

# TENDER SPECIFICATION No.

**BHE/PW/PUR/NST-BAL BLR U 4/1550**

**BHE/PW/PUR/NST-BAL BLR U 5/1551**

FOR

HANDLING & COLLECTION OF MATERIALS AT BHEL/CLIENT'S STORAGE YARD/ STORES, TRANSPORTATION TO SITE, ERECTION, TESTING & ASSISTANCE FOR COMMISSIONING, TRIAL OPERATION AND HANDING OVER OF BOILER AND ITS AUXILIARIES, AIR PREHEATERS, DUCTS AND DAMPERS, FUEL PIPING, BOILER INTEGRAL PIPING & ASSOCIATED VALVES, ELECTROSTATIC PRECIPITATOR, FANS, POWER CYCLE PIPING, COAL MILLS AND COAL FEEDERS, INSULATION, FINAL PAINTING ETC. OF **Unit # 4 / 5** OF 5x270 MW NASIK THERMAL POWER PROJECT PHASE I.

AT

SPECIAL ECONOMIC ZONE

RATTANINDIA NASHIK POWER LTD

(Formerly known as Indiabulls RealTech Ltd)

SINNAR

DISTRICT- NASIK, MAHARASHTRA

VOLUME – II

(COMMON PRICE BID SPECIFICATION FOR UNIT # 4 AND UNIT # 5)



**BHARAT HEAVY ELECTRICALS LIMITED**

(A GOVERNMENT OF INDIA UNDERTAKING)

POWER SECTOR : WESTERN REGION

345, KINGSWAY : NAGPUR 440 001

**Bharat Heavy Electricals Limited (PSWR, Nagpur)**  
**Tender Specification no. BHE/PW/PUR/NST-BAL BLR U 4/1550 & BHE/PW/PUR/NST-BAL BLR U 5/1551**  
**Volume- II: Price Bid Specification Common for BOILER Unit-4 & Unit-5**

**HANDLING & COLLECTION OF MATERIALS AT BHEL/CLIENT'S STORAGE YARD/ STORES, TRANSPORTATION TO SITE, ERECTION, TESTING & ASSISTANCE FOR COMMISSIONING, TRIAL OPERATION AND HANDING OVER OF BOILER AND ITS AUXILIARIES, AIR PREHEATERS, DUCTS AND DAMPERS, FUEL PIPING, BOILER INTEGRAL PIPING & ASSOCIATED VALVES, ELECTROSTATIC PRECIPITATOR, FANS, POWER CYCLE PIPING, COAL MILLS AND COAL FEEDERS, INSULATION, FINAL PAINTING ETC. OF Unit # 4 / 5 OF 5x270 MW NASIK THERMAL POWER PROJECT PHASE I.**

AT

**SPECIAL ECONOMIC ZONE**  
**RATTANINDIA NASHIK POWER LTD**  
**(Formerly known as Indiabulls RealTech Ltd)**  
**SINNAR DISTRICT- NASIK, MAHARASHTRA**

EARNEST MONEY DEPOSIT: Please see Special Conditions of Contract.  
LAST DATE FOR  
TENDER SUBMISSION: Please see Notice Inviting Tender

THESE TENDER DOCUMENTS CONTAINING Volume-**I** (TECHNICAL BID SPECIFICATION) AND Volume- **II**: PRICE BID (ARE ISSUED TO:

M/s.....  
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(TENDER DOCUMENTS ARE NOT TRANSFERABLE)

FOR BHARAT HEAVY ELECTRICALS LIMITED  
AGM (Purchase)  
PLACE: NAGPUR  
DATE :

Date:

Signature & Official Seal of Bidder

**Bharat Heavy Electricals Limited (PSWR, Nagpur)**  
**Tender Specification no. BHE/PW/PUR/NST-BAL BLR U 4/1550 & BHE/PW/PUR/NST-BAL BLR U 5/1551**  
**Volume- II: Price Bid Specification Common for BOILER Unit-4 & Unit-5**

