

TENDER SPECIFICATION

No BHE/PW/PUR/NST-BLR U 3/1367

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-BLR U 3/1367

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

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.

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 :

Date:

Signature & Official Seal of Bidder

Bharat Heavy Electricals Limited (PSWR, Nagpur)
Tender Specification no. BHE/PW/PUR/NST-BLR U 3/1367
Volume- II: Price Bid Specification for BOILER Unit-3

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

A) PART A Weight Details for Complete Erection Alignment NDTT 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 | 778 | MT | 90% of 'X' |
| 1.2 | Boiler | Pressure Parts | 718 | MT | 115% of 'X' |
| 1.3 | Boiler | Non Pressure Parts (upto ESP inlet funnel) | 1485 | MT | 95% of 'X' |
| 2.1 | RM | Rotating Machines (ID/FD/PA Fans, Mills, etc and aux) | 1122 | MT | 60% of 'X' |
| 2.2 | RM | Handling Equipments of Rotating Machines | 0 | | 70% of 'X' |
| 3.1 | ESP | ESP | 352 | MT | 65% of 'X' |
| 3.2 | ESP | Non Pressure Parts (ESP outlet funnel to Chimney) | 803 | MT | 95% of 'X' |
| 4.1 | PIPING | Piping-P91 | 268 | MT | 365% of 'X' |
| 4.2 | PIPING | Piping-AS | 44 | MT | 280% of 'X' |
| 4.3 | PIPING | Piping-CS (HP) | 347 | MT | 245% of 'X' |
| 4.4 | PIPING | Piping-CS (LP) | 319 | MT | 210% of 'X' |
| 4.5 | PIPING | Piping-SS | 1 | MT | 435% of 'X' |
| 4.6 | PIPING | Piping-Hangers and Supports | 265 | MT | 125% of 'X' |
| 4.7 | PIPING | Piping-Temporary (Steam Blowing) | 25 | MT | 80% of 'X' |
| 4.8 | PIPING | Piping-Temporary (Chemical Cleaning) | 20 | MT | 80% of 'X' |
| 5.1 | INSULATION | Insulation | 1 | MT | 135% of 'X' |
| 5.2 | INSULATION | Pourable and castable | 210 | MT | 55% of 'X' |
| 5.3 | INSULATION | Iron parts | 92 | MT | 120% of 'X' |
| 5.4 | INSULATION | Aluminium Cladding sheets | 68 | MT | 125% of 'X' |
| 5.5 | INSULATION | Wool Mattress | 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 3/1367
Volume- II: Price Bid Specification for BOILER Unit-3

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

| S No. | Description | Rate / MT | 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 | 17871 | 37.32 | 8042 | 300117 | 140.70 | 536 | 75432 | 3,75,550 |
| 2 | Pressure Parts | 22339 | 6.01 | 8936 | 53681 | 195.21 | 2011 | 392472 | 4,46,153 |
| 3 | Non Pressure Parts | 17871 | 73.52 | 8042 | 591205 | 401.93 | 894 | 359142 | 9,50,347 |
| 4 | Rotating M/c including trial run | 10723 | 54.12 | 4825 | 261148 | 54.12 | 536 | 29016 | 2,90,164 |
| 5 | ESP | 10723 | 105.65 | 4825 | 509792 | 105.65 | 536 | 56644 | 5,66,435 |
| 6 | PIPING including HT | 44678 | 14.82 | 24573 | 364068 | 14.82 | 6702 | 99291 | 4,63,359 |
| | Total | | 291.43 | | 2080011 | | | 1011997 | 30,92,008 |

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 3/1367

Volume- II: Price Bid Specification for **BOILER Unit-3**

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 3/1367**

Volume- II: Price Bid Specification for **BOILER Unit-3**

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- 3 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