing of storage area, office, canteen etc of the bidder		Yes	
3.1.2	For living purposes of the Bidder			
a	Open space for labour colony (as per availability)		Yes	Agency has to make his own arrangement at his own cost.

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CHAPTER - III: Facilities in the scope of Contractor/BHEL
(SCOPE MATRIX)

Sl. No	Description Part I	Scope / to be taken care by		Remarks
		BHEL	Bidder	
b	Labour Colony with internal roads, sanitation, complying with statutory requirements		Yes	
3.2	Electricity			
3.2.1	Electricity for construction purposes only of Voltage 415/440 V, 3 phase, 50Hz		Yes	Chargeable. The charges for the actual energy consumed by the Contractor shall be Recovered by BHEL based on the prevalent rate of DISCOM.
a	Single point source	Yes		At a distance of 500 M from site (Distance is only tentative, it may vary upto an extent depending on site condition)
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
c	Duties and deposits including statutory clearances if applicable		Yes	
3.2.2	Electricity for the office, stores, canteen etc of the bidder	Yes		Chargeable
a	Single point source	Yes		At a distance of 500 M from site (Distance is only tentative, it may vary upto an extent depending on site condition)
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
c	Duties and deposits including statutory clearances if applicable		Yes	

TECHNICAL CONDITIONS OF CONTRACT (TCC)
CHAPTER - III: Facilities in the scope of Contractor/BHEL
(SCOPE MATRIX)

Sl. No	Description Part I	Scope / to be taken care by		Remarks
		BHEL	Bidder	
3.2.3	Electricity for living accommodation of the bidder's staff, engineers, supervisors etc		Yes	Agency has to make his own arrangement at his own cost.
a	Single point source		Yes	
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
c	Duties and deposits including statutory clearances if applicable		Yes	
3.3	Water Supply			
3.3.1	For construction purposes:			
a	Making the water available at single point		Yes	Contractor shall make all arrangements himself for supply of construction water as well as potable water for labour and other personnel at the work site/ colony. However, drawl of construction/potable water from bore-well shall be permitted if found suitable. Any statutory clearance required shall be obtained by the contractor.
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	
3.3.2	Water supply for bidder's office, stores, canteen etc.			
a	Making the water available at single point		Yes	Contractor shall make all

TECHNICAL CONDITIONS OF CONTRACT (TCC)
CHAPTER - III: Facilities in the scope of Contractor/BHEL
(SCOPE MATRIX)

Sl. No	Description Part I	Scope / to be taken care by		Remarks
		BHEL	Bidder	
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	arrangements himself for supply of construction water as well as potable water for labour and other personnel at the work site/ colony. However, drawl of construction/potable water from bore-well shall be permitted if found suitable. Any statutory clearance required shall be obtained by the contractor.
3.3.3	<u>Water supply for Living Purpose</u>			
a	Making the water available at single point		Yes	
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	
3.4	Lighting			
a	For construction work (supply of all the necessary materials) 1. At office/storage area 2. At the preassembly area 3. At the construction site /area		Yes	
b	For construction work (execution of the lighting work/ arrangements) 1. At office/storage area 2. At the preassembly area 3 At the construction site /area		Yes	
c	Providing the necessary consumables like bulbs, switches, etc during the course of project work		Yes	

TECHNICAL CONDITIONS OF CONTRACT (TCC)
CHAPTER - III: Facilities in the scope of Contractor/BHEL
(SCOPE MATRIX)

Sl. No	Description Part I	Scope / to be taken care by		Remarks
		BHEL	Bidder	
d	Lighting for the living purposes of the bidder at the colony / quarters		Yes	
3.5	Communication Facilities for Site Operations of the Bidder			
a	Telephone, fax, internet, intranet, e-mail etc.		Yes	
3.6	Compressed Air wherever required for the work		Yes	
a	Supply of Compressor and all other equipments required for compressor & compressed air system including pipes, valves, storage systems etc		Yes	
b	Installation of above system and operation & maintenance of the same		Yes	
c	Supply of the all the consumables for the above system during the contract period		Yes	
3.7	Demobilization of all the above facilities		Yes	
3.8	Transportation			
a	For site personnel of the bidder		Yes	
b	For bidder's equipments and consumables (T&P, Consumables etc)		Yes	

Sl. No	Description Part II	Scope / to be taken care by		Remarks
		BHEL	Bidder	
	3.9 Erection Facilities			

TECHNICAL CONDITIONS OF CONTRACT (TCC)

CHAPTER - III: Facilities in the scope of Contractor/BHEL

(SCOPE MATRIX)

Sl. No	Description Part II	Scope / to be taken care by		Remarks
		BHEL	Bidder	
	3.9 Erection Facilities			
3.9.1	Engineering works for construction:	Yes		
a	Providing the erection drawings for all the equipments covered under this scope	Yes		
b	Drawings for construction methods	Yes	Yes	In consultation with BHEL
c	As-built drawings – where ever deviations observed and executed and also based on the decisions taken at site- example – routing of small bore pipes		Yes	In consultation with BHEL
d	Shipping lists etc for reference and planning the activities	Yes		
e	Preparation of site erection schedules and other input requirements		Yes	In consultation with BHEL
f	Review of performance and revision of site erection schedules in order to achieve the end dates and other commitments	Yes	Yes	In consultation with BHEL
g	Weekly erection schedules based on SL No. e		Yes	In consultation with BHEL
h	Daily erection / work plan based on SL No. g		Yes	In consultation with BHEL
i	<u>Periodic visit of the senior official of the bidder to site to review the progress so that works are completed as per schedule. It is suggested this review by the senior official of the bidder should be done once in every two months.</u>		Yes	
j	Preparation of preassembly bay/bed		Yes	
k	Arranging the materials required for preassembly		Yes	

