

TENDER SPECIFICATION

No. BHE/PW/PUR/KHZI-CNI/1067

FOR

HANDLING AT SITE STORES/STORAGE YARD, TRANSPORTATION TO SITE OF WORK, COMPLETE ERECTION, CHECKING OF CALIBRATION, TESTING, COMMISSIONING AND HANDING OVER OF CONTROL & INSTRUMENTATION WORKS FOR HRSG AND ITS AUXILIARIES, GAS TURBINE AND ITS AUXILIARIES, TURBOGENERATOR AND ITS AUXILIARIES, STATION C&I FOR 1x72 MW CPP REVAMP KRIBHCO PROJECT.

AT

KRIBHCO (KRISHAK BHARATI COOPERATIVE LIMITED) PROJECT

HAZIRA, DIST. SURAT, STATE- GUJARAT

VOLUME :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**

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For Bharat Heavy Electricals Limited

AGM (Purchase)
Place: Nagpur
Date:

BHEL : PS WR
TS : BHE/PW/PUR/KHZI-CNI/1067 (RATE SCHEDULE)
VOLUME-II- PRICE BID-1067

BHEL:PSWR:NAGPUR

RATE SCHEDULE, SECTION - A

NAME OF WORK: HANDLING AT SITE STORES/STORAGE YARD, TRANSPORTATION TO SITE OF WORK, COMPLETE ERECTION, CHECKING OF CALIBRATION, TESTING, COMMISSIONING AND HANDING OVER OF CONTROL & INSTRUMENTATION WORKS FOR HRSG AND ITS AUXILIARIES, GAS TURBINE AND ITS AUXILIARIES, TURBOGENERATOR AND ITS AUXILIARIES, STATION C&I FOR 1x72 MW CPP REVAMP KRIBHCO PROJECT

| SL. NO. | DESCRIPTION | UOM | QTY | RATE IN RS. (IN FIGURES) | RATE IN WORDS | AMOUNT | APPLICABLE TERM OF PAYMENT |
|---------------|---|-------|-------|--------------------------|---------------|--------|----------------------------|
| 11.0 | Cable tray and Accessories | | | | | | 11.0 |
| 11.0.1 | Perforated cable tray and accessories (with or without cover) 50mm | Meter | 5000 | | | | |
| 11.0.2 | Perforated cable tray and accessories (with or without cover) 150mm | Meter | 11425 | | | | |
| 11.0.3 | Perforated cable tray and accessories (with or without cover) 300mm | Meter | 1450 | | | | |
| 12.0 | Cable laying including earthing wires | | | | | | 13.0 |
| 12.0.1 | Screened Copper Cable 1P x 0.5 sqmm(intrinsic safe) armoured / unarmoured | Meter | 5750 | | | | |
| 12.0.2 | Screened Copper Cable 2P x 0.5 sqmm(intrinsic safe) armoured / unarmoured | Meter | 1000 | | | | |
| 12.0.3 | Screened Copper Cable 6P x 0.5 sqmm(Non-intrinsic safe) armoured / unarmoured | Meter | 35000 | | | | |
| 12.0.4 | Screened Copper Cable 6P x 0.5 sqmm(intrinsic safe) armoured / unarmoured | Meter | 3200 | | | | |

