

TENDER SPECIFICATION

No BHE/PW/PUR/NST-BLR U 4/1368

No BHE/PW/PUR/NST-BLR U 5/1369

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 & Unit # 5** 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-BLR U 4/1368 & BHE/PW/PUR/NST-BLR U 5/1369

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 INDIA BULLS POWER LTD

SINNARDISTRICT- 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-BLR U 4/1368 & BHE/PW/PUR/NST-BLR U 5/1369

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

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

A) PART A Weight Details for Complete Erection Alignment NTD T 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	927	1314	MT	90% of 'X'
1.2	Boiler	Pressure Parts	2914	3269	MT	115% of 'X'
1.3	Boiler	Non Pressure Parts (upto ESP inlet funnel)	1550	1408	MT	95% of 'X'
2.1	RM	Rotating Machines (ID/FD/PA Fans, Mills, etc and aux)	1119	1261	MT	60% of 'X'
2.2	RM	Handling Equipments of Rotating Machines	0	0		70% of 'X'
3.1	ESP	ESP	2847	2948	MT	65% of 'X'
3.2	ESP	Non Pressure Parts (ESP outlet funnel to Chimney)	850	850	MT	95% of 'X'
4.1	PIPING	Piping-P91	282	282	MT	365% of 'X'
4.2	PIPING	Piping-AS	19	19	MT	280% of 'X'
4.3	PIPING	Piping-CS (HP)	456	456	MT	245% of 'X'
4.4	PIPING	Piping-CS (LP)	335	335	MT	210% of 'X'
4.5	PIPING	Piping-SS	1	1	MT	435% of 'X'
4.6	PIPING	Piping-Hangers and Supports	268	268	MT	125% of 'X'
4.7	PIPING	Piping-Temporary (Steam Blowing)	25	25	MT	80% of 'X'
4.8	PIPING	Piping-Temporary (Chemical Cleaning)	20	20	MT	80% of 'X'
5.1	INSULATION	Insulation	1	1	MT	135% of 'X'
5.2	INSULATION	Pourable and castable	210	210	MT	55% of 'X'
5.3	INSULATION	Iron parts	92	92	MT	120% of 'X'
5.4	INSULATION	Aluminium Cladding sheets	68	68	MT	125% of 'X'
5.5	INSULATION	Wool Mattress	529	529	MT	85% of 'X'

Date:

Signature & Official Seal of Bidder

Bharat Heavy Electricals Limited (PSWR, Nagpur)

Tender Specification no. BHE/PW/PUR/NST-BLR **U 4/1368** & BHE/PW/PUR/NST-BLR **U 5/1369**

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

Part: B (Fixed part for partly executed job) for Unit #4

S No.	Description	Rate / 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.)	
1	Structures	17871	43.69	8042	351370	143.06	389	55580	4,06,950
2	Pressure Parts	22339	237.70	8936	2124004	309.60	1457	451061	25,75,065
3	ESP	10723	174.78	4825	843355	367.86	389	142912	9,86,268
	Total		456.17		3318729	820.52		649553	39,68,283

Part: B (Fixed part for partly executed job) for Unit #5

S No.	Description	Rate / 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.)	
1	Structures	17871	115.81	8042	931351	266.50	389	103535	10,34,886
2	ESP	10723	108.18	4825	521994	108.18	389	42028	5,64,022
	Total		223.99		1453345	374.68		145564	15,98,909

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.**

Date:

Signature & Official Seal of Bidder

Bharat Heavy Electricals Limited (PSWR, Nagpur)

Tender Specification no. BHE/PW/PUR/NST-BLR U 4/1368 & BHE/PW/PUR/NST-BLR U 5/1369

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

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	Insulation	135% of Rs 10,537.77 = Rs 14,226/-
5.2	INSULATION	Pourable and castable	55% of Rs 10,537.77 = Rs 5,796/-
5.3	INSULATION	Iron parts	120% of Rs 10,537.77 = Rs 12,645/-
5.4	INSULATION	Aluminium Cladding sheets	125% of Rs 10,537.77 = Rs 13,172/-
5.5	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/NST-BLR U 4/1368 & BHE/PW/PUR/NST-BLR U 5/1369

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

2 : PRICE BID FOR PART A

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- 4 & Unit 5 Boiler – Vertical Pkg as per scope of work detailed in Tender Specification. (Single Notional Rate for Part A Jobs of this price bid specification)		

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 **(PART A)** 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 job (as per SI No 4 above) and total amount fixed by BHEL for Part B job.**

Date:

Signature & Official Seal of Bidder