3.10 Electricity:

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CHAPTER - III: Facilities in the scope of Contractor/BHEL

(SCOPE MATRIX)

- 3.10.1 The construction power (415V) will be provided at a single point for construction purpose only at chargeable basis and the further distribution is to be arranged by the bidder at his cost. Construction power shall be provided from the nearest Substation / tapping point.
- 3.10.2 Any duty, deposit involved in getting the Electricity shall be borne by the bidder. As regards to contractor's office shed also, all such expenditure shall be borne by the contractor.
- 3.10.3 Provision of distribution of electrical power from the given single central common point to the required places with proper distribution boards, approved cables and cable laying including supply of all materials like cables, switch boards, pipes etc., observing the safety rules laid down by electrical authority of the State / BHEL / their customer with appropriate statutory requirements shall be the responsibility of the tenderer / contractor.
- 3.10.4 BHEL is not responsible for any loss or damage to the contractor's equipment as a result of variations in voltage / frequency or interruptions in power supply.
- 3.10.5 Necessary "Capacitor Banks" to improve the Power factor to a minimum of 0.8 shall be provided by the contractor at his cost. Penalty if any levied by customer on this account will be recovered from contractor's bills.

3.11 Construction Water: Water shall not be provided by BHEL and bidder has to make their own arrangement.

3.12 Drinking Water: Bidder shall provide drinking water at the work spot at their cost.

3.14 Consumables:

- 3.14.1 Such of those consumables as indicated as consumables provided by BHEL alone will be provided to the contractor by BHEL free of charge for erection activities. Other required consumables like electrodes, all gases, and other materials for this scope of work are to be arranged by the contractor at their cost.
- 3.14.2 All the required electrodes (in his scope) as approved by BHEL shall be arranged by contractor at his cost. It shall be the responsibility of the contractor to obtain prior approval of BHEL, before procurement regarding, suppliers, type of electrodes etc. On receipt of the electrodes at site, it shall be subject to inspection and approval by BHEL. The contractor shall inform BHEL details regarding type of electrodes, batch number and date of expiry etc.

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CHAPTER - III: Facilities in the scope of Contractor/BHEL

(SCOPE MATRIX)

3.14.3 **BHEL will only provide only special type of electrode/ filler wires as released in Shipping list which is required for Pressure Parts Joints Welding.** This special type of electrode/ filler wire will be supplied by BHEL manufacturing units. **All other electrodes/ filler wire including stainless steel electrodes/ filler wire required for site welding shall be arranged by the contractor at his cost.** The bidder shall use the Customer approved quality welding electrodes/ filler wire only. The utilization of the welding wires/ electrode issued by BHEL shall be duly accounted for exercising maximum care and ensuring economical usage for minimum wastage. If during erection, it is found that the consumption of filler wire/ electrode is more than the actual requirement/supplied filler wires due to improper usage, the cost for the additional quantity so consumed shall be recovered from the contractor.

3.14.4 The contractor shall provide within finally accepted price / rates, all consumables like welding electrodes (including alloy steel and stainless steel), all gases (inert, welding, and cutting), soldering material, dye penetrants, radiography films. Other erection consumables such as tapes, jointing compound, grease, mobile oil, M-seal, Araldite, petrol, CTC / other cleaning agents, grinding and cutting wheels are to be provided by the contractor. Steel, H&S, packers, shims, wooden planks, scaffolding and pre-assembly materials, hardware items etc. required for temporary works such as supports, scaffoldings, bed are to be arranged by him. Sealing compounds, gaskets, gland packing, wooden sleepers, for temporary work, required for completion of work except those which are specifically supplied by manufacturing unit are also to be arranged by him.

3.14.5 ~~All the shims, gaskets and packing, which go finally as part of equipment, shall be supplied by BHEL free of cost.~~

3.15 Material Supply: BHEL will supply the materials / equipment indicated in the weight schedule from their respective manufacturing units which are to be executed / incorporated in the permanent system. In addition, the material such as lube oil, grease required for commissioning the erected equipments and chemicals required for chemical cleaning of equipments will be supplied free of cost by BHEL.

3.16 Lighting Facility: Adequate lighting facilities such as flood lamps, hand lamps and area lighting shall be arranged by the contractor at the site of construction, pre assembly yard and contractor's material storage area etc. at his cost.

3.17 Gases:

3.17.1 All the required gases like Oxygen / Acetylene / argon / Nitrogen required for work shall be supplied by the Contractor at his cost. It shall be the responsibility of the contractor to plan the activities and store sufficient quantity of these gases. Non availability of gases cannot be considered as reason for not attaining the required progress. BHEL reserves the right to reject the use of any gas in case required purity is not maintained.

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CHAPTER - III: Facilities in the scope of Contractor/BHEL

(SCOPE MATRIX)

3.17.2 The contractor shall submit weekly / fortnightly / monthly statement report regarding consumption of all consumables for cost analysis purposes.

