

TENDER SPECIFICATION

NO: BHE/PW/PUR/NGNRI-CVL/1484

JOB: Civil, Structural & Architectural works for Steam Turbine with Turbo Blower and its Auxiliaries, Air Inlet Filters, Misc Equipment Foundations, Skids, Platforms, Paving etc for 3 Nos Turbo Blowers at 3.0 MTPA Integrated Steel plant of National Mineral Development Corporation (NMDC) at **Nagarnar Site, District- Bastar, Chhattisgarh**

TECHNICAL BID SPECIFICATION - VOLUME- I

TENDER SPECIFICATIONS CONSISTS OF:

- **Notice Inviting Tender**
- **Volume 1 A - Technical Conditions of Contract,**
- **Volume 1 B - Special conditions of Contract,**
- **Volume 1 C - General conditions of Contract**
- **Volume 1 D - Forms & Procedures**
- **Volume 1 E- Technical Specification & Drawings**



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

Volume No	Description	Hosted in Website bhel.com as files Titled
NIL	Tender Specification Issue Details	(Part of Vol-IA-1484)
NIL	Notice Inviting Tender	(Part of Vol-IA-1484)
I-A	Technical Conditions of Contract	Vol-IA-1484
I-B	Special Conditions of Contract	Vol-IBCD-1484
I-C	General Conditions of Contract	(Part of Vol-IBCD-1484)
I-D	Forms & Procedures	(Part of Vol-IBCD-1484)
I-E	Technical Specification & Drawings	Vol-I-E-1484
II	Price Bid Specification	Vol-II-1484

TENDER SPECIFICATION

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EARNEST MONEY DEPOSIT: Refer Notice Inviting Tender

LAST DATE FOR
TENDER SUBMISSION: Refer Notice Inviting Tender

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

M/s.

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PLEASE NOTE:
THESE TENDER SPECS DOCUMENTS ARE NOT TRANSFERABLE.

For Bharat Heavy Electricals Limited

AGM (Purchase)
Place: Nagpur
Date:

1484

NOTICE INVITING TENDER

Bharat Heavy Electricals Limited

Ref: BHE/PW/PUR/NGNRI-CVL/1484

Date: 26/06/2015

NOTICE INVITING TENDER (NIT)
NOTE: BIDDER MAY DOWNLOAD FROM WEB SITES
OR
PURCHASE TENDERS FROM THIS OFFICE ALSO

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To

Dear Sir/Madam

Sub: NOTICE INVITING TENDER

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

1.0 Salient Features of NIT

SL NO	ISSUE	DESCRIPTION	
i	TENDER NUMBER	BHE/PW/PUR/NGNRI-CVL/1484	
ii	Broad Scope of job	Civil, Structural & Architectural works for Steam Turbine with Turbo Blower and its Auxiliaries, Air Inlet Filters, Misc Equipment Foundations, Skids, Platforms, Paving etc for 3 Nos Turbo Blowers at 3.0 MTPA Integrated Steel plant of National Mineral Development Corporation (NMDC) at Nagarnar Site, District-Bastar, Chhattisgarh	
iii	DETAILS OF TENDER DOCUMENT		
a	Volume-IA	<i>Technical Conditions of Contract (TCC) consisting of Scope of work, Technical Specification, Drawings, Procedures, Bill of Quantities, Terms of payment, etc</i>	<i>Applicable</i>
b	Volume-IB	<i>Special Conditions of Contract (SCC)</i>	<i>Applicable</i>
c	Volume-IC	<i>General Conditions of Contract (GCC)</i>	<i>Applicable</i>
d	Volume-ID	<i>Forms and Procedures</i>	<i>Applicable</i>
e	Volume-II	<i>Price Schedule (Absolute value).</i>	<i>Applicable</i>

iv	Issue of Tender Documents	<p>1. Sale from BHEL PS Regional office at : Start : 26/06/2015 , Closes: 16/07/2015 , Time : 16.00 Hrs</p> <p>2. From BHEL website (www.bhel.com) Tender documents will be available for downloading from website till due date of submission</p>	Applicable
v	DUE DATE & TIME OF OFFER SUBMISSION	<p>Date : 17/07/2015, Time 15.00 Hrs Place : BHEL PS Regional office at :Nagpur</p> <p>Tenders being submitted through representative shall be submitted at dispatch section of PSWR HQ Office after making entry/registration at the reception. For any assistance on the matter kindly contact following officials:</p> <ul style="list-style-type: none"> • Pratih Gee Varghese / Sr Engineer (Purchase) • Neeraj Tiwari / Sr Engineer (Purchase) • Shivkesh Meena / Engineer (Purchase) 	Applicable
vi	OPENING OF TENDER	<p>1 hours after the latest due date and time of Offer submission</p> <p>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</p>	Applicable
vii	EMD AMOUNT	Rs 2,00,000/- (Rupees Two Lakhs Only)	Applicable
viii	COST OF TENDER	Rs 2000/-. (Rupees Two Thousand Only)	Applicable
ix	LAST DATE	Five days before the due date of	

	FOR SEEKING CLARIFICATION	<i>offer submission. Along with soft version also, addressing to undersigned & to others as per contact address given below</i>	<i>Applicable</i>
x	SCHEDULE OF Pre Bid Discussion (PBD)		<i>Not Applicable.</i>
xi	INTEGRITY PACT & DETAILS OF INDEPENDENT EXTERNAL MONITOR (IEM)		<i>Not Applicable</i>
xii	Latest updates	<u>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) and not in the newspapers. Bidders to keep themselves updated with all such information</u>	

- 2.0 The offer shall be submitted as per the instructions of tender document and as detailed in this NIT. Bidders to note specifically that all pages of tender document, including these NIT pages of this particular tender together with subsequent correspondences shall be submitted by them, duly signed & stamped on each page, as part of offer. Rates/Price including discounts/rebates, if any, mentioned anywhere/in any form in the techno-commercial offer other than the Price Bid, shall not be entertained.
- 3.0 Unless specifically stated otherwise, bidder shall remit cost of tender and courier charges if applicable, in the form of Demand Draft drawn in favour of Bharat Heavy Electricals Ltd, payable at Power Sector Regional HQ at Nagpur issuing the Tender, along with techno-commercial offer. Bidder may also choose to deposit the Tender document cost by cash at the Cash Office as stated above against sl no iv of 1, on any working day; and in such case copy of Cash receipt is to be enclosed with the Techno Commercial offer. Sale of tender Documents shall not take place on National Holidays, holidays declared by Central or State Governments and BHEL PS HQ at Nagpur, Sundays and second/ last Saturdays

4.0 Unless specifically stated otherwise, bidder shall deposit EMD through Demand Draft/Pay Order in favour of Bharat Heavy Electricals Ltd, payable at Nagpur. For other details and for 'One Time EMD' please refer General Conditions of Contract.

5.0 **Procedure for Submission of Tenders:** The Tenderers must submit their Tenders to Officer inviting Tender, as detailed below:

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

6.0 The contents for ENVELOPES and the superscription for each sealed cover/Envelope are as given below. **(All pages to be signed and stamped)**

Sl no	Description	Remarks
	Part-I A	
	ENVELOPE - I super scribed as : PART-I (TECHNO COMMERCIAL BID) TENDER NO : NAME OF WORK : PROJECT: DUE DATE OF SUBMISSION: CONTAINING THE FOLLOWING:-	
i.	Covering letter/Offer forwarding letter of Tenderer.	
ii.	Duly filled-in 'No Deviation Certificate' as per prescribed format to be placed after document under sl no (i) above. Note: <ol style="list-style-type: none"> a. In case of any deviation, the same should be submitted separately for technical & commercial parts, indicating respective clauses of tender against which deviation is taken by bidder. The list of such deviation shall be placed after document under sl no (i) above. It shall be specifically noted that deviation recorded elsewhere shall not be entertained. b. BHEL reserves the right to accept/reject the deviations without assigning any reasons, and BHEL decision is final and binding. <ol style="list-style-type: none"> i). In case of acceptance of the deviations, 	

	<p>appropriate loading shall be done by BHEL</p> <p>ii). In case of unacceptable deviations, BHEL reserves the right to reject the tender</p>	
iii.	<p>Supporting documents/ annexure/ schedules/ drawing etc as required in line with Pre-Qualification criteria.</p> <p>It shall be specifically noted that all documents as per above shall be indexed properly and credential certificates issued by clients shall distinctly bear the name of organization, contact ph no, FAX no, etc.</p>	
iv.	All Amendments/Correspondences/Corrigenda/ Clarifications/Changes/ Errata etc pertinent to this NIT.	
v.	Integrity Pact Agreement (Duly signed by the authorized signatory)	If applicable
vi.	Duly filled-in annexures, formats etc as required under this Tender Specification/NIT	
vii.	Notice inviting Tender (NIT)	
viii.	Volume – I A : <u>Technical</u> Conditions of Contract (TCC) consisting of Scope of work, Technical Specification, Drawings, Procedures, Bill of Quantities, Terms of payment, etc	
ix.	Volume – I B : Special Conditions of Contract (SCC)	
x.	Volume – I C : General Conditions of Contract (GCC)	
xi.	Volume – I D : Forms & Procedures	
xii.	Volume – II (UNPRICED – without disclosing rates/price, but mentioning only ‘QUOTED’ or ‘UNQUOTED’ against each item	
xiii.	Any other details preferred by bidder with proper indexing.	