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|---------|--|-------|-------|--------------------------|---------------|--------|----------------------------|
| 12.0.5 | Screened Copper Cable 10P / 12P x 0.5 (Non intrinsic safe)sqmm armoured / unarmoured | Meter | 20000 | | | | |
| 12.0.6 | Screened Copper Cable 10P / 12P x 0.5(Intrinsic type) sqmm armoured / unarmoured | Meter | 2000 | | | | |
| 12.0.7 | Screened Copper Cable 1PX 1.0 sqmm armoured / unarmoured | Meter | 200 | | | | |
| 12.0.8 | Screened Copper Cable 1CX 1.0 sqmm armoured / unarmoured | Meter | 100 | | | | |
| 12.0.9 | Screened Copper Cable 1P/2C or 3C x 1.5 sqmm(Non-Intrinsic safe) armoured / unarmoured | Meter | 15000 | | | | |
| 12.0.10 | Screened Copper Cable 2P/4C x 1.5 sqmm armoured / unarmoured | Meter | 6000 | | | | |
| 12.0.11 | Screened Copper Cable 4P x 1.5sqmm armoured / unarmoured | Meter | 2750 | | | | |
| 12.0.12 | Screened Copper Cable 6P x 1.5(Non-intrinsic safe)sqmm armoured / unarmoured | Meter | 6300 | | | | |
| 12.0.13 | Screened Copper Cable 10P x 1.5 sqmm armoured / unarmoured | Meter | 3500 | | | | |
| 12.0.14 | Screened Copper Cable 12P x 1.5(Intrinsic type) sqmm armoured / unarmoured | Meter | 3600 | | | | |
| 12.0.15 | Screened Copper Cable 12P x 1.5(Non-intrinsic safe) sqmm armoured / unarmoured | Meter | 600 | | | | |
| 12.0.16 | Screened Copper Cable 24P x 1.5 sqmm armoured / unarmoured | Meter | 1500 | | | | |

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|---------|---|-------|------|--------------------------|---------------|--------|----------------------------|
| 12.0.17 | Screened Copper Cable 1C x 2.5 sqmm armoured / unarmoured | Meter | 250 | | | | |
| 12.0.18 | Copper Cable 1triad, 0.5/1.5 sqmm(Intrinsic safe) armoured/unarmoured | Meter | 1000 | | | | |
| 12.0.19 | Copper Cable 1triad, 0.5/1.5 sqmm(non-Intrinsic safe) armoured/unarmoured | Meter | 1000 | | | | |
| 12.0.20 | Copper Cable 2 or 3 triad, 0.5/1.5 sqmm armoured/unarmoured | Meter | 2000 | | | | |
| 12.0.21 | Copper Cable 6 triad, 0.5/1.5 sqmm armoured/unarmoured | Meter | 1000 | | | | |
| 12.0.22 | Copper Cable 8 triad, 0.5/1.5 sqmm(Intrinsic safe) armoured/unarmoured | Meter | 1500 | | | | |
| 12.0.23 | Copper Cable 8 triad, 0.5/1.5 sqmm(Non Instrinsic safe) armoured/unarmoured | Meter | 4000 | | | | |
| 12.0.24 | 2Px20AWG T/C Extension Cable | Meter | 600 | | | | |
| 12.0.25 | 1Px(0.5Sqmm/16AWG) Cr-Al Extension Cable | Meter | 2250 | | | | |
| 12.0.26 | 2Px16AWG Cr-Al Extension Cable | Meter | 1000 | | | | |
| 12.0.27 | 12Px(16 AWG/20AWG) Cr-Al Extension Cable | Meter | 2000 | | | | |
| 12.0.28 | 6Px20 AWG Cr-Al Extension Cable | Meter | 1500 | | | | |
| 12.0.29 | Laying, etc of Optical fibre cables on cable trays, conduits etc (termination supervision by other agency) with minor civil works | Meter | 3500 | | | | |

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|----------------|--|-------|------|--------------------------|---------------|--------|----------------------------|
| 12.0.30 | Network UTP Cables (special termination using UTP connectors involved) | Meter | 3660 | | | | |
| 12.0.31 | HDPE conduit | Meter | 1200 | | | | |
| 13.0 | Junction box/Push Button station | | | | | | 14.0 |
| 13.0.1 | Junction boxes upto 48 way | No | 164 | | | | |
| 13.0.2 | Junction boxes above 48 way | No | 11 | | | | |
| 13.0.3 | Pushbutton box | No | 10 | | | | |
| 13.0.4 | Instruments and Junction Box Canopies | No | 275 | | | | |
| 14.0 | Conduits/Impulse pipe/tubes | | | | | | 15.0 |
| 14.0.1 | Impulse pipe CS ½" SCH 40 (D21.3 x 3.73 mm) | Meter | 300 | | | | |
| 14.0.2 | Impulse pipe CS ½" SCH 160 (D21.3 x 3.73 mm) | Meter | 300 | | | | |
| 14.0.3 | Impulse pipe AS ½" (D21.3 x 3.73 mm) | Meter | 540 | | | | |
| 14.0.4 | Impulse Pipe SS 12.7 x 2.1 mm | Meter | 6 | | | | |