3.17.3 The contractor shall ensure safe keeping of the inflammable cylinder at a separate place away from normal habit with proper security etc.

3.18 Electrodes Supply and Storage including BHEL Supplied and Contractor Scope:

3.18.1 The bidder shall use the BHEL / Customer approved quality welding electrodes only.

3.18.2 It shall be the responsibility of the contractor to obtain prior approval of BHEL, before procurement, regarding suppliers, type of electrodes etc. On receipt of the electrodes at site, it shall be subject to inspection and approval by BHEL. The contractor shall inform BHEL details regarding type of electrodes, batch number and date of expiry etc.

3.18.3 Shortage of any of the electrodes or the equivalent suggested by BHEL shall not be quoted as reason for deficiency in progress or for additional rate.

3.18.4 Storage of electrodes shall be done in an air conditioned / controlled humidity room as per requirement, at his own cost by the contractor.

3.18.5 All low hydrogen electrodes shall be baked / dried in the electrode drying oven (range 375 deg. C - 425 deg. C) to the temperature and period specified by the BHEL Engineer before they are used in erection work and each welder should be provided with one portable electrode drying oven at the work spot. Electrode drying oven and portable drying ovens shall be provided by contractor at his cost.

3.18.6 In case of improper arrangement of procurement of above electrodes BHEL reserves the right to procure the same from any source and recover the cost from the contractor's first subsequent bills at market value plus departmental charges of BHEL communicated from time to time. Postponement of such recovery is not permitted.

3.18.7. BHEL reserves the right to reject the use of any electrodes at any stage, if found defective because of bad quality, improper storage, date expiry, unapproved type of electrodes etc. It shall be the responsibility of the contractor to replace at his cost without loss of time.

3.19 INPUTS REQUIRED FROM SUCCESSFUL BIDDER

3.19.1. Statutory clearances, payment of minimum wages as revised from time to time, ***all clearances from CIB Telangana i.e. approval of drawings, clearance for execution of work, re-BLU etc. as required has to be taken care by the Agency/Contractor.*** Necessary inspection fees of Telangana Boiler Directorate only will be paid by BHEL / OWNER in this regard

TECHNICAL CONDITIONS OF CONTRACT (TCC)

CHAPTER - III: Facilities in the scope of Contractor/BHEL

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on reimbursement basis on production of fee receipt. All other incidental expenditures need to be borne/absorbed by the vendor within their quoted price.

3.19.2. Contractor has to arrange for necessary labour license, insurance etc. for their workmen and other necessary statutory requirements are to be fulfilled. Co-ordination with the Boiler Inspector is the responsibility of the contractor.

3.19.3. ***For Boiler Pressure parts job, contractors have to take necessary approval under Section 392 of IBR from the Boiler Directorate prior to job execution.***

3.19.4. Agency should submit the valid IBR performance qualification certificate of welders and endorsed by Directorate of Boilers, Maharashtra whom he intends to deploy in the job.

3.19.5. Contractor has to provide necessary skilled, semi-skilled and unskilled manpower and supervision for the total job under the technical guidance of BHEL. Contractor has to provide following manpower/ resources (indicative only) to execute the job on round the clock basis and complete the job in time:

- (i) Around 20-30 HP WELDERS in peak time and corresponding welding and heating resources.
- (ii) Around 5-10 LP WELDERS from pre-shutdown till completion of works
- (iii) Around 5-10 ATTACHMENT WELDERS in peak time.
- (iv) Around 15 Nos. of grinders.
- (v) Around 10-15 fitters in peak time.
- (vi) Around 5-10 rigging gangs.

However, vendor has to submit the manpower deployment plan in line with their own schedule. In respect of grinders indicated above, vendor may propose / mobilize automatic cutter and beveling machine for specified OD tubes. Accordingly, grinders indicated may be reduced. However, jobs within the tender scope have to be completed in totality within the quoted rates and terms.

The contractor has to mobilize H. P. Welders well in advance for their welder qualification test as per IBR/BHEL/Customer norms and for site simulation. Contractor has to provide sufficient experienced supervisory staff (exclusively for all work fronts) in respective areas in retrofitting of boilers excluding site in-charge for close supervision of work as well as providing inputs for uninterrupted progress of the job.

3.19.6. Cleaning, housekeeping and security arrangement for the equipment, T&P and materials, spares are the responsibility of the contractor.

3.19.7. The contractor has to sign "INDEMNITY BOND" for obtaining Form -V (required for labour license) from the Principal Employer M/s NTPC/Mauda on non-judicial stamp paper as per format provided by BHEL.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

CHAPTER - IV T&P and MME TO BE DEPLOYED BY CONTRACTOR

The list of T & P are provided hereunder to be mobilized by the contractor as per mobilization time mentioned in Annexure-I. 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.

