## **E-TENDER SPECIFICATION**

Sl No	E-Tender Specification Number
1	BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681

CIVIL WORKS INCLUDING FOUNDATION WORKS AND FINISHING OF CLOSED STORAGE SHEDS (12 NO.S) & OFFICE SHEDS (3NO.S) EXCLUDING PREFAB STRUCTURE ERECTION & ELECTRICAL WORKS

at

## 2x660 MW NTPC Talcher TPS

**VOLUME - I** 

**FOR** 

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 Specifications
Volume II	Price Bid

**Bharat Heavy Electricals Limited** 



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

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-2681</u> )		
NIL	Notice Inviting Tender	(Part of <b>Vol-IA-2681</b> )		
I-A	Technical Conditions of Contract	Vol-I-A-2681		
I-B	Special Conditions of Contract	Vol-I-BCD-2681		
I-C	General Conditions of Contract	(Part of Vol-I-BCD-2681)		
I-D	Forms & Procedures	(Part of Vol-I-BCD-2681)		
IE	Technical Specifications	Vol-I-E-2681		
II	Price Bid Specification as specified in E-Procurement Portal	Volume-II-2681		

## E-TENDER SPECIFICATION

SI No	E-Tender Specification Number
1	BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681

CIVIL WORKS INCLUDING FOUNDATION WORKS AND FINISHING OF CLOSED STORAGE SHEDS (12 NO.S) & OFFICE SHEDS (3NO.S) EXCLUDING PREFAB STRUCTURE ERECTION & ELECTRICAL WORKS

At

# 2x660 MW NTPC Talcher TPS

EARNEST MONEY DEPO	SIT: Refer Notice Inviting Tender
LAST DATE FOR TENDER SUBMISSION	Refer Notice Inviting Tender
THESE TENDER SPECIF TO:	ICATION DOCUMENTS CONTAINING VOLUME-I AND VOLUME- II ARE ISSUED
M/s	
PLEASE NOTE: THESE TENDER SPECS I	DOCUMENTS ARE NOT TRANSFERABLE.
For Bharat Heavy Electr	icals Limited

GM (Purchase)

Place: Nagpur

Date:

2681

# NOTICE INVITING TENDER

**Bharat Heavy Electricals Limited** 



E-Tender Specification No: BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681

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Date: 28/11/2022

Ref: BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681

#### **NOTICE INVITING E-TENDER (NIT)**

NOTE: BIDDER MAY DOWNLOAD/ UPLOAD THE TENDER/ OFFER FROM/ON BHEL E-PROCUREMENT PORTAL → https://eprocurebhel.co.in

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) 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	E-TENDER NUMBER	BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681		
ii	Broad Scope of job	CIVIL WORKS INCLUDING FOUNDATION WORKS AND FINISHING OF CLOSED STORAGE SHEDS (12 NO.S) & OFFICE SHEDS (3NO.S) EXCLUDING PREFAB STRUCTURE ERECTION & ELECTRICAL WORKS  At  2x660 MW NTPC Talcher TPS		
iii	DETAILS OF TENDE	R 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	
В	Volume-IB	Special Conditions of Contract (SCC)	Applicable	
С	Volume-IC	General Conditions of Contract (GCC)	Applicable	
D	Volume-ID	Forms and Procedures	Applicable	
Е	Volume-IE	Technical Specifications	Applicable	
F	Volume-II	Price Bid as specified in E-Procurement Portal	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:28/11/2022, Time:18:00  Closes: 12/12/2022, Time: 13:00  Brief information of the tenders shall also be available at central public procurement portal.  (https://eprocure.gov.in/epublish/app)	Applicable	
V	DUE DATE & TIME OF OFFER SUBMISSION	Date: 12/12/2022, Time: 13.00 Hrs  Place: on E-Tender Portal <a href="https://eprocurebhel.co.in">https://eprocurebhel.co.in</a> Date: 12/12/2022, Time: 17.00 Hrs	Applicable	
vi	OPENING OF	Date: 12/12/2022, Time: 17.00 Hrs	Applicable	

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S No.	ISSUE	DESCRIPTION	
	TENDER (Techno- Commercial Bid)	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.	
vii	EMD AMOUNT	Rs. 7,00,000/- (Rupees Seven Lakh 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	Free	
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: Tapish Kumar  Designation: Manager  Deptt: Purchase  Address: Floor no. 5 & 6,Shree Mohini Complex,  345 Kingsway, Nagpur-440001  Mobile-9010903666  Email: tapishkhandelwal@bhel.in  2) Mr. Kamlesh Kumar  Designation: DGM  Deptt: Purchase  Address: Floor no. 5 & 6,Shree Mohini Complex,  345 Kingsway, Nagpur-440001  Email: kamleshbhel@bhel.in  Mob: 9425554615  3) Name: R. M. Malhotra  Designation: GM  Deptt: Purchase  Address: Floor no. 5 & 6, Shree Mohini Complex,  345 Kingsway, Nagpur-440001	Applicable
X	SCHEDULE OF Pre Bid Discussion (PBD)		Not Applicable
xi	INTEGRITY PACT & DETAILS OF INDEPENDENT EXTERNAL MONITOR (IEM)	1) Shri Otem Dai, IAS (Retd.) 2) Shri Bishwamitra Pandey, IRAS (Retd.) 3) Shri Mukesh Mittal, IRS (Retd.)	Applicable

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S No.	ISSUE	DESCRIPTION
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), Central Public Procurement portal (https://eprocure.gov.in/epublish/app) & 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 technocommercial 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,
ADDRESS OF THE COMPANT	KINGSWAY,NAGPUR
NAME OF BANK	STATE BANK OF INDIA
NAME OF BANK BRANCH AND BRANCH	SBI,NAGPUR MAIN BRANCH ,CODE-00432
CODE	SDI, NAGE OR MAIN BRANGII, CODE-00432
CITY	NAGPUR
ACCOUNT NUMBER	40227423158
ACCOUNT TYPE	MC-C C Clean (C&I)
IFSC CODE OF THE BENEFICIARY BANK	SBIN0000432
BRANCH	
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.

#### 5.0 Procedure for Submission of Tenders:

This is an E-tender floated online through our E-Procurement Site (<a href="https://eprocurebhel.co.in">https://eprocurebhel.co.in</a>). The bidder should respond by submitting their offer online only in our e-Procurement platform at (<a href="https://eprocurebhel.co.in">https://eprocurebhel.co.in</a>). 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:

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#### 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.
- iii. 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.
- iv. 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.
- v. 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 (<a href="https://eprocurebhel.co.in">https://eprocurebhel.co.in</a>)

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: <a href="mailto:support-eproc@nic.in">support-eproc@nic.in</a>

Other details/update yourself from: <a href="https://eprocurebhel.co.in">https://eprocurebhel.co.in</a>

#### E-Tender Specification No: BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681

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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 <a href="http://www.mca.gov.in/">http://www.mca.gov.in/</a> → MCA SERVICES → DSC SERVICES

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

<u>Procedure for Submission of Tenders (To be used in case of Paper bid only):</u> 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	
	ENVELOPE - I superscribed as:	
	PART-I (TECHNO COMMERCIAL BID)	
	TENDER NO:	
	NAME OF WORK:	
	PROJECT:	
	DUE DATE OF SUBMISSION:	
	CONTRAINING THE FOLLOWING	
	CONTAINING THE FOLLOWING:-	
<del>1.</del>	Covering letter/Offer forwarding letter of Tenderer.	
<del>ii.</del>	Duly filled-in 'No Deviation Certificate' as per prescribed format to be	
	<del>placed after document under sl no (i) above.</del>	
	Note:	
	a. In case of any deviation, the same should be submitted	
	separately for technical & commercial parts, indicating	
	respective clauses of tender against which deviation is taken	
	by bidder. The list of such deviation shall be placed after	
	document under sl no (i) above. It shall be specifically noted	
	that deviation recorded elsewhere shall not be entertained.	
	b. BHEL reserves the right to accept/reject the deviations	
	without assigning any reasons, and BHEL decision is final and	
	binding.	
	i). In case of acceptance of the deviations, appropriate	
	loading shall be done by BHEL	
	ii). In case of unacceptable deviations, BHEL reserves the	
	right to reject the tender	
<del>iii.      </del>	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	

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# BHEL PSWR Notice Inviting Tender

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	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.	
<del>V.</del>	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	
<del>vii.</del>	Notice inviting Tender (NIT)	
viii.—	Volume - I A : <u>Technical_Conditions of Contract (TCC) consisting of</u>	
	Scope of work, Technical Specification, Drawings, Procedures, Bill of	
	Quantities, Terms of payment, etc.	
ix.	Volume – I B : Special Conditions of Contract (SCC)	
<del>X.</del>	Volume – I C : General Conditions of Contract (GCC)	
xi.	<del>Volume – I D : Forms &amp; Procedures</del>	
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	
ENV	<u> ELOPE - II superscribed as:</u>	
PAR	T-I (EMD)	
TEN	<del>DER NO :</del>	
NAM	4E OF WORK:	
PRO	<del>JECT:</del>	
DUE	EDATE OF SUBMISSION:	
CON	ITAINING THE FOLLOWING:-	
Earr	nest Money Deposit (EMD) in the form as indicated in this Tender	

	<del>PART-II</del>	
	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	
<del>ii</del>	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)	

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	superscribed as: TECHNO-COMMERCIAL BID, PRICE BID & EMD TENDER NO:	
	NAME OF WORK:	
	PROJECT: DUE DATE OF SUBMISSION:	
	DOLDING OF GODINGGION	
	CONTAINING THE FOLLOWING:	
i	→ Envelopes I	
	⊕ Envelopes II	

- 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 Technocommercial 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**:
  - A. Bidder's capacity for executing the job under tender shall be assessed 'LOAD' wise and 'PERFORMANCE' wise 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 3<sup>rd</sup> Month preceding the month corresponding to the 'latest date of bid submission', in the following manner -

(<u>Note:</u> For example, if latest bid submission is in Jan 2017, then the 'load' shall be calculated up to and inclusive of Oct 2016)

Total number of Packages in hand = Load (P)

Where 'P' is the sum of all unit wise identified packages (refer table-1) under execution with BHEL Regions as on the cut off month defined above, including packages yet to be commenced, excepting packages which are on Long Hold.

II. <u>PERFORMANCE</u>: 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) <u>SIMILAR</u> 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 3<sup>rd</sup> Month preceding the month corresponding to 'latest date of bid submission', in the following manner:

#### E-Tender Specification No: BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681

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(Note: For example, if 'latest date of bid submission' is in Jan 2017, then the 'performance' shall be assessed for a 6 months' period up to and inclusive of Oct 2016 (i.e. from May 2016 to Oct 2016), for all the unit wise identified packages (refer Table I))

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

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)  $P_1$ ,  $P_2$ ,  $P_3$ ,  $P_4$ ,  $P_5$ , ....  $P_N$  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.  $P_T = P_1 + P_2 + P_3 + P_4 + ... P_N$ )
- 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.  $T_T = T_1 + T_2 + T_3 + T_4 + ... T_N$ )
- c) Sum 'S<sub>1</sub> 'of 'Monthly Performance Evaluation' Scores (S<sub>1-1</sub>, S<sub>1-2</sub>, S<sub>1-3</sub>, S<sub>1-4</sub>, S<sub>1-5</sub>.... S<sub>1-T1</sub>) for similar package P<sub>1</sub>, for the 'period of assessment' 'T<sub>1</sub>' (i.e. S<sub>1</sub> = S<sub>1-1</sub>+ S<sub>1-2</sub>+ S<sub>1-3</sub>+ S<sub>1-4</sub>+ S<sub>1-5</sub>+...S<sub>1-T1</sub>). Similarly, S<sub>2</sub> for package P<sub>2</sub> for period T<sub>2</sub>, S<sub>3</sub> for package P<sub>3</sub> for period T<sub>3</sub> etc. for the tendered scope for all Regions. Now calculate cumulative sum 'S<sub>T</sub>' of 'Monthly Performance Evaluation' Scores for total similar Packages '**P**<sub>T</sub>' for all Regions (i.e. 'S<sub>T</sub>' = S<sub>1</sub>+ S<sub>2</sub>+ S<sub>3</sub>+ S<sub>4</sub>+ S<sub>5</sub>+.... S<sub>N</sub>.)
- d) **Overall Performance Rating 'R<sub>BHEL</sub>' 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

Sl. No.	Item Description	Details for all Regions				Total			
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	(x)

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Sl. No.	Item Description		De	etails f	for all	Regior	ıs		Total
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	(x)
1	Similar Packages for all Regions → (under execution/ executed during period of assessment)	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>		$P_N$	Total No. of similar packages for all Regions = $P_T$ i.e. Sum ( $\Sigma$ ) of columns (iii) to (ix)
2	Number of Months for which 'Monthly Performance Evaluation' as per relevant formats should have been done in the 'period of assessment' for corresponding Similar Packages ( as in row 1)	$T_1$	T <sub>2</sub>	T <sub>3</sub>	T <sub>4</sub>	T <sub>5</sub>		T <sub>N</sub>	Sum $(\Sigma)$ of columns (iii) to (ix)  = $T_T$
3	Monthly performance scores for the corresponding period (as in Row 2)	S <sub>1-2</sub> , S <sub>1-3</sub> , S <sub>1-4</sub> ,  S <sub>1-T1</sub>	S <sub>2-1</sub> , S <sub>2-2</sub> , S <sub>2-3</sub> , S <sub>2-4</sub> ,  S <sub>2-T2</sub>	S <sub>3-1</sub> , S <sub>3-2</sub> , S <sub>3-3</sub> , S <sub>3-4</sub> ,  S <sub>3-T3</sub>	S <sub>4-1</sub> , S <sub>4-2</sub> , S <sub>4-3</sub> , S <sub>4-4</sub> ,  S <sub>4-T4</sub>	S <sub>5-1</sub> , S <sub>5-2</sub> , S <sub>5-3</sub> , S <sub>5-4</sub> ,  S <sub>5-T5</sub>		S <sub>N-1</sub> , S <sub>N-2</sub> , S <sub>N-3</sub> , S <sub>N-4</sub> , 	
4	Sum of Monthly Performance scores of the corresponding Package for the corresponding period (as in row-3)	S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	S <sub>4</sub>	S <sub>5</sub>		$S_N$	Sum $(\Sigma)$ of columns (iii) to $(ix)$ = $S_T$

ii). Calculation of Overall 'Performance Rating' (RBHEL) in case at least 6 evaluation scores for 'similar Package/Packages' for the tendered scope ARE NOT AVAILABLE, during 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 packages, divided by the total number of Package months for which evaluation should have been done. 'RBHEL' 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, RBHEL 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 (RBHEL) at Power Sector Regions:

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Sl. no.	Overall Performance Rating	Corresponding value of
	$(R_{BHEL})$	'L'
1	=60	NA
2	> 60 and ≤ 65	0.4
3	> 65 and ≤ 70	0.35
4	> 70 and ≤ 75	0.25
5	> 75 and < 80	0.2
6	≥ 80	NA

iv). <u>Performance Systems</u>: 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. 'Assessment of Capacity of Bidder':

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

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

#### Note:

- i). In case the value of  $P_{\text{Max}}$  results in a fraction, the value of  $P_{\text{Max}}$  is to be rounded off to next whole number
- ii). For  $R_{BHEL} = 60$ ,  $P_{Max} = '1'$
- iii). For  $R_{BHEL} \ge 80$ , there will be no upper limit on  $P_{Max}$

The Bidder shall be considered 'Qualified' as per 'Assessment of Capacity of Bidder' for the subject Tender if  $P \le P_{Max}$ 

(Where P is calculated as per clause 'I' above)

In addition to above, in case contractor fails to score more than 5 (five) marks in the scaled down scores of HSEPES for "more than 2 months in a period of 6 months preceding and including the cut-off month in any single package", the contractor shall be considered disqualified for ongoing tender(s) of BHEL. Qualification of bidder for further tendering process shall be subject to qualifying this condition in addition to qualifying requirements mentioned in PQR. Bidders who did not qualify this condition shall not be considered under the provisions of clause 9 IV (iv) of NIT.

#### 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

Civil	Electrical and C&I	Mechanical
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i). Enabling works	i). Electrical	i). Boiler & Aux (All types
ii). Pile and Pile Caps	ii). C&I	including CW Piping if
iii). Civil Works including	iii). Others (Elect.	applicable)
foundations	and C&I)	ii). Power Cycle Piping/Critical
iv). Structural Steel		Piping
Fabrication &		iii). ESP
Erection		iv). LP Piping
v). Chimney		v). Steam Turbine Generator set
vi). Cooling Tower		& Aux
vii). Others (Civil)		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 LOI 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 other tender conditions including 'Assessment of Capacity of Bidders'.

- 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' and for this, procedure described in following three options shall be followed:
  - a) All the bidders having Overall Performance Rating (' $R_{BHEL}$ ')  $\geq 60$  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

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- 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'.

**Note:-** In case, the number of bidders qualified against Technical and Financial Qualification criteria itself is less than four, then all bidders (a)- having Overall Performance Rating (' $R_{BHEL}$ ')  $\geq$ 60, (b)- First timer" bidders having average of available performance scores  $\geq$ 60 upto and including the Cut Off month, (c)- "First timer" bidders for whom no performance score is available in the system upto and including the Cut Off month, 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 and Turbo Blower Packages
  - b.Up to Steam Blowing in case of Boiler/ESP/Piping Packages
  - c. Up to Synchronization in all Balance Packages
  - Note: BHEL at its discretion can extend (or reduce in exceptional cases in line with Contract conditions) the period defined against (a), (b) and (c) above, depending upon the balance scope of work to be completed.
- 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.
  - ix). 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

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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 email and/or through e-procurement portal, as per specified format, within the scheduled date for seeking clarification, from the office of the undersigned. BHEL shall not be responsible for receipt of queries after due date of seeking clarification due to postal delay or any other delays. Any clarification / query received after last date for seeking clarification may not be normally entertained by BHEL and no time extension will be given.
- 12.0 BHEL may decide holding of pre-bid discussion [PBD] with all intending bidders as per date indicated in the NIT. The bidder shall ensure participation for the same at the appointed time, date and place as may be decided by BHEL. Bidders shall plan their visit accordingly. The outcome of pre-bid discussion (PBD) shall also form part of tender.
- 13.0 In the event of any conflict between requirement of any clause of this specification/documents/drawings/data sheets etc. or requirements of different codes/standards specified, the same to be brought to the knowledge of BHEL in writing for clarification before due date of seeking clarification (whichever is applicable), otherwise, interpretation by BHEL shall prevail. Any typing error/missing pages/ other clerical errors in the tender documents, noticed must be pointed out before pre-bid meeting/submission of offer, else BHEL's interpretation shall prevail.
- 14.0 Unless specifically mentioned otherwise, bidder's quoted price shall deemed to be in compliance with tender including PBD.
- 15.0 Bidders shall submit Integrity Pact Agreement (Duly signed by authorized signatory who signs in the offer), **if applicable**, along with techno-commercial bid. This pact shall be considered as a preliminary qualification for further participation. **The names and other details of Independent External Monitor (IEM) for the subject tender is as given at point (1) above.**

#### "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.	Shri Otem Dai, IAS (Retd.)	iem1@bhel.in
2.	Shri Bishwamitra Pandey, IRAS (Retd.)	Iem2@bhel.in
3.	Shri Mukesh Mittal, IRS (Retd.)	Iem3@bhel.in

- (b) T
  - he 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:

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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:	R M Malhotra/ GM (Purchase)	Tapish Kumar/Dy Manager (Purchase)			
Dept:	Purchase Department				
Address:	Floor No. 5 & 6, Shreemohini Complex, 345 Kingsway, Nagpur-440001				
Email:	rmalhotra@bhel.in	tapishkhandelwal@bhel.in			
Phone:	0712-2858633	9010903666			

- 16.0 The Bidder has to satisfy the Pre-Qualifying Requirements stipulated for this Tender in order to be qualified. The Price Bids of only those bidders will be opened who will be qualified for the subject job on the basis of satisfying the Pre-Qualification Criteria specified in this NIT as per Annexure-I (as applicable), past performance etc. and date of opening of price bids shall be intimated to only such bidders. BHEL reserves the right not to consider offers of parties under HOLD.
- 17.0 In case BHEL decides on a `Public Opening', the date & time of opening of the sealed PRICE BID shall be intimated to the qualified bidders and in such a case, bidder may depute one 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 <u>Reverse Auction:</u> Applicable. "BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on <u>www.bhel.com</u> on "**supplier registration page**".) 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.

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- 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.
- 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, 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 one work with a 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.
- 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

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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).

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 <a href="https://www.bhel.com">www.bhel.com</a> 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 <a href="https://www.bhel.com">www.bhel.com</a>.
  - 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.

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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.

#### 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
Micro			
<del>Small</del>			

**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 vear (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 <a href="http://www.bhel.com">http://www.bhel.com</a> 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 04.06.2020 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

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- 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:
  - 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

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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.
- 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 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.

## E-Tender Specification No: BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681

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#### For BHARAT HEAVY ELECTRICALS LTD

(Addl. General Manager - Purchase)

#### **Enclosure:**

- 01. Annexure-1: Pre Qualifying Requirements. 02. Annexure-2: Check List. 03. **Annexure-3: Certificate by Chartered Accountant** Annexure-4: Reverse Auction Process Compliance Form 04. Annexure-5: Authorization of representative who will participate in the online Reverse 05. **Auction Process** Annexure-6: RA Price Confirmation and Breakup 06. 07. Annexure-7: Integrity Pact 08. Annexure-8: Undertaking as per PQR C4 of Annexure-1 i.e. PQR 09. Annexure-9: Declaration reg. Related Firms & their areas of Activities
- 010. 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)
- 011. Annexure 11: DECLARATION REGARDING COMPLIANCE TO RESTRICTIONS UNDER RULE 144 (xi) OF GFR 2017
- 012. Annexure 12: Important information

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**ANNEXURE - 1** 

# **PRE QUALIFYING CRITERIA**

JOB		CIVIL WORKS INCLUDING FOUNDATION WORKS AN STORAGE SHEDS (12 NO.S) & OFFICE SHEDS (31 STRUCTURE ERECTION & ELECTRICAL WORKS At 2x660 MW NTPC Talcher T	NO.S) EXCLUDING PREFAB	
TENDE	R NO	BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681		
SL NO	PRE QUALIFICATION CRITERIA		Bidders claim in respect of fulfilling the PQR Criteria	
			Applicability	
A	(Note: <del>/Tech</del>	ission of Integrity Pact duly signed (if applicable) To be submitted by Prime Bidder & Consortium nical Tie up partner jointly in case Consortium bidding is tted, otherwise by the sole bidder)	APPLICABLE	
В	B.1): I or 'Civ Coolin combit the last B.1.1) against B.1.2) Lakhs	hnical PQR Bidder should have Executed "Piling or Civil or Structure vil and Structural Works' or RCC Chimney or RCC ng Tower or RCC Silo or Mill Bunker or any ination of these works" for any one of the following in st seven years from latest date of bid submission:  Executed One work of value not less than ₹ 280 Lakhs at single work order.  OR  Executed Two works each of value not less than ₹ 175 against maximum two work orders.  OR  Executed Three works each of value not less than ₹ 140 against maximum three work orders.	APPLICABLE	
C.1	Bidde turnov	rs must have achieved an average annual financial ver (audited) of Rs. <b>105.00 Lakhs or more</b> over last three cial Years (FY) i.e 2019-20, 2020-21 & 2021-2022'	APPLICABLE	
C.2	NETW Net w	VORTH (only in case of Companies) orth of the Bidder based on the latest Audited Accounts as shed for 'C-1' above should be positive.	APPLICABLE	
C.3	Years	IT r must have earned profit in any one of the three Financial as applicable in the last three Financial Years as furnished 1' above.	APPLICABLE	
C-4	by NC ineligi	r must not be under Bankruptcy Code Proceedings (IBC) LT or under Liquidation / BIFR, which will render him ble for participation in this tender, and shall submit taking (Annexure-8) to this effect.	APPLICABLE	
D	Assess	Assessment of Capacity of Bidders" for this Tender shall be	APPLICABLE	

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	carried out by considering the identified packages i.e. "Civil Works including foundations"		
	Approval of Customer (if applicable)		
E	<b>Note:</b> Names of bidders (including consortium/Technical Tie up partners in case consortium bidding is permitted) who stand qualified after compliance of criteria A to D shall be forwarded to customer for their approval	NOT APPLICABLE	
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	NOT APPLICABLE	

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

#### **Explanatory Notes for PQR B.1 (Technical)**

- For the criteria (B.1), actual executed value shall be considered.
- 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-

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

$$X_0 \qquad Y_0$$

#### 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).
- $X_0$  = All India Avg. Consumer Price index for industrial workers for last month of work execution
- Y<sub>N</sub> = 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).
- $Y_0$  = Monthly Whole Sale Price Index for All Commodities for last month of work execution
- The evaluation currency for this tender shall be INR.

#### **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

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Switchgears" / "HT/LT Cabling".

- d. For C&I works: "SYNCHRONISATION" in case of power project / "WORK EXECUTION of the value as defined in PQR" in case of industry.
- 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.
- 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 POR -C (Financial):**

#### <u>C-1:</u>

- 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

<u>C-3</u>: Bidder must have earned profit in any one of the three financial years as applicable in the last three financial years as furnished for 'C-1' above.