	PART-I B	
	<p>ENVELOPE – II super scribed as:</p> <p>PART-I (EMD/COST of TENDER)</p> <p>TENDER NO :</p> <p>NAME OF WORK :</p> <p>PROJECT:</p> <p>DUE DATE OF SUBMISSION:</p> <p>CONTAINING THE FOLLOWING:-</p>	
i.	<p>1. Earnest Money Deposit (EMD) in the form as indicated in this Tender</p> <p style="text-align: center;">OR</p> <p>Documentary evidence for ‘One Time EMD’ with the Power Sector Region of BHEL floating the Tender</p> <p>2. Cost of Tender (Demand Draft or copy of Cash Receipt</p>	

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

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

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

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

8.0 BHEL reserves the right to accept or reject any or all Offers without assigning any reasons thereof. BHEL also reserves the right to cancel the Tender wholly or partly without assigning any reason thereof. Also BHEL shall not entertain any correspondence from bidders in this matter (except for the refund of EMD).

9.0 Assessment of Capacity of Bidders:
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 'Load' is the sum of the unit wise identified packages (refer Table-1) for contracts with BHEL Regions. The cut off month for reckoning 'Load' shall be the month, two (2) months preceding the month corresponding to the 'latest date of bid submission', in the following manner:

(Note: For example if latest bid submission is in Aug 2011, then the 'load' shall be calculated up to and inclusive of June 2011)

i). Total number of Packages

Total number of Packages in hand = P

Where

- 'P' is the sum of all unit wise identified packages under execution with BHEL Regions as of the cut off month defined above, including packages yet to be commenced, excepting packages which are on HOLD due to reasons not attributable to Bidder..

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

(Note: For example if 'latest date of bid submission' is in Aug 2011, then the 'performance' shall be assessed for a 6 month period up

to and inclusive of June 2011, for all the unit wise identified packages (refer Table I)

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

This shall be obtained by summing up the 'Monthly Performance Evaluation' scores obtained by the bidder in all Regions for all the similar Package/packages', divided by the total number of Package months for which evaluation should have been done, as per procedure below:

- a) $P_1, P_2, P_3, P_4, P_5, \dots, P_N$ etc be the packages (**under execution**/ executed during the 'Period of Assessment' in all Regions) **SIMILAR** to the packages covered under the tendered scope, excepting packages not commenced. Total number of similar packages for all Regions = P_T (ie $P_T = P_1 + P_2 + P_3 + P_4 + \dots + P_N$)
- b) Number of Months ' T_1 ' for which 'Monthly Performance Evaluation' as per relevant formats, should have been done in the 'Period of Assessment' for the corresponding similar package P_1 . Similarly T_2 for package P_2 , T_3 for package P_3 , etc for the tendered scope. Now calculate cumulative total months ' T_T ' for total similar Packages ' P_T ' for all Regions (i.e $T_T = T_1 + T_2 + T_3 + T_4 + \dots + T_N$)
- c) Sum ' S_1 ' of 'Monthly Performance Evaluation' Scores ($S_{1-1}, S_{1-2}, S_{1-3}, S_{1-4}, S_{1-5}, \dots, S_{1-N}$) for similar package P_1 , for the 'period of assessment' ' T_1 ' (i.e $S_1 = S_{1-1} + S_{1-2} + S_{1-3} + S_{1-4} + S_{1-5} + \dots + S_{1-N}$). Similarly S_2 for package P_2 for period T_2 , S_3 for package P_3 for period T_3 , etc for the tendered scope for all Regions. Now calculate cumulative sum ' S_T ' of 'Monthly Performance Evaluation' Scores for total similar Packages ' P_T ' for all Regions (i.e ' $S_T = S_1 + S_2 + S_3 + S_4 + S_5 + \dots + S_N$.)
- d) **Overall Performance Rating ' R_{BEHL} ' 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 package 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 o n o	Item Description	Details for all Regions							Total
		(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	
1	Similar Packages for all Regions → (under execution/ executed during period of assessment)	P ₁	P ₂	P ₃	P ₄	P ₅	...	P _N	Total No of similar packages for all Regions = P_T ie Sum (Σ) 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 Package (as in row 1)	T ₁	T ₂	T ₃	T ₄	T ₅	...	T _N	Sum (Σ) of columns (iii) to (ix) = T_T
3	Monthly performance scores for the corresponding period (as in Row 2)	S ₁₋₁ , S ₁₋₂ , S ₁₋₃ , S ₁₋₄	S ₂₋₁ , S ₂₋₂ , S ₂₋₃ , S ₂₋₄ , ... S _{2-T2}	S ₃₋₁ , S ₃₋₂ , S ₃₋₃ , ... S ₃₋₄	S ₄₋₁ , S ₄₋₂ , S ₄₋₃ , ... S ₄₋₄	S ₅₋₁ , S ₅₋₂ , S ₅₋₃ , ... S ₅₋₄	S _{N-1} , S _{N-2} , S _{N-3} , S _{N-4} , ... S _{N-TN}	-----

		4, ... S _{1-T1}		... S _{3-T3}	... S _{4-T4}	... S _{5-T5}			
4	Sum of Monthly Performance scores of the corresponding Package for the corresponding period (as in row-3)	S ₁	S ₂	S ₃	S ₄	S ₅	...	S _N	Sum (Σ) of columns (iii) to (ix) = S_T

- ii) Calculation of Overall ‘Performance Rating’ (**R_{BHEL}**) in case ‘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. ‘R_{BHEL}’ shall be calculated subject to availability of ‘performance scores’ for at least.6 ‘package months’ in the order of precedence below:

- a) ‘Period of Assessment.
- b) 12 months preceding the cut-off month
- c) 24 months preceding the cut-off month
- d) 36 months preceding the cut-off month

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

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

Sl no	Overall Performance Rating (R _{BHEL})	Corresponding value of ‘L’
1	=60	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

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 $P_{Max} = (R_{BHEL} - 60)$ divided by corresponding value of ‘L’

i.e. $(R_{BHEL} - 60)/L$

Note:

- i. In case the value of P_{Max} results in a fraction, the value of P_{Max} is to be rounded off to next whole number
- ii. For $R_{BHEL} = 60$, $P_{Max} = '1'$
- iii. For $R_{BHEL} \geq 80$, 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 $P \leq P_{Max}$
(Where P is calculated as per clause 9.I)

IV. **Explanatory note:**

- a) Similar package means Boiler or ESP or Piping or Turbine or Civil or Structure or Electrical or CI, 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, CI, 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 (ie Boiler, ESP and Power Cycle Piping) and finally the Bidder’s capacity to execute the tendered scope is assessed in line with III above
- b) Identified Packages (Unit wise)

Table-1

	Civil	Electrical & CI	Mechanical
	i). Enabling works	i). Electrical	i). Boiler & Aux (All types including CW Piping if applicable)
	ii). Pile and Pile Caps	ii). CI	ii). Power Cycle Piping/Critical Piping
	ii). Civil Works including foundations	iii). Others (Elect & CI)	iii). LP Piping
	v). Structural Steel Fabrication & Erection		iv). ESP
			v). Steam Turbine Generator set & Aux

	v). Chimney vi). Cooling Tower ii). Others (Civil)		vi). Gas Turbine Generator set & Aux vii). Hydro Turbine Generator set & Aux iii). Turbo Blower (including Steam Turbine) ix). Material Handling x). Material Management xi). Material Handling & Material Management kii). Others (Mechanical)
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- c) Bidders who have not been evaluated for at least six package months in the last 36 months in the online BHEL system for contractor performance evaluation in BHEL PS Regions, w.e.f. July'2010 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 execution of work for a period of not less than 09 months, from the commencement of work of first package

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 'Capacity Evaluation of Bidders'.

- d) In the unlikely event of all bidders shortlisted against Technical and Financial Qualification criteria not meeting the criteria on 'Assessment of Capacity of Bidders' detailed above, OR leads to a single tender response on applying the criteria of 'Assessment of Capacity of Bidders' or due to non-approval by Customer, then BHEL at its discretion reserves the right to consider the further processing of the Tender based on the **Overall Performance Rating 'R_{BHEL}'** only, starting from the upper band.
- e) 'Under execution' shall mean works in progress as per the following:
- i. up to Boiler Steam Blowing in case of Steam Generator and Auxiliaries
 - ii. Up to Synchronization in case of all other works excepting sl no (i) and (iii)
 - iii. Upto execution of at least 90% of anticipated contract value in case of Civil & Structures (unit wise), Enabling works and upto 90% of material unloading (in tonnage) as per the original contract in case of MM Package.
- Note : BHEL at its discretion can extend (or reduce in exceptional cases in line with Contract conditions) the period defined against (i), (ii) and (iii) above, depending upon the balance scope of work to be completed.
- f) Performance evaluation in CL 9 above is applicable to Prime bidder and consortium partner (or Technical tie up partner) for their respective scope of work

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

11.0 For any clarification on the tender document, the bidder may seek the same in writing or through e-mail, as per specified format, within the scheduled date for seeking clarification, from the office of the undersigned. BHEL shall not be responsible for receipt of queries after due date of seeking clarification due to postal delay or any other delays.