Sl no	Description Of Equipments	Capacity (Minimum)	Minimum Quantity	Remarks
4	Tyre mounted / mobile crane (Telescopic boom, hydraulically operated with turret function)	40/50 MT	02 Nos	To be deployed as per instruction of BHEL Engineer.
2	Tyre mounted / mobile crane (Telescopic boom, hydraulically operated with turret function)	75 MT	01 No	To be deployed as per instruction of BHEL Engineer.
3	New generation Pick & carry type tyre mounted mobile crane. (Farana). Hydra is not allowed.	12/14/18 MT	01 Nos	To be deployed as per instruction of BHEL for disposing the materials/ scraps from site to BHEL Store or vice versa.
4	Mixer for Grouting of equipment foundations			As per requirement
5	Suitable capacity of Hydraulic test pumps and Fill Pump for testing			As per requirement
6	Plasma Cutting Machine	Suitable to cut plate thickness upto 25mm	02 nos	As per requirement
7	Trailer with prime mover	20 MT	02 Nos	As required
8	Trailer with prime mover	40 MT	01 Nos	As required
9	Tractor Trailer	15/20MT	As required	To be deployed as per instruction of BHEL Engineer.
10	Truck	Adequate capacity	As required	To be deployed as per instruction of BHEL Engineer.
11	Slings, 'D'-Shackles, Max Puller.	01 MT TO 10MT	As required	To be deployed as per instruction of BHEL Engineer.

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CHAPTER - IV T&P and MME TO BE DEPLOYED BY CONTRACTOR

Sl no	Description Of Equipments	Capacity (Minimum)	Minimum Quantity	Remarks
12	Slings, 'D'-Shackles, Max Puller, Pulley Blocks, Hydraulic Jacks, Etc Above 10 Mt.	As required	As required	To be deployed as per instruction of BHEL Engineer, WITH TEST REPORTS
13	Spanner Sets Ring/D	Upto 56 MM	As required	To be deployed as per instruction of BHEL Engineer.
14	Tube expander	As required	1 No	As per requirement
15	Air compressor (electric/diesel operated)	210 CFM, 7 Kg/Cm2	02 nos.	
16	TIG welding set	As required	As required	
17	Submerged ARC Welding M/c		Adequate nos.	
18	Oxy Acetylene Gas cutting Machine		Adequate nos.	
19	DC arc welding machine		As required.	
20	Electric operated Bolt tightening machines		As required	
21	3-phase distribution board with complete set up for drawl of construction power	As required	As required	
22	Power cable for drawl of construction power	As required	As required	
23	Radiography arrangement with radioactive isotope source	Iridium-192	4 Nos.	
24	Theodolite of required accuracy	To ensure verticality of structural columns.	As required	
25	Self-drilling cum tapping machine for screws of roof sheets	As required	As required	
26	Electro-hydraulic pipe bending machine	Up to 2" NB and 12 mm thick pipes	As required	
27	Radiography film viewer	As required	As required	
28	Hydraulic pipe bending machine (manual)	For bending of pipes up to 50 mm	As required	

TECHNICAL CONDITIONS OF CONTRACT (TCC)

CHAPTER - IV T&P and MME TO BE DEPLOYED BY CONTRACTOR

Sl no	Description Of Equipments	Capacity (Minimum)	Minimum Quantity	Remarks
		nb size		
29	Pipe chamfering machine /Tube Cutting	4-14"	As required	
30	Pipe chamfering machine /Tube Cutting	14-20"	As required	
31	Pipe cutting & beveling machines		Adequate nos.	
32	Chain pulley blocks of various & Suitable capacities		As required	As per the instructions of BHEL Engineer
33	Baking oven with thermostat and temperature gauge for welding electrodes	As required	As Required	
34	Baking & Holding oven with thermostat and temperature gauge for welding electrodes	As required	As Required	
35	Portable oven for welding electrodes	As required	As Required	
36	Electric winch	2/3/5/10/15 ton capacity	As Required	
37	Hand winch	0.5 ton capacity	As Required	
38	Scaffolding materials with clamps.	Suitable for working at various heights	As required	For Alignment, welding & Insulation works
39	Profile making M/c	For aluminium sheet cladding work	as required	
40	Nibbling M/c	For refractory and other required activities	as required	
41	Shearing M/c		as required	
42	Portable grinding M/c	As required	as required	
43	Portable drilling M/c	As required	as required	

TECHNICAL CONDITIONS OF CONTRACT (TCC)

CHAPTER - IV T&P and MME TO BE DEPLOYED BY CONTRACTOR

Sl no	Description Of Equipments	Capacity (Minimum)	Minimum Quantity	Remarks
44	Hoisting and pulley devices/pulleys	As required	As required	
45	Fire retardant tarpaulins	As required	As required	
46	Fire extinguisher	As required	as required	
47	Hydraulic Jacks	10/20/50/100 MT	as required	
48	Dewatering pumps		as required	
49	Various sizes of clamps/ fixtures for assembling		as required	
50	Magnetic particle testing equipment-Dry & Wet Type		as required	
51	Temperature recorder for 0-1000C 6/12 points with thermo couples / rods and compensating cable		45 Sets	
52	Spectrometer for metal testing		as required	
53	Alco meter for paint thickness checking		as required	
54	Hand Operated Megger 500 / 1000 V		as required	
55	Tong Tester 10, 20 Or 50 Amp + / - 3 % Accuracy		as required	
56	Digital and Analogue Multimetres		as required	
57	U Tube Manometer 0-2000 mm Water Column		as required	
58	Inclined Manometer 0-50 mm Water Column		as required	
59	Calibrated Pneumatic Torque wrench		4 nos.	
60	Low Voltage Induction Heating Machine for T23 Joints		2 Nos.	
61	Safety Net		As required	To be deployed from beginning
62	Ultrasonic Testing Arrangement		2 Nos.	As per the instructions of BHEL Engineer
63	Hardness Teasting Machine with Operators	UCI-10 or as instructed	6 Nos	As per the instructions of BHEL Engineer

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CHAPTER - IV T&P and MME TO BE DEPLOYED BY CONTRACTOR

Sl no	Description Of Equipments	Capacity (Minimum) by BHEL	Minimum Quantity	Remarks
64	PAUT Set up		3 Nos.	As per the instructions of BHEL Engineer
65	Shot blasting arrangement with consumable		As required	As per the instructions of BHEL Engineer (For fabrication)

4.1 All the T&Ps required for this scope of work, except the Tools & Plants provided by BHEL are to be arranged by the contractor with in the quoted rates.