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

<u>C-4</u>: 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 ≥50% in the subsidiary

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## BHEL PSWR Notice Inviting Tender

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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 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 "B1Technical 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

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- 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
- 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 be	etween Parent Company / Subsid	iary Company and the bidder
Го,		
***************************************		
Dear Sir,		
	dated for "	" (name of the tender).
	is Parent	
	Company as on(the bidder) a company as on(not en as below:	arlier than seven days prior to the
Name of Parent Company	Name of Subsidiary Company	Percentage of Equity Holding of Parent Company in Subsidiary Company
some is necessary and specimen	Caparine prompagation of the state of the	School sygnificants and home are manifestern in
A STATE OF THE PARTY OF THE PAR	A STATE OF STREET STREET, AND RESIDENCE OF STREET, AND	
	re of Statutory Auditor or	practicing Company
ecretary 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: Full Address: Telephone No.: E-mail address: Fax/No.:  To,  Dear Sir, We refer to the NIT No		
Full Address:  Telephone No.: E-mail address: Fax/No.:  To,  "We refer to the NIT No	From,	
Telephone No.: E-mail address: Fax/No.:  To,  Dear Sir,  We refer to the NIT No	Name:	
E-mail address: Fax/No.:  To,	Full Address:	
E-mail address: Fax/No.:  To,	Telephone No.:	
Fax/No.:  To,  Dear Sir,  We refer to the NIT No		
Dear Sir,  We refer to the NIT No		
Dear Sir,  We refer to the NIT No		
We refer to the NIT No	To,	
We refer to the NIT No		
We refer to the NIT No	minimum and articles in the late and because in a	
We refer to the NIT No	Danie Sir	
"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	Dear Sir,	
"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	We refer to the NIT No dated for "	" (name of the Tender).
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		
our Technical capability for meeting the Technical Criteria as specified in Clause	particular, Clause of the NIT/Tender, regarding submission of an U	
Security Deposit to be submitted by Bidder as per Clause	our Technical capability for meeting the Technical Criteria as specified	
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	Security Deposit to be submitted by Bidder as per Clause	f the NIT/Tender for fulfillment of
All the terms used herein but not defined, shall have the meaning as ascribed to the said terms under	severally responsible for successful performance of the contract.  We confirm that our company shall not participate in the above tender 'Consortium bidder' and also shall not authorize any other bidder to us	as a 'Standalone Bidder' or as a
	All the terms used herein but not defined, shall have the meaning as a	scribed to the said terms under

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

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**ANNEXURE - 2** 

## **CHECK LIST**

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

1	Name and Address of the Tenderer				
2	Details about type of the Firm/Company				
3.a	Details of Contact person for this Tender				
3.b	Fax No:  Name: Mr/Ms Designation:  Telephone No: Mobile No: Email ID: Fax No:				
4	EMD DETAILS	Date : Amount: hichever applicable: ONLY FOR THIS TEI			
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 <b>QUALIFICATION CRITERIA</b> (ANNEXUR and filled with proper supporting documents the specified format	Applicable	YES / NO		
7	Audited profit and Loss Account for the	last three years	Applicable/ <del>Not</del> Applicable	YES/NO	
8	Copy of GST & PAN Card	Applicable/ <del>Not</del> Applicable	YES/NO		
9	Whether all pages of the Tender docume annexures, appendices etc. are read und	Applicable/Not Applicable	YES/NO		
10	Integrity Pact	Applicable/Not Applicable	YES/NO		
11	OFFER FORWARDING LETTER / TENDE 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		
14	Declaration confirming knowledge abou	Applicable/ <del>Not</del> Applicable	YES/NO		
15	Declaration for relation in BHEL	Applicable/ <del>Not</del> Applicable	YES/NO		

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

### **BHEL PSWR**

# **Notice Inviting Tender**

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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)

	<del>u to as comp</del>	any j ha	<del>iving its r</del>	egistered office at	d o . MCMED ^		
Memorandum					under MSMED Ac		
Memoranaum	NO	=	<del>-11)/</del>		Registration		
(Copy enclosed).					, ©	aregory: (mero	, oman, mearann
Further ver					stment of the comp	oany as per tl	ne latest audi
<del>land and l</del> S.O.1722(E)		the items er 5, 2006:			ant and machinery ry of Small Scale In		
					al cost excluding la red or as may be n		
<del>Rs</del>		<del>Lacs</del>					
<del>in plant and</del>	<del>l machinery</del>	<del>or equipm</del>	ent is Rs		ate or Udyog Aadh acs and turnover is .2020)		
<del>in plant and</del>	<del>l machinery</del>	<del>or equipm</del>	ent is Rs	<u>L</u>	ate or Udyog Aadh acs and turnover is		
<del>in plant and</del>	<del>l machinery</del>	<del>or equipm</del>	ent is Rs 5.0. 2119	L <del>(E) dated 26.06</del>	acs and turnover is .2020)		
in plant and notified in f	l machinery MSME notific estment oLacs for	or equipm cation no. S	ent is Rs S.O. 2119 (Strike	L (E) dated 26.06 off whichever is	acs and turnover is .2020)	Rsermissible	Lacs
in plant and notified in I The above inve Rs Category under M	l machinery MSME notific estment cLacs for . SMED Act 20	or equipm cation no. S of Rs 	ent is Rs S.O. 2119 (Strike M	Legaler (E) dated 26.06  • off whichever is the control of the con	acs and turnover is .2020) not applicable) nes is within p edium (Strike off v	ermissible	Lacs Limit of
in plant and notified in Protified in Protif	I machinery MSME notifice estment communicationLacs for SMED Act 20 s been grad the enterpo	or equipm cation no. S of Rs 006. uated upw rise shall 1	ent is Rs S.O. 2119 (Strike M ward fror	Let Control Let Co	acs and turnover is2020) not applicable) acs is within pedium (Strike off vertical tegory (micro/smastatus till expiry c	ermissible which is not on all/medium) of one year fr	Lacs  Lacs  Limit of  Applicable  (strike off where the close
in plant and notified in the above inverse inverse from the control of the control of the contemption of the	I machinery MSME notific estment oLacs for . SMED Act 20 s been grad the enterpo	or equipm cation no. S of Rs 006. uated upw rise shall i	ent is Rs S.O. 2119 (Strike M ward fror	Let Control Let Co	acs and turnover is .2020) not applicable) acs is within p edium (Strike off v	ermissible which is not on all/medium) of one year fr	Lacs  Limit of applicable)  (strike off when the close
in plant and notified in Protection Protecti	I machinery MSME notific estment oLacs for . SMED Act 20 s been grad the enterpo	or equipm cation no. S of Rs 006. uated upw rise shall i	ent is Rs S.O. 2119 (Strike M ward fror	Let CE) dated 26.06  off whichever is the control of the control o	acs and turnover is2020) not applicable) acs is within pedium (Strike off vertical tegory (micro/smastatus till expiry c	ermissible which is not on all/medium) of one year fr	Lacs  Limit of applicable)  (strike off when the close
in plant and notified in Properties in Prope	I machinery MSME notifice estment ofLacsfor . SMED Act 2- s been grad the enterpoin, as notifice by Ministry	or equipm cation no. S of Rs 006. uated upw rise shall ned vide S.C of MSME.	ent is Rs 5.0. 2119 (Strike	Legistrated 26.06  off whichever is the control of	acs and turnover is2020) not applicable) acs is within pedium (Strike off verified of the status till expiry 6.06.2020 publish	ermissible which is not on all/medium) of one year fred in the gaz	Lacs  Lacs  Himit of  Applicable  (strike off whee  com the close  ette notificat
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**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/TLRPT-CVL-FOUNDATION/2681} 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 <u>Annexure 6</u> 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	

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**ANNEXURE - 6** 

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

To

Seal:

- M/s. Service provider
- Postal address

CC: M/s BHEL POWER SECTOR WE	ESTERN REGION, Nagpur
Sub: Final price quoted during F	Reverse Auction <del>and price breakup</del>
Dear Sir,	
We confirm that we have quoted.	
Rs	(in value) &
	(in words)
for item(s) covered under tende FOUNDATION/2681	er enquiry No. BHE/PW/PUR/TLRPT-CVL-
forwarding, GST, E.D., C.S.T., freigh	nder above cited enquiries is inclusive of { <i>Packing &amp;</i> t and insurance charges up to {
	ed during the Reverse Auction conducted today { date of {in nos. & in words} days. as mentioned in the subject
Yours sincerely,	
For	
Name:	
Company:	
Date:	

E-Tender Specification No: BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681

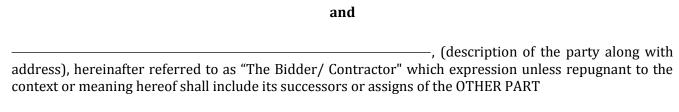
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ANNEXURE - 7

#### **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



#### **Preamble**

The Principal intends to award, under laid-down organizational procedures, contract/s for CIVIL WORKS INCLUDING FOUNDATION WORKS AND FINISHING OF CLOSED STORAGE SHEDS (12 NO.S) & OFFICE SHEDS (3NO.S) EXCLUDING PREFAB STRUCTURE ERECTION & ELECTRICAL WORKS At 2x660 MW NTPC Talcher TPS (ETS no.: BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681). 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 Independent External Monitor(s), 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 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.
- 1.1.3 The Principal will exclude from the process all known prejudiced persons.

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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. He commits himself to observe the following principles during his 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 will await their decision in the matter.

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

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 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**

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- 4.1 If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher.

#### **Section 5 - Previous Transgression**

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 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.

### Section 6 - Equal treatment of all Bidders/ Contractors / Sub-contractors

- 6.1 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors. In case of sub-contracting, the Principal contractor shall be responsible for the adoption of IP by his sub-contractors and shall continue to remain responsible for any default by his sub-contractors.
- 6.2 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

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

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 Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 8.2 The Monitor is 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 Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality in line with Non-disclosure agreement.

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- 8.4 The Principal will provide to the Monitor 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 Monitor the option to participate in such meetings.
- 8.5 The role of IEMs is advisory, would not be legally binding and it is restricted to resolving issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process, the matter should be examined by the full panel of IEMs jointly as far as possible, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to CMD, BHEL, at the earliest. They may also send their report directly to the CVO and the Commission, in case of suspicion of serious irregularities requiring legal/ administrative action. IEMs will tender their advice on the complaints within 10 days as far as possible.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.
- 8.9 IEM 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 organization should be looked into by the CVO of the concerned organisation.
- 8.10 If the Monitor has 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 Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.
- 8.12 The word 'Monitor' would include both singular and plural.

### **Section 9 - Pact Duration**

- 9.1 This Pact shall be operative from the date IP is signed by both the parties till the final completion of contract for successful bidder and for all other bidders 6 months after the contract has been awarded. Issues like warranty / guarantee etc. should be outside the purview of IEMs.
- 9.2 If any claim is made/lodged during currency of IP, 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.

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- 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.
- 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. In case, the dispute remains unresolved even after mediation by the panel of IEMs, either party may take further action as the terms & conditions of the Contract. The fees/expenses on dispute resolution through mediation shall be shared by both the parties. Further, the mediation proceedings shall be confidential in nature and the parties shall keep confidential all matters relating to the mediation proceedings including any settlement agreement arrived at between the parties as outcome of mediation. Any views expressed, suggestions, admissions or proposals etc. made by either party in the course of mediation shall not be relied upon or introduced as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the dispute that is the subject of mediation proceedings. Neither of the parties shall present IEMs as witness in any Alternative Dispute Resolution or judicial proceedings in respect of the dispute that was subject of mediation.

not such proceedings relate to the dispute th	that is the subject of mediation proceedings, whether shat is the subject of mediation proceedings. Neither in any Alternative Dispute Resolution or judic as subject of mediation.
For & On behalf of the Principal	For & On behalf of the Bidder/ Contractor
(Office Seal)	(Office Seal)
Place Nagpws Date 28/11/2022	
Date 28/11/2022	
Witness:	Witness:
(Name & Address)	(Name & Address)

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**ANNEXURE - 8** 

### **UNDERTAKING**

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

To,

GM-PURCHASE, BHEL-PSWR, Floor No. 5&6, Shri Mohini Complex 345, KINGSWAY, NAGPUR-440001

Dear Sir/Madam,

### Sub: DECLARATION REGARDING INSOLVENCY/LIQUIDATION/BANKRUPTCY PROCEEDINGS

Ref: NIT/Tender Specification No: BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681
I/We, declare that, I/W
am/are not under insolvency resolution process or liquidation or Bankruptcy Code Proceedings (IBC) a
on date, by NCLT or any adjudicating authority/authorities, which will render us ineligible fo
participation in this tender.
Sign. of the AUTHORISED SIGNATOR' (With Name, Designation and Company seal
(With Name, Designation and Company Sear
Place:
Date:

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	]	<b>DECLARATION</b>			Ammexure
				Date:	
То	GM-PURCHASE, BHEL-PSWR, Floor No. 5&6, Shri Mohini Comple 345, KINGSWAY, NAGPUR-440003				
Sub:	Details of related firms and their	area of activitie	s		
Dear S	Sir/ Madam,				
	e find below details of firms owned b			are doing busin	ess/ registered
1	Material Category/ Work Descrip	otion			
	Name of Firm				
	Address of Firm				
	Nature of Business				
	Name of Family Member				
	Relationship				
2	Material Category/ Work Descrip	tion			
	Name of Firm				
	Address of Firm				
	Nature of Business				
	Name of Family Member				
	Relationship				
	e: I certify that the above informatio of the above information furnished			nal action from	
				(	Regards, )
	S	Supplier Code:	From:	M/s	
	J		lress:		

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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 04<sup>TH</sup> 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, Floor No. 5&6, Shri Mohini Complex 345, KINGSWAY, NAGPUR-440001
Dear Sir,
<b>Sub</b> : Declaration reg. minimum local content in line with Public Procurement (Preference to Make in India), Order 2017-Revision, dated 04 <sup>th</sup> June, 2020 and subsequent order(s).
Ref: 1) NIT/Tender Specification No: BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681, 2) All other pertinent issues till date
We hereby certify that the items/works/services offered by
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 practicing 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, Floor No. 5&6, Shri Mohini Complex 345, KINGSWAY, NAGPUR-440001 Dear Sir, **Sub**: Declaration regarding compliance to Restrictions under Rule 144 (xi) of GFR 2017 Ref: 1) NIT/Tender Specification No: BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681, 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  $/ \square$ (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));  $\square$ 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 fulfil 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:

Dy Manager Purchase, Email: tapishkhandelwal@bhel.in Ph: +91-9010903666

Manager Purchase, Email: <a href="mailto:vivekjha@bhel.in">vivekjha@bhel.in</a>
DGM/Purchase, email: <a href="mailto:kamleshbhel@bhel.in">kamleshbhel@bhel.in</a>,

GM Purchase, Email: <u>rmalhotra@bhel.in</u>. 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 <a href="https://www.bhel.com/sites/default/files/suspension\_guidelines\_abridged.pdf">www.bhel.com/sites/default/files/suspension\_guidelines\_abridged.pdf</a>
- 2. All Statutory Requirements as applicable for this project shall be complied with.
- 3. 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"

- 4. 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."
- 5. "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".

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### 6. The following clause is added under clause 1.10 Security Deposit in Vol-1C:

Clause No 1.10.8 of Vol-IC General Conditions of Contract: <u>Timely Submission of Security Deposit</u> for Execution of the contract: "Bidder agrees to submit Security Deposit required for execution of the contract within the time period mentioned. In case of delay in submission of Security Deposit, enhanced Security Deposit which would include interest (Base rate of SBI +6%) for the delayed period, shall be submitted by the bidder. Further, if Security Deposit is not submitted till such time the first bill becomes due, the amount of Security Deposit due shall be recovered as per terms defined in NIT/contract, from the bills along with due interest."