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|---------|-------------------------------------|-------|------|--------------------------|---------------|--------|----------------------------|
| I4.0.5 | Impulse pipe SS 21.3 x 3.7 mm | Meter | 1600 | | | | |
| I4.0.6 | Impulse pipe SS NB25 | Meter | 100 | | | | |
| I4.0.7 | Impuse pipe CS 21.3 x 3.7 mm | Meter | 750 | | | | |
| I4.0.8 | Impuse pipe AS SCH160 21.3 x 3.7 mm | Meter | 120 | | | | |
| I4.0.9 | Impuse pipe AS 21.3 x 3.7 mm | Meter | 750 | | | | |
| I4.0.10 | Impules Pipe SS 33.4 x 3.4 mm | Meter | 500 | | | | |
| I4.0.11 | SS Pipes 1" for Instruments air | Meter | 750 | | | | |
| I4.0.12 | SS tube 1/2"X2.1 thk | Meter | 900 | | | | |
| I4.0.13 | SS tube 12.7x(2.1/0.9) | Meter | 810 | | | | |
| I4.0.14 | SS tube 6.35x0.9 | Meter | 56 | | | | |
| I4.0.15 | SS tube 1/4" | Meter | 75 | | | | |
| I4.0.16 | SS tube 1/2" | Meter | 300 | | | | |
| I4.0.17 | CS tube 21.3x2.68 NB15 ERW Galv | Meter | 78 | | | | |

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|---------|--|-------|-----|--------------------------|---------------|--------|----------------------------|
| I4.0.18 | CS tube 34.2x3.25 GALV | Meter | 21 | | | | |
| I4.0.19 | CS tube 48.8x3.25 GALV | Meter | 51 | | | | |
| I4.0.20 | CS tube 60.8x3.65 GALV | Meter | 24 | | | | |
| I4.0.21 | GI pipe CS 2" in meters | Meter | 750 | | | | |
| I4.0.22 | SS tube 6mm | Meter | 920 | | | | |
| I4.0.23 | Conduit Box (EP)(0.5",1.0",1.5",2.0") | No | 129 | | | | |
| I4.0.24 | Conduit Box with Terminal Board | No | 34 | | | | |
| I4.0.25 | Sealer Conduit Capped 1/2",1",1.5",2" | No | 63 | | | | |
| I4.0.26 | Unn Conduit HUB dia (12.7,25.4,38.1,50.8) Male | No | 103 | | | | |
| I4.0.27 | Unn Conduit HUB dia (12.7,25.4,38.1,50.8) Female | No | 42 | | | | |
| I4.0.28 | Flexible Conduit 1/2" X203.2 Expl. PF | No | 11 | | | | |
| I4.0.29 | Flexible Conduit 1/2" X609.6 Expl. PF | No | 5 | | | | |
| I4.0.30 | RDCR Conduit 2"X0.5" | No | 7 | | | | |