4.2 **The age of the contractor deployed cranes mentioned above in SN No 1, 2. & 3 should be within 15 years as on date of deployment. Contractor has to provide documentary evidence/ proof for age of the crane at the time of deployment to BHEL Engineer.**

4.3 The contractor to furnish a list of Tools and plants including tractors / trailers/ trucks etc. which contractor proposed to deploy for this work.

4.4 Fill pumps shall be arranged by the contractor, wherever required.

4.5 ~~For testing LP lines necessary Hydraulic Test pumps/ Hand pumps are to be arranged by the contractor.~~

4.6 For handling at store and transportation, contractor shall make his own arrangement.

4.7 For transportation, material handling, loading& unloading of all components / equipments, the contractor has to make his own arrangements at his own cost. BHEL will not provide any crane / T&Ps for unloading the above components. All necessary T&P such as, Trailers, Cranes Winches, Welding generators, Slings, Jacks, Sleepers, Rails etc. are to be arranged by the contractor.

4.8 All the T & P, lifting tackles including wire ropes, slings, shackles and electrically operated equipment shall be got approved by BHEL Engineer before they are actually put on use. Test certificates obtained from the statutory authority should be submitted before their usage.

4.9 All the T & P arranged by contractor including electrical connections wherein required shall be reliable / proven / tested with necessary test certificate.

4.10 All instruments, measuring tools etc. are to be calibrated periodically as per the requirement of BHEL and necessary calibration certificates are to be submitted to BHEL before use.

4.11 Crane operators deployed by the contractor shall be tested by BHEL before he is allowed to operate the cranes.

4.12 Also Refer Chapter-V in connection with BHEL T & Ps V of this booklet.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

CHAPTER - IV T&P and MME TO BE DEPLOYED BY CONTRACTOR

4.13 Other Relevant clauses shall be referred in Special Conditions of Contract (SCC)

4.14 **All above T&Ps are to be deployed by contractor as and when required as per instruction of BHEL engineer. If work gets delayed due to non-availability of above T&Ps, BHEL reserves the right to procure/hire the equipment/ T&P and get the work done and charge the contractor as per current market rate/hiring rate + applicable BHEL overhead.**

Measuring and Monitoring Equipments (MMEs): As per requirement to be finalized at site, shall meet the requirements as per field quality plan and other erection, testing related activities.

Note:

1. This above list of T&Ps is only indicative and neither exhaustive nor limiting. Quantities indicated above are only the minimum required. Contractor shall deploy all necessary T&P to meet the schedules & as prescribed by BHEL engineer and required for completion of work.
2. Depending upon the nature of work and availability of facilities locally, contractor may have to arrange for a temporary workshop for facilitating uninterrupted progress of work.
3. Necessary electrical / water / air connection required for operation of any of the tools & tackles shall be to Contractor's account.
4. Contractor has to submit the Calibration certificates of all the precision Equipement to BHEL. BHEL may ask for recalibration of the MME"s /precision equipments for ensuring quality of work. Contractor must reascertain/ recheck range and accuracy of each IMTE from BHEL Engineer well in advance before arranging calibration/ deployment.
5. **Considering operational safety, the use of material handling equipment "HYDRA" is banned, agencies has to deploy the Pick & Carry cranes (Farana) of required capacity.**
6. Any T&P"s, Cranes, Slings, D-shackles, Winch Machines and other lifting tackles, Trailers required for shifting of material from store to site shall be arranged by contractor over and above T&P"s/ crane provided by BHEL
7. Any or part or all of the T&Ps of the contractor identified for the tendered package shall not be engaged for any works other than that of the works intended in this tender.
8. If the work related to T & Ps mentioned above is completed then, BHEL can release that T & P during contract period / extended period if any. However, written permission shall be taken by contractor from BHEL construction Manager for releasing the T&P.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-V: T&Ps and MMEs to be Provided by BHEL

No T&P will be provided by BHEL

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VI: Time Schedule

6.1 TIME SCHEDULE & MOBILIZATION

6.1.1 INITIAL MOBILIZATION:

After receipt of fax LOI, Contractor shall discuss with Project Manager / Construction Manager/BHEL Site In charge regarding mobilization. A Full-fledged team with T&P shall be mobilized **within 7 days on receipt of LOI or BHEL intimation.**

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

The activities shall be started as per directions of Site in charge of BHEL. Contractor shall mobilize further resources (in addition to those required for activities under clause no. 6.1.1) as per requirement to commence the work and progressively augment the resources to match schedule of the project.

WORK COMPLETION TIME SCHEDULE IS THE ESSENCE OF THIS CONTRACT. Time Period for completion of Work is divided in 2 parts:

1. Sub-contractor shall mobilize resources to complete pre-shutdown activities within 15 days prior to pre-shutdown period.
2. Sub-contractor shall complete all works within 30 days (Shutdown period of 25 days with a grace period of 5 days) from the date of Shutdown of Unit.