### 7. 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 Hongkond 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 "<u>It is enforceable at Nagpur, Maharashtra</u>".
- c. Any private sector banks, with a clause in the text of Bank Guarantee that "<u>It is enforceable</u> by being presented at any branch of the bank".

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

#### 8. 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 <a href="www.bhel.com/guidelines-reverse-auction-2021">www.bhel.com/guidelines-reverse-auction-2021</a>) for this tender. RA shall be conducted among the techno-commercially qualified bidders.

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

- 1. No benefits to MSE bidders w.r.t Reverse Auction Guidelines as available on <u>www.bhel.com</u> against works contract.
- 2. In case of enquiry through e-procurement the sealed electronic price bid (e-bid) is to be treated as sealed envelope price bid.
- 9. -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
- 10. **Clause no. 2.24 of GCC PERFORMANCE GUARANTEE FOR WORKMANSHIP:** The guarantee period shall commence from the date of Completion of contract as certified by BHEL Engineer.
- 11. Overrun Compensation (Clause no. 2.12 of GCC) shall not be applicable
- 12. Price Variation Compensation (Clause no. 2.17 of GCC) shall not be applicable.
- 13. 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.
  - \* 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.

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# TECHNICAL CONDITIONS OF CONTRACT (TCC)

BHARAT HEAVY ELECTRICALS LIMITED



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### TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter - I: Project Information

Sl. No.	Description	Details
1	Project Title	2x660 MW Talcher Thermal Power Station
2	Customer	National Thermal Power Corporation Limited (NTPC Limited)
3	Location	The proposed site is at a distance of about 4 km from Talcher town and about 25 km from district headquarters Angul in Odisha state, India.
4	Nearest Railway Station	Talcher is on Talcher-Cuttack section of North Eastern Railway (renamed East Coast Railway) at about 2 Km. However, a small railway station named 'Talcher Thermal' is located near project boundary.
5	Nearest Airport	Bhubaneshwar (Approx. 150Km by road)
6	Access By Road/Major Cities	The area is accessible by NH-23 (renamed NH-149) at about 1 km.
7	Temperature	Mean of daily minimum temperature = 15.1°C Mean of daily maximum temperature = 39.8°C
8	Seismic Zone	The project site lies in zone III as defined in IS: 1893.
9	Wind Speed	Design wind speed is 50 m/sec as per IS: 875 Part III

#### 2.0 SCOPE OF WORK:

### The scope of work comprises of but not limited to the following

Civil works of BHEL project offices (780SQM + 2x400 SQM) and store sheds (900SQM each – 12 No.s) including foundations –earthwork, PCC, RCC with bolts, flooring- good earth filling, soling, PCC, tiling, plinth protection and drain –earthwork, PCC and RCC, WBM approach road, PCC and RCC, plumbing and sanitation including supply water tank, drainage with septic tank, soak pit and manholes, pantry platform with kitchen sink and all other accessories and fixtures but **excluding PEB shed erection**, **partitions**, **steel structure**, **roof**, **false ceiling**, **furniture and electrification** to facilitate the erection of PEB shed office and stores.

- 2.1 Civil works in excavation, PCC and RCC of foundations with bolts including supply of cement, reinforcement steel and foundation bolts as per enclosed drawing. Curing as per standards and backfilling of foundations, floor bed in layers of good earth, soling and PCC and Handover to BHEL for pre-fab office and store shed erection as per Engineer In-Charge.
- 2.2 Dismantling and removal of existing RCC and steel structures/ pipes cables etc at location of site office and store sheds and disposal as per Engineer In-Charge or deposit at stores of NTPC/BHEL shall be in bidder's scope
- 2.3 Floor tiling, plumbing, sanitation complete with supply water tanks, septic tank, soak pits, RCC hume pipes and all toilet and pantry accessories like PVC piping, kitchen sink, wash basins, urinals, water closets, taps, showers, faucets, towel roads, soap holders, dispensers, mirrors and all other accessories and fixtures after completion of shed erection by BHEL to make office and store sheds ready to use as per Engineer Incharge's instructions.
- 2.4 Approach road, storm water drain, culverts, stair/steps, monkey ladder for roof, fencing with MS gates garden piping, brick lining/border, footpaths, entrance decora complete as per Engineer in Charge.
- 2.5 Painting over pre-fab walls, false ceiling and structural steel members as per Engineer-In charge's instructions.
- 2.6 All other miscellaneous civil and architectural work required for completion of BHEL project office on ready to use basis.
- 2.7 All materials additionally supplied by the bidder shall confirm to relevant IS standards. The supporting documents shall be provided to BHEL engineer upon his instructions.
- 2.8 **EXCLUSIONS:** Steel structural frame for office superstructure, pre-fab walls, roofing, false ceiling, lighting, electrification and networking works

### 2.1 Salient Information about office / closed storage sheds:

- 2.1.1 Size of Closed Sheds 15M c/c X 60M c/c X 6.0 M (approximate) -12 Nos
- 2.1.2 Size of office Shed 780 SQM Approx. 1No., 10M c/c X 40M c/c X 4.0 M (approximate) 2 No. s
- 2.1.3 Clear Height of closed Shed (between FFL & Bottom of truss/ Structural Member) 6.0M
- 2.1.4 Clear Height of Office Sheds (between FFL & Bottom of False Ceiling) 3.0M
- 2.1.5 Columns shall be spanning 6.0M c/c long span & 5.0M c/c short span for Closed Store sheds

### 2.2 Preamble for the schedule of quantities/BOQ:

- 2.2.1 Details of the items in this Schedule shall be read in conjunction with the Corresponding Consultants/ NTPC specifications, drawings and other documents and shall have precedence over any contrary statement mentioned anywhere in this document.
- 2.2.2 The work shall be carried out as per construction drawings, specifications, the description of the items in this schedule and/or Engineer's instructions, Drawings enclosed with these documents are only indicative giving some idea of the type of work involved. The layout, sizes and details of the building, structures and foundations shown in tender drawings may vary at a large extent during actual construction. Final drawings will be issued progressively during the execution of the work.
- 2.2.3 Items of work provided in this schedule but not covered in the specifications shall be executed strictly as per instructions of the Engineer.
- 2.2.4 Unless specifically mentioned otherwise in the contract, the bidder shall quote his rates for the finished items and shall provide for the complete cost towards fuel, tools, tackle, equipment, constructional plant, temporary works, labour materials, levies, taxes, transport, layout, repairs, rectification, maintenance till handing over, supervision, shops, establishments, services, temporary roads, revenue expenses, contingencies, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the works according to the contract.
- 2.2.5 The rate quoted shall be inclusive of cleaning the site of any vegetation, dressing and levelling etc., required for commencement of site activities. The rates shall also be inclusive of final micro grading before handing over. No separate payment will be made towards the same.
- 2.2.6 The rate shall also be inclusive of carrying out topography survey of site to establish levels and coordinates at suitable intervals, form existing grid levels and coordinates furnished by the owner, establish bench marks, setting out the location and levels of the proposed structures, constructions and making references, pillars and other identification marks etc. No separate payment will be made towards the same.
- 2.2.7 The quantities of the various items mentioned in the schedule are approximate and may vary up to any extent or be deleted altogether. The overall variation in contract value on execution shall be dealt as per GCC. Contractor has to obtain prior approval of BHEL/NTPC before procurement of bought out items/ building materials.
- 2.2.8 Engineer decision shall be final and binding on the contractors regarding clarification of items in this schedule with respect to the other section of the contract.
- 2.2.9 In case of any discrepancy between item description, relevant drawing and/or specification, clarification shall be sought at tender stage itself. Otherwise it shall be assumed that the bidder has quoted for the more stringent requirement.

### 2.3 Hierarchy:

In case of any conflict/deviations amongst various documents, the order of precedence shall be as follows:

(1) Statutory Regulations

- (2) BOQ Items in Schedule of quantities
- (3) Technical specification (NTPC Talcher)/ Technical specifications (Section-C)
- (4) IS standards
- (5) BHEL's standard specification (Section D)

### 2.4 Construction Power (Provided by BHEL free of cost for Construction purpose only):

- 2.4.1 Construction power (three phase, 415 V/ 440 V) will be provided free of cost at one point near the site at a distance of approx. 500M. Further distribution shall be arranged by the contractor at his own cost and services. Contractor shall be responsible for fulfilment of all requirements including statutory requirements in this regard. Contractor shall deploy and install required energy meter, cables, fuses, distribution boards, switchboards, bus bars, earthing arrangements, protection devices and any other installation as specified by statutory authority/act. Contractor shall also obtain approvals of appropriate authority and pay necessary fees, levies etc towards the clearance of such installations, prior to use. Sufficient power factor compensation equipments like capacitor shall be provided by contractor for reactive loads like welding machines etc. In case of any fine/penalty on account of low power factor, same shall be shared by contractor proportionately according to power consumption.
- 2.4.2 Contractor shall make necessary arrangements for onward distribution of construction power taking due care of surrounding construction activities like movement of cranes & vehicles, civil work, fabrication/construction/assembly/ erection etc. and safety of personnel. It may become necessary to relocate some of the installations to facilitate work by other agencies or by him.
- 2.4.3 It shall be the responsibility of the Contractor to provide, maintain the complete installation on the load side of the supply with due regard to the safety requirements at site. All cabling and installations shall comply in all respects with the appropriate statutory requirements. The installation and maintenance of this shall be done by licensed and experienced electrician.
- 2.4.4 While reasonable efforts will be made to ensure continuous electric power supply, interruptions cannot be ruled out and no claim from the Contractor shall be entertained on this account such as idle labour, extension of time etc. The Contractor shall adjust his working shift accordingly and deploy additional manpower, if necessary, so as to achieve the target.
- 2.4.5 Contractor to note that till construction power is made available by BHEL (approx. within 3 months from start of work); contractor shall make his own arrangement like DG set etc. The contractor shall also take the approval/permission of statutory authorities for his DG set installation. The Contractor has to make his own arrangement for the same as required to carry out the job under the scope of work within the quoted rate. Nothing extra shall be paid on this account of DG set up and running for construction and office maintenance etc.
- 2.4.6 Contractor shall be well equipped with back-up power supply arrangement like DG set and diesel operated welding machine etc. to tackle situations arising due to failure of supplied power, so as to ensure continuity and completion of critical processes that are underway at the time of power failure or important activities planned in immediate future.

- 2.4.7 BHEL is not responsible for any loss or damage to the Contractor's equipment as a result of variations in voltage or frequency or interruptions in power supply.
- 2.4.8 Contractor is advised to maintain the calibrated energy measuring instruments and use their system as efficiently as possible to maintain the HT side input energy meter reading and LT side outgoing energy meter reading to sub-contractors as equal.
- 2.4.9 The bidder will have to Procure & install General mobile illumination system during construction right from start of his work. This system will include temporary pole lighting, portable lighting towers with DG back-up, within the quoted price. The illumination should be such that minimum illumination requirement as specified by Indian standards for general illumination is maintained.
- 2.4.10 Contractor to arrange energy meter for office.

#### General:

If any other voltage level (other than normally available) is required, the same shall be arranged by the contractor from power supply as above. Contractor will have to provide at his own cost necessary calibrated energy meters (tamper proof, suitably housed in a weather proof box with lock & key arrangement) at point of power supply along with calibration certificate from authorized/ accredited agency for working out the power consumption. In case of recalibration required for any reason the necessary charges including replacement by calibrated meters is to be borne by the contractor. Supply of electricity shall be governed by Indian Electricity Act and Installation Rules and other Rules and Regulation as applicable. The contractor shall ensure usage of electricity in an efficient manner and the same may be audited by BHEL time to time. In case of any major deviation from normally accepted norms is observed, BHEL will reserve the right to impose penalty as deemed fit for such cases.

Contractor to arrange calibrated energy meter (tamper proof, suitably housed in a weather proof box with lock & key arrangement) **for office** and this construction power at office is chargeable as per applicable tariff rates.

### 2.5 Construction water (Provided by BHEL free of cost):

Construction water will be provided free of cost at one point within the plant boundary. Bidder has to make arrangement of further distribution of water at his own cost. No extra payment shall be made under this account. The agency should also construct a sump of suitable size for storage of construction water as per their site requirement for use in batching plant and construction purposes.

### 2.6 Field Quality Assurance:

The contractor shall be responsible for day-to-day quality checks of concrete and other building materials during the progress of work. All quality records and log sheets shall be maintained as per the requirement of BHEL/BHEL'S customer and as per field quality plan approved by BHEL/BHEL'S customer. Vendor may establish quality lab or may tie-up with other agencies for day to day quality checks with-out any additional cost to BHEL.