- Any clarification / query received after last date for seeking clarification may not be normally entertained by BHEL and no time extension will be given.
- 12.0 BHEL may decide holding of pre-bid discussion [PBD] with all intending bidders as per date indicated in the NIT. The bidder shall ensure participation for the same at the appointed time, date and place as may be decided by BHEL. Bidders shall plan their visit accordingly. The outcome of pre-bid discussion (PBD) shall also form part of tender.
 - 13.0 In the event of any conflict between requirement of any clause of this specification/ documents/drawings/data sheets etc or requirements of different codes/standards specified, the same to be brought to the knowledge of BHEL in writing for clarification before due date of seeking clarification (whichever is applicable), otherwise, interpretation by BHEL shall prevail. Any typing error/missing pages/ other clerical errors in the tender documents, noticed must be pointed out before pre-bid meeting/submission of offer; else BHEL's interpretation shall prevail.
 - 14.0 Unless specifically mentioned otherwise, bidder's quoted price shall deemed to be in compliance with tender including PBD.
 - 15.0 Bidders shall submit Integrity Pact Agreement (Duly signed by authorized signatory who signs in the offer), **if applicable**, along with techno-commercial bid. This pact shall be considered as a preliminary qualification for further participation. **The names and other details of Independent External Monitor (IEM) for the subject tender is as given at point (1) above.**
 - 16.0 The Bidder has to satisfy the Pre-Qualifying Requirements stipulated for this Tender in order to be qualified. The Price Bids of only those bidders will be opened who will be qualified for the subject job on the basis of satisfying the Pre-Qualification Criteria specified in this NIT as per Annexure-I (as applicable), past performance etc. and date of opening of price bids shall be intimated to only such bidders. BHEL reserves the right not to consider offers of parties under HOLD.
 - 17.0 In case BHEL decides on a 'Public Opening', the date & time of opening of the sealed PRICE BID shall be intimated to the qualified bidders and in such a case, bidder may depute one 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 BHEL reserves the right to decide the successful bidder on the basis of Reverse Auction process. In such case all qualified bidders will be intimated regarding procedure/ modality for Reverse Auction process prior to Reverse Auction and price will be decided as per the rules for Reverse Auction. .

However, if reverse auction process is unsuccessful as defined in the RA rules/procedures, or for whatsoever reason, then the sealed 'PRICE Bids' will be opened for deciding the successful bidder. BHEL's decision in this regard will be final and binding on bidder.

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

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

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

23.0 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 with a validity period of six months initially. In case the consortium is awarded the contract, then the Consortium Agreement between the Prime Bidder and Consortium Partner or partners shall be extended till contractual completion period including extension periods if any applicable.

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) shall be as specified in the PQR

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. 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 the prime Bidder withdraws, the whole contract shall be considered cancelled and short closed.
- 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 two similar works with the same consortium partner or partners under direct orders of BHEL, the Prime Bidder shall be eligible for becoming a 'stand-alone' bidder for similar works, subject to certification from BHEL about the active involvement of the Prime Bidder for satisfactory execution of the works.
- 23.14 The consortium partner shall submit SD equivalent to 2% of the total contract value in addition to the SD to be submitted by the prime Bidder for the total contract value. In case there are two consortium partners, then each partner shall submit SD equivalent

to 1% of the total contract value in addition to the SD to be submitted by the prime Bidder for the total contract value.

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 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 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/rules in respect of suspension of business dealings', 'Vendor evaluation format', 'Quality, Safety & HSE guidelines', etc may undergo change from time to time and the latest one shall be followed.

for BHARAT HEAVY ELECTRICALS
LTD

AGM Purchase

Enclosure

01. Annexure-1: Pre Qualifying criteria.
02. Annexure-2: Check List.
03. Annexure-3: Integrity Pact
04. Annexure-4: Important Information.
- 05 Other Tender documents as per this NIT.

ANNEXURE - 1

PRE QUALIFYING CRITERIA

JOB	Civil, Structural & Architectural works for Steam Turbine with Turbo Blower and its Auxiliaries, Air Inlet Filters, Misc Equipment Foundations, Skids, Platforms, Paving etc for 3 Nos Turbo Blowers at 3.0 MTPA Integrated Steel plant of National Mineral Development Corporation (NMDC) at Nagarnar Site, District-Bastar, Chhattisgarh	
Sl No	Tender Specification Number	Project
1	BHE/PW/PUR/NGNRI-CVL/1484	NMDC Nagarnar Site

SL NO	PRE QUALIFICATION CRITERIA	Bidders claim in respect of fulfilling the PQR Criteria	
		Name and Description of qualifying criteria	Page no of supporting document. Bidder must fill up this column as per applicability
A	Submission of Integrity Pact duly signed (if applicable) (Note: To be submitted by Prime Bidder & Consortium/Technical Tie up partner jointly in case Consortium bidding is permitted, otherwise by the sole bidder)	NOT APPLICABLE	
B	Technical Bidders shall essentially meet all the Qualifying Requirements (i.e. B.1, B.2, B.3 & B.4) as under, in last seven years as on latest date of bid submission: B.1: Bidder should have Executed Fabrication and Erection of Structural Steel of at least 181 MT each, within a period of twelve	APPLICABLE	

<p>consecutive months against one or cumulative of two concurrently running contracts in industrial projects.</p> <p style="text-align: center;">AND</p> <p>B.2: Executed at least 1360 CuM RCC quantities within a period of twelve consecutive months against one or cumulative of two concurrently running contracts in industrial projects.</p> <p style="text-align: center;">AND</p> <p>B.3: Bidder should have Executed construction of STG Deck of one unit of any MW rating (up to at least Handing over for Mechanical Erection).</p> <p style="text-align: center;">AND</p> <p>B.4: Bidder should have Executed Civil and Architectural work in Industrial projects in last seven years as on latest date of bid submission as below:</p> <p>B.4.1) Executed One similar work of value not less than Rs. 416 Lakhs against single work order.</p> <p style="text-align: center;">OR</p> <p>B.4.2) Executed Two similar works each of value not less than Rs. 260 Lakhs against maximum two work orders.</p> <p style="text-align: center;">OR</p> <p>B.4.3) Executed Three similar works each of value not less than Rs. 208 Lakhs against maximum three work</p>		
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<p>orders.</p> <p>Note 1: Industrial projects shall mean projects in sectors like Power /Petro / Chemical/Refinery / Oil and Gas/ Cement /Aviation / Ports /any other sector involving civil & Structural works for setting-up a factory.</p> <p>Note 2:</p> <p>Bidder should have satisfied PQR B.1, B.2, B.3 & B.4.</p> <p>In case the bidder does not satisfy PQR B.1 above, then this bidder can form consortium with any other party who is satisfying the PQR B.1 above. This will be termed as consortium bidding. In case of consortium bidding following shall be applicable:</p> <ul style="list-style-type: none">• Prime bidder should have satisfied PQR B.2, B.3 & B.4 above.• Agency satisfying PQR B.1 shall be termed as Consortium Partner• Prime bidder shall be responsible for satisfying the financial PQR-C.• Prime bidder shall submit the entire tender along with the credentials, all statutory documents and the documents in support of PQR		
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	<p>condition of the Consortium Partner.</p> <ul style="list-style-type: none"> All conditions as in Clause 23 of NIT 		
C-1	<p><u>Financial TURNOVER</u> Bidders must have achieved an average annual financial turnover (audited) of Rs 156 Lakhs or more over last three Financial Years (FY) i.e. 2012-2013, 2013-14, 2014-15 OR 2011-2012, 2012-2013, 2013-14 if Annual Accounts for FY 2014-15 are not audited.</p>	APPLICABLE	
C-2	<p><u>NETWORTH</u> (only in case of Companies) Net worth of the Bidder based on the latest Audited Accounts as furnished for 'C-1' above should be positive.</p>	APPLICABLE	
C-3	<p><u>PROFIT</u> Bidder must have earned cash profit in any one of the three Financial Years as applicable in the last three Financial Years defined in 'C-1' above based on latest Audited Accounts.</p>	APPLICABLE	
D	<p>Assessment of Capacity of Bidder to execute the work as per sl no 9 of NIT (if applicable)</p>	APPLICABLE	By BHEL
E	<p>Approval of Customer (if applicable)</p> <p>Note: Names of bidders (including consortium/Technical Tie up partners in case consortium bidding is permitted) who stand qualified after compliance of</p>	APPLICABLE	BY BHEL

	criteria A to D shall be forwarded to customer for their approval.		
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
F	Technical Tie up criteria (if applicable)	Applicable	

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

1. Bidder to submit Audited Balance Sheet and Profit and Loss Account for the respective years as indicated against C-1 above along with all annexures
2. In case audited financial statements have not been submitted for all the three years as indicated against C-1 above, then the applicable audited statements submitted by the bidders against the requisite three years, will be averaged for three years i.e total divided by three.
3. C-2:-NET WORTH: Shall be calculated based on the latest Audited Accounts as furnished for C-1 above. Net worth = Paid up share capital + Reserves. (Net worth is required to be evaluated in case of companies)
4. C-3:- PROFIT : shall be NET profit (PAT + Non cash expenditure viz depreciation) earned during any one of the three financial years as in C-1 above
5. ~~'Additional' Criteria in respect of 'Technical' criteria of PQR (as in 'B' above) for Civil, Electrical, CI, unless otherwise specified :~~
 1. ~~Bidder should have executed similar work of any one of the following:-~~
 - a. ~~One (1) work of value not less than Rs XXX~~
_____ OR
 - b. ~~Two (2) works of not less than Rs YYY~~
_____ OR
 - c. ~~Three (3) works of not less than Rs ZZZ~~
(Value XXX, YYY, ZZZ shall be as indicated by BHEL
 2. ~~'Similar' work for criteria 5 above means~~
 - a. ~~Civil or Structures or Civil & Structures or Chimney respectively as applicable to the tendered scope in respect of 'CIVIL' Works~~

- ~~b. Electrical works in respect of 'ELECTRICAL'~~
- ~~e. CI works in respect of 'CI' Works~~
- ~~d. Material Handling and/or Management works in respect of 'MM' works~~

6. Time period for achievement of the 'Technical' criteria of PQR (as in 'B' above) will be the last 7 years ending on the 'latest date' of Bid submission

7. 'EXECUTED' means the Vendor should have achieved the criteria specified in the Technical criteria of PQR (as in 'B' above) even if the Contract has not been completed or closed, Unless otherwise specified, for the purpose of 'Technical' criteria of PQR (as in 'B' above), the word 'EXECUTED' means:

