

TENDER SPECIFICATION

Sl No	Tender Specification Number	Unit Number
1	BHE/PW/PUR/ MANUT-BLR U # 1/1495	270 MW Boiler Unit # 1
2	BHE/PW/PUR/ MANUT-BLR U # 2/1496	270 MW Boiler Unit # 2
3	BHE/PW/PUR/ MANUT-BLR U # 3/1497	270 MW Boiler Unit # 3
4	BHE/PW/PUR/ MANUT-BLR U # 4/1498	270 MW Boiler Unit # 4

COLLECTION OF MATERIALS FROM BHEL/CLIENT'S STORES/STORAGE YARD; TRANSPORTATION TO SITE ; ERECTION , TESTING & ASSISTANCE FOR COMMISSIONING, TRIAL OPERATION AND HANDING OVER OF BOILER AND ITS AUXILIARIES, AIR PREHEATERS, DUCTS AND DAMPERS UP TO ESP INLET FUNNEL, FUEL PIPING, BOILER INTEGRAL PIPING & ASSOCIATED VALVES, FANS, POWER CYCLE PIPING, LP PIPING, REGENERATIVE PIPING, COAL MILLS AND COAL FEEDERS, DEAERATOR, CHEMICAL DOZING SYSTEM, INSULATION, FINAL PAINTING ETC OF 1x270 MW MANUGURU THERMAL POWER PROJECT

AT

4X270 MW MANUGURU TPS TSGENCO

AT

MANUGURU, DISTT. - KHAMMAM, TELANGANA

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

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COLLECTION OF MATERIALS FROM BHEL/CLIENT'S STORES/STORAGE YARD; TRANSPORTATION TO SITE ; ERECTION , TESTING & ASSISTANCE FOR COMMISSIONING, TRIAL OPERATION AND HANDING OVER OF BOILER AND ITS AUXILIARIES, AIR PREHEATERS, DUCTS AND DAMPERS UP TO ESP INLET FUNNEL, FUEL PIPING, BOILER INTEGRAL PIPING & ASSOCIATED VALVES, FANS, POWER CYCLE PIPING, LP PIPING, REGENERATIVE PIPING, COAL MILLS AND COAL FEEDERS, DEAERATOR, CHEMICAL DOZING SYSTEM, INSULATION, FINAL PAINTING ETC OF 1x270 MW MANUGURU THERMAL POWER PROJECT

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4X270 MW MANUGURU TPS TSGENCO

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MANUGURU, DISTT. - KHAMMAM, TELANGANA

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/MANUT-BLR)/1495-1496/1497/1498
Volume- II: Price Bid Specification for ONE BOILER

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A : Schedule of Quantities and Applicable Rate per Unit of Measurement For Entire Scope of Work

SL.NO	Contract (Main Package)	Rate schedule Identifier	QTY of One Unit	UNIT	Total Rate per Unit of measurement (A)	PG MAs covered	Rate per Unit for Supply order of Paints (B)	Rate per Unit for E&C order (C)
1.1	Boiler	Structures	3236	MT	90% of 'X'	35,36,38	1.13 % of Column A rounded off to the nearest whole number	Column A – (minus) Column B
1.2	Boiler	Pressure Parts	3363	MT	115% of 'X'	04, 05, 06, 07, 08, 09, 10,11, 12,15, 16, 17, 19, 21, 24 (part), 28, 31, 32, 42, 45, 52, mtm pads and clamps of 97,	0 (Zero)	Column A – (minus) Column B
1.3	Boiler	Non Pressure Parts (upto ESP inlet funnel)	1828	MT	95% of 'X'	30,41,43,47,48 (part), 57, 80 (part), 81(part), 99 (part)	1.13 % of A rounded off to the nearest whole number	Column A – (minus) Column B
2.1	RM	Rotating Machines (ID/FD/PA Fans, Mills, etc and aux)	903	MT	60% of 'X'	55,56,61,62,65,67,99 (part)	1.13 % of A rounded off to the nearest whole number	Column A – (minus) Column B
2.2	RM	Handling Equipments of Rotating Machines	10		70% of 'X'	99 (part)	1.13 % of A rounded off to the nearest whole number	Column A – (minus) Column B
3.1	ESP	ESP	0	MT	65% of 'X'	Not covered in the scope of subject tender	Not Applicable	Not Applicable
3.2	ESP	Non Pressure Parts (ESP outlet funnel to Chimney)	0	MT	95% of 'X'	Not covered in the scope of subject tender	Not Applicable	Not Applicable
4.1	PIPING	Piping-P91	276	MT	365% of 'X'	24,80, 81	1.13 % of A rounded off to the nearest whole number	Column A – (minus) Column B
4.2	PIPING	Piping-AS	32	MT	280% of 'X'	24, 80	1.13 % of A rounded off to the nearest whole number	Column A – (minus) Column B
4.3	PIPING	Piping-CS (HP)	223	MT	245% of 'X'	80, 81	1.13 % of A rounded off	Column A – (minus)

