

TENDER SPECIFICATION

No BHE/PW/PUR/VNT5-BLR(Vertical Pkg) U-13 /1091

FOR

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, FUEL PIPING, BOILER INTEGRAL PIPING, ELECTROSTATIC PRECIPITATOR, FANS, POWER CYCLE PIPING, COAL MILLS AND COAL FEEDERS, CHEMICAL DOZING SYSTEM, INSULATION, FINAL PAINTING (INCLUDING SUPPLY) ETC AT

1x500 MW NTPC STPP STAGE-V UNIT-13

AT

NATIONAL THERMAL POWER CORPORATION LIMITED (NTPC), VINDHYACHAL
DISTRICT- SINGRAULI
MADHYA PRADESH

VOLUME – II

(PRICE BID SPECIFICATION)



BHARAT HEAVY ELECTRICALS LIMITED

(A GOVERNMENT OF INDIA UNDERTAKING)

POWER SECTOR : WESTERN REGION

345, KINGSWAY : NAGPUR 440 001

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DISTRICT- SINGRAULI
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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/VNT5-BLR(Vertical Pkg)U-13/1091
Volume- II: Price Bid Specification for BOILER Unit-13

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

SL.NO	Contract (Main Package)	Rate schedule Identifier	QTY of One Unit	UNIT	Applicable Rate per Unit of measurement	PG MAs covered
1.1	Boiler	Structures	9257	MT	90% of 'X'	35,36,38, Structure of Deaerator
1.2	Boiler	Pressure Parts	7423	MT	115% of 'X'	04, 05, 06, 07, 08, 09, 10,11, 12,15, 16, 17,18,20, 19, 21, 24 (part), 28, 31, 32, 42, 45, 52, mtm pads and clamps of 97,
1.3	Boiler	Non Pressure Parts (upto ESP inlet funnel)	3789	MT	95% of 'X'	30,41,43,47,48 (part), 50,57, 80 (part), 81(part), 99 (part)
2.1	RM	Rotating Machines (ID/FD/PA Fans, Mills, etc and aux)	2043	MT	60% of 'X'	55,56,61,62,65,67,99 (part)
2.2	RM	Handling Equipments of Rotating Machines	24		70% of 'X'	99 (part)
3.1	ESP	ESP	6847	MT	65% of 'X'	78,79,7X
3.2	ESP	Non Pressure Parts (ESP outlet funnel to Chimney)	2440	MT	95% of 'X'	39,89,48, 57
4.1	PIPING	Piping-P91	394	MT	365% of 'X'	24,80, 81
4.2	PIPING	Piping-AS	150	MT	280% of 'X'	24, 80
4.3	PIPING	Piping-CS (HP)	787	MT	245% of 'X'	80, 81
4.4	PIPING	Piping-CS (LP)	838	MT	210% of 'X'	
4.5	PIPING	Piping-SS	2	MT	435% of 'X'	80,81
4.6	PIPING	Piping-Hangers and Supports	660	MT	125% of 'X'	80
4.7	PIPING	Piping-Temporary (Steam Blowing)	75	MT	80% of 'X'	
4.8	PIPING	Piping-Temporary (Chemical Cleaning)	50	MT	80% of 'X'	
5.1	INSULATION	Insulation	1.5	MT	135% of 'X'	32
5.2	INSULATION	Pourable and castable	457	MT	55% of 'X'	
5.3	INSULATION	Iron parts	38	MT	120% of 'X'	
5.4	INSULATION	Aluminium Cladding sheets	130	MT	125% of 'X'	37
5.5	INSULATION	Wool Mattress	1697	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)
Tender Specification no. BHE/PW/PUR/VNT5-BLR(Vertical Pkg)U-13/1091
Volume- II: Price Bid Specification for BOILER Unit-13

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/VNT5-BLR(Vertical Pkg)U-13/1091
Volume- II: Price Bid Specification for BOILER Unit-13

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 UNIT-13, 500 mw Boiler –Vertical Pkg as per scope of work detailed in Tender Specification BHE/PW/PUR/VNT5-BLR(Vertical Pkg)U-13 /1091		

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