

TENDER SPECIFICATION

No. BHE/PW/PUR/JNGI-CLE/429

FOR

Handling at Storage Yard/Stores, Transportation to Site of Work; Erection, Calibration, Testing, Commissioning Including Final Painting and Handing Over of Electrical and Control & Instrumentation Works of 2x135 TPH Circulating Fluidized Bed Combustion Boiler and 2x30MW Steam Turbines & Its Auxiliaries, Turbo Generator and their Auxiliaries

AT

GUJARAT AMBUJA CEMENTS LIMITED.

P.O. AMBUJA NAGAR, TALUKA: KODINAR,

DISTT: JUNAGADH, GUJARAT.

Part – II : Price Bid

BOOK NO.



Bharat Heavy Electricals Limited
(A Government of India Undertaking)
Power Sector - Western Region
Shreemohini Complex
345, Kingsway - Nagpur 440 001

BHARAT HEAVY ELECTRICALS LIMITED

(A GOVERNMENT OF INDIA UNDERTAKING)
POWER SECTOR - WESTERN REGION
SHREEMOHINI COMPLEX
345-KINGSWAY, NAGPUR-440 001

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DISTT: JUNAGADH, GUJARAT.

EARNEST MONEY DEPOSIT: Please see Special Conditions of Contract.

LAST DATE FOR TENDER SUBMISSION: Please obtain updated information from web page "<http://www.bhel.com>" → Tender Notifications → View Corrigendums.

THESE TENDER SPECIFICATION DOCUMENTS CONTAINING PART-I (TECHNICAL BID SPECIFICATION) AND PART- II (PRICE BID), ARE ISSUED TO:

M/s.

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PLEASE NOTE:

THESE TENDER SPECS DOCUMENTS ARE NOT TRANSFERABLE.

BIDDER SHALL NOTE THAT THEIR OFFER WILL BE CONSIDERED SUBJECT TO THE APPROVAL OF BHEL'S

CUSTOMER.

For Bharat Heavy Electricals Limited

Dy. General Manager (Purchase)

Place: Nagpur

Date:

Bharat Heavy Electricals Limited: PSWR: Nagpur
Tender Specification No. BHE/PW/PUR/JNGI-CLE/429: Part-II: Price Bid
Schedule of Rates and Quantities (Page 1 of 4)

| HANDLING AT STORAGE YARD/STORES, TRANSPORTATION TO SITE OF WORK; ERECTION, CALIBRATION, TESTING, ASSISTANCE FOR COMMISSIONING INCLUDING FINAL PAINTING AND HANDING OVER OF ELECTRICAL AND CONTROL & INSTRUMENTATION WORKS OF 2x135 TPH CFBC BOILER AND 2x30 MW STEAM TURBINE & AUXILIARIES, TURBO GENERATOR AND AUXILIARIES AT GUJARAT AMBUJA CEMENT LIMITED, AMBUJANAGAR, VERAVAL, GUJARAT. | | | | | |
|--|--|----------|------|-----------------|--------------------|
| SN | DESCRIPTION | Qty | UOM | Unit Rate (Rs.) | Total Amount (Rs.) |
| A | PANELS | As under | | N.A. | N.A. |
| A.1 | Generator Control Panel 1500(W) x 1000(D) x 2300 (H) mm, WT-1500KG. | 2 | Nos | | |
| A.2 | Generator Relay & Protection Panel, 1000(W) x 800 (D) x 2300 (H), WT2000 KG | 4 | Nos | | |
| A.3 | AVR Panel 1150 (W) x 1200(D) x 2295 (H) mm WT 1200 Kg. | 2 | Nos | | |
| A.4 | Turbo supervisory: Bently Nevada 3500 Series for Turbo supervisory including approx 16 nos Displacement, Expansion, Vibration probes and proximeters, Proximeter housing (approx 9 nos), JB's (approx 2 nos), connecting cables and accessories (Sealtite connectors, conduits, etc.) Host computer and TSI monitoring rack and display for Bently Nevada system including accessories and communication cables RS422 (300 meters approx), rack to rack cables, etc. The rack is mounted on the Turbine Control Panel. This includes installation and commissioning of two numbers of Speed pick ups to be connected to Woodward governor. | 2 | Sets | | |
| A.5 | Turbine Control Panel including Woodward digital governor, Governor console board, (includes turbine stop and control valves commissioning, (1000 x 2324 x 800mm, 800 kg wt) | 2 | Nos | | |