1) Schedule of Quantities and Applicable Rate per Unit of Measurement

**PART A Weight Details for Complete Erection Alignment NTDT Welding etc.**

SL.NO	Contract (Main Package)	Rate schedule Identifier	QTY of U # 4	QTY of U # 5	UNIT	Applicable Rate per Unit of measurement
1.1	Boiler	Structures	938	1312	MT	100% of 'X'
1.2	Boiler	Pressure Parts	2871	3243	MT	130% of 'X'
1.3	Boiler	Non Pressure Parts (upto ESP inlet funnel)	1541	1541	MT	110% of 'X'
2.1	RM	Rotating Machines (ID/FD/PA Fans, Mills, etc and aux)	1141	1141	MT	70% of 'X'
2.2	RM	Handling Equipments of Rotating Machines	0	0		80% of 'X'
3.1	ESP	ESP	2795	2972	MT	70% of 'X'
3.2	ESP	Non Pressure Parts (ESP outlet funnel to Chimney)	850	850	MT	110% of 'X'
4.1	PIPING	Piping-P91	236	236	MT	410% of 'X'
4.2	PIPING	Piping-AS	50	50	MT	330% of 'X'
4.3	PIPING	Piping-CS (HP)	473	473	MT	290% of 'X'
4.4	PIPING	Piping-CS (LP)	335	335	MT	240% of 'X'
4.5	PIPING	Piping-SS	1	1	MT	510% of 'X'
4.6	PIPING	Piping-Hangers and Supports	268	268	MT	140% of 'X'
4.7	PIPING	Piping-Temporary (Steam Blowing)	50	50	MT	90% of 'X'
4.8	PIPING	Piping-Temporary (Chemical Cleaning)	80	140	MT	90% of 'X'
5.1	INSULATION	Insulation	1	1	MT	150% of 'X'
5.2	INSULATION	Pourable and castable	210	210	MT	60% of 'X'

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**Volume- II: Price Bid Specification Common for BOILER Unit-4 & Unit-5**

SL.NO	Contract (Main Package)	Rate schedule Identifier	QTY of U # 4	QTY of U # 5	UNIT	Applicable Rate per Unit of measurement
5.3	INSULATION	Iron parts	93	93	MT	130% of 'X'
5.4	INSULATION	Aluminium Cladding sheets	68	68	MT	140% of 'X'
5.5	INSULATION	Wool Mattress	529	529	MT	90% of 'X'
<b>PART C Weight Details for PAINTING OF Entire Boiler</b>						
	PAINTING	Painting	7043	7043	MT	6% of 'X'

Note:

1. Rate per Unit of measurement as calculated above shall be rounded off to the nearest whole number
2. X : is the Single Notional Rate per UOM quoted by Bidder in the Price Bid
3. Part B are the schedule of rates & Quantities for the job which is partly executed. Rates against this portion of work is fixed by BHEL and contractor shall not quote any separate price for the same.

**PART B (Fixed part for partly executed job) for Unit #4**

S No.	Description	Allignment, Bolting, Grouting & Welding			Leak Test, NDT, Heat Treatment, equipment trial run			Total (In Rs.)
		Weight (In MT)	Rate per MT	Amount (In Rs.)	Weight (In MT)	Rate per MT	Amount (In Rs.)	
1	Structures	132.05	6993	923426	212.38	389	82616	1006042
2	Pressure Parts	313.93	7770	2439236	317.35	1457	462379	2901615
3	ESP	238.99	4196	1002802	375.71	389	146151	1148953
	<b>Total</b>	<b>684.98</b>		<b>4365464</b>	<b>905.44</b>		<b>691146</b>	<b>5056610</b>

Date:

Signature & Official Seal of Bidder

**Bharat Heavy Electricals Limited (PSWR, Nagpur)**  
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**PART B (Fixed part for partly executed job) for Unit #5**

S No.	Description	Allignment, Bolting, Grouting & Welding			Leak Test, NDT, Heat Treatment, equipment trial run			Total (In Rs.)
		Weight (In MT)	Rate per MT	Amount (In Rs.)	Weight (In MT)	Rate per MT	Amount (In Rs.)	
1	Structures	165.40	6993	1156642	192.04	389	74704	1231346
2	ESP	92.94	4895	454941	92.94	389	36154	491095
	<b>Total</b>	<b>258.34</b>		<b>1611583</b>	<b>284.98</b>		<b>110858</b>	<b>1722441</b>

Date:

Signature & Official Seal of Bidder

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**Volume- II: Price Bid Specification Common for BOILER Unit-4 & Unit-5**