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|---------|--|-------|--------|--------------------------|---------------|--------|----------------------------|
| 14.0.31 | Connector tube Male 1/4" x 1/2" NPT SS-400-1- | No | 46 | | | | |
| 14.0.32 | Connector tube Male 1/4" x 1/4" NPT | No | 20 | | | | |
| 14.0.33 | Connector tube Female 1/2" X 1/2" | No | 9 | | | | |
| 14.0.34 | Elbow Conduit Capped (0.5",1",1.5",2") NPT | No | 39 | | | | |
| 14.0.35 | Elbow Conduit 90D 2"Female | No | 6 | | | | |
| 14.0.36 | Plug Conduit 1"&1.5" | No | 3 | | | | |
| 14.0.37 | Clamp Pipe (0.5,1.0,1.5,2.0) | No | 205 | | | | |
| 14.0.38 | Copper Tube | Meter | 10 | | | | |
| 15.0 | Miscellaneous Structural steel including frames for Panels/Racks/Instruments, supports for cable tray/pipes/tubes, Canopies etc | | | | | | 16.0 |
| 15.0.1 | Structural steel for fabrication | MT | 10.096 | | | | |
| 16.0 | Panels/Cubicles/Racks/Enclosures/Monitors/Computer/Computer peripheral/PLCs/UPS/Batteries | | | | | | 17.0 |
| 16.0.1 | Local Gauge board | No | 10 | | | | |
| 16.0.2 | Control Panel (approx. weight 400kg, 1000(L) X 1000(B) X 2500(H) mm) - one panel | No | 2 | | | | |

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| 16.0.3 | Control Panel (approx. weight 1200kg, 2250(L) X 1000(B) X 2500(H) mm) - suit of three panels | No | 5 | | | | |
| 16.0.4 | LP Dosing sysetm | Set | 2 | | | | |
| 16.0.5 | NETWORK PANELS(approx. Dimension 750x800x2415 mm,Wt-400kgs per panel) | No | 2 | | | | |
| 16.0.6 | Auxiliary Panel(Approx. Dimension 1000(L)X800(D)X2400(H) mm and Wt-250kgs) | Set | 1 | | | | |
| 16.0.7 | Fire Fighting Control System consist of Panel Approx. Dimension 800x400x2000,Wt-150kgs | Set | 2 | | | | |
| 16.0.8 | Chiller control panel(Approx Dimension 1000x800x2400 mm,Wt-500kgs) | No | 1 | | | | |
| 16.0.9 | Mark VI turbine control System consist of Panel Dimension 3600x805x2450mm,Wt-250kgs | No | 1 | | | | |
| 16.0.10 | Electrical Control system | Set | 1 | | | | |
| 16.0.11 | Electronic Water Level Indicator (EWLI) | Set | 1 | | | | |
| 16.0.12 | max Engineering / operator / storian / LAN / WAN / Shift in charge / stn in charge / gateway / interface PC / HART etc., PC/Server Station with ASCII Keyboard, Mouse & 21" Colour Monitor, individual UPS | Set | 30 | | | | |
| 16.0.13 | Printers (80/132 col Dot Matrix, A3 Inkjet, A3 Laserjet, etc) | Set | 10 | | | | |
| 16.0.14 | Computer furniture for all Servers, PCs, Printers | Set | 1 | | | | |
| 16.0.15 | Plant Control Desk / CRT desk | Set | 1 | | | | |

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|---------|---|-----|-----|--------------------------|---------------|--------|----------------------------|-------------|
| 16.0.16 | 125V BatteryCharger Dual FCBC with batteries and DCDB | Set | 2 | | | | | |
| 16.0.17 | 110V UPS System with batteries | Set | 1 | | | | | |
| 16.0.18 | 110V DC System Charger and Batteries | Set | 1 | | | | | |
| 16.0.19 | SWAS Analyzer with Sample Handling system | Set | 1 | | | | | |
| 16.0.20 | SWAS Sample handling system with racks & Sample conditioning panel with chiller | Set | 3 | | | | | |
| 16.0.21 | Vibration monitoring system for Gas Turbine | Set | 1 | | | | | |
| 16.0.22 | Naphtha monitors | Set | 1 | | | | | |
| 16.0.23 | L.O. centrifuge(Approx. Dimension 2000x2500x2500mm,Wt-1000kgs) | Set | 1 | | | | | |
| 16.0.24 | Humidity Monitoring system | Set | 1 | | | | | |
| 16.0.25 | Hazardous Gas Monitoring System having Panel Approx. Dimension161(W)X178(H)X274(D),Wt-10kgs | Set | 2 | | | | | |
| 17.0 | Instruments/Devices including sensors/Cells/Probes etc | | | | | | | 18.0 |
| 17.0.1 | Air filter regulators / Lubricators (1/4", 1/2", 1", 0-6KG, 0-10 KG) | No | 25 | | | | | |
| 17.0.2 | Solenoid valves (3 way, AC/DC, 1/4", 1/2", 1", NPT/BSP, single/dual coil) | No | 6 | | | | | |