- ~~1. "BOILER LIGHT UP" in respect of Boiler & Aux and ESP~~
- ~~2. Term 'Commissioning' indicated in PQR refers to 'assistance to commissioning' / 'commissioning'~~
- ~~3. "SYNCHRONISATION" in respect of STG/GTG and 'SPINNING' in case of HTG~~
- ~~4. "STEAM BLOWING COMPLETION" in respect of at least Main Steam Line of Power Cycle Piping~~
- ~~5. "HYDRAULIC TEST" of the system in respect of Structures, Pressure parts/IBR Piping~~
- ~~6. "CHARGING" in respect of power Transformers, Bus ducts, HT/LT switchgears.~~
- ~~7. "Completion of RCC Shell and liner (steel or brick as per tendered scope) up to the HEIGHT specified using slip form" in case of RCC Chimney.~~
- ~~8. Achievement of physical Quantities as per respective PQRs in respect of Civil & Structures.~~
- ~~9. 'Readiness for coal Filling" in respect of Bunker Structure Work.~~
- ~~8. Boiler means HRSG or WHRB or any other types of Steam Generator.~~
- ~~9. Critical/Power Cycle piping means Main Steam, Hot Reheat, Cold Reheat, HP Bypass, LP Bypass lines~~
- 10. For the purpose of evaluation of the PQR, one MW shall be considered equivalent to 3.5TPH where ever rating of HRSG/BOILER is mentioned in MW. Similarly, where ever rating of Gas Turbine is mentioned in terms of Frame size, ISO rating in terms of MW shall be considered for evaluation.
- 11. ~~In case the experience/PO/WO certificate enclosed by bidders~~

~~do not have separate break up prices for the E&C portion of Electrical and CI Works, (i.e. the certificates enclosed are for composite order for supply and erection of Electrical & CI and other works if any), then value of Erection and Commissioning for the Electrical & CI portion shall be considered as 15% of the supply & erection of Electrical & CI, unless otherwise specifically indicated in the PQR.~~

~~12. Scope for capital overhaul of STG shall cover Bearing Inspection work and overhauling of all cylinders of the Turbine unless otherwise specifically indicated in the PQR.~~

~~13. In case the tendered scope is not a Pulverized Fuel Boiler, experience of Oil/Gas Fired Boilers also can be considered unless otherwise specifically indicated in the PQR~~

14. The value of work (Experience submitted against PQR B) shall be updated as per the PVC indices for "All India Avg. Consumer Price Index for Industrial Workers" with base month as date of execution (completion of contract/work) and indexed upto two months prior to bid opening month.

15. Explanatory Notes for PQR "B.1":

Consortium Bidding is permitted in this tender. Clause No 23.0 of NIT shall hence be applicable. Following may kindly be noted in this regard:

- Provisions/Eligibility of Consortium is detailed in "Annexure I" of NIT "Pre Qualifying Requirement" (PQR B).
- Prime bidder and Consortium Partner shall meet their respective technical Pre qualifying Criteria.
- Prime bidder shall meet all other Pre-Qualifying Criteria of the Tender.
- Number of partners including Prime Bidder shall not be more than 2.
- Prime Bidder/Leader of Consortium shall be responsible for entire scope of work and shall be the single contact window for BHEL. However Prime Bidder and the consortium partner shall be individually and severally responsible for completion of work as per schedule.
- Prime Bidder/Leader of the consortium shall submit tender to BHEL along with the credentials and other statutory documents of the consortium partner in support of PQR.

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

Bidder's Response to BHEL TECHNICAL PQR (WHICHEVER IS APPLICABLE)

PQR No	Pre-Qualifying Requirement	Credentials (Detailed Work Order, Completion Certificate and TDS Certificates) based on which bidder is claiming PQR	Reference of the documents	Page No
B.1	Bidder should have Executed Fabrication and Erection of Structural Steel of at least 181 MT each, within a period of twelve consecutive months against one or cumulative of two concurrently running contracts in industrial projects.			
B.2	Executed at least 1360 CuM RCC quantities within a period of twelve consecutive months against one or cumulative of two concurrently running contracts in industrial projects.			
B.3	Bidder should have Executed construction of STG Deck of one unit of any MW rating (up to at least Handing over for Mechanical Erection).			
B.4.1	Executed One similar work of value not less than Rs. 416 Lakhs against single work order			
B.4.2	Executed Two similar works each of value not less than Rs. 260 Lakhs against maximum two work orders.			

B.4.3

Executed Three similar works each of value not less than Rs. 208 Lakhs against maximum three work orders.

NOTE:

BIDDERS MUST CLEARLY INDICATE IN THE TABLE ABOVE, HOW THEY ARE SATISFYING TECHNICAL PQR ALONG WITH THE REFERENCE OF THE SUPPORTING DOCUMENTS AND THE PAGE NUMBER IN WHICH THE REFERRED DOCUMENTS ARE ANNEXED IN THE BID DOCUMENT.
BHEL WILL NOT CONSIDER ANY OTHER DOCUMENT OTHER THAN THOSE SPECIFIED BY THE BIDDERS IN THE TABLE ABOVE FOR EVALUATION OF TECHNICAL PQR.

BIDDER MAY ATTACH SEPERATE SHEET IF NECESSARY

ANNEXURE – 2**CHECK LIST**

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

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

		/Not Applicable	
9	Whether all pages of the Tender documents including annexures, appendices etc are read understood and signed	Applicable /Not Applicable	YES/NO
10	Integrity Pact	Applicable /Not Applicable	YES/NO
11	Declaration by Authorized Signatory	Applicable /Not Applicable	YES/NO
12	No Deviation Certificate	Applicable /Not Applicable	YES/NO
13	Declaration confirming knowledge about Site Conditions	Applicable /Not Applicable	YES/NO
14	Declaration for relation in BHEL	Applicable /Not Applicable	YES/NO
15	Non-Disclosure Certificate	Applicable /Not Applicable	YES/NO
16	Bank Account Details for E-Payment	Applicable /Not Applicable	YES/NO
17	Capacity Evaluation of Bidder for current Tender	Applicable /Not Applicable	YES/NO
18	Tie Ups/Consortium Agreement are submitted as per format	Applicable /Not Applicable	YES/NO
19	Power of Attorney for Submission of Tender/Signing Contract Agreement	Applicable /Not Applicable	YES/NO
20	Analysis of Unit rates	Applicable /Not Applicable	YES/NO

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

DATE:

AUTHORISED SIGNATORY

(With Name, Designation and Company seal)

IMPORTANT INFORMATION

Sealed Tenders shall be submitted at following address to AGM /Purchase BHEL PSWR NAGPUR:

BHEL PSWR, SRIMOHINI COMPLEX, 345 KINGSWAY, NAGPUR 440001, INDIA

All correspondences regarding this tender shall be addressed to AGM / PURCHASE BHEL PSWR at above address. Bidders may also opt to correspond with following BHEL officials regarding this tender through email at following email ids. However please be informed that sealed tenders shall necessarily be submitted in original at above address:

AGM Purchase, Email id: ska@bhhelpswr.co.in. Ph: +91 – 712 – 3048633

Sr Engineer Purchase, Email: pgv@bhhelpswr.co.in, Ph: +91 – 712 – 3048713

Sr Engineer Purchase, Email: nktywari@bhhelpswr.co.in Ph: +91-712-3048651

Engineer Purchase, Email id: svm@bhhelpswr.co.in , Ph: +91 – 712 – 3048715

1. **The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site (www.bhel.com ---> Tender Notification -> List of Banned Firms)**
2. **Refer Chapter XII of Volume IB Special Conditions of Contract regarding Suspension of Business Dealings: The abridged version of extant ‘Guidelines for suspension of business dealings with suppliers/ contractors’ has now been uploaded on www.bhel.com on “supplier registration page” at the following link: http://www.bhel.com/vender_registration/pdf/Suspension-of-Business-Dealings-with-Supplier-issued-Sept13_abridged.pdf**
3. **All Statutory Requirements as applicable for this project shall be complied with.**
4. **Please take note of following Revised Tender Clauses:**
 - i. Notice Inviting Tender: SL No 9

- ii. General conditions of Contract: Clause No 1.15.13 (New), Clause No 2.8.3, 2.8.4 and 2.8.5

5. Following Notes are added to Form F- 15 of Volume I D 'Forms & procedures'

- i. It is only indicative and shall be as per the online format issued by BHEL time to time.
ii. No request will be entertained after specified date of the current month w.r.t the changes requested in the scores of immediate previous month.

6. PRICE VARIATION CLAUSE

Revision in Price Variation Compensation Clause no. 2.17 of Vol I C GCC:

Clause No. 2.17 of Vol IC GCC is revised as below:-

2.17 PRICE VARIATION COMPENSATION (During Original Contract Period and Extension if any)

2.17.1 In order to take care of variation in Total Minimum Per Day Wages of all categories of workers/labors, Price Variation Formula as described herein shall be applicable

2.17.2 20 % component of Contract Value shall be permitted to be adjusted for variation in Total Minimum per Day Wage of 'UNSKILLED LABOUR/WORKERS' during execution of work. The remaining 80% shall be treated as fixed component

2.17.3 Payment/recovery due to variation labor index during execution of work shall be determined on the basis of the following notional formula:

$$P = 20 \% \times R \times \frac{(X_N - X_0)}{X_0}$$

Where

P = Amount to be paid/recovered due to variation in Total Minimum Per Day Wage of 'UNSKILLED LABOUR/WORKERS'

R = Value of work done for the billing month (Excluding Taxes and Duties if payable extra)

XN = Revised Total Minimum per Day Wage of 'UNSKILLED LABOUR/WORKERS' for the billing month under consideration

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X_o = Total Minimum per Day Wage of 'UNSKILLED LABOUR/WORKERS'
as on the Base date.