Bharat Heavy Electricals Limited (PSWR, Nagpur)
Tender Specification no. BHE/PW/PUR/MANUT-BLR)/1495-1496/1497/1498
Volume- II: Price Bid Specification for ONE BOILER

SL.NO	Contract (Main Package)	Rate schedule Identifier	QTY of One Unit	UNIT	Total Rate per Unit of measurement (A)	PG MAs covered	Rate per Unit for Supply order of Paints (B)	Rate per Unit for E&C order (C)
							to the nearest whole number	Column B
4.4	PIPING	Piping-CS (LP)	579	MT	210% of 'X'		1.13 % of A rounded off to the nearest whole number	Column A – (minus) Column B
4.5	PIPING	Piping-SS	1	MT	435% of 'X'	80,81	1.13 % of A rounded off to the nearest whole number	Column A – (minus) Column B
4.6	PIPING	Piping-Hangers and Supports	300	MT	125% of 'X'	80	1.13 % of A rounded off to the nearest whole number	Column A – (minus) Column B
4.7	PIPING	Piping-Temporary (Steam Blowing)	25	MT	80% of 'X'		0 (Zero)	Column A – (minus) Column B
4.8	PIPING	Piping-Temporary (Chemical Cleaning)	20	MT	80% of 'X'		0 (Zero)	Column A – (minus) Column B
5.1	INSULATION	Wool Mattress	467	MT	85% of 'X'		0 (Zero)	Column A – (minus) Column B
5.2	INSULATION	Pourable and castable	222	MT	55% of 'X'		0 (Zero)	Column A – (minus) Column B
5.3	INSULATION	Iron parts	35	MT	120% of 'X'		0 (Zero)	Column A – (minus) Column B
5.4	INSULATION	Aluminium Cladding sheets	66	MT	125% of 'X'		0 (Zero)	Column A – (minus) Column B

Note:

- 2) Total Rate per Unit of measurement as calculated in Column A above shall be rounded off to the nearest whole number
- 3) 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)
Tender Specification no. BHE/PW/PUR/MANUT-BLR)/1495-1496/1497/1498
Volume- II: Price Bid Specification for ONE BOILER

