

# **TENDER SPECIFICATION**

**NO BHE/PW/PUR/AMRT –BAL BLR U # 4/1247**

**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, CHEMICAL  
DOZING SYSTEM, FINAL PAINTING ETC. OF Unit # 4 OF 5x270 MW AMRAVATI  
THERMAL POWER PROJECT PHASE I.**

**AT**

**ADDITIONAL AMRAVATI INDUSTRIAL AREA,**

**INDIABULLS POWER LTD**

**NANDGAONPETH,**

**DIST- AMRAVATI**

**MAHARASHTRA**

**VOLUME – II**

**(PRICE BID SPECIFICATION)**



**BHARAT HEAVY ELECTRICALS LIMITED**

**(A GOVERNMENT OF INDIA UNDERTAKING)**

**POWER SECTOR : WESTERN REGION**

**345, KINGSWAY : NAGPUR 440 001**

**TENDER SPECIFICATION**  
**NO BHE/PW/PUR/AMRT –BAL BLR U # 4/1247**

**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, FINAL PAINTING ETC. OF Unit # 4 OF 5x270 MW AMRAVATI THERMAL POWER PROJECT PHASE I.**

**AT**  
**ADDITIONAL AMRAVATI INDUSTRIAL AREA,**  
**INDIABULLS POWER LTD**  
**NANDGAONPETH,**  
**DIST- AMRAVATI**  
**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 :

**Bharat Heavy Electricals Limited (PSWR, Nagpur)**  
**Tender Specification no. BHE/PW/PUR/AMRT –BAL BLR U # 4/1247**  
**Volume- II: Price Bid**

**Part A: COMPLETE ERECTION, ALIGNMENT, NDT & WELDING etc.**

A.1 : Schedule of Quantities and Applicable Rate per Unit of Measurement

SL.NO	Contract (Main Package)	Rate schedule Identifier	QTY	UNIT	Applicable Rate per Unit of measurement
1.1	Boiler	Structures	1141	MT	90% of 'X'
1.2	Boiler	Pressure Parts	98	MT	115% of 'X'
1.3	Boiler	Non Pressure Parts (upto ESP inlet funnel)	1717	MT	95% of 'X'
2.1	RM	Rotating Machines (ID/FD/PA Fans, Mills, etc and aux)	861	MT	60% of 'X'
3.1	ESP	ESP	411	MT	65% of 'X'
4.1	PIPING	Piping-P91	134	MT	365% of 'X'
4.2	PIPING	Piping-AS	37	MT	280% of 'X'
4.3	PIPING	Piping-CS (HP)	191	MT	245% of 'X'
4.4	PIPING	Piping-CS (LP)	401	MT	210% of 'X'
4.5	PIPING	Piping-SS	1	MT	435% of 'X'
4.6	PIPING	Piping-Hangers and Supports	273	MT	125% of 'X'
4.7	PIPING	Piping-Temporary (Steam Blowing)	25	MT	80% of 'X'
4.8	PIPING	Piping-Temporary (Chemical Cleaning)	20	MT	80% 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

**Bharat Heavy Electricals Limited (PSWR, Nagpur)**  
**Tender Specification no. BHE/PW/PUR/AMRT –BAL BLR U # 4/1247**  
**Volume- II: Price Bid**

**Example:-**

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	115% of Rs 10,537.77 = Rs 12,118/-
1.3	Boiler	Non Pressure Parts (upto ESP inlet funnel)	95% of Rs 10,537.77 = Rs 10,010/-
2.1	RM	Rotating Machines (ID/FD/PA Fans, Mills, etc and aux)	60% of Rs 10,537.77 = Rs 6,323/-
3.1	ESP	ESP	65% of Rs 10,537.77 = Rs 6,850/-
4.1	PIPING	Piping-P91	365% of Rs 10,537.77 = Rs 38,463/-
4.2	PIPING	Piping-AS	280% of Rs 10,537.77 = Rs 29,506/-
4.3	PIPING	Piping-CS (HP)	245% of Rs 10,537.77 = Rs 25,818/-
4.4	PIPING	Piping-CS (LP)	210% of Rs 10,537.77 = Rs 22,129/-
4.5	PIPING	Piping-SS	435% of Rs 10,537.77 = Rs 45,839/-
4.6	PIPING	Piping-Hangers and Supports	125% of Rs 10,537.77 = Rs 13,172/-
4.7	PIPING	Piping-Temporary (Steam Blowing)	80% of Rs 10,537.77 = Rs 8,430/-
4.8	PIPING	Piping-Temporary (Chemical Cleaning)	80% of Rs 10,537.77 = Rs 8,430/-

Date:

Signature & Official Seal of Bidder

**Bharat Heavy Electricals Limited (PSWR, Nagpur)**  
**Tender Specification no. BHE/PW/PUR/AMRT –BAL BLR U # 4/1247**  
**Volume- II: Price Bid**

**A.2 : PRICE BID**

SN	Description / Item of Work	Single Notional Rate “X” in Rupees per MT	
		In Figures	In words
1	<b>SINGLE NOTIONAL RATE FOR E T &amp; C OF BALANCE UNIT # 4 BOILER WORKS FOR THE ITEMS UNDER PART A OF ANNEXURE I ‘WEIGHT DETAILS’ OF VOL I A TCC AS DETAILED IN T.S.NO BHE/PW/PUR/AMRT-BAL BLR U # 4/1247</b>		

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
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 “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.
3. In case of further tie, process of sl no 2 is repeated so as to arrive at a single L-I Notional rate
4. Total amount for the work 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).

Date:

Signature & Official Seal of Bidder

**Bharat Heavy Electricals Limited (PSWR, Nagpur)**  
**Tender Specification no. BHE/PW/PUR/AMRT –BAL BLR U # 4/1247**  
**Volume- II: Price Bid**

**Part: B (Fixed part for partly executed job)**

S No.	Description	Existing Rate per MT	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	14000	45	6300	283500	45	420	18900	302400
2	Pressure Parts	17500	166	7000	1162000	166	1575	261450	1423450
3	Non Pressure Parts	14000	83	6300	522900	147	700	102900	625800
4	Rotating M/c including trial run	8400	381	3780	1440180	711	420	298620	1738800
5	ESP	8400	678	3780	2562840	678	420	284760	2847600
6	PIPING including HT	35000	60	19250	1155000	60	5250	315000	1470000
	<b>Total</b>		<b>1413</b>		<b>7126420</b>	<b>1807</b>		<b>1281630</b>	<b>8408050</b>
<b>Total Part B:</b>									<b>84,12,099</b>

NOTE:

1. BIDDER SHALL NOT QUOTE SEPARATE RATE FOR THE ITEMS INDICATED IN PART B OF PRICE BID
2. EVALUATION SHALL BE DONE AS PER THE LOWEST QUOTED SINGLE NOTIONAL RATE IN PART A OF THE PRICE BID. ORDER SHALL BE RELEASED ON SUM TOTAL OF THE TOTAL PRICE DERIVED BASED ON FINAL ACCEPTED SINGLE NOTIONAL PRICE (AS PER NOTE 4 IN A.2 OF PRICE BID) AND THE PRICE FIXED IN PART B

Date:

Signature & Official Seal of Bidder