2.17.4 Base date shall be calendar month of the latest date of submission of Tender

2.17.5 Total Minimum Per Day Wage of 'UNSKILLED LABOUR/WORKERS' applicable for the billing month and the base month shall be as per the authorized notification/circulars issued by the Principle Employer (BHEL's Customer) regarding prevailing (billing Month or base month) minimum total per day labor wage of UNSKILLED LABOUR/WORKERS applicable in the project

2.17.6 PVC shall not be payable for the ORC amount, Supplementary/Additional Items, Extra works

2.17.7 The contractor will be required to raise the bills for price variation payments on a monthly basis along with the running bills irrespective of the fact whether any increase/decrease in the Total Minimum Per Day Wage of 'UNSKILLED LABOUR/WORKERS' has taken place or not. In case there is delay in publication/issuance of authorized notification/circulars (final figure), the PVC bill shall be deferred till the issuance of the same

2.17.8 PVC shall be applicable for the entire original contract period plus the extended period. The total amount of PVC shall not exceed 5 % of the cumulatively executed contract value. Executed contract value for this purpose is exclusive of PVC, ORC, Supplementary/Additional Items and Extra works. However the Total Quantum of Price Variation amount payable/recoverable during delayed/extended period shall be regulated as follows

- i) For the portion of backlog attributable to the contractor, the PVC will be based on the average of the Total Minimum Per Day Wage of 'UNSKILLED LABOUR/WORKERS' for the period of the original contract period
- ii) For the period of Force Majeure, the PVC will be limited to Total Minimum per Day Wage of 'UNSKILLED LABOUR/WORKERS' applicable at the beginning of the force majeure period.
- iii) For the portion of backlog attributable to BHEL, the PVC will be as per the Total Minimum Per Day Wage of 'UNSKILLED LABOUR/WORKERS' applicable for the respective months

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2.17.9 Additional PVC during Contract Extension Period

- i) In order to take care of variation in cost of execution of work on either side, due to variation in the index of LABOUR, HIGH SPEED DIESEL OIL, WELDING ROD, CEMENT, STEEL, MATERIALS, Additional Price Variation Formula as described herein shall be applicable during contract extension period. **Additional PVC shall be applicable only during the extended period of contract (if any)** after the schedule completion date for the portion of work delayed / backlog for the reasons not attributable to Contractor
- ii) 65 % component of **Executed Value (during extended period)** shall be permitted to be adjusted for variation in various relevant indices during extended contract period. The remaining 35% shall be treated as fixed component.
- iii) The basis for calculation of price variation in each category, their component, Base Index, shall be as under:

<u>Sl No</u>	<u>CATEGORY</u>	<u>Base Index</u>	<u>Component K</u>
<u>01</u>	LABOUR (ALL CATEGORIES)	MONTHLY AVERAGE CONSUMER PRICE INDEX NUMBERS FOR INDUSTRIAL WORKERS' for BHILAI CENTRE of CHHATTISHGARH State published by Labor Bureau, Ministry of Labor and Employment, Government of India. (Website: labourbureau.nic.in)	<u>5</u>
<u>02</u>	HIGH SPEED DIESEL OIL	Name of Commodity: HSD OIL. Type : INDIVIDUAL COMMODITY (See Note below)	<u>3</u>
<u>03</u>	CEMENT	Name of Commodity : GREY CEMENT Type: INDIVIDUAL COMMODITY	<u>20</u>
<u>04</u>	STEEL (Structural and Reinforcement	Name of Commodity : IRON & SEMIS Type: GROUP ITEM	<u>25</u>

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	Steel)		
05	MATERIALS (Other than Cement & Steel)	Name of Commodity: ALL COMMODITIES Type: GROUP ITEM	12

Note:

As per the 'MONTHLY WHOLE SALE PRICE INDEX' for the respective Commodity and Type, published by Office of Economic Adviser, Ministry of Commerce and Industry, Government of India. (Website : www.eaindustry.nic.in). Revisions in the index or commodity will be re adjusted accordingly

- iv) Payment/recovery due to variation in index shall be determined on the basis of the following notional formula without any initial absorption, in respect of the identified components viz LABOUR, HIGH SPEED DIESEL OIL, WELDING ROD, CEMENT, STEEL, MATERIALS

$$P = K \times R \times \frac{(X_N - X_0)}{X_0}$$

Where

P = Amount to be paid/recovered due to variation in the Index for Labor, High Speed Diesel Oil, Welding Rod, Cement, Steel and Materials

K = Percentage component applicable for Labor, High Speed Diesel Oil, Welding Rod, Cement, Steel and Materials

R = Value of work done for the billing month during extended period (Excluding Taxes and Duties if payable extra)

XN = Revised Index No for Labor, High Speed Diesel Oil, Welding Rod, Cement, Steel and Materials for the billing month under consideration

Xo = Index no for Labor, High Speed Diesel Oil, Welding Rod, Cement, Steel and Materials as on the Base date

- v) Base date shall be the calendar month of the schedule completion date of the contract. Schedule Completion date shall be the actual start date plus contract period as defined in Chapter VI 'Vol IA TCC'

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- vi) Additional PVC shall not be payable for the ORC amount, Supplementary/Additional Items, Extra works
- vii) The contractor shall furnish necessary monthly bulletins for the necessary indices from the relevant websites along with his Bills
- viii) The contractor will be required to raise the bills for additional price variation payments on a monthly basis during extended period along with the running bills irrespective of the fact whether any increase/decrease in the index for relevant categories has taken place or not. In case there is delay in publication of bulletins (final figure), the provisional values as published can be considered for payments and arrears shall be paid/recovered on getting the final values
- ix) Total quantum of Additional Price Variation amount payable/recoverable shall be regulated as follows:
 - a) For the portion of backlog attributable to the contractor and for the portion of backlog due to force majeure condition during contract period, Additional PVC shall not be paid.
 - b) For the period of force Majeure during extended contract period, Additional PVC will be as per the indices applicable at the beginning of the force majeure period (during extended period).
 - c) void
 - d) The total amount of additional PVC shall not exceed 20% of the cumulatively executed contract value during the extended contract period. Executed contract value for this purpose is exclusive of PVC, ORC, Supplementary/Additional Items and Extra works.

7. QUANTITY VARIATION

Revision in QUANTITY VARIATION Clause no. 2.14 of Vol I C GCC:

Clause No. 2.14 of Vol IC GCC is revised as below:-

Rates for individual items shall remain firm for any variation in the respective quantity up to plus (+) 30 % and minus (-) 100 %.

For any variation in individual item quantities beyond plus (+) 30 %, the item rate of that item shall be increased by 5 % i.e. payment for the quantities executed beyond 130 % of the tendered quantity shall be made @ of 105 % of the awarded rate of that particular item. Contractor shall not be eligible for any other compensation on this account

For any variation in individual item quantity on negative side or in case any item is not operated at all, there will be no revision in the item rates during entire contract period and extended period if any.

BHEL-PSWR

Tender Specification No: BHE/PW/PUR/NGNRI-CVL/1484

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However In case the finally executed contract value reduces below 85 % of the ordered total value due to quantity variation, the contractor will be eligible for compensation @ 15% of the difference between the 85% of the ordered value and the actual executed value. For this purpose executed contract value shall also include items quantities which are paid @ 105 % of ordered rate due to variation beyond plus (+) 30%.

8. OVER RUN COMPENSATION

Over Run Compensation Clause no. 2.12 of Vol I C GCC shall not be Applicable.

9. Acceptance of Bank Guarantee (BG)

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

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

“Bank Guarantee issued by:

a. Any of the BHEL consortium bank listed below :

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

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

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

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

10. 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 are given in Annexure V of NIT:

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

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- 11.5. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
- 11.6. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
- 11.7. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
- 11.8. Bidders have to fax the Compliance form (annexure IV) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.

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TECHNICAL CONDITIONS OF CONTRACT (TCC)

BHARAT HEAVY ELECTRICALS LIMITED



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SI No	DESCRIPTION	Chapter	No. OF PAGES
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TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - I : Project Information

1.0 Project Information (3.0 MTPA Integrated steel plant of NMDC Limited at Nagarnar, Chhattisgarh)			
1	Customer	:	Bharat Heavy Electricals Limited, HPEP, R.C. Puram, Hyderabad - 502032
2	Project Title	:	Civil, structural & Architectural works, site storage & area development facilities, etc. for Turbo-blower station for 3.0 MTPA Integrated steel plant of NMDC Limited at Nagarnar, Chhattisgarh
3	Location	:	3.0 MTPA Integrated steel plant of NMDC Limited at Nagarnar, Jagdalpur, Chhattisgarh
4	Address Detail	:	3.0 MTPA Integrated steel plant Project of NMDC Limited, Nagarnar, Jagdalpur, Chhattisgarh
5	Nearest Railway Station	:	Jagdalpur Railway Station
6	Road Approach	:	Jagdalpur is well connected by road with the Raipur , Hyderabad , Visakhapatnam and Vizianagaram .
7	Nearest Air Port	:	Raipur Airport and Visakhapatnam Airport
11	Ambient Air Temperature (Average)	:	a) Maximum : 32 ^o C b) Minimum : 19 ^o C
12	Average Relative Humidity	:	42-86 %
13	Climatic Condition	:	Tropical Savanna Climate

Bidder is advised to visit the project site and appraise himself about the local conditions and infrastructure available in the area for fulfilling their commitments under the contract. BHEL will not admit any claims whatsoever on account of Contractor's non-familiarization of local conditions.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Works and Technical Specifications

2.0 SCOPE OF WORK

2.0.01 Micro Grading:

After the completion of civil work, the entire area shall be micro graded up to required levels by the contractor to achieve the ground profile as per pavement level requirement **at no extra cost**. Filling/ cutting required to bring the site up to the required finished levels is in the scope of the contractor. However if extra earth required to make up to paved levels shall be arranged by the contractor from approved borrow areas / or stack from excavated earth, the same shall be paid under relevant item of BOQ.