Date

Signature & Official Seal of Bidder

Bharat Heavy Electricals Limited: PSWR: Nagpur
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|--|--|-----------------|------|-----------------|--------------------|
| SN | DESCRIPTION | Qty | UOM | Unit Rate (Rs.) | Total Amount (Rs.) |
| A.6 | Fuel Feeder Control Panel (VFD Based) | 2 | Nos | | |
| A.7 | Limestone feeder control Panel (VFD Based) | 2 | Nos | | |
| A.8 | Local gauge board (1500 x 1800), weight 500kg. | 2 | Nos | | |
| B | FIELD INSTRUMENTS / DEVICES | As under | | N.A. | N.A |
| B.1 | Pressure/ DP - gauges, switches and Transmitters | 350 | Nos | | |
| B.2 | Temperature gauges, switches and elements (MTM thermocouple, stem type thermo couple and RTDs) | 200 | Nos | | |
| B.3 | Oxygen Analyser (In situ type) | 2 | Nos. | | |

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|--|---|-----|------|-----------------|--------------------|
| SN | DESCRIPTION | Qty | UOM | Unit Rate (Rs.) | Total Amount (Rs.) |
| B.4 | Level Switches (Float type, Magnetic type, etc) | 20 | Nos. | | |
| B.5 | Level Gauges | 10 | Nos. | | |
| B.6 | Level transmitter Displacer Type | 4 | Nos. | | |
| B.7 | Air Filter Regulator | 20 | Nos. | | |
| B.8 | ERV Controller with pressure Switch | 2 | Nos | | |
| B.9 | Oil Flowmeter | 2 | Nos | | |

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|--|---|----------|--------|-----------------|--------------------|
| SN | DESCRIPTION | Qty | UOM | Unit Rate (Rs.) | Total Amount (Rs.) |
| C | JUNCTION BOXES / STRUCTURAL STEEL / IMPULSE PIPES AND FITTINGS | As under | | N.A. | N.A |
| C.1 | Junction boxes of various sizes (Up to 80 Terminals) and Local Push Button stations | 150 | Nos | | |
| C.2 | Structural steel | 10 | MT | | |
| C.3 | SS Tube 6 mm | 300 | Meters | | |
| C.4 | SS Pipe 12.7.1X2.1 mm | 700 | Meters | | |
| C.5 | CS/AS Pipe 1/2" Sch 40/80/160 | 1500 | Meters | | |
| C.6 | Copper Tube (6mm/ 1/4") | 60 | Meters | | |

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|--|--|----------|--------|-----------------|--------------------|
| SN | DESCRIPTION | Qty | UOM | Unit Rate (Rs.) | Total Amount (Rs.) |
| D | CABLES, CABLE TRAYS AND ACCESSORIES, ERECTION MATERIAL | As under | | N.A. | N.A |
| D.1 | Instrument and Control and Compensating Cable 2T/2P/1P/2C 0.5/0.75/1.5 SQ.MM. | 11000 | Meters | | |
| D.2 | 10 CORE 2.5 SQ. MM. COPPER CABLE | 3000 | Meters | | |
| D.3 | 3 CORE 4 SQ. MM. COPPER CABLE | 2000 | Meters | | |
| D.4 | 5 CORE 2.5 SQ. MM. COPPER CABLE. | 6000 | Meters | | |
| D.5 | CABLE TRAY (Perforated) 50 mm, with or without cover | 1500 | Meters | | |
| D.6 | CABLE TRAY (Perforated/Ladder type) 100/150 mm, with or without cover | 1500 | Meters | | |

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| E | COMMISSIONING OF EQUIPMENT ERECTED BY OTHER AGENCIES | As under | | N.A. | N.A |
|-------------------------------------|--|----------|------|------------|-----|
| E.1 | Commissioning of Pneumatic Control valves including accessories (Viz. I/P converter calibration and fixing, position transmitter, air lock etc) | 12 | Sets | | |
| E.2 | Commissioning of motorized regulating drives | 50 | Nos. | | |
| E.3 | Commissioning of Solenoid valves | 12 | | | |
| F | GENERATOR INTEGRATED TESTING | | | | |
| F.1 | INTEGRATED TESTING/COMMISSIONING CONTROLS AND PROTECTIONS RELAY PANEL OF GENERATOR & ASSOCIATED EQUIPMENTS. (Scope of work is as per details in tender specification vide clause No. 4.7.10) | 2 | Sets | | |
| GRAND TOTAL IN FIGURES | | | | Rs. | |
| GRAND TOTAL IN WORDS: Rupees | | | | | |

Date

Signature & Official Seal of Bidder