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 Total rate per MT (rounded off to nearest integer) (A)	Rate per Unit for Supply order of Paints (B)	Rate per Unit for E&C order (C)
1.1	Boiler	Structures	90% of Rs 10,537.77 = Rs 9484/-	Rs 107	Rs 9377 /-
1.2	Boiler	Pressure Parts	115% of Rs 10,537.77 = Rs 12,118/-	Rs 0	Rs 12,118 /-
1.3	Boiler	Non Pressure Parts (upto ESP inlet funnel)	95% of Rs 10,537.77 = Rs 10,010/-	Rs 113	Rs 9897 /-
2.1	RM	Rotating Machines (ID/FD/PA Fans, Mills, etc and aux)	60% of Rs 10,537.77 = Rs 6,323/-	Rs 71	Rs 6252 /-
2.2	RM	Handling Equipments of Rotating Machines	70% of Rs 10,537.77 = Rs 7,376/-	Rs 83	Rs 7293 /-
3.1	ESP	ESP	Not Applicable	Not Applicable	Not Applicable
3.2	ESP	Non Pressure Parts (ESP outlet funnel to Chimney)	Not Applicable	Not Applicable	Not Applicable
4.1	PIPING	Piping-P 91	365% of Rs 10,537.77 = Rs 38,463/-	Rs 435	Rs 38028 /-
4.2	PIPING	Piping-AS	280% of Rs 10,537.77 = Rs 29,506/-	Rs 333	Rs 29173 /-
4.3	PIPING	Piping-CS (HP)	245% of Rs 10,537.77 = Rs 25,818/-	Rs 292	Rs 25526 /-
4.4	PIPING	Piping-CS (LP)	210% of Rs 10,537.77 = Rs	Rs 250	Rs 21879 /-

Date:

Signature & Official Seal of Bidder

Bharat Heavy Electricals Limited (PSWR, Nagpur)
Tender Specification no. BHE/PW/PUR/MANUT-BLR)/1495-1496/1497/1498
Volume- II: Price Bid Specification for ONE BOILER

			22,129/-		
4.5	PIPING	Piping-SS	435% of Rs 10,537.77 = Rs 45,839/-	Rs 518	Rs 45321 /-
4.6	PIPING	Piping-Hangers and Supports	125% of Rs 10,537.77 = Rs 13,172/-	Rs 149	Rs 13023
4.7	PIPING	Piping-Temporary (Steam Blowing)	80% of Rs 10,537.77 = Rs 8,430/-	Rs 0	Rs 8,430/-
4.8	PIPING	Piping-Temporary (Chemical Cleaning)	80% of Rs 10,537.77 = Rs 8,430/-	Rs 0	Rs 8,430/-
5.1	INSULATION	Insulation	85% of Rs 10,537.77 = Rs 8,957/-	Rs 0	Rs 8,957/-
5.2	INSULATION	Pourable and castable	55% of Rs 10,537.77 = Rs 5,796/-	Rs 0	Rs 5,796/-
5.3	INSULATION	Iron parts	120% of Rs 10,537.77 = Rs 12,645/-	Rs 0	Rs 12,645/-
5.4	INSULATION	Aluminium Cladding sheets	125% of Rs 10,537.77 = Rs 13,172/-	Rs 0	Rs 13,172/-

Date:

Signature & Official Seal of Bidder

Bharat Heavy Electricals Limited (PSWR, Nagpur)
Tender Specification no. BHE/PW/PUR/MANUT-BLR)/1495-1496/1497/1498
Volume- II: Price Bid Specification for ONE BOILER

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IMPORTANT INFORMATION

- a) BHEL shall place separate supply order of Paints on the successful contractor as per Clause No 16.16 of Volume IA 'Technical Conditions of Contract'.
- b) Contractors claim for supply of paints shall be limited to the above rates per ton of work executed, but the invoices shall be in terms of litres of paints, primers etc. However total value claimed should not exceed the value derived as per above formulae.
- c) The claim for supply of paints shall not exceed the painting tonnage certified in the Measurement books.
- d) Since the quoted prices are inclusive of taxes, for supply of paint, contractor shall raise VAT Invoice of the respective state where the project is being executed failing which the applicable VAT amount shall be recovered from the contractor. In case of CST supplies, C Form shall be issued and the applicable VAT amount shall be recovered from the contractor.

Bharat Heavy Electricals Limited (PSWR, Nagpur)
Tender Specification no. BHE/PW/PUR/MANUT-BLR)/1495-1496/1497/1498
Volume- II: Price Bid Specification for ONE BOILER

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B : PRICE BID

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 ONE UNIT of Boiler – Vertical Pkg (INCLUDING SUPPLY OF PAINTS FOR FINAL PAINTING) as per scope of work detailed in Tender Specification BHE/PW/PUR/MANUT-BLR)/1495-1496/1497/1498		

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