

TENDER SPECIFICATION

NO: BHE/PW/PUR/AMRT –BAL BLR U3&5/1253

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 # 3 & 5 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 U3&5/1253

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 # 3 & 5 OF 5x270 MW AMRAVATI THERMAL POWER PROJECT PHASE I.**

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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 U3&5/1253
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	1972	MT	90% of 'X'
1.2	Boiler	Pressure Parts	234	MT	115% of 'X'
1.3	Boiler	Non Pressure Parts (upto ESP inlet funnel)	2271	MT	95% of 'X'
2.1	RM	Rotating Machines	1784	MT	60% of 'X'
2.2	RM	Handling Equipments of Rotating Machine	26	MT	70% of 'X'
3.1	ESP	ESP	402	MT	65% of 'X'
3.2	ESP	NON PRESSURE PARTS (ESP outlet funnel to chimney)	219	MT	95% of 'X'
4.1	PIPING	Piping-P91	312	MT	365% of 'X'
4.2	PIPING	Piping-AS	157	MT	280% of 'X'
4.3	PIPING	Piping-CS (HP)	331	MT	245% of 'X'
4.4	PIPING	Piping-CS (LP)	533	MT	210% of 'X'
4.5	PIPING	Piping-SS	3	MT	435% of 'X'
4.6	PIPING	Piping-Hangers and Supports	518	MT	125% of 'X'
4.7	PIPING	Piping-Temporary (Steam Blowing)	50	MT	80% of 'X'
4.8	PIPING	Piping-Temporary (Chemical Cleaning)	40	MT	80% of 'X'
5.1	INSULATION	Insulation-Pourable & Castable	220	MT	55% of 'X'
5.2	INSULATION	Insulation- Fixing Components Iron Parts	210	MT	120% of 'X'
5.3	INSULATION	Insulation- Aluminum Cladding Sheets	130	MT	125% of 'X'

Bharat Heavy Electricals Limited (PSWR, Nagpur)
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SL.NO	Contract (Main Package)	Rate schedule Identifier	QTY	UNIT	Applicable Rate per Unit of measurement
5.4	INSULATION	Insulation- Wool Mattress	821	MT	85% 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

Date:

Signature & Official Seal of Bidder

Bharat Heavy Electricals Limited (PSWR, Nagpur)
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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/-
2.2	RM	Handling Equipments of Rotating Machines	70% of Rs 10,537.77 = Rs 7,376/-
3.1	ESP	ESP	65% of Rs 10,537.77 = Rs 6,850/-
3.2	ESP	Non Pressure Parts (ESP outlet funnel to Chimney)	95% of Rs 10,537.77 = Rs 10,010/-
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/-
5.1	INSULATION	Pourable and castable	55% of Rs 10,537.77 = Rs 5,796/-
5.2	INSULATION	Iron parts	120% of Rs 10,537.77 = Rs 12,645/-
5.3	INSULATION	Aluminium Cladding sheets	125% of Rs 10,537.77 = Rs 13,172/-
5.4	INSULATION	Wool Mattress	85% of Rs 10,537.77 = Rs 8,957/-

Date:

Signature & Official Seal of Bidder

Bharat Heavy Electricals Limited (PSWR, Nagpur)
Tender Specification no. BHE/PW/PUR/AMRT –BAL BLR U3&5/1253
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	SINGLE NOTIONAL RATE FOR E T & C OF BALANCE UNIT # 3 and Unit# 5 of 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 U3&5/1253		

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 U3&5/1253
Volume- II: Price Bid

Part: B (Fixed part for partly executed job)

S No.	Description	Existing Rate per MT	Alignment, 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.)	
For Unit # 5									
1	Structures	13750	94	6188	581625	162	413	66825	6,48,450
2	Pressure Parts	17188	682	6875	4688886	940	1547	1454105	61,42,991
3	Non Pressure Parts	13750	141	6188	872438	279	688	191813	10,64,250
4	Rotating M/c including trial run	8250	0	3713	0	0	413	0	-
5	ESP	8250	1120	3713	4158000	2496	413	1029600	51,87,600
6	PIPING including HT	34375	0	18906	0	0	5156	0	-
7	LINING & INSULATION	11000	0	4950	0	0	550	0	-
	Total		2037		10300949	3877		2742343	1,30,43,291
For Unit # 3									
1	Structures	13750	109	6188	674438	148	413	61050	7,35,488
2	Pressure Parts	17188	8	6875	55002	14	1547	21657	76,658
3	Non Pressure Parts	13750	182	6188	1126125	1000	688	687500	18,13,625
4	Rotating M/c including trial run	8250	581	3713	2156963	1051	413	433538	25,90,500
5	ESP	8250	101	3713	374963	115	413	47438	4,22,400
6	PIPING including HT	34375	130	18906	2457813	608	5156	3135000	55,92,813
7	LINING & INSULATION	11000	0	4950	0	277	550	152350	1,52,350

Date:

Signature & Official Seal of Bidder

Bharat Heavy Electricals Limited (PSWR, Nagpur)
Tender Specification no. BHE/PW/PUR/AMRT –BAL BLR U3&5/1253
Volume- II: Price Bid

	Total		1111		6845304		3213		4538533	1,13,83,834
Total Part B:										2,44,27,125

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