Contractors have to deploy resources in each area/front parallelly so as to complete the work within contractual Period.

Unit Shutdown shall be informed 15 days in advance after confirmation from NTPC. Further mobilisation intimation of manpower & resources for pre-shutdown activities shall be given 7 days in advance by BHEL.

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1	Cutting, removal and restoration of Enclosures sheets, Insulation Wool, Sheeting, Iron Components, Castable and Pourable refractory as required for the total retrofitting work as per Scope.	MT	20	0.0683417
2	Restoration of Cut portion of Enclosure Sheets and replacement of removed Insulation and refractory as required.	MT	10	0.097631
3	Cutting, removal and restoration of of Pressure parts materials for ease in modification works as per requirement of job)	MT	240	0.1546905
4	Redeuction of length of Final SH Front & Rear Coil Assy (104 Nos each) as per sl no 2.1.a of scope of work of Annexure-I. 136 nos. platen inlet and outlet term tubes to be removed close to header, 136 nos. header end plugs are to be installed/blanking to be welded at the end of header nipples as per sl no 2.1.b of scope of work of Annexure-I	Lumsum	1	0.46784796
5	Arrangement and erection & dismantling of cuplock scaffolding for trimming of Finish Super Heater coils and blanking of Platen Super Heaters for the job of as per sl no 2.1.c of scope of work of Annexure-I	Lumsum	1	0.21148884

Schedule Break Up of Activities:

Terms of Payments:

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Chapter-VII: TERMS OF PAYMENT

(A) Break up of 85% Payment: 85% of the payment shall be made after completion of the job with respect to BOQ (SCH-2 of price Schedule). Payment shall be made after completion of work for items against Sl. no. 1.0 to 9.0 The payment shall be made on a pro rata basis and payment break up shall be as follows. However, the percentage (%) of workdone are to be certified by BHEL Engineer & same is discretion of site Engineer / Manager.

SI No	Description of Work	Payment Break Up (as per SI. No. BOQ in SCH-2)				
		SI. No. 1	SI. No. 2	SI. No. 3	SI. No. 4, 5	SI. No. 6
1.	Completion of cutting existing parts/items	80%	-----	-----	35%	
2.	Completion of Restoration works of existing parts/items	---	35%	35%	10%	10%
3	Alignment & welding (Including Fins welding as applicable)	---	20%	20%	25%	5%
4	Completion of non-destructive examination & stress relieving / heat treatment (As Applicable)	---	20%	20%	10%	5%
5	Completion of Hydro test	5%	5%	5%	5%	
6	Arrangement and erection of cup lock scaffolding in first pass up to bottom of PSH for PSH modification work	---				50%
7	Dismantling cup lock scaffolding in 1st pass up to bottom of PSH/FSH for PSH/FSH modification work	---				15%
	Total	85%	85%	85%	85%	85%

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(B) Break up of Balance 15% Payment: -

Sl. No	Particulars	% allocation
1	Proper House Keeping of the area	1%
2	Compliance of General Illumination of Work Area	0.5%
3	Compliance of applicable OHSAS requirement	0.5%
4	Compliance of applicable Safety requirements	1%
5	Compliance regarding the mobilisation of required resources including manpower & T&Ps & Consumables	2%
6	Completion of initial commercial run of boiler for 72 Hrs after retrofitting.	5%
7	Liquidation of pending points	2%
8	Reconciliation of issued materials, disposal of old / dismantled/ surplus material at appropriate place (as indicated by BHEL/NTPC)	2%
9	Completion of all contractual Obligation and de-mobilization of site office.	1%
	Total	15%

SCH-02 of activities

S No	Description of Activities	UOM	Qty	Weightage
1	Cutting, removal and restoration of Enclosures sheets, Insulation Wool, Sheeting, Iron Components, Castable and Pourable refractory as required for the total retrofitting work as per Scope.	MT	20	0.0200000
2	Restoration of Cut portion of Enclosure Sheets and replacement of removed Insulation and refractory as required.	MT	10	0.0200000

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Chapter-VII: TERMS OF PAYMENT

3	Cutting, removal and restoration of Pressure parts materials for ease in modification works as per requirement of job)	MT	240	0.1600000
4	Reduction of length of Final SH Front & Rear Coil Assy (104 Nos each) as per SOW	Nos	104	0.3000000
5	136 nos. platen inlet and out let term tubes to be removed close to header, 136 nos. header end plugs are to be installed/blanking to be welded at the end of header nipples as per SOW	Nos	136	0.3000000
6	Arrangement and erection & dismanting of cuplock scaffolding for trimming of Finish Super Heater coils and blanking of Platen Super Heaters for the job of as per SOW	Lumsum	1	0.2000000

- i. Successful bidder shall submit RA bill twice a month (fortnightly) as per billing break-up of the tender. The measurement will be taken by BHEL engineer as per relevant clause of GSCC and certify regarding the actual work executed in the measurement book and bills for work.
- ii. Progressive payment shall be made by BHEL against successful bidder's RA bill, complete & correct in all respects accompanied by BHEL engineer's certified/ measurement sheet, jointly signed; requisite statutory certificates, certified by BHEL **within 30 days** of submission of the bill. The bill shall also accompany monthly progress report.
- iii. However no extra payment shall be made in the event of deferment in payment.
- iv. For all items of work as per the break-up, interim payment shall be limited to 95% of the gross value of interim bill. Balance 5 % shall be released on completion of guarantee period. However, this 5%, retained from each RA bill, may be released against submission of a separate bank guarantee as per Performance Bank Guarantee format, to be kept valid till guarantee period, subject to (i) Receipt of certificate that all works are completed in all respects; (ii) Reconciliation of materials/ T&P/ MMD; (iii) Completion of final bill formalities and (iv) Handing over to BHEL/ customer.
- v. Each RA bill shall accompany with latest agreed & jointly signed L-3/ construction schedule, as enumerated in this tender.