2.0.02

The work to be performed under the scope of this tender mainly consists of but not limited to complete Civil, structural and Architectural work including all materials, T&Ps, manpower and their maintenance for specified period of the following plant buildings, structural equipment foundations and other miscellaneous structures.

For indicative foundation/structure sizes and number of equipment refer GA Drawing (Chapter-IX). Please note that these are tentative and likely to change.

1) Construction of foundations for the following Equipment.

- a) Steam Turbine with Turbo Blower & its auxiliaries - **For 3 Units**
- b) Air inlet filter for blowers and other miscellaneous skids – **For 3 Units**
- c) Miscellaneous other equipment foundation as per Mechanical, Electrical & Instrumentation scope/layout – for 3 Units

2) Construction of foundation & super structure for the following

- a) Platforms for blower silencer- – **for 3 Units.**
- b) Pipe rack for all 3 units (entire pipe/cable rack)

3) Construction of Misc. Structures & Services:-

- a) Structural platforms, monorail beams, walkways, crossovers, handrails etc. for miscellaneous equipment, piping etc. – **For 3 Units.**

4) Final grading of site up to (micro grading) – **For 3 Units.**

2.0.03 THE WORK WILL INVOLVE.

All civil, structural and architectural works connected with the above mentioned structures such as earth work, concrete work, steel work, embedment,

2.0.04 CIVIL AND ARCHITECTURAL WORKS

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Works and Technical Specifications

The scope covers all Civil and Architectural within the battery limits for Unit 1, 2 & 3 Turbo-blower. The important works covered are as below.

- 1) Excavation of earth and backfilling including dewatering of excavations for foundations, trenches, tunnels pits, etc. till the construction of the same is completed and disposal of surplus.
- 2) Construction of Raft / foundation of three numbers of Turbo Blowers and its Auxiliaries with pedestals, foundation and footing for lightly loaded structures, grade beams, tie beams at foundation level, grade slabs, equipment foundations etc.
- 3) Complete civil and architectural works such as brick work, plastering, painting, all types of floor/roof finishes, all types joinery etc.
- 4) Preparation and submission of detailed calculations, arrangement drawings and detail drawings of formwork, staging and scaffolding for all reinforced concrete structures and foundations as directed by the Engineer for his checking and approval.
- 5) Preparation of detailed working drawings and bar bending schedules for all reinforced concrete work and getting them approved by the BHEL Engineer.
- 6) Taking delivery from BHEL stores for the materials specifically mentioned as BHEL supply.
- 7) Fabrication supply and fixing of anchor bolts, sleeves, fixing frames, embedment etc. in concrete.
- 8) Supply of all instruments and personnel for conducting necessary tests at site as specified/as directed by the Engineer.
- 9) Making appropriate fabrication drawing as per agreed schedule before starting fabrication work for any structural GA drawing.
- 10) Taking delivery from BHEL stores for the materials specifically mentioned as BHEL supply & its fabrication & erection, Supply, fabrication and erection of structural steel work including all interfacing works and miscellaneous works, supply of steel will be made by Contractor other than BHEL supply. The nature of structural work shall include columns , beams, splicing of steel works as needed, bracings, sheeting runners , sag rods, ties struts, walkways, galleries, stairs, ladders, hand railing , floor gratings, chequered plate work, M.S pipes, equipment supporting platform, and all other structures required for the successful completion of the project.

2.0.05 GENERAL

- 1) The drawings enclosed with this tender are intended to give the tenderer a general idea of the type and extent of work involved. The drawings are as such only indicative and not to be considered as the exact construction drawings.
Further this is to be noted that the drawings and the documents furnished along with this specification are the sole property of B.H.E.L. It must not be used directly or indirectly in any way detrimental to the interest of the company.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Works and Technical Specifications

- 2) The scope of work will also include such other related works although they may not be specifically mentioned in the above paragraph and all such incidental items not specified but reasonably imply and necessary for completion of the job as a whole all as desired and as directed by the engineer.
- 3) The detail scope of work covered above is not a comprehensive list of items of work involved. The detail scope of work may vary considerably depending on the actual construction requirements.
- 4) All Construction and building related materials shall be purchased from the Customer / SAIL approved manufactures only. Contractor has to take prior approval from BHEL/SAIL before procurement of Cement, steel and all Construction and building related materials.

2.0.06 ALSO INCLUDED IN THE SCOPE

Unless otherwise specified, the work to be provided by the contractor for the items mentioned in the “Schedule of items” shall include but not be limited to the following.

- 1) Furnishing all labour, materials, supervision, construction plans, equipment, supplies, transport, to and from the site, fuel, electricity, compressed air, water, transit and storage insurance and all other incidental items and temporary works not shown on specified but reasonably implied or necessary for the proper completion, maintenance and handling over the works, except in accordance with the stipulations laid down in the contract documents and additional stipulations as may be provide by the engineer during the course of works.
- 2) Furnishing samples of all materials required by the engineers for testing/inspection and approval for use in the works. The samples may be retained by the engineer for final incorporation in the works.
- 3) Furnishing test reports for the products used or intended to be used, if called for the specifications or if so desired by the engineer.
- 4) Giving all notices, paying all fees, taxes etc., in accordance with the general conditions of contract, that is required for all works including temporary works.
- 5) Arranging manufacturer’s supervision for items of work done as per manufacturer’s specifications when so specified.
- 6) Carrying out topographic survey of the entire and establish levels and coordinates at suitable intervals from existing grid levels and coordinates furnished by the owner established bench marks, setting out the locations and levels of proposed structures, constructions and marking of reference pillars and other identification works etc., The contractor shall provide the owner/BHEL such a assistance, instruments, machines, labour and materials as are normally required for examining, measuring and testing any work and the quality, weight or quantity of any material used.
- 7) Providing all incidental items not shown or specified but reasonably implied or necessary for the successful completion of the work in accordance with contract.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Works and Technical Specifications

2.0.07 WORKS BY OTHERS

No work under the specification will be provided by any agency other than the contractor unless specifically mentioned elsewhere in the contract.

TECHNICAL SPECIFICATIONS & DRAWINGS FOR INFORMATION:

SECTION DESCRIPTION

- 1) SECTION – A LIST OF TECHNICAL SPECIFICATIONS**
- 2) SECTION – B LIST OF TENDER DRAWINGS (Refer Chapter IX)**

NOTE:

Contractor has to make him-self well conversant with the Customer specification. In case of ambiguity between BHEL and customer specification, customer specification shall prevail.

SECTION-A: LIST OF TECHNICAL SPECIFICATIONS.

1.	STANDARD TECHNICAL SPECIFICATION FOR GENERAL SCOPE	PEDC/STD.SPEC/001	REV 00	

2.0.08 PREAMBLE FOR THE SCHEDULE OF QUANTITIES/BOQ:

1) Details of the items in this Schedule shall be read in conjunction with the Corresponding specifications, drawings and other BID documents and shall have precedence over any contrary statement mentioned anywhere in this document.

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.

3) Items of work provided in this schedule but not covered in the specifications shall be executed strictly as per instructions of the Engineer.

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

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Works and Technical Specifications

specifically mentioned but reasonably implied and necessary to complete the works according to the contract.

5) The rate quoted shall be inclusive of cleaning the site of any vegetations, dressing and levelling etc., required for commencement of site activities. No separate payment will be made towards the same.

6) The rate shall also be inclusive of carrying out topography survey of site to establish levels and coordinates at suitable intervals, from 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.

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 before procurement of bought out items/ building materials including Cement.

8) Rates shall be quoted both in figures and in words in clear legible writing. No over writing is allowed. All scoring and cancellation should be counter signed by the bidder. In case of illegibility, the interpretation of the engineer shall be final. All entries shall be in English language.

9) Engineers 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.

10) 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.

2.0.09 HIERARCHY

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

- 1) Statutory Regulations
- 2) Items in Schedule of quantities
- 3) IS/BS standards
- 4) BHEL's standard specification (with prior approval of Engineer-in-charge).

2.0.010 Laying / Cutting & Re-welding of associated electrical earthing works below the road & drains and surrounding areas shall also be done by civil contractor as per drawings (excluding test pit/earth pit) for which 40mm dia. MS rod/GI flats shall be supplied by BHEL free of cost.

2.0.2 Other Related Activities:

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Works and Technical Specifications

- 1. Draw Construction Power from Customer's Given Point at One Location inside the Plant Including All Materials.**
- 2. Draw Construction Water from Customer's given Point at one location inside the plant including all materials.**

2.0.3 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**. For this, contractor shall either establish their own field quality lab or have tie-up with approved lab by BHEL in/outside of the plant. All quality checks and protocol shall be jointly signed by BHEL, NMDC and Contractor's representative.

2.0.4 Procurement of Materials by Successful Contractors and Testing:

Material required for the entire job like cement, steel, sand, aggregates, painting & finishing material, electrical fittings and wiring material and all other material required for the completion of entire scope, bolts & nuts, HSFG/HT bolts have to be arranged by the contractor. BHEL reserves the right to reject any material not found satisfactory.

Contractor shall produce manufacturer's test certificate (*MTC*) for cement for every batch of manufacturing along with each consignment brought to the site. Cement shall be procured from fresh stock only. Apart from the above, it shall be the responsibility of contractor to get the testing of cement, or any other materials procured from outside laboratory approved by **BHEL/NMDC** to ascertain the quality if insisted by **BHEL/BHEL's customer**.