**Example for Deriving Unit Rate of Part A and Part C:-**

Say Rs 10,537.77 is the notional rate (“X”) in Rupees per UOM quoted by the bidder in the price bid.  
The applicable rate per MT for items referred in above table shall be as calculated below:

SL.NO	Contract (Main Package)	Rate schedule Identifier	Applicable rate per MT (rounded off to nearest integer)
1.1	Boiler	Structures	90% of Rs 10,537.77 = Rs 9484/-
1.2	Boiler	Pressure Parts	130% of Rs 10,537.77 = Rs 13,699/-
1.3	Boiler	Non Pressure Parts (upto ESP inlet funnel)	110% of Rs 10,537.77 = Rs 11,592 /-
2.1	RM	Rotating Machines (ID/FD/PA Fans, Mills, etc and aux)	70% of Rs 10,537.77 = Rs 7,376/-
2.2	RM	Handling Equipments of Rotating Machines	80% of Rs 10,537.77 = Rs 8,430/-
3.1	ESP	ESP	70% of Rs 10,537.77 = Rs 7,376/-
3.2	ESP	Non Pressure Parts (ESP outlet funnel to Chimney)	110% of Rs 10,537.77 = Rs 11,592 /-
4.1	PIPING	Piping-P91	410% of Rs 10,537.77 = Rs 43,205/-
4.2	PIPING	Piping-AS	330% of Rs 10,537.77 = Rs 34,775/-
4.3	PIPING	Piping-CS (HP)	290% of Rs 10,537.77 = Rs 30,560/-
4.4	PIPING	Piping-CS (LP)	240% of Rs 10,537.77 = Rs 25,291/-
4.5	PIPING	Piping-SS	510% of Rs 10,537.77 = Rs 53,743/-
4.6	PIPING	Piping-Hangers and Supports	140% of Rs 10,537.77 = Rs 14,753/-
4.7	PIPING	Piping-Temporary (Steam Blowing)	90% of Rs 10,537.77 = Rs 9484/-
4.8	PIPING	Piping-Temporary (Chemical Cleaning)	90% of Rs 10,537.77 = Rs 9484/-
5.1	INSULATION	Insulation	150% of Rs 10,537.77 = Rs 15,807/-
5.2	INSULATION	Pourable and castable	60% of Rs 10,537.77 = Rs 6,323/-
5.3	INSULATION	Iron parts	130% of Rs 10,537.77 = Rs 13,699/-
5.4	INSULATION	Aluminium Cladding sheets	140% of Rs 10,537.77 = Rs 14,753/-
5.5	INSULATION	Wool Mattress	90% of Rs 10,537.77 = Rs 9484/-
Part C	PAINTING	Painting	6% of Rs 10,537.77 = Rs 632 /-

Date:

Signature & Official Seal of Bidder

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**2 : PRICE BID FOR PART A & PART C**

Note :

1. Notional Rate “X” shall be quoted in Rupees and shall be up to a maximum of 2 decimal places; for example Rs 10,537.77

SN	Description / Item of Work	Single Notional Rate “X” in Rupees per MT	
		In Figures	In words
1	Erection, Testing, Assistance for Commissioning etc of <b>UNIT- 4 &amp; Unit 5 Boiler</b> –Vertical Pkg as per scope of work detailed in Tender Specification. <b>(Single Notional Rate for Part A &amp; Part C Jobs of this price bid specification )</b>		

2. After Price Bid opening, and in case of a tie among two or more bidders in L-I rates (i.e quoting exactly the same LEAST notional rate
3. “X” in Rupees per MT), then these bidders shall be intimated separately to submit rebate in Rupees (upto a maximum of two decimal places) in a ‘SEALED ENVELOPE’. The L-I shall be the party who offers the maximum rebate and the new notional rate shall be “X” less the rebate offered.
4. In case of further tie, process of sl no 2 is repeated so as to arrive at a single L-I Notional rate
5. Total amount for the work **(PART A & PART C)** shall be the summation of amounts obtained by multiplying respective item ‘Quantities’ to the applicable rate per MT (Obtained from single notional rate as explained in the Example above).
6. **Total cost for the entire scope of work shall be based on the summation of total amount for Part A & Part C job (as per Sl No 4 above) and total amount fixed by BHEL for Part B job.**

Date:

Signature & Official Seal of Bidder