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Chapter-VII: TERMS OF PAYMENT

- vi. All admissible recovery/ adjustment, etc. shall be made from interim payable amount.
- vii. Further billing break up for release of progressive payment shall be made jointly at site.
- viii. Paying Authority: Construction Manager, BHEL-Telangana site.
- ix. Payment of Sl. No. 1-9 of Billing Break up for 15% shall be on the certification of Engineer In-Charge.

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Chapter-VIII TAXES & DUTIES

8.0 TAXES, DUTIES, LEVIES (Rev 14 dated 09/10/2020)

1. All taxes excluding GST, GST Cess & BOCW Cess but including, Royalties, fees, license, deposits, commission, any State or Central Levy and other charges whatsoever, if any, shall be borne by you and shall not be payable extra.
2. Any increase of the taxes excluding GST, GST Cess & BOCW Cess, 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. Please note that since GST on output will be paid by BHEL separately as enumerated below, your quoted rates/ price should be after considering the Input Credit under GST law at your end.
3. **GST** :
The successful bidder shall furnish proof of GST registration. GST along with Cess (as applicable) legally leviable & payable by the successful bidder as per GST Law, shall be paid by BHEL. Hence Bidder shall not include GST along with Cess (as applicable) in their quoted price.
4. GST charged in the Tax Invoice/Debit note by the contractor shall be released separately to the contractor only after contractor files the outward supply details in GSTR-1 on GSTN portal and input tax credit of such invoice is matched with corresponding details of outward supply of the contractor and has paid the GST at the time of filing the monthly return.
5. E-invoicing under GST has been implemented with effect from 1st October 2020 for all the taxable persons having turnover more than the threshold limit in any preceding financial year from 2017-18 onwards. Therefore, for all the taxable persons falling under the purview of E-invoice, it is mandatory to mention a valid unique Invoice Reference No. (IRN) and QR code as generated from E-Invoicing portal of the Government for the purpose of issuing a valid Tax Invoice. Only an E-invoice issued in the manner prescribed under rule 48(4) of CGST Rules shall be treated as valid invoice for reimbursement of GST amount.
If the successful Bidder is not falling under the purview of E-Invoicing, then he has to submit a declaration in that respect along with relevant financial statements.
6. Bidder shall note that the GST Tax Invoice complying with GST Invoice Rules (Section 31 of GST Act & Rules referred there under) wherein the 'Bill To' details will as below:
BHEL GSTN - As per **Annexure -1**
NAME -- Bharat Heavy Electricals Limited
ADDRESS - Site address.
7. Bidder to immediately intimate on the day of removal of Goods (in case of any supply of goods) to BHEL along with all relevant details and a scanned copy of Tax Invoice to below email ids to enable BHEL to meet its GST related compliances :-
Email id ---- to be intimated later on.
In case of delay in submission of the abovementioned documents on the date of dispatch, BHEL may incur penalty /interest for not adhering to Invoicing Rules under

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VIII TAXES & DUTIES

GST Law. The same will be liable to be recovered from the successful bidder, if such delay is not attributable to BHEL.

8. In case of raising any Supplementary Tax Invoice (Debit / Credit Note) the Bidder shall issue the same containing all the details as referred to in Section 34 read with Rule 53.
9. Bidder shall note that in case GST credit is delayed/ denied to BHEL due to delayed / non receipt of goods and /or tax invoice or expiry of the timeline prescribed in GST Law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from the vendor along with interest levied / leviable on BHEL, as the case may be.
10. The bidder shall upload the Invoices raised on BHEL in GSTR-1 within the prescribed time as given in the GST Act. Bidder shall note that in case of delay in declaring such invoice in your return and GST credit availed by BHEL is denied or reversed subsequently as per GST Law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from the bidder along with interest levied / leviable on BHEL.
11. Waybill: Successful Bidder to arrange for way bill / e-waybill for any transfer of goods for the execution of the contract.

The Bidder has to make their own arrangement at their cost for completing the formalities, if required, with Issuing Authorities, for bringing materials, plants & machinery at site for execution of the works under this contract, Road Permit/ Waybill, if required, shall be arranged by the contractor and BHEL will not supply any Road Permit/ Way Bill for this purpose.

12. **New taxes and duties:**-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.
In case any new tax/levy/duty etc. becomes applicable after the date of bidder's offer but before opening of the price bid, the bidder must convey its impact on his price duly substantiated by documentary evidence in support of the same before opening of the price bids. Claim for any such impact after opening the price bid will not be considered by BHEL for reimbursement of tax or reassessment of offer.
13. For transportation work, bidder shall declare in his quotation whether he is registered under GST, if yes, whether he intends to claim GST on forward charge basis. In absence of this declaration, BHEL will proceed further with the assumption that the bidder intends not to claim GST on forward charge basis. However, in case of GST registered transporter, the amount to the extent of goods and service tax will be retained till BHEL avails the credit of GST. Further, transporter shall issue tax invoice which inter alia includes gross weight of the consignment, name of the consigner and the consignee, registration number of vehicle in which the goods are transported, details of goods transported, details of place of origin and destination, GSTIN of the person liable for

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VIII TAXES & DUTIES

paying tax whether as consigner, consignee or goods transport agency, and also containing other information as mentioned under rule 46.