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|---------|---|-----|-----|--------------------------|---------------|--------|----------------------------|
| 17.0.3 | Pressure Switch / DP Switch / DP indicating switch | No | 42 | | | | |
| 17.0.4 | Electronic Level Switch (with amplifier, etc), Capacitance or conductivity type | No | 1 | | | | |
| 17.0.5 | Pressure / DP / Flow (DP type) / Level/Temperature - Transmitter | No | 191 | | | | |
| 17.0.6 | Speed transmitter | No | 6 | | | | |
| 17.0.7 | Electronic Level Transmitter (with amplifier, etc), Capacitance or conductivity type / Guided Wave Radar(GWR) transmitter | No | 1 | | | | |
| 17.0.8 | Pressure Gauge / DP gauge/DP Indicator | No | 117 | | | | |
| 17.0.9 | Temperature Gauge (all types) | No | 78 | | | | |
| 17.0.10 | Level Indicator / Level Gauge | No | 5 | | | | |
| 17.0.11 | Flow indicator / Flow Gauge / Mass Flow meter/Acoustic flow meter (coal) | No | 4 | | | | |
| 17.0.12 | Thermocouple / RTDs with thermowell (all types) along with converters wherever applicable | No | 171 | | | | |
| 17.0.13 | MTM Thermocouple upto 17 M length | No | 4 | | | | |
| 17.0.14 | MTM Thermocouple over 17 M upto 22 M length | No | 33 | | | | |
| 17.0.15 | SOx/NOx/CO Analyzer | Set | 1 | | | | |

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| 17.0.16 | DC Starter Box(900(w)x450(d)x1400(h)mm) for Scanner Air Fan | No | 1 | | | | |
| 17.0.17 | Flame Scanner with Local Indicator | Set | 5 | | | | |
| 17.0.18 | Linear Voltage Differential Transformer | No | 16 | | | | |
| 17.0.19 | GT/Gas Igniters | Set | 7 | | | | |
| 17.0.20 | Gas Cromotograph System | Set | 1 | | | | |
| 17.0.21 | Fire detector(Hi Temp) 600F,125V | No | 8 | | | | |
| 18.0 | Commissioning and Testing activities for Equipments erected by other agencies, like control valves, on/off valves, electrical/pneumatic valves, actuators, solenoid valves, valves, limit switches, ERV controllers, power cylinders, Pressure & Temperature Guages/Transmitters,etc | | | | | | 19.0 |
| 18.0.1 | Electrical regulating drives: (Valve, damper, scoop) | No | 2 | | | | |
| 18.0.2 | Pneumatic regulating drives: (Valve, damper) incl Burner tilt | No | 25 | | | | |
| 18.0.3 | Commissioning of Hydraulic actuators | No | 2 | | | | |
| 18.0.4 | Open/Close type pneumatic gates / dampers / valves | No | 10 | | | | |
| 18.0.5 | Only healthiness checking of embedded RTD / T/C | No | 100 | | | | |

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| 18.0.6 | Limit Switches (checking and adjusting only). | No | 25 | | | | |
| 18.0.7 | Valve Temperature Control | No | 1 | | | | |
| 19.0 | Miscellaneous items (items not covered under above heads) | | | | | | 111.0 |
| 19.1 | Master and Slave Clock system | Set | 1 | | | | |
| Grand Total in figures (In Rs) | | | | | | | |
| Grand Total in Words | | | | | | | |
| Rs..... | | | | | | | |