

# TENDER SPECIFICATION

Sl No	Tender Specification Number	Unit Number & Project
1	BHE/PW/PUR/RGIT-BLR(Vertical Pkg) U-1 /1022	<b>Unit 1</b> of 4X600MW Boiler Vertical Pkg

FOR

COLLECTION OF MATERIALS FROM BHEL/CLIENT'S STORES/STORAGE YARD; TRANSPORTATION TO SITE, ERECTION, TESTING & COMMISSIONING, TRIAL OPERATION AND HANDING OVER OF **BOILER AND ITS AUXILIARIES** INCLUDING ESP, AIR PREHEATERS, DUCTS AND DAMPERS, FANS, FUEL PIPING, BOILER INTEGRAL PIPING, POWER CYCLE PIPING, CHEMICAL DOZING SYSTEM, LINING & INSULATION, FINAL PAINTING ETC FOR **UNIT – 1**

OF

4X600 MW JPL (JINDAL POWER LIMITED) PROJECT  
NEAR TAMNAR VILLAGE DISTRICT RAIGARH IN  
CHHATTISGARH STATE

VOLUME – II

**(PRICE BID SPECIFICATION FOR UNIT # 1)**



**BHARAT HEAVY ELECTRICALS LIMITED**

(A GOVERNMENT OF INDIA UNDERTAKING)

POWER SECTOR : WESTERN REGION

345, KINGSWAY : NAGPUR 440 001

**TENDER SPECIFICATION ISSUE DETAILS**  
**TENDER SPECIFICATION**

<b>Sl No</b>	<b>Tender Specification Number</b>	<b>Unit Number &amp; Project</b>
1	<b>BHE/PW/PUR/RGIT-BLR(Vertical Pkg) U-1 /1022</b>	<b>Unit 1</b> of 4X600MW Boiler Vertical Pkg

FOR

COLLECTION OF MATERIALS FROM BHEL/CLIENT'S STORES/STORAGE YARD; TRANSPORTATION TO SITE, ERECTION, TESTING & COMMISSIONING, TRIAL OPERATION AND HANDING OVER OF **BOILER AND ITS AUXILIARIES** INCLUDING ESP, AIR PREHEATERS, DUCTS AND DAMPERS, FANS, FUEL PIPING, BOILER INTEGRAL PIPING, POWER CYCLE PIPING, CHEMICAL DOZING SYSTEM, LINING & INSULATION, FINAL PAINTING ETC FOR **UNIT – 1**

OF

4X600 MW JPL (JINDAL POWER LIMITED) PROJECT  
NEAR TAMNAR VILLAGE DISTRICT RAIGARH IN  
CHHATTISGARH STATE

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.....

.....

(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/RGIT-BLR(Vertical Pkg) U 1/1022**

**Volume- II: Price Bid Specification for BOILER Unit-1**

**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	11114	MT	90% of 'X'	35,36,38, <a href="#">Structure of Deaerator</a>
1.2	Boiler	Pressure Parts	7993	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, <a href="#">Deaerator</a>
1.3	Boiler	Non Pressure Parts (upto ESP inlet funnel)	5183	MT	95% of 'X'	30,41,43,47,48 (part), 57, 80 (part), 81(part), 99 (part)
2.1	RM	Rotating Machines (ID/FD/PA Fans, Mills, etc and aux)	2183	MT	60% of 'X'	55,56,61,62,65,67,99 (part)
2.2	RM	Handling Equipments of Rotating Machines	15		70% of 'X'	99 (part)
3.1	ESP	ESP	7370	MT	65% of 'X'	78,79,7X
3.2	ESP	Non Pressure Parts (ESP outlet funnel to Chimney)	6638	MT	95% of 'X'	39,89,48, 57
4.1	PIPING	Piping-P91	632	MT	365% of 'X'	24,80, 81
4.2	PIPING	Piping-AS	311	MT	280% of 'X'	24, 80
4.3	PIPING	Piping-CS (HP)	539	MT	245% of 'X'	80, 81
4.4	PIPING	Piping-CS (LP)	650	MT	210% of 'X'	
4.5	PIPING	Piping-SS	2	MT	435% of 'X'	80,81
4.6	PIPING	Piping-Hangers and Supports	629	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	MT	135% of 'X'	
5.2	INSULATION	Pourable and castable	458	MT	55% of 'X'	
5.3	INSULATION	Iron parts	23	MT	120% of 'X'	
5.4	INSULATION	Aluminium Cladding sheets	227	MT	125% of 'X'	
5.5	INSULATION	Wool Mattress	1333	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/RGIT-BLR(Vertical Pkg) U 1/1022**  
**Volume- II: Price Bid Specification for BOILER Unit-1**

**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/RGIT-BLR(Vertical Pkg) U 1/1022**  
**Volume- II: Price Bid Specification for BOILER Unit-1**

**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 <b>UNIT-1</b> of Boiler – Vertical Pkg as per scope of work detailed in Tender Specification BHE/PW/PUR/RGIT-BLR(Vertical Pkg)U#1/1022		

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