14. 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.
15. TDS under GST shall be deducted at prevailing rates on applicable value from the running bills.
16. TCS under Income Tax 1961 has been implemented with effect from 1st October 2020 for every seller having turnover more than threshold limit during financial year immediately preceding financial year in which the sale of goods is carried out, who receives any amount as consideration for sale of any goods of the value or aggregate of such value exceeding threshold limit other than export of goods or who is already covered under other provision of section 206C, collect from the buyer, TCS as per applicable rates of the sale consideration exceeding threshold limit subject to following conditions
 - i. Buyer shall be as per clause (a) of section 206C- (1H)
 - ii. Seller shall be as per clause (b) of section 206C- (1H)
 - iii. No TCS is to be collected if the seller is liable to collect TCS under other provision of section 206C or the buyer is liable to deduct TDS under any provision of the Act and has deducted such amount.

If Successful Bidder is falling under the purview of TCS then he has to submit a declaration in that respect along with relevant financial statements before the start of work or if bidder is falling under preview of TCS during the work in progress then bidder is compulsorily required to submit relevant financial statement in the beginning of the respective FY.

For TCS claim, vendor has to submit relevant documents required as per Income Tax Act.

17. Refer Annexure - 2 for BOCW Act & Cess Act.

ANNEXURE-1

State wise GSTIN no.s of BHEL

Sl. No	Projects under state	GSTIN
1	Andhra Pradesh	37AAACB4146P7Z8
2	Bihar	10AAACB4146P1ZU
3	Chhattisgarh	22AAACB4146P1ZP
4	Gujarat	24AAACB4146P1ZL
5	Jharkhand	20AAACB4146P5ZP
6	Madhya Pradesh	23AAACB4146P1ZN
7	Maharashtra	27AAACB4146P1ZF
8	Orissa	21AAACB4146P1ZR
9	Telangana	36AAACB4146P1ZG

ANNEXURE-2

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VIII TAXES & DUTIES

BOCW Act & Cess Act

Bidder may please note that the sub-contractor/bidder of BHEL engaging building or construction worker in connection with building or other construction work, are required to follow the procedures enumerated below:

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. 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.
6. 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.
7. 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.
8. It shall be the responsibility of the sub-contractor as employer to make payment/deposit of applicable cess amount on the extent of work involving building or construction workers engaged by the sub-contractor within a period of one month from the receipt of payment. It shall also 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 :

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VIII TAXES & DUTIES

- (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
9. 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.
10. 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.
11. Bidders may please note that though the quoted price is exclusive of BOCW (which will be reimbursed by BHEL as per sub-clause 9 above) , however, If at 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 deduct the applicable cess (1%) on the contract value and penalty (if any, imposed by Cess Authorities) from the payables on account of non-compliance.
12. 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

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CHAPTER-IX: ESTIMATED WEIGHT FOR VARIOUS SYSTEMS IN SCOPE OF WORK (BOQ)

BILL OF QUANTITY/WEIGHT SHCHEDULE

1. Approximately 47.6 MT weight of coil assemblies to be removed from Existing Platen front & rear SH coil assemblies.
2. Approximately 183.040 MT weight of coil assemblies to be removed from Final SH Front & Rear Coil assy.

Sl.no	Circuit	Size	Material	Qty	Unit
FSH System					
1	S-39 Trimming	44.45 x 8.13	SA213TP347H	104	Nos.
2	S-39 Trimming	44.45 x 7.62	SA213S30432	104	Nos.
3	S-39 Trimming	44.45 x 7.11	SA213S30432	1040	Nos.
4	S-39 Trimming	44.45 x 7.62	SA213TP347H	1040	Nos.
5	S-40 Trimming	44.45 x 8.1	SA213S30432	104	Nos.
6	S-40 Trimming	44.45 x 7.6	SA213S30432	1144	Nos.
7	S-40 Trimming	44.45 x 7.11	SA213S30432	1040	Nos.
PSH System					
1	S-26 Blank	33.4 x 7.11	SA182F22	68	Nos.
2	S-28 Blank	33.4 x 7.11	SA182F91	68	Nos.
3	S-32 Blank	33.4 x 4.19	SA182F91	68	Nos.
4	S-34 Blank	33.4 x 5.1	SA182F91	68	Nos.
5	Seal band welding	5 fillet	SA387GR91	150	meters

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-X Schedule of items Quantities and Factor for deriving Item Rate from the accepted Lump-sum Price

This Chapter consists of Part A of Volume II “Price bid”:

CONTENTS	
Description	Remarks
PART A: Instructions to the Bidders	Instructions

Part A: Instructions to the Bidders

1. **Bidders shall quote Total Lump-sum Price for the entire scope of work Only at the excel sheet provided in the E-Procurement Portal titled as “Part-C of Vol-II Price Bid”.** Price mentioned elsewhere in the offer of the bidder shall be treated as Null and Void.