Approved Manufacturers for Procurement of Reinforcement Steel & Structural Steel

- 1) SAIL,
- 2) RINL,
- 3) TISCO,
- 4) JINDAL

All Steel Shall conform to relevant BIS Standard. Preference shall be given to SAIL materials only & in case of non availability of required section/sizes, steel from other manufacturers shall be allowed with prior permission.

Ordinary Portland Cement (OPC) of grade 43/53 conforming to IS 8112/IS12269 shall be used in all the concrete works.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Works and Technical Specifications

Following are the approved manufacturers for procurement of cement:

- 1) **ULTRATECH**
- 2) **ACC**
- 3) **BIRLA GOLD (WITH A PRIOR APPROVAL)**

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/BHEL customer's representative. The variation in price of all the plant materials supplied by the contractor shall be subject to the relevant price variation clause (PVC).

2.0.5.0 (Other Responsibilities in General)

2.0.5.1

Contractor shall be responsible for proper usage of their materials like cement, steel, and aggregates etc. As per standard requirement of is codes and control the wastage within limit. No compensation shall be made for any excess consumption under any circumstances.

2.0.5.2

Contractor shall be fully responsible for any delay in progress of work due to delay/short supply of material to be procured by them for this job.

2.0.5.3

Rusting of steel should be avoided to the maximum extent possible without hampering the continuity of construction/erection. In case rusting of steel occurs rendering the same unusable, the contractor shall remain responsible to make good the loss at his own cost.

2.0.5.4

As-built drawing: contractor shall arrange to incorporate all changes, in AFC drawings, made as per the site requirement on completion of work and submit the same to BHEL for preparing final as-built drawing. This shall form part of work and rates quoted shall be inclusive of this.

2.0.5.5

The contractor in the event of engaging 10 or more workmen will obtain independent license under the contract labor (regulation and abolition) act 1970 from the concerned authorities based on the certificate (form-v) issued by the principal employer/customer.

2.0.5.6

It is the responsibility of the contractor to arrange gate pass for all his employees, T&P etc. Necessary coordination with NMDC officials is the responsibility of the contractor. Contractor to follow all the procedures lay down by NMDC for making gate passes.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II: Scope of Works and Technical Specifications

2.0.5.7

BHEL/NMDC may insist upon witnessing the regular payment to the labor. They may also like to verify the relevant records for compliance with statutory requirements. Contractor shall enable such facilities to BHEL /NMDC

2.0.5.8

Contractor shall also comply with the provisions of ESI act in vogue and submit evidence thereof to BHEL site in charge. In addition to this, all other employees benefits to be borne by the contractor as per the labor laws. Contractor shall produce necessary certificates towards their compliance with such statutes and payment of all statutory dues.

2.0.5.9

Contractor shall also comply with the requirements of local authorities/ project authorities calling for police verification of antecedents of the workmen, staff etc.

2.0.5.10

Where permitted, by BHEL/NMDC, to work beyond normal working hours, the contractor shall arrange necessary gate passes.

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 actual status of work, site situation & nature of job. No claim shall be entertained at later date on account of non-familiarization of site condition.*

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – III: Facilities in the scope of Contractor/BHEL

SI No	Description	Scope / to be taken care by		Remarks
		BHEL	Bidder	
3.1	ESTABLISHMENT			
3.1.1	FOR CONSTRUCTION PURPOSE:			
A	Open space for office (as per availability)	Yes		Location will be finalized after joint survey with owner
B	Open space for storage (as per availability)	Yes		Location will be finalized after joint survey with owner
C	Construction of bidder's office, canteen and storage building including supply of materials and other services		Yes	
D	Bidder's all office equipments, office / store / canteen consumables		Yes	
E	Canteen facilities for the bidder's staff, supervisors and engineers etc		Yes	
F	Fire fighting equipments like buckets, extinguishers etc		Yes	
G	Fencing of storage area, office, canteen etc of the bidder		Yes	
3.1.2	FOR LIVING PURPOSES OF THE BIDDER		Yes	Contractor has to make his own arrangements for space, shelter and transportation of labors as per their requirement
A	Open space for labour colony (as per availability)		Yes	
B	Labour Colony with internal roads, sanitation, complying with statutory requirements		Yes	
3.2.0	ELECTRICITY			
3.2.1	Electricity for construction purposes 3 Phase 415/440 V (To be specified whether chargeable or free)			

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – III: Facilities in the scope of Contractor/BHEL

SI No	Description PART I	Scope / to be taken care by		Remarks
		BHEL	Bidder	
A	Single point source	Yes		Construction power will be provided free of cost at one point at a distance of approx. 300 M. Further distribution shall be in bidder's scope.
B	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
C	Duties and deposits including statutory clearances if applicable			
3.2.2	<i>Electricity for the office, stores, canteen etc of the bidder.</i>			
A	Single point source	Yes		Power will be provided free of cost at one point at an available distance. Further distribution shall be in bidder's scope.
B	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
C	Duties and deposits including statutory clearances if applicable		Yes	
3.2.3	<i>Electricity for living accommodation of the bidder's staff, engineers, supervisors etc</i>		Yes	Contractor has to make his own arrangement.
A	Single point source		Yes	
B	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
C	Duties and deposits including statutory clearances if applicable		Yes	

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – III: Facilities in the scope of Contractor/BHEL

SI No	Description PART I	Scope / to be taken care by		Remarks
		BHEL	Bidder	
3.3.0	<i>WATER SUPPLY</i>			
3.3.1	<i>For construction purposes: (to be specified whether chargeable or free)</i>			
A	Making the water available at single point	Yes		Construction water will be provided free of cost at one point at a distance of approx. 300M. Further distribution shall be in bidder's scope.
B	Further distribution as per the requirement of work including supply of materials and execution		Yes	
3.3.2	<i>Water supply for bidder's office, stores, canteen etc</i>			
A	Making the water available at single point		Yes	Contractor has to make his own arrangement.
B	Further distribution as per the requirement of work including supply of materials and execution		Yes	
3.3.3	<i>Water supply for Living Purpose</i>			Contractor has to make his own arrangement.
A	Making the water available at single point		Yes	
B	Further distribution as per the requirement of work including supply of materials and execution		Yes	
3.4.0	<i>LIGHTING</i>			

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – III: Facilities in the scope of Contractor/BHEL

SI No	Description PART I	Scope / to be taken care by		Remarks
		BHEL	Bidder	
A	For construction work (supply of all the necessary materials) 1. At office/storage area 2. At the preassembly area 3. At the construction site /area		Yes	
B	For construction work (execution of the lighting work/ arrangements) 1. At office/storage area 2. At the preassembly area 3 At the construction site /area		Yes	
C	Providing the necessary consumables like bulbs, switches, etc during the course of project work		Yes	
D	Lighting for the living purposes of the bidder at the colony / quarters		Yes	
3.5.0	COMMUNICATION FACILITIES FOR SITE OPERATIONS OF THE BIDDER			
A	Téléphone, fax, internet, intranet, e-mail etc		Yes	
3.6.0	COMPRESSED AIR wherever required for the work		Yes	
3.7.0	Demobilization of all the above facilities		YES	
3.8.0	TRANSPORTATION			
A	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 – III: Facilities in the scope of Contractor/BHEL

SI.No	Description PART II 3.9.0 ERECTION FACILITIES	Scope / to be taken care by		Remarks
		BHEL	Bidder	
3.9.1	Engineering works for construction:			NOT APPLICABLE
A	Providing the erection/constructions drawings for all the equipments covered under this scope	Yes		For Details PI refer Chapter-IX-
B	Drawings for construction methods	Yes	Yes	In consultation with BHEL
C	As-built drawings – where ever deviations observed and executed and also based on the decisions taken at site- example – routing of small bore pipes		Yes	Changes are to be marked in drawing & handover to BHEL on completion of work.
D	Shipping lists etc for reference and planning the activities			NOT APPLICABLE
E	Preparation of site erection schedules and other input requirements		Yes	In consultation with BHEL
F	Review of performance and revision of site erection schedules in order to achieve the end dates and other commitments	Yes	Yes	In consultation with BHEL
G	Weekly erection schedules based on SI No. e		Yes	In consultation with BHEL
H	Daily erection / work plan based on SI No. g		Yes	In consultation with BHEL

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – III: Facilities in the scope of Contractor/BHEL

Sl.No	Description PART II 3.9.0 ERECTION FACILITIES	Scope / to be taken care by		<i>Remarks</i>
		BHEL	Bidder	
I	Periodic visit of the senior official of the bidder to site to review the progress so that works are completed as per schedule. It is suggested this review by the senior official of the bidder should be done once in every two months.		Yes	
J	Preparation of preassembly bay			NOT APPLICABLE
K	Laying of racks for gantry crane if provided by BHEL or brought by the contractor/bidder himself			NOT APPLICABLE
L	Arranging the materials required for preassembly			NOT APPLICABLE

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

A: TOOL & PLANTS

SN	DESCRIPTION	
1	(a) T &Ps FOR STRUCTURAL WORKS	
	SL	Qty
	1. 18 T Crawler crane	As per requirement
	2. Hydra (8 / 10 T Cap.)	01No.
	3. Radial drill machine	04Nos.
	4. Pillar drill m/c	03Nos.
	5. Drill M/C NW 10	12Nos.
	6. MIG welding machine	5Nos.
	7. Welding Rectifier	5Nos.
	8. Welding m/c	6Nos.
	9. Grinding machine	10Nos.
	10. Portable diesel welding M/C	01Nos.
	11. Pug cutting m/c	02Nos.
	12. Hand cutting set	10Nos
	13. Hydraulic jack of different capacity	10Nos.
	14. Stationery oven	02Nos.
	15. Portable oven	04Nos.
	16. Chain pulley of different capacity	5Nos.
	17. Max puller	6Nos.
	18. DG set of 160KVA for backup supply during power failure	As per requirement
	19. Hand winch 5T CAP.	As per requirement
	20. Screw jack	As per requirement
	21. 15T/20T tractor & trailer	02Nos.
	22. Ultrasonography testing M/c for str. Steel	As per requirement
	23. Radiography sources	As per requirement
	24. Fabrication Bed	As per requirement
	(b) T & Ps FOR CIVIL WORKS	
	01 Mini batching plant 05 Cum. Capacity – 1 no. for Concrete works	01No. (in case RMC is not arranged)
	02 Concrete Pump (30 Cum/Hr min capacity & lift 70M)	As Per Requirement.
	03 Self priming Dewatering pump 5 HP (Diesel/Electric)	02Nos.
	04 Submersible Dewatering pump 5 HP	01No.