### 2.7 Handling of Materials issued by BHEL free of cost:

- 2.7.1 Materials shall be issued by BHEL based on the weighment basis/linear measurements & sectional weight. However, on specific request of the contractor "as a special case to expedite the job" the consignment received at BHEL stores can directly be diverted to the work site following issuance procedure of BHEL. Such direct issues shall be as per the Challan/dispatch document/LR received with the consignment. In such cases, Contractor shall do unloading of materials from trucks/lorry at their own cost.
- 2.7.2 All materials issued by BHEL shall be stacked, stored above ground level by use of concrete or wooden sleepers. No materials shall remain on ground at any time. All concrete or wooden sleepers required for stacking the materials shall be arranged by contractor (successful bidder of this package) at his own cost within the quoted rates. All other equipments like winches, D-Shackles, slings of various sizes, max puller, pulley blocks, jacks, trucks, trailors etc. Required for such handling of steel from BHEL stores/storage yard etc. Shall be arranged by contractor within quoted/accepted rates.
- 2.7.3 The contractor shall take delivery of the materials from the designated place within the project premises at his own cost and store the same at his stores as per standard norms. Open land for such purposes shall be provided by BHEL on free of cost basis. Temporary barbed wire fencing of the open storage vard is to be done by the contractor and is included under the scope of his work. Contractor shall also remove grass, bushes, trees etc. wherever required off the land provided to him and shall make proper continuous up keeping of the open yard /land by removing grass, bushes trees etc. and same is included under the scope of his work & No extra payment shall be made to the contractor in this regard. The bidder shall make complete arrangement of necessary security personnel to safeguard all such materials in his custody. Materials issued will be used only for construction of permanent works. The contractor shall take care of material issued by BHEL and shall protect the same from theft, damage and weathering. Excessive rusting of steel in custody of agency/contractor must be avoided. In case, due to any cause attributable to the contractor, such rusting of steel occurs rendering the same unusable, then such quantity of steel shall be recovered from the interim payment at the penal rate specified in the tender.

### 2.8 Cement (Issued by BHEL free of Cost):

- 1. Cement as received from the manufacturer/ stockiest will be issued free of cost to the contractor. Cement shall be issued normally through bulkers and emptied in cement silos of batching plant. Necessary assistance shall be provided by contractor. On contractor's request, in specific cases cement in bags shall be provided in bags. Unloading of cement shall be in contractor's scope.
- 2. Contractor to note that batching plant of capacity 30 Cum per Hour being established at site shall have minimum three cement silos of 100 MT capacities each respectively. The number of silos shall be increased based on the site requirement.
- 3. On advance request of the contractor, the cement shall be supplied in 50kg tamper proof sealed Bags for other than RCC works like masonry, flooring works etc.

- 4. The contractor shall submit to the engineer, a statement indicating estimated quantity of cement required during a quarter, at least two months in advance of the quarter. In addition, the contractor shall also furnish the estimated requirement of cement during a month by the third week of the previous month indicating his requirement.
- 5. The theoretical weight of each bag of cement for issued purposes will be considered as 50kg, the contractor shall be accountable for the cement issued to the contractor on this notional weight only. No claim whatsoever will be entertained because of difference between theoretical and actual weight of the bags of cement.
- 6. The empty cement bags duly accounted for against issue shall be the contractor's property and the same shall be disposed as per statutory regulation prevailing in the project.
- 7. The contractor shall satisfy himself of the quality and quantity of supplied cement at the time of taking delivery from BHEL stores. No claims whatsoever will be entertained by BHEL because of quality or quantity after the materials are taken by the contractor from BHEL stores.
- 8. Contractor will be responsible for unloading the cement as soon as the arrival of cement in the weather proof cement storage sheds having dense impervious bituminous or concrete floors which shall be kept swept clean at all times. The storage arrangements shall be fully completed and approved by the owner before any cement is delivered to site. The construction of cement storage sheds as per the requirement of BHEL, unloading of cement bags, stacking properly in the storage sheds, removal of the sheds after the completion of the work are in the scope of bidder. Though the cement is unloaded directly at the contractor storage shed, it will be deemed to be considered that the cement was issued from BHEL stores. Necessary documents are to be submitted by the contractor to the BHEL stores for having received cement.
- 9. Contractor will be responsible for sampling and testing of cement as per Indian Standard / Specification / approved quality plan in the testing laboratory established by the contractor.
- 10. One month shall be limit for the maximum quantity of BHEL issued cement that would be with the contractor at any point of time when work is in progress (excluding what has already been incorporated in the works).
- 11. "BHEL/BHEL's agency for providing RMC" shall carry out design mix as per IS 456/10262 latest revision and specification, using the OPC and/or OPC with Fly Ash and/or PPC (as the case may be) and get the design mix proportions approved by BHEL's Customer/Consultant. The design mix proportion shall be used for concreting at this project.
- 12. Before commencement of work, Contractor has to satisfy/ensure the above design mix proportion through conducting trial mix. Contractor shall not be absolved from the responsibility of quality of concrete works as per relevant

specification, standard and to ensure satisfactory performance as per terms and conditions of contract. Any issue raised regarding design mix after successful completion of trial mix shall not be entertained and contractor shall not be entitled for any cost or damages.

- 2.9 Bottom Ash / Fly Ash shall be obtained from TSTPP Kaniha at nominal charge of Rs. 1 per MT and its transportation from TSTPP Kaniha to NTPC Talcher project site shall be in the scope of contractor.
  - 1. Contractor shall have to establish one additional silo of 100 MT capacities for Fly Ash and storage facility of bottom ash along with batching plant. The number of silos shall be increased based on the site requirement.
- 2.10 The following specifications of PCE-type BIS approved high performance superplasticizer shall be used for concrete works as per BOQ item.
  - 1. High performance superplasticizer PCE-based water reducing admixture of Type-G as per ASTMC-494 of approved make FOSROC/SIKA/BASF or Equivalent having minimum water reduction capability of 30%.
  - 2.—The performance compliance of the Super-plasticizer should be ensured based on the following test.
    - a) Marsh cone test for optimum dosage of admixture with specific brand of cement.
    - b) Slump retention test of concrete.
    - c) Water reduction capability test by doing trial mix.
    - d) Rheological properties of fresh concrete on trial mix.

### 2.11 Steel (Issued by BHEL free of Cost):

- 1. The structural and reinforcement steel shall be issued to the contractor on weighment basis. Embedment/Inserts, Earthing Rod/Round Bar, MS/GI Flats, etc. as applicable based on BOQ description shall also be issued to the contractor on weighment basis.
- 2. All the steel (as applicable) issued by BHEL shall be properly accounted for. The total quantity of steel required for the work will be calculated from the approved Bar Bending schedule, approved laps, chairs and lugs etc. The measurement for payment as well as for accounting shall be based on the sectional weights as indicated in the following IS/BS/EN specifications.
- 3. The steel issued to the contractor shall be mainly in standard length and sections as received from the supplier. However, the contractor shall be bound to accept the steel in length and section as available in the project stores, no claims for extra payment because of issue of non-standard length will be entertained.
- 4. The contractor shall satisfy himself of the quality and quantity of the materials at the time of taking delivery from BHEL stores. No claims whatsoever will be entertained by BHEL because of quality or quantity after the materials are taken by the contractor from BHEL stores.

- 5. The contractor shall submit to BHEL, a statement indicating estimated quantity of steel required during a quarter. In addition, the contractor shall also furnish the estimated requirement of steel during a month by the third week of the previous month indicating his requirement.
- 6. One month shall be limit for the maximum quantity of BHEL issue materials that would be with the contractor at any point of time when work is in progress (excluding what has already been incorporated in the works).
- 7. The contractor must note that steel required for the contractor's enabling job like store/ site office/batching plant/temporary woks etc. shall be arranged by the contractor at his own cost.

### 2.12 Return of Materials issued by BHEL free of cost:

- **2.12.1 Return of Cement:** Sealed cement bags remaining unused and in perfectly good condition at the time of completion or termination of the contract shall be returned promptly, (within 15 days from assessment) if BHEL/ engineer is satisfied of the physical condition of the cement. Return of such cement to the project stores / place as identified within the project area by engineer/ BHEL will not be entitled to handling and incidental charges. Surplus sealed and good conditioned cement bags will be taken back on weighment basis.
- **2.12.2** Cement that has been unloaded in silo/issued to vendor will not be taken back by BHEL. Sweep cement will not be taken back by BHEL.
- **2.12.3 Return of Steel including Scrap**: All surplus steel and all wastage materials will be taken back on weighment basis. Surplus, unused and untampered steel shall be sorted section-wise and returned separately at a place directed by BHEL/Engineer within the project area. All wastage/ scrap (including melting scrap, wastage, and unusable scrap) shall be promptly returned to the stores and a receipt obtained for material accounting purposes. Return of such material will not be entitled to any transportation and incidental charge.

### 2.13 Scrap and Serviceable Materials:

- 1. All Structural steel (Rolled Section, MS/ GI Flats and MS Rails) of length above 2 metre except MS/SS Plates shall be considered as serviceable materials provided the materials is in good and acceptable condition. Structural steel in length less than 2 metre shall be treated as scrap.
- 2. MS/SS Plates having both sides greater than 1 metre or if any side is less than 1 metre but greater than 0.5 metre and the total area is equal or greater than 2 Sqm shall be considered as serviceable.
- 3. All reinforcement steel and earthing rod/round bar measuring 3 metre and above in length shall be treated as serviceable material provided they are in good acceptable condition otherwise shall be treated as scrap.

### 2.14 Consumption and wastage of materials issued by BHEL free of cost:

#### 1. Cement Consumption:

The theoretical consumption of cement shall be based on the following:

(a) For design mix concrete as per approved design mix.

- (b) For nominal mix concrete work, as per minimum cement as specified or as approved by engineer-in-charge.
- (c) For item of works, where volume mix is permitted in writing by the BHEL, for masonry works, plaster other miscellaneous items, the cement consumption shall be governed by the "Statement of cement consumption" attached to the Delhi Schedule of Rates CPWD DSR Latest Revision unless otherwise specified in the specifications or the drawing of contract or mutually agreed by engineer-in-charge and the contractor.
- (d) Actual consumption = Issue Surplus/ unused quantity of cement returned in good condition by the contractor to store.

### 2. **Cement Wastage:**

- (a) **Allowable wastage:** One and half percent (+1.5%) of theoretical consumption of cement unless specified otherwise in the technical specification.
- (b) For cement issued by BHEL to the contractor free of cost, and which is not accounted for by the contractor to BHEL, then recovery for such material shall be affected at penal rates.

Sl. No.	Cement consumption	Basis of issue & penal recovery
1	Theoretical consumption (without considering any wastage or loss).	Free
2	Actual consumption being Limited to one and half percent (+1.5%) of aforesaid theoretical consumption towards allowable wastage.	Free
3	Actual consumption beyond one and half percent (+1.5%) of Sl. No. (1) above.	Penal rate

### 3. **Steel Consumption:**

The theoretical consumption of various sections of structure steel and/or diameter of reinforcement steel shall be based on approved construction drawing and bar bending schedule. Weight shall be calculated considering the sectional weights as per Indian standards. No extra cost shall be payable to the contractor for any deviation in weights for the different procedures adopted for issue and calculation of the theoretical consumption including rolling tolerances.

- Actual consumption = Issue Surplus.
- Surplus = un-tampered, unused, uncut QTY of steel including serviceable material returned by the contractor to BHEL store along-with relevant documents.

Wastage = Actual consumption - Theoretical consumption.

### 4. Steel Wastage:

- (a) Allowable Wastage of Reinforcement steel and Earthing Rod/Round Bar: Three percent (+3%) of the theoretical consumption shall be considered as allowable wastage. Invisible wastage (Maximum limit to 0.5%), if any, shall be considered to be included in the specified 3% allowable wastage.
- (b) Allowable Wastage of Structural Steel (Rolled Section, MS/SS Plates and MS/GI Flats): Four percent (+4%) of the theoretical consumption shall be considered as allowable wastage. Invisible wastage (Maximum limit to 0.5%), if any, shall be considered to be included in the specified 4% allowable wastage.
- (c) For steel issued by BHEL to the contractor free of cost, and which is not accounted for by the contractor to BHEL, then recovery for such material shall be affected at penal rates.

Sl. no.	Steel	Basis of issue & penal recovery
1	Theoretical consumption (without considering wastage and scrap or loss)	Free
2	Wastage limited to plus Three percent (+3%) for reinforcement steel of aforesaid theoretical consumption (1) towards allowable wastage.	Free
3	Wastage beyond Three percent (+3%) for reinforcement steel of the theoretical consumption as per Sl. No. (1) above.	Penal rate

### 2.15 Reconciliation of materials issued by BHEL free of cost:

- 1. The contractor shall submit a reconciliation statement of cement and reinforcement steel issued to the contractor with each RA Bill.
- 2. At the time of submission of bills, the contractor shall properly account for the material issued to him as specified herein to the satisfaction of BHEL certifying that the balance material is available in the contractor custody at site.
- 3. At the time of submission of bills, if it is noticed by BHEL that the wastage is high and calls recovery at the penal rate then, BHEL will proceed for recovery for the excess wastage as per penal recovery rates as specified.
- 4. The reference drawings for actual material consumption to be used for the purpose of reconciliation shall be drawings prepared by the BHEL and drawings approved by BHEL for fabrication works and such other drawings approved by BHEL. This shall also include the bar bending schedule prepared by the contractor and approved by BHEL.

#### 2.16 General Notes:

- 1. BHEL reserves the right to recover from the contractor any loss arising out of damage/ theft or any other causes or during verification/stacking or at any time under the custody of the contractor.
- 2. The contractor shall in no case be entitled for any compensation on account of any delay in supply or non-supply thereof for all or any such materials. However, in case of non-availability of any specific section(s) which delays the completion of work, such cases shall be recorded separately in monthly planning format (F14) and shall be considered for time extension of contract.
- 3. Contractor will have to make his own arrangement at his own cost for procurement of any other materials except as mentioned above, as required for the works and of such quality as acceptable to BHEL.
- 4. The contractor shall maintain proper store account for all the BHEL issued materials and shall give Three (03) copies of monthly-computerized reconciliation statement of such account showing total receipt, consumption and balance at site to the BHEL. BHEL Engineer's certification for the reconciliation of steel shall be final. The detailed reconciliation (diameter/section wise or as required) shall be done at least once in three months (03) or before submission of final bill which comes earlier.
- 5. Contractor shall also carryout in complete association with BHEL, the material management functions and execution like day-to-day update of materials, issued to contractor, accounting for surplus/scrap material returned etc. These functions shall also be carried out through computerized system utilizing suitable software. Contractor shall engage experienced software personnel to associate on dedicated basis for efficient discharge of the same in time.
- 6. The contractor shall solely be responsible for the safety & security of material after it is handed over and issued to contractor by the BHEL.
- 7. BHEL issued materials, shall not be under any circumstances whatsoever, and shall be taken out of the project site unless otherwise permitted by BHEL for outside job.
- 8. In case of non-finalization of delay analysis, BHEL at its discretion may provide provisional time extension with withholding 10% of running bills.

