

TENDER SPECIFICATION

No BHE/PW/PUR/NST-BAL BLR U -3/1549

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

AT

SPECIAL ECONOMIC ZONE

INDIA BULLS POWER LTD

SINNARDISTRICT- NASIK, MAHARASHTRA.

VOLUME – II

(PRICE BID SPECIFICATION)



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 -3/1549
Volume- II: Price Bid Specification for BOILER Unit-3

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 # 3	UNIT	Applicable Rate per Unit of measurement
1.1	Boiler	Structures	790	MT	100% of 'X'
1.2	Boiler	Pressure Parts	697	MT	130% of 'X'
1.3	Boiler	Non Pressure Parts (upto ESP inlet funnel)	1499	MT	110% of 'X'
2.1	RM	Rotating Machines (ID/FD/PA Fans, Mills, etc and aux)	1141	MT	70% of 'X'
2.2	RM	Handling Equipments of Rotating Machines	0		80% of 'X'
3.1	ESP	ESP	356	MT	70% of 'X'
3.2	ESP	Non Pressure Parts (ESP outlet funnel to Chimney)	803	MT	110% of 'X'
4.1	PIPING	Piping-P91	228	MT	410% of 'X'
4.2	PIPING	Piping-AS	46	MT	330% of 'X'
4.3	PIPING	Piping-CS (HP)	472	MT	290% of 'X'
4.4	PIPING	Piping-CS (LP)	335	MT	240% of 'X'
4.5	PIPING	Piping-SS	1	MT	510% of 'X'
4.6	PIPING	Piping-Hangers and Supports	268	MT	140% of 'X'
4.7	PIPING	Piping-Temporary (Steam Blowing)	50	MT	90% of 'X'
4.8	PIPING	Piping-Temporary (Chemical Cleaning)	121	MT	90% of 'X'
5.1	INSULATION	Insulation	1	MT	150% of 'X'
5.2	INSULATION	Pourable and castable	210	MT	60% of 'X'
5.3	INSULATION	Iron parts	93	MT	130% of 'X'
5.4	INSULATION	Aluminium Cladding sheets	68	MT	140% of 'X'

Date:

Signature & Official Seal of Bidder

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SL.NO	Contract (Main Package)	Rate schedule Identifier	QTY of U # 3	UNIT	Applicable Rate per Unit of measurement
5.5	INSULATION	Wool Mattress	529	MT	90% of 'X'
PART C Weight Details for PAINTING OF Entire Boiler U # 3					
	PAINTING	Painting	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 as below and contractor shall not quote any separate price for the same.

PART B (Fixed part for partly executed job) Unit # 3

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	21.29	6993	148881	38.81	466	18085	166966
2	Pressure Parts	5.74	7770	44600	144.83	1748	253163	297763
3	Non Pressure Parts	97.62	6993	682657	169.07	777	131367	814024
4	Rotating M/c including trial run	54.12	4196	227088	54.12	466	25220	252308
5	ESP	194.16	4196	814695	194.16	466	90479	905174
6	PIPING including HT	14.82	21368	316581	14.82	5828	86371	402952
	Total	387.75		2234502			604685	2839187

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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

Bharat Heavy Electricals Limited (PSWR, Nagpur)
Tender Specification no. BHE/PW/PUR/NST-BAL BLR U -3/1549
Volume- II: Price Bid Specification for BOILER Unit-3

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 UNIT- 3 Boiler –Vertical Pkg as per scope of work detailed in Tender Specification. (Single Notional Rate for Part A & PART C Jobs of this price bid specification)		

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 **(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).
5. **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