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

SN	DESCRIPTION	
05	Self priming Dewatering pump 10 HP	01No.
06	Self priming Dewatering pump 2 HP	01No.
07	Sludge Pump – Submersible	01No.
08	Curing / dewatering pump – 1.5 / 2 HP	01No.
09	Hydraulic Excavator /Poclain with rock breaker attachment (mule/rock breaker as per requirements)	As per requirement
10	Ply Shuttering board with adequate supporting structure (Old steel shuttering plates will not be allowed).	As per requirement.
11	Dumper /Tippers	As per requirement
12	Reinforcement bending machine	01No.
13	Reinforcement cutting machine	01No.
14	MS scaffolding pipe with matching nos. of couplers	12000 RM
15	Power driven earth rammer	As per requirement.
16	Total Station (Survey Instruments)	01No.
17	Auto level & staff	01No.
18	JCB	As per requirement
19	Trailers/ tractor	As per requirement
20	Conventional mixer machine	01 No.
21	Water tanker	01No.
22	Poles, cables, halogen, bulbs etc. for area illumination	As per requirement
23	Computer (Window Xp), with printer & CD writers	01 Set
24	Communication facilities, Land line, WLL, Mobile, Fax. Etc	As per requirement

(c) CIVIL WORKS - FIELD QUALITY LAB EQUIPMENTS –

- (a) Automatic compression testing machine (2000KN) – 1 no.
- (b) Cube moulds (150mm size) – 24 nos
- (c) Slump cone with tamping rod – 02no
- (d) Sieves of different sizes for fine & coarse aggregate testing – 2 sets
- (e) Core cutter test apparatus – 06sets
- (f) Oven (capacity 120ltr, range – 250c) – 1no
- (g) Moisture container(steel/aluminum) – 10nos

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

SN	DESCRIPTION
	(h) Rapid moisture meter – 4nos (i) Vicat apparatus with plungers for cement testing – 2set (j) Cube moulds (70mm size) – 10nos (k) Physical balance – 02no. (l) Jars – 4 nos.

B: MEASURING AND MONITORING DEVICES (MMD):

AS PER REQUIREMENT TO BE FINALIZED AT SITE

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.

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

BHEL WILL NOT PROVIDE ANY T & P's FOR THIS WORK

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – VI: Time Schedule

TIME SCHEDULE & MOBILIZATION

6.1.1 INITIAL MOBILIZATION AND TENTATIVE SCHEDULE

Contractor shall reach site, make his site establishment and be ready to commence the work **within two weeks from the date of fax of Letter of Intent** or as per directions of Construction Manager/ Project Manager of BHEL. **The date of start of first Excavation shall be reckoned as the start of contract period for this purpose.**

The total contract period for completion of entire work shall be **09 (Nine months)** from the date of start of work at site.

Note:

Agency should note that the construction works for TURBO BLOWER FOUNDATIONS along with its auxiliaries shall have to go parallel to match with the commissioning schedule of the plant. For this it will be necessary to deploy “Dedicated Resources” like Manpower, Machineries and Materials Area wise to execute the works simultaneously.

6.1.2

In order to meet above schedule and other intermediate targets/activities as set **by BHEL engineer in charge** at site, to meet customer requirements/project schedule, contractor shall arrange all necessary resources and work force in consultation with BHEL engineer at site to undertake works concurrently in all possible fronts as made available to contractor.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – VII: TERMS OF PAYMENT

7.00 TERMS OF PAYMENT

7.0.1 Progressive Payment (RA BILLS) for Civil, Structural and Architectural Work.

The percentage of payment for progressive completion of work in various categories of work shall be as under:

7.0.2 CIVIL AND ARCHITECTURAL WORK

A) 95% OF ITEM RATE ON PRO-RATA BASIS AGAINST EACH MONTHLY RA BILLS AS PER CL.NO 10.0 OF SCC

B) BALANCE 5% RETENTION SHALL BE RELEASE AS PER GCC CLAUSE NO. 2.22

7.0.3 STRUCTURAL WORK

A) 95% OF ITEM RATE ON PRO-RATA BASIS AGAINST MONTHLY RA BILLS AS PER CL.NO 10.0 OF SCC

B) BALANCE 5% RETENTION SHALL BE RELEASE AS PER GCC CLAUSE NO. 2.22

Schedule of rate for item no. 2302 is further divided as below:

a) Blast cleaning of steel structures to near white metal surface(Sa 2 1/2) and applying the following painting and 2 coats of phenolic modified alkyd composition with zinc phosphate primer (minimum DFT 40 microns/ coat) at shop, instead of primer coat of red oxide zinc-chromate, including touch-up painting etc all complete.----- 60% of Quoted Item rate

b) 1 coat of high gloss phenolic alkyd modified synthetic enamel paint as intermediate coat (minimum DFT-75 microns/ coat) to be painted at shop. -----20% of Quoted Item rate

c) 2 coats of high gloss phenolic alkyd modified synthetic enamel paint (minimum DFT- 25 microns/ coat) as finish paint to be applied at site, keeping total of minimum dry film thickness (DFT) 205 microns including protection and cleaning, scaffolding etc. all complete as per customer specification-----20% of Quoted Item rate.

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter-VIII: Taxes and Other Duties

8.0 TAXES, DUTIES, LEVIES (Consolidated Rev 04 dated 14/05/2015)

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

8.1.1

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

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

8.1.2 Service Tax & Cess on Service Tax

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

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

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

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

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

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VIII: Taxes and Other Duties

8.1.3 VAT (Sales Tax /WCT)

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

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

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

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

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

8.2 'Enabling Works'

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

~~However, Since the proposed work is in the nature of 'Works Contract service' as per Service tax law, Hence, For non corporate contractors being Individual, HUF, Proprietary Firm, Partnership Firm or Association of Persons (AOP), BHEL shall recover the applicable Service Tax under reverse charge mechanism from the contractor and remit the same with the Government as~~

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VIII: Taxes and Other Duties

~~per the provisions of Law. Necessary advice/confirmation of remittance shall be issued to the contractor. The contractor shall not be eligible for any refund/reimbursement of such service tax from BHEL. It shall be the responsibility of the contractor to submit proper invoice giving all the requisite details as per Service Tax Law for the determination of the service tax liability of BHEL under reverse charge mechanism. BHEL reserves the right to determine such liability based on the invoice submitted by the contractor or otherwise independently and remittance of the same with the Government.~~

8.3 New Taxes/Levies

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

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

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

8.4 BOCW Cess

The quoted rates shall be exclusive of the BOCW Cess which shall be paid extra by BHEL against Documentary evidence. However, the applicability of the BOCW Cess shall be got confirmed from BHEL in writing, before remitting such Cess/tax.

8.5 GST: As and when GST becomes applicable to this contract, the net differential (negative or positive) financial liability of the bidder to the Authorities (as compared to such liability prior to applicability of GST), if any, shall be to the account of BHEL. For this purpose, all available options under the GST shall be explored, and the decision of BHEL in this regard shall be final and binding on the bidder.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

CHAPTER IX –DRAWINGS

FOLLOWING DRAWINGS ARE ENCLOSED WITH THE TENDER.

➤ **Drawings Given by Customer / PED.**

SL. NO.	TITLE	DRAWING NO.	REV
1.	Turbo Blower Foundation general arrangement-plans	1-38142-13138 (Sheet 1/2)	0
2.	Turbo Blower Foundation general arrangement-Sections	1-38142-13138 (Sheet 2/2)	0

TECHNICAL CONDITIONS OF CONTRACT (TCC)

CHAPTER X –APPENDIX

Appendix A:

Tentative Manpower Requirement

1. Project manager – with adequate experience in Industrial Foundation, Building & Structural Works, Power Plant Civil & Structural Works.
2. Experienced Civil Engineers – 1 heads
3. Experienced Foreman / Supervisors - 4 heads
4. Planning & Billing Engineer – 01 head
5. Stores, Gate Pass – 01 heads
6. Accounts & Administration- 01 No
7. Quality Control Engineer – 1 head
8. Safety Engineer – 1 No
9. Surveyor – 01 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

TECHNICAL CONDITIONS OF CONTRACT (TCC)
CHAPTER XI –
BILL OF QUANTITY AND % WEIGHTAGES FOR ITEM RATES W.R.T
TOTAL LUMPSUM PRICE

This Chapter consists of Part B of Volume II Price bid:

1. PART B: % weightage for amount of individual items of Schedule of quantity w.r.t. the total price (as quoted by the bidder in Part C of Vol-II-Price Bid Specification)

Note: This Chapter-XI is uploaded as file titled '**Chapter XI BOQ and Percentage'-1484**