### 2.17 Recovery of Materials (Penal Rates):

If wastage exceeds the specified limit, the recovery of excess wastage shall be made from monthly RA Bills as per following penal rates (excluding GST):

Sl. No.	Materials	Penal rate (Rs)
1	Cement	6,500/- per MT
2	Reinforcement Steel / Earthing Rod	65,000/- per MT
3	Structural Steel (Rolled Section, MS Plates, MS/GI Flats, etc.)	75,000/- per MT

### 2.18 Procurement and Testing of Materials by Contractor:

Material required for the entire job (other than issued by BHEL as explained above) like sand, aggregates, windows, doors, ventilators, rolling shutter, sanitary fixtures, painting & finishing material, electrical fittings and wiring material and all other material required for the completion of entire scope, have to be arranged by the contractor, except those specifically indicated as BHEL scope of supply. BHEL reserves the right to reject any material not found satisfactory. Rate quoted shall be inclusive of all such contingencies and no additional payment shall be made on this account. For this purpose, sample shall be collected at site in presence of **BHEL/NTPC** representative.

### 2.19 Bidders are requested to specifically note the following:

Bidders are requested to have **pre-bid visit/ inspection of site** to make them fully acquainted with the site situation & nature of job. No claim shall be entertained at later date on account of non-familiarization of site conditions. Bidders may fix up their site visit in consultation with below mentioned contact person:

Sh P K Biswas

BHEL Site Office: 2x660 MW Talcher TPS

Email: pkbiswas@bhel.in

Ph. No: +91-8617711054, 8331015585

Sh Anand Kumar

**PSWR Nagpur** 

Email: aanand@bhel.in

Ph. No: +91-7387356299

Sl. No	Description	Scope		
31. NU	PART I	BHEL	Bidder	Remarks
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
С	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	Firefighting equipments like buckets, extinguishers etc		Yes	
g	Fencing of storage area, office, canteen etc of the bidder		Yes	
3.1.2	For living purpose of the bidder:			
a	Open space for labour colony (as per availability)		Yes	Contractor has to make his own arrangements shelter and transportation of labours as per their requirement.

al vi	Description	Scope		
Sl. No	PART I	BHEL	Bidder	Remarks
b	Labour Colony with internal roads, sanitation, complying with statutory requirements		Yes	Construction Plan shall be approved by BHEL
3.2	Electricity:			
3.2.1	Electricity for construction purposes 3 Phase 415/440 V			
а	Single point source	Yes		Free of cost at one point near the site at a distance of approx. 500 meter. Further distribution and Metering is in scope of bidder.
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
С	Duties and deposits including statutory clearances if applicable		Yes	
3.2.2	Electricity for office, stores, canteen etc. of the bidder.( Chargeable )			
a	Single point source	Yes		Single point as above for construction purpose, no separate point shall be given.
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
С	Duties and deposits including statutory clearances if applicable		Yes	
3.2.3	Electricity for living accommodation of the bidder's staff, engineers, supervisors etc. (Chargeable)			

	D 1.1			
Sl. No	Description	Scope		D 1
SI. NU	PART I	BHEL	Bidder	Remarks
a	Single point source		Yes	Single point as above for construction purpose, no separate point shall be given.
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
С	Duties and deposits including statutory clearances if applicable		Yes	
3.3	Water Supply:			
3.3.1	For construction purposes: (free)			
a	Making the water available at single point	Yes		Free of cost at one point near the plant boundary. Further distribution and Metering is in scope of bidder.
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. (Chargeable)			
a	Making the water available at single point		Yes	Single point as above for construction purpose, no separate point shall be given
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	Contractor has to make his own arrangements for distribution.

GL N	Description	Scope		
Sl. No	PART I	BHEL	Bidder	Remarks
3.3.3	Water supply for Living Purpose( Chargeable)			
а	Making the water available at single point		Yes	Single point as above for construction purpose, no separate point shall be given
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	Contractor has to make his own arrangements for distribution.
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	
С	Providing the necessary consumables like bulbs, switches, etc during the course of project work		Yes	
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	Téléphone, fax, internet, intranet, e- mail etc		Yes	
3.6	Compressed air wherever required for the work		Yes	
3.7	Demobilization of all the above facilities		Yes	

BHEL-PSWR (VOL-I-A- TECHNICAL BID SPECIFICATION)

E-Tender Specification No: BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681

Sl. No	Description	Scope		
	PART I	BHEL	Bidder	Remarks
3.8	Transportation			
а	For site personnel of the bidder		Yes	
b	For bidder's equipments and consumables (T&P, Consumables etc)		Yes	

### TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – IV: T&Ps and MMEs to be deployed by Contractor

### 4.0 Tools and Plants:

All the tools and plants required for execution of the above work are in contractor's scope.

Nos. of T&Ps to be deployed at site shall be decided w.r.t. monthly plan and review format (F-14) based on site requirement. Below given Nos are tentative for planning purposes by the bidder.

Sl. No.	Description of T&P	Quantity
	Major T&Ps for Civil Works	
1	Concrete Mixer (RM 800 & Equivalent) with weigh batching arrangement	01 Set
2	Concrete Mixer (Mini)	As per Requirement
3	Hydraulic Excavator /Poclain	As per Requirement
4	JCB	01 No.
5	Dumper	As per requirement
6	Vibrators (electrical/diesel)	As per requirement
7	Self-priming Dewatering pump of various capacity (Diesel/Electric) From 2 HP to 7.5 HP	As per requirement
8	Curing / dewatering pump – 1.5 / 2 HP	As per requirement
9	Hydraulic Excavator /Poclain with rock breaker arrangement	As per requirement
10	Pneumatic rock breaker with jack hammer	As per requirement
11	Ply Shuttering board with adequate supporting structure – (Old steel shuttering plates will not be allowed).	As per requirement
12	Farana crane (Required Capacity) *Note- Hydra is not allowed at project site	As per requirement
13	Trailer (20MT Capacity)	As per requirement
14	Tractor mounted grader/loader	As per requirement

### TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – IV: T&Ps and MMEs to be deployed by Contractor

15	Scaffolding Pipes, Clamps / Swivel Couplers (One/Two Way), Props, Jacks, Screw Heads, MS Pipes, Wooden Battens, Planks, Bullies, H Frames, Tie Rods with Nuts, Adjustable Achro Span (Considering Individual Areas)	Scaffolding Pipes with clamps- Min. 200 Nos. for execution purpose for safety related other than Scaffolding Pipes - As per requirement.
16	Reinforcement bending machine	As per requirement.
17	Reinforcement cutting machine	As per requirement.
18	Plate compactor	As per requirement.
19	Earth Compactor- 3MT Capacity	As per requirement.
20	Total Station	01 No.
21	Auto level & staff	02 Nos.
22	Plate Compactor	02 Nos.
23		
24	Water Tanker with sprinkler attachment	01 Nos.
25	All equipments for area Lightning like LED/Halogen bulbs and Portable light Towers etc.	As per requirement
26	Computer with printing/photocopy & CD writing facility	As per Requirement
27	DG Set of suitable Capacity	As per Requirement
28	Concrete cutting power tools (DD2E of HILTI/BOSCH make) or equivalent	As per Requirement

### Note:

T&Ps shown in the above mentioned list is suggestive requirement considering parallel working in CHP area. However, mobilization schedule as mutually agreed at site for major T&Ps, have to be adhered to. Numbers/time of requirement will be reviewed from time to time at site and contractor will provide required T&Ps/equipment to ensure completion of entire work within schedule/target date of completion without any additional financial implication to BHEL. Vendor will give advance intimation & certification regarding capacity etc. prior to dispatch of heavy equipment. Also on completion of the respective activity, demobilization of T&Ps in

### TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – IV: T&Ps and MMEs to be deployed by Contractor

total or in part can be done with the due approval of engineer in charge. Retaining of the T&Ps during the contract period will be mutually agreed in line with construction requirement. In the event of non-mobilization of any T&P by the successful bidder and as a result progress of work suffered, BHEL reserves the right to deduct suitable amount from the dues of the bidder, with assigning reasons thereof.

### 4.1 Measuring and Monitoring Device (MMD):

To be finalized as per site requirement.

### **4.2** Supervisors and Computer for exclusive use of BHEL:

- (a) The successful bidder(s) will have to provide **two supervisors (Diploma in Civil Engineering)** acceptable to BHEL Site with sufficient computer knowledge (knowledge of MS office) to whom works will be assigned in consultation and acceptance of BHEL for original contract period. In case, the contractor fails to provide supervisors from 3rd month from LOI date till completion of site works or as decided by BHEL, deduction of Rs. 25,000/- per supervisor per month.
- (b) The bidder will have to **provide Two (02) Nos. of PCs** (multimedia PC work station Core i5/i7, 1 GHZ or above, 320 GB HDD, 4 GB RAM, 100 MBPS LAN card of DELL/HP/ASUS or equivalent make with window 10 O/S with required accessories like mouse, keyboard, UPS and required software like MS Office 2010 Professional, AutoCAD 2011, ADOBE PDF CREATOR (version 8.0) with one laser jet printer compatible for A4 and A3 size printing (ink/ cartridge for which to be supplied as and when required, (the consumption may be assumed as 1 cartridge per month) with power backup at places, as per instruction of BHEL.
- (c) These computers/ printers along with two supervisors shall remain contractor's property/ownership for all legal/technical purposes. However, contractor will be allowed to take out the same after completion of the site works. However, the computer/printer along with technical supervisor shall remain at BHEL offices.
- (d) This facility has to be provided from 3<sup>rd</sup> month from LOI date till completion of site works or as decided by BHEL. If contractor fails to provide computer/ printer as per requirement, for a continuous period of fifteen days or more, BHEL shall have the right to purchase it at risk and cost of bidder.
- (e) In the event of the contract period getting extended beyond the stipulated time for reasons not attributable to the bidder, the bidder will be reimbursed at Rs. 50,000/- per month for two computers with printer facility including two supervisors, if the services of computer and printer are being used by BHEL.

#### NOTE:

The above list 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. In the event of non-mobilization of any T&P by the successful bidder and as a result if progress of work gets suffered, BHEL

### TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – IV: T&Ps and MMEs to be deployed by Contractor

reserves the right to deduct suitable amount from the dues of the bidder, with assigning reasons thereof.

#### Note:

- 1 Heavy equipment will be tracked with real-time position location for fleet management. Deployment vs planned reports shall be generated. Equipment Condition monitoring data like Service Meter Reading, Operation maps, Loading, fuel levels, operating information, idle time etc. shall be captured. This data shall be captured through Integrated Online Project Monitoring system. All T&P equipment deployed by contractor will be covered/monitored through this system. Minimum 5 signals per equipment should be made available to provide the input to Integrated Online Project Monitoring system. Necessary software/ hardware for aforesaid system shall be provided by BHEL.
- 2 All manpower hired/deployed by Contractor for this project shall be monitored through Integrated Online Project Monitoring system by BLE beacons & LoRa backhaul. Every personnel entering in to NTPC site premises for carry out any work shall be tracked. [Separate tagging for visitors]. Geo-fencing /BLE beacon based zoning of the erection area shall be done to track workforce deployment and safety purposes. Work force monitoring Dash board (planned vs actual deployment) shall be made available. BLE beacons & LoRa backhaul shall be provided by BHEL on chargeable basis to contractor. BHEL will provide Tags free of cost for maximum 300 workers, additional tags as required shall be provided by BHEL on chargeable basis @ Rs. 1000/- per tag. In case of damage or missing of issued worker tag, Rs. 1000/- per tag will be charged for issuing new worker tag.
- **3** Medical/First aid center/medicine purchased for emergency/Doctor purpose along with ambulance services with fuel and operator (round the clock) shall be arranged by BHEL for handling medical emergencies. Cost against these facilities shall be distributed / shared among the vendors working in Talcher Project site proportionately based on contract value.

## TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – V: T&Ps and MMEs to be Provided by BHEL

	Chapter – V: 1&PS and MMES to be Provided by BHEL
5.	LIST OF T&P TO BE PROVIDED BY BHEL FREE OF HIRE CHARGES ON SHARING BASIS: BHEL shall not provide any T&Ps for this scope of work.

### TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – VI: Time Schedule

#### 6.0 Time Schedule and Mobilization:

#### 6.1 Initial Mobilization and Time Schedule:

After issue of LOI (though Fax/courier/email) the contractor shall report to the Construction Manager/Site In-Charge of BHEL at site within two weeks and make a MOM (Minutes of meeting) for mobilization of manpower, T&Ps, date of start of work and detailed completion program.

The contractor has to subsequently augment his resources in such a manner that the entire works are completed within the contract period of 6 (Six) Months from the date of start of work in a manner required by BHEL to match with the project schedule

Date of Start of earthwork in Excavation shall be considered as START OF WORK

#### 6.2 **Schedule of Completion:**

The entire work under the scope of this contract shall be carried out in such a manner that the following listed major milestones are achieved as per completion schedule given against each activity & release for erection by other agency.

