

TENDER SPECIFICATION

| SI No | Tender Specification Number | Unit Number & Project |
|-------|---|--------------------------------------|
| 1 | BHE/PW/PUR/KTI-BLR(Vertical Pkg) U 1/1040 | 150 MW Boiler Vertical Pkg of Unit 1 |
| 2 | BHE/PW/PUR/KTI-BLR(Vertical Pkg) U 2/1041 | 150 MW Boiler Vertical Pkg of Unit 2 |

FOR

Collection of materials from BHEL/client's stores/storage yard; transportation to site of work; pre-erection checks, pre-assembly if necessary, erection, testing, assistances for commissioning & trial operation, handing over, assistance for performance guarantee test of Boiler and its Auxiliaries, Electrostatic Precipitator (ESP) Power Cycle Pipeline, Rotating Machines, insulation, final painting etc of Unit 1 & Unit 2 of 2x150 MW OPG Power Gujarat Private Ltd.

At

OPGGPL Bhadreshwar TPP,

Distt. Kutch
(Gujarat).

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 Issue Details

TENDER SPECIFICATION

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| 1 | BHE/PW/PUR/KTI-BLR(Vertical Pkg) U 1/1040 | 150 MW Boiler Vertical Pkg of Unit 1 |
| 2 | BHE/PW/PUR/KTI-BLR(Vertical Pkg) U 2/1041 | 150 MW Boiler Vertical Pkg of Unit 2 |

FOR

Collection of materials from BHEL/client's stores/storage yard; transportation to site of work; pre-erection checks, pre-assembly if necessary, erection, testing, assistances for commissioning & trial operation, handing over, assistance for performance guarantee test of Boiler and its Auxiliaries, Electrostatic Precipitator (ESP) Power Cycle Pipeline, Rotating Machines, insulation, final painting etc of Unit 1 & Unit 2 of 2x150 MW OPG Power Gujarat Private Ltd.

At

OPGGPL Bhadreshwar TPP,

Distt. Kutch
(Gujarat).

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/KTI-BLR(Vertical Pkg)/1040-1041
Volume- II.A: Price Bid Specification for
ONE BOILER
IMPORTANT INFORMATION

This is a combined tender for E & C of 2 units of 150 MW Boiler (Unit 1 & 2 at OPG Kutch Project).

- i Tender specification (Volume I) is common for both units **(Unit 1 & 2)**.
- ii **Unit 1 & Unit 2** shall be awarded to separate agencies.
- iii **Bidder has to submit price for E & C of ONE UNIT of 150 MW Boiler Vertical Package as indicated in the Price Bid.**
- iv L-1 Bidder shall be considered for award of Unit-1.
- v For award of UNIT-2, next bidder in the order of their price competitiveness (i.e L-2, then L-3 and hence forth) shall be given an option to match their price/rate, with the Awarded/Finalised price/rate of UNIT 1. In case none of the bidders agree to match the Awarded price/RATE of UNIT-1, then BHEL may consider awarding the UNIT-2 to L-1 bidder or opt any other suitable method to finalize UNIT-2.

Date:

Signature & Official Seal of Bidder

Bharat Heavy Electricals Limited (PSWR, Nagpur)
Tender Specification no. BHE/PW/PUR/KTI-BLR(Vertical Pkg)/1040-1041
Volume- II.A: Price Bid Specification for
ONE BOILER

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 | 2126 | MT | 90% of 'X' | 35,36,38 |
| 1.2 | Boiler | Pressure Parts | 2085 | 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 |
| 1.3 | Boiler | Non Pressure Parts (upto ESP inlet funnel) | 682 | 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) | 716 | MT | 60% of 'X' | 55,56,61,62,65,67,99 (part) |
| 2.2 | RM | Handling Equipments of Rotating Machines | 12 | | 70% of 'X' | 99 (part) |
| 3.1 | ESP | ESP | 1825 | MT | 65% of 'X' | 78,79,7X |
| 3.2 | ESP | Non Pressure Parts (ESP outlet funnel to Chimney) | 595 | MT | 95% of 'X' | 39,89,48, 57 |
| 4.1 | PIPING | Piping-P91 | 237 | MT | 365% of 'X' | 24,80, 81 |
| 4.2 | PIPING | Piping-AS | 66 | MT | 280% of 'X' | 24, 80 |
| 4.3 | PIPING | Piping-CS (HP) | 110 | MT | 245% of 'X' | 80, 81 |
| 4.4 | PIPING | Piping-CS (LP) | 206 | MT | 210% of 'X' | |
| 4.5 | PIPING | Piping-SS | 0.5 | MT | 435% of 'X' | 80,81 |
| 4.6 | PIPING | Piping-Hangers and Supports | 93 | MT | 125% of 'X' | 80 |
| 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 | 92 | MT | 135% of 'X' | |
| 5.2 | INSULATION | Pourable and castable | 126 | MT | 55% of 'X' | |
| 5.3 | INSULATION | Iron parts | 4 | MT | 120% of 'X' | |
| 5.4 | INSULATION | Aluminium Cladding sheets | 54 | MT | 125% of 'X' | |
| 5.5 | INSULATION | Wool Mattress | 159 | 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/KTI-BLR(Vertical Pkg)/1040-1041
Volume- II.A: 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 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/KTI-BLR(Vertical Pkg)/1040-1041
Volume- II.A: Price Bid Specification for
ONE BOILER
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 as per scope of work detailed in Tender Specification BHE/PW/PUR/KTI-BLR(Vertical Pkg) / 1040-1041 | | |

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