Sl. No.	Activity	Schedule of completion from start of work
1	Completion of Office shed foundations	2 <sup>nd</sup> Month
2	Completion of store shed foundations – 4 sheds –Lot 1	2 <sup>nd</sup> Month
3	Completion of store shed foundations – 4 sheds – Lot 2	3 <sup>rd</sup> Month
4	Completion of store shed foundations – 4 sheds – Lot 3	4 <sup>th</sup> Month
5	Flooring, Sanitation & Water supply works	5 <sup>th</sup> Month
7	Finishing & handing-over	6 <sup>th</sup> Month

- 6.2.1 The above schedule is only tentative. The above schedule shall be advanced, if there are requirements to advance the project schedule and the civil works in the scope of the contractor is to be advanced to meet the project requirement. No extra payment whatsoever shall be paid on this account.
- 6.2.2 In order to meet the above schedule in general, and any other intermediate targets set, to meet customer/ project schedule requirements, Contractor shall arrange & augment all necessary resources from time to time on the instructions of BHEL Engineer.
- 6.3 Provision of penalty in case of slippage of intermediate milestones:

### TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – VI: Time Schedule

In case of slippage of Two Major Intermediate Milestones, mentioned as M1 & M2 hereunder, delay Analysis shall be carried out on achievement of each of these two Intermediate Milestones in reference to F-14.

Milestones	Activity	Schedule of completion from start of work
M1	Completion of store shed foundations – 4 sheds –Lot 1	2 <sup>nd</sup> Month
M2	Flooring, Sanitation & Water supply works	5 <sup>th</sup> Month

**Note:** Refer clause no 12 of NIT "Annexure-12" regarding modalities against provision of penalty in case of slippage of Intermediate Milestones.

#### **Notes:**

- Common activities like Plant roads, drains, fencing, paving and other misc. works etc. shall be completed in Phase wise manner/ Instruction of Engineer within the Contractual time.
- Above milestone dates has to be completed in parallel.
- Bidders are requested to submit Resource deployment plan Area wise with detail program in line with above schedule in the form of Bar Chart/ MS project planer along with their offer.

### TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – VII: TERMS OF PAYMENT

#### 7.0 Terms of Payment:

7.1 **Progressive Payment/ Final Payment:** The payments for works under the scope of this contract shall be as per clause no 2.6; 2.22; 2.23 of General Conditions of Contract and Volume-IB, Chapter-X of SCC. However, Clause No. 10.5 on RA Bill Payments, in Volume-IB, Chapter-X of SCC, is revised as under:

The contractor will be eligible for payment of RA Bills after 30 days of submission of running bill complete in all respects with all documents. It is the responsibility of the contractor to make his own arrangements for making timely payments towards labour wages, statutory payments, outstanding dues etc. and other dues in the meanwhile.

All documents like HR Clearance, Quality and Safety Compliances, etc. required for processing the RA Bills should be submitted along with RA Bills.

### 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 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) 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. 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. Way Bill: 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/ Way Bill, 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 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 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)

No TCS is to be collected, if the seller is liable to collect TCS under other iii. 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**

#### **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:
  - (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.

### TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER IX –DRAWINGS

### 9.0 Following technical Specifications and Drawings shall be integral part of this tender:

SL. NO.	Document
1.	Detailed Technical NTPC Specification- C
2.	Section-D (General Specification of BHEL)
3.	Approved BOI Vendor List
4.	Office Sheds Layout (780 SQM)
5.	Office Sheds Layout (400 SQM) & Sections
6.	Store Sheds Layout & Sections

Above Drawings are for reference only. Foundation drawings shall be shared to successful bidder after award of contract.

Above documents have been uploaded as Vol IE.

### TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER X – APPENDIX

### **Tentative Manpower Requirement**

- 1. Project manager with 10 Years' experience in Industrial Foundation, Building & Power Plant Civil & Architectural Works.
- 2. Experienced Civil Engineers 02 heads
- 3. Experienced Foreman / Supervisors 03 heads
- 4. Planning & Billing Engineer 01 head
- 5. Stores, Gate Pass 01 heads
- 6. Accounts & Administration 02 heads
- 7. Quality Control Engineer/Chemist 01 head
- 8. Safety Engineer 02 head
- 9. Surveyor 1 head capable to handle total station
- 10. Operator, Licensed Electrician, Mechanic As per requirement
- 11. Experienced Carpenters & Helpers lot for similar nature of work
- 12. Experienced Bar Benders & Helpers lot for similar nature of work
- 13. Security Guards (Round The Clock) As per requirement.

Note: Above manpower requirement is tentative only. Contractor shall augment manpower to meet the project schedule/ milestones.

- 10.1 Deputation of above man-power shall be jointly decided at site in line with construction Schedule.
- 10.2 Engineer/ supervisor for other functions like store & purchase, material management, planning, finance, administration etc. are to be provided as per site requirement and not considered in above list.
- 10.3 In the event of non-deputation of engineer/ supervisor by the bidder as per above agreed schedule, BHEL shall reserve the right to deduct Rs 50,000.00 per man-month for engineer, Rs 35,000.00 per man-month for the supervisor/ safety officer/chemist and Rs. 30,000 per man-month for safety supervisor from RA bills. Further, induction of manpower regarding site supervisor & site engineer will be decided at site as per requirement without any financial implication.
- 10.4 BHEL reserves the right to reject or approve the list of personnel proposed by the contractor. The persons whose bio-data have been approved by BHEL will have to be posted at site and deviation in this regard will not be permitted unless specific & reasonable justification is made.
- 10.5 In addition to above, a well experienced qualified engineer to be designated, as 'Project Co-coordinator', shall be deployed by the contractor. Such engineer shall have adequate exposure on the job and shall remain fully involved in all planning activities,

### TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER X -APPENDIX

guidance etc. to contractor's own team during the complete execution period of contract.

10.6 The contractor should also submit the fitness/calibration certificate for T&Ps regularly and renew it as per applicable IS standards and statutory requirements. The tools & tackles shall not be removed from site without written permission of BHEL.

Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Weightage %
100	EARTH WORK			
	Earth work In excavation, backfilling and disposal including necessary men/women, materials, equipment, loading, transportation, unloading, dewatering etc as per specification, drawing and as directed by engineer- in-charge for the following.			
101	Earth work in excavation in all types of soil including ash which can be excavated by any means including setting out, levelling, dewatering (but excluding special type of dewatering viz. well point method), shoring & strutting (wherever required), dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of surplus excavated materials within a lead upto 500 m, spreading/levelling of disposed materials etc all complete for following depths below ground level.			
a	Depth from ground level but not exceeding 2 m	CUM	6,441.58	1.70122674
b	Depth exceeding 2 m but not exceeding 4 m	CUM	393.53	0.13016816
103	Earth work in excavation in soft rock (rock without any recovery of exacavated materials in the form of hard stone/boulder) including weathered rock which can be excavated by means of crow bar, pick axe, pneumatic rock breaker attachment with excavator machine etc but does not require chiselling or blasting including setting out, levelling, dewatering (wherever required), shoring & strutting (wherever required), dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of surplus excavated materials within a lead upto 1 Km, spreading / levelling of disposed materials etc all complete for following depths below ground level.			
a	Depth from ground level but not exceeding 2	CUM	1,460.00	0.57276524

Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Weightage %
	m			
b	Depth exceeding 2 m but not exceeding 4 m	CUM	115.00	0.05413808
108	Back filling upto any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 250 mm thickness using/with selected materials directly from excavation and compacted as specified including watering, ramming/compaction by manual/mechanical means, dressing etc all complete for the following.			
a	Each layer compacted so as to achieve at least 95% maximum dry density (modified Proctor) as per IS-2720 (Part-VIII)	CUM	3,086.19	0.35609676
110	Earth work in backfilling upto any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 250 mm thickness so as to achieve required compaction with approved borrowed soil (borrowed soil to be arranged by the bidder) and compacted as specified including supplying boorowed soil, royalty/seignorage fee (if any), sorting, spreading, breaking clods, watering, ramming/compaction by manual/mechanical means, dressing, finishing to required lines, grades and slopes, tesing, all lead and lifts etc all complete as per specification, drawing and as directed by the engineer for the following:	CUM	7,091.12	15.01852438
200	CONCRETE WORKS			
	Providing and placing concrete work including cost of labour, materials and equipment for handling, transportation, batching, mixing, placing, vibrating and curing, (excluding cost of centering, shuttering and reinforcement fxixing) with mechanised equipments like batching plant, volume batcher, transit mixer, etc. complete as per drawing, specifications and as per direction of engineer in charge for the following.			

Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Weightage %
201	Concrete of grade M7.5 (1 part cement, 4 part sand, 8 parts of 40 mm graded aggregate by volume) as mass filling course, lean concrete, levelling course, mud mat under and around foundations/floors, at any depth below finished floor level etc. (Cement will be issued free of cost by BHEL)	CUM	339.32	3.08166698
202	Concrete of grade M10 (1 part cement, 3 part sand, 6 parts of 40 mm graded aggregate by volume) as leunder floors, paving, plinth protection, pipe encasing etc complete at any depth below finished floor level etc. (Cement will be provided free of cost by BHEL)	CUM	1,892.77	17.19011849
204	Concrete for foundations, plinth beam, under floors, paving, plinth protection, pipe encasing etc complete with 20 mm nominal size graded aggregate at any depth below finished floor level for the following grades. Cement to be supplied by the bidder/contractor (Cement will be provided free of cost by BHEL)			
a	M20 Grade (1:1.5:3)	CUM	778.72	6.64307636
211	Encasing of Structural Steel Members (Cement will be issued free of cost by BHEL)			
a	M20 Grade (1:1.5:3)	CUM	47.00	0.42685344

Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Weightage %
213	Providing and laying Design Mix cement concrete as per IS:456 & IS 10262-2009 for reinforced concrete works using graded aggregate for Concrete in <b>precast works</b> like roof slabs/trench covers, fins, lintels, chajas, beams, columns, wall panels, facias etc.at all levels in all kinds of work including formwork/moulds, curing, rendering the top exposed surface with cement sand mortar (1:3), handling, storing, transpoting, all leads, erection without damage, setting in position with cement sand mortar (1:3), filling the gaps between adjacent preacast units with M30 grade concrete or cement sand mortar (1:3) and including making of holes for bolts for fixing, welding etc.complete with graded aggregate (20/12.5/10 mm) and as per specification and drawing for following grades.  Cement to be supplied by the bidder/contractor (Cement will be issued free of cost by BHEL)			
a	M 25 (1:1:2)	CUM	40.22	0.68423183
215	Dismantling concrete work for all types of structures at all levels including stacking of servicable material to a lead of 500 m and disposal of unservicable material upto a lead of 2 km, cutting of reinforcement, labour, equipment, safety precautions etc all complete as per drawings, specification and instructions of engineer in charge.			
a	Plain cement concrete of all grades	CUM	41.00	0.10964795
b	Reinforced cement concrete of all grades	CUM	175.00	0.68967469
300	300 FORM WORKS			
	Providing, fixing and removing formwork at any elevations for all structures, as per specifications and including all labour, material, scaffoldings and centereing complete including pockets etc. complete as per drawing, specifications and as per direction of engineer in charge for the following.			

Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Weightage %
301	Fairface form work with good quality water proof ply wood of minimum 12mm thickness and smooth surface <b>below finished ground floor level</b> for foundations, footings, base of columns, walls, columns, pilasters, beams, mass concrete, trenches etc.including chamfering of edges as per drawing, specification and instruction of engineer in charge.	SQM	4,462.84	7.09472546
302	Fairface form work with good quality water proof ply wood of minimum 12mm thickness and smooth surface above finished ground floor level for columns, beams, suspended floors, roofs, lintels, cantilevers, staircases, landings, balconies, etc. including chamfering of edges as per drawing.for all heights as per specification, drawing and instruction of engineer in charge.	SQM	420.00	0.80122519
400	REINFORCEMENT			
403	Transportation, straightening, cutting, bending, placing in position at all level, binding in position of steel reinforcements of TMT steel of grade Fe-500D or 500EQR confirming to IS:1786 including cost of binding wire, labour, scaffolding, transportation to & from stores etc complete all as per specifications, drawings and as directed by Engineer. (BHEL will issue TMT steel free of cost)	МТ	43.71	1.12685065
700	MS EMBEDMENTS			
	Embedments including all labour, material, equipment, transportation, handling etc. at any level as per specification, drawings and as directed by engineer - in - charge.			
702	Supply, Fabrication, transportation, delivery at site and erection, installation and alignment of mild steel foundation bolt assembly conforming to IS:2062 and grade 1 of IS:432 in concrete along with nuts, lock nuts (as per IS:1363, 1364 and IS:3138), washers, anchor plates, stiffner plates, protective tape, pipe sleeves, templates etc. including welding, cutting, grinding, threading, drilling etc. all	МТ	3.94	1.20744122

Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Weightage %
	complete.  Providing and fixing anodised aluminium work of Jindal, Hindalco or other equivalent approved make for door frames, windows, ventillators, partitions, railing etc with extruded standard tubular and other sections including all fittings & fixtures and accessories of approved make conforming to IS733 and IS1285, anodised and electro color dyed to required shade according to IS 1868 (minimum anodic coating of grade AC15), fixed with rawl plugs, expansion fasteners, SS screws or with fixing clips, including necessary filling of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt for bimetalic protection etc. including preperation of working drawings, aluminium cleat angle, aluminium snap-on-beading for glazing/panelling, stair case tread nosing, with all fittings and fixtures (like tower bolts, handles, door stopper with rubber shoes, 'L'	Kg	2,625.00	
	drops, stays, floor springs, hydraulic door closures etc.), CP brass/stailess steel screws, providing and fixing hinges/pivots, and making provision for fixing of fitting wherever required including cost of PVC/neoprene gasket, all complete as per drawing, specification and instructions of engineer in charge (Glazing and panelling shall be paid seperately). Weight of aluminium section only shall be measure.			
910	Providing and fixing of aluminium composite panel(ACP) of following thickness with PVDF or polyester coating for interior partition of approved shade ,color etc all complete as per specification.			
С	5mm	SQM	262.50	2.76363463
915	Providing, fixing and fitting of glazing of first grade class in steel/aluminium/wooden frames, where ever required, cleaning after fixing including hardware, gaskets, clips, beadings etc. all complete.			

Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Weightage %
С	5.5 mm thick clear float glass	SQM	262.50	1.15499197
1000	BRICKWORK			
	Brickwork masonry including all labour, material, equipment, transportation, handling, scaffolding etc. at all levels as per specification, drawings and as directed by engineer - in - charge. Unless specified otherwise, (cement will be supplied by BHEL free of cost as per TCC)			
1001	Providing brick work in cement mortar 1:6 (1 part cement 6 parts coarse sand) in walls, chambers etc. in thickness varying from 230mm to 460mm at all depths, places and positions below plinth including raking out joints, curing, scaffolding etc. complete excluding plastering and painting.			-
b	Using fly ash lime bricks confirming to IS 12894 with crushing strength of 50 kg/cm2(including cost of cement for brick making)	CUM		-
1002	Providing brick work in cement mortar 1:6 (1 cement 6 coarse sand) in walls, chambers etc. in thickness 230mm at all heights, places and position at all depths and heights including raking out joints, curing, scaffolding etc complete excluding plastering and painting.			
b	Using fly ash lime bricks confirming to IS 12894 with minimum crushing strength of 50 kg/cm2 (Cement will be provided free of cost by BHEL)	CUM	771.55	12.60987006
	1200 CEMENT MORTAR PLASTER			
	Cement mortar plaster including making grooves whereever required including all labour, material, scaffolding, curing etc at any level as per specification, drawings and as directed by engineer - in - charge.Unless specified otherwise, cement will be suuplied by BHEL free of cost as per TCC)			

Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Weightage %
1201	Providing 18mm thick plaster in two layers outside the building/boundary wall in cement mortar 1:6 on walls, finished to a smooth finish including providing 3mmx3mm size grooves at junctions of two dissimilar materials all complete	SQM	2,451.16	1.56496050
1202	Providing 12mm thick plaster inside the building/boundary wall in cement mortar 1:6 on walls finished to a smooth finish as per specification all complete. (Cement will be provided free of cost by BHEL)	SQM	3,854.14	1.70964508
1300	FINISHES TO CONCRETE / PLASTERED SURFACES			
1301	Two or more coats of white wash	SQM	4,265.64	0.38609282
1400	FLOORING AND SKIRTING			
	Flooring and skirting at any level including base layer, labour, material, equipments, transportation, handling, curing, polishing etc. at any level as per specification, drawings and as directed by engineer - in - charge.(Unless specified otherwise, cement will be suuplied by BHEL free of cost as per TCC)			
1402	Providing and laying 25 mm thick heavy duty cement concrete mix 1:2:4 (1 cement: 2 sand: 4 stone aggregates) flooring with metallic hardener pigmented topping of 10 mm thick uniform graded treated iron particles in skirting and dado. Under layer of 15mm thick cement concrete mix 1:2:4 (1 cement: 2 sand: 4 stone aggregates 12.5 mm well graded) and top layer of 10mm thick metallic concrete of mix 1:2 (1 cement hardner mix with approved quality metallic hardening compound: 2 stone aggregate 6mm nominal size) by volume including cement slurry, rounding off edges, aluminium strips etc. all complete as per specification. (Quoted item rate shall be inclusive of providing glass joint strips).	SQM	960.00	1.18645329

Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Weightage %
1416	Providing and laying vitrified ceramic tiles of polished variety of size 600x600 from reputed / approved manufacturer, complete including underbed of cement mortar 1:3 with neat cement slurry etc. all complete for following (Cement will be provided free of cost by BHEL)			
b	10mm thick tiles In flooring	SQM	2,193.84	6.67148324
1417	Providing and laying vitrified ceramic tiles of matt finish of size 600x600mm from reputed / approved manufacturercomplete including underbed of cement mortar 1:3 minimum 20mm thick underbed for flooring and 12mm thick underbed for dado/skirting with neat cement slurry @3.3Kg/sqm etc. all complete for following (Cement will be provided free of cost by BHEL)			
С	7mm thick tiles In skirting and dado upto specific height	SQM	54.00	0.18027566
1418	Providing and laying 10 mm thk non-skid fully vitrified tiles of make 'MARBONITE' or 'FERRASTONE of BOSS Profile limited' or equivalent in flooring and skirting over 30 mm thick underbed of 1 part cement and 3 parts coarse sand by weight mixed with sufficient water, cement slurry 3.3kg/sqm complete as per specification laid in pattern of following sizes (Cement will be provided free of cost by BHEL)			
a	400X400 mm	SQM	27.00	0.09062244
1600	FALSE CEILING: False ceiling including all labour, material (unless otherwise specified in BOQ/contract specification), equipment, transportation, handling, suspension system etc at all level as per specification, drawings and as directed by engineer - in - charge.			

Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Weightage %
1601	Providing and fixing glass fibre reinforced gypsum plaster board (GRG) ceiling (having gypsum core mixed with glass fibre) system consisting of metal supporting grid system forming panels of specified size, suspended from RCC slab/structural steel or catwalkway grid above with 4 mm (minimum) galvanised wires (rods) with special height adjustment clips, including preperation of working drawing, providing openings for AC ducts, return air grills, light fixtures etc (but excluding the cost of catwalkway grid) all complete as per drawings, specification and instructions of the engineer.			
a	12 mm thick GRG board with galvanised light gauge steel load bearing supporting GI frame and finished flat (seamless).	SQM	100.00	0.20281910
	1700 RAIN WATER DOWN TAKE PIPES			
A1705	Providing and fixing light duty PVC down take pipes of 110mm diameter- Class 3 as per IS:4985 all complete.	RM	240.00	0.41476634
A1706	Providing and fixing heavy duty PVC down take pipes of 160mm diameter- Class 3 as per IS:4985 all complete.	RM	228.00	0.57818059
2000	FENCING AND GATES			
	Fencing and gates including all labour, material, equipment etc at any level as per specification, drawings and as directed by engineer - in - charge.			

**E-Tender Specification No**: BHE/PW/PUR/TLRPT-CVL-FOUNDATION/2681

Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Weightage %
2001	Supplying and erecting in position 2.4 m high PVC coated gavanised chain linked fencing of minimum 8 gauge (including PVC coating) of mesh size 75mm x 75mm. The diameter of the hot dip galvanised steel wire for chain link fencing excluding PVC coating shall not be less than 12 gauge. GI barbed wire fencing of height of 600 mm confirming to IS 298 at top of chain link fencing shall be provided with 4 strands of barbed wire hot dip galvanised wire of 12G comprising of 2 ply of wires with barbs of 16G spaced at 100mm. Cost to include for GI hook bolts, rings & washers, hot dip galvanised tension wires, 25X6 mm GI flat stretcher bar at end posts, accessories etc. all complete. (Structural post shall be paid separately under item 2007)	RM	600.00	3.68766667
2008	Supply and fixing of mild steel posts for fencing including red oxide primesr and two coat painting all complete	МТ	4.25	1.14946444
2010	Supply, fabrication and installing in position and testing MS Gates out of channels, joists, angles, flats, plates, pipes, welded steel wire mesh & sheets including stiffners, bracings, fabricated hinges, MS Aldrops with locking arrangement, tempered steel pivot, guide track of MS Tee, bronze aluminium ball bearing arrangements, castor wheels, paintings etc. all complete.	МТ	1.50	0.45249685
2100	WATER SUPPLY			
	Water supply work including men, material, equipment etc. at any level as per specification, drawings and as directed by engineer - in - charge.			
2101	Providing and fixing in position tested heavy duty type chromium plated (CP) brass long neck bib cocks including sockets, union, nuts etc all complete - 15mm nominal bore.	EACH	50.00	0.10128134
2102	Providing and fixing in position heavy duty brass stop cock of approved quality including all specials etc all complete - 15mm nominal bore.	EACH	49.00	0.06118675

Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Weightage %
2103	Providing and fixing in position heavy duty brass full way valve with wheel of approved quality including all specials etc all complete for following sizes:			
a	25mm nominal bore.	EACH	19.00	0.03059465
b	50mm nominal bore.	EACH	12.00	0.04049202
2106	Providing and fixing 610mmx453mmx6mm thk mirror from reputed mirror manufacturer. Mirror shall be mounted with glass adjustable revolving CP brackets with CP screws etc all complete.	EACH	21.00	0.06536877
2109	Providing and fixing 20mm dia chromium plated M.S. pipes wall mounted towel rod with C.P. Brackets etc all complete.	EACH	19.00	0.03970485
2110	Providing and fixing C.P. soap holder mounted with C.P. screws etc all complete.	EACH	21.00	0.03634590
2111	Providing and fixing stainless steel / C.P. liquid soap dispenser. Dispenser shall be round and easily revolving with removable threaded nozzle and mounted on C.P. brackets etc all complete.	EACH	21.00	0.03435360
2112	Providing and fixing glazed vitreous wall mounted paper holder with suitable cover cum cutter fitted with CP screws etc. sll complete.	EACH	21.00	0.02476905
2114	Providing & fixing in position P.V.C. water tank of Syntex or approved equivalent including making all necessary inlet & outlet pipes, fixture, ball cocks, valves etc all complete for following capacities. GI pipes shall be paid separately under ST No. 2105.			
a	500 litres capacity	EACH	6.00	0.06293802
b	1000 litres capacity	EACH	3.00	0.06293802
2200	SANITARY WORKS			
	Sanitary work including all labour, material, equipment etc. at any level as per specification, drawings and as directed by engineer - in - charge.			

Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Weightage %
2201	Supply and fixing glazed vitreous china Wash Basin conforming to IS:2556 part 4 of oval shape with R.S. or C.I. brackets painted white, 15mm chromium plated brass hot & cold faucets with nylon washers, chromium plated brass chain with rubber plug, 32mm chromium plated brass bottle trap and waste of standard pattern, 32mm dia chromium plated brass trap unions, plastic connection pipe with chromium plated nuts, fittings, cutting and making good the walls where required etc all complete.			
a	White	EACH	19.00	0.49238888
2203	Providing and fixing stainless steel kitchen sink of size 610x510x200mm conforming to IS: 13983 including all fittings etc. all complete.	EACH	6.00	0.15302970
2204	Providing and fixing colour glazed vitreous china European type water closet conforming to IS:2556 with siphon, open front solid plastic seat and plastic cover, low level 12.5 litre PVC flushing cistern (same colour as WC) with valveless fittings, necessary C.P connections etc all complete.			
a	Floor mounted	EACH	23.00	0.37985120
2205	Providing and fixing colour glazed vitreous indian type Orissa pattern (580x440mm) water closet conforming to IS:2556 part 3 with all fittings including foot rests, low level 12.5 litre PVC flushing cistern with valveless fittings, necessary C.P connections etc all complete.	EACH	9.00	0.14187593
2206	Providing and fixing white flat back glazed vitreous china urinals of size 440x265x355 mm with photo voltaic control flushing system as per IS:2556 (part 6, section 1) with flush pipes, lead pipes, gratings, traps and necessary C.P. fittings etc. all complete.	EACH	24.00	0.85968633
2207	Supply, laying and jointing medium density UPVC Pipes IS: 4985including bends, branches and all other necessary fittings, M.S holder bats/clamps, cutting and making good the walls and floors, jointing, testing etc all			

Item No.	DESCRIPTION OF ITEM	UNIT	Quantity	Weightage %
	complete for following.			
a	75 mm dia pipes	RM	150.00	0.13499906
b	110mm dia pipes	RM	230.00	0.27717756
С	160mm dia pipes	RM	120.00	0.22430613
d	200mm dia pipes	RM	110.00	0.25328029
2208	Providing, laying light duty non pressure NP3 class RCC pipes with collars jointed with stiff mixture of cement mortar 1:2 including testing of joints etc all complete for following.			
a	200mm dia	RM	100.00	0.20487037
b	300mm dia	RM	90.00	0.31799778
2213	Providing and fixing PVC heavy duty Gully Traps with C.P jalli all complete.			
a	100x100mm P or S Type.	EACH	51.00	0.23642912
С	150x150mm P or S Type.	EACH	75.00	0.37711276

#### **Instructions to the bidders**

- 1. Bidders shall quote Total Lump-sum Price for the entire scope of work in Rupees in VOL II PRICE BID at BHEL E-procurement Portal. Any other entry elsewhere in the offer of the bidder shall be treated as Null and Void.
- 2. This Total Lump-sum Price shall be distributed based on the BHEL fixed percentage weightages w.r.t the total Total Lump-sum Price quoted by the bidder for the subject tender.
- 3. BHEL has pre-fixed the Weightage/Factor as detailed above in this chapter for deriving the Unit Rates. By multiplying BHEL pre-fixed the Weightages / Factor and the total prices derived in sl no. 2 above; unit rate of individual items shall be derived. Unit Rate/Item Rate thus arrived shall be rounded off to two decimal places.
- 4. Based on the quantities of individual item and the item rates arrived in Sl No 3 above, the total amount for individual items shall be derived. Total amount thus derived shall be rounded off to zero decimal places.
- 5. Grand Total amount for the work shall be derived by BHEL by summing up respective total amounts.

- 6. Bidders to note that this is an item rate contract. Payment shall be made for the actual quantities of work executed at the unit rate arrived at as per Sl No.3 above.
- 7. For the convenience of bidders, BHEL has issued an excel sheet with all the requisite formulae as described above. *However the referred excel sheet shall not form part of contract document. Further, this sheet should not be uploaded at the e-Portal.*