

PART-II: PRICE BID SPECIFICATION

RATE SCHEDULE

CI Package for 2 x 125 MW, Units 3 & 4, SLPP II, Mangrol

SN	DESCRIPTION	TOTAL QTY	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
A-1	Control Panel (approx L750 X B800 X H2500, 400Kg) - one panel	30	Nos		
A-2	Control Panel (approx L751 to 1500 X B800 X H2500, 800 Kg) - suit of two panels	10	Nos		
A-3	Control Panel (approx L1501 to 2250 X B800 X H2500, 1200 Kg) - suit of three panels	50	Nos		
A-4	Control Panel (approx L2251 to 3000 X B800 X H2500, 1600 Kg) - suit of four panels	2	Nos		
A-5	Electrical heat tracer panel and accessories (Approx. L3000 X B800 X H2400)	2	Set		
A-6	Unit Control Desk for Work Stations	2	Set		
A-7	Electrical control panel 1900x1000x2355	2	Set		
A-8	Control Desk (For Digital Disply Unit, Paperless Recorders Etc.)	2	Set		
A-9	Generator Instrumentation cabinet including annunciator (1230 x 1060 x 2550, 600 Kgs)	2	No		
A-10	415 V (3 Phase) AC UPS with invertor, bypass line equipment, ACDB and Batteries	2	Set		
A-11	110 V (1 Phase) AC UPS with invertor, bypass line equipment, ACDB and Batteries	2	Set		
A-12	Vibration, Axial Shift, Speed and Displacementt monitoring system for main turbine	2	Set		
A-13	Vibration monitoring system for BFP/CEP/CWP/ Fans (Panel Dimensions L800 X B800 X H2415)	6	Set		
A-14	DC motor starter box for scanner fan	2	No		
A-15	Control panels for Centrifuges	2	Nos		
A-16	Conrol Panel for HP dosing system (1000x800x2000, 3.0 MT)	2	No		
A-17	Air Heater Rotor Stoppage Alarm Box	2	Sets		
A-18	Condenser Vacuum pump system	2	Set		
A-19	Local Instrument racks (LIR) (Type A, B and C)	120	Nos		
A-20	Local Instrument enclosures (LIE) (Type A, B and C)	120	Nos		
A-21	NETWORK PANELS (800x800x2400)	4	Nos		
A-22	WALL MOUNTED NETWORK ENCLOSURES (500x600x600)	4	Sets		
A-23	HART MANAGEMENT SYSTEM CABINET ALONG WITH PC, PRINTER AND ACCESSORIES	0	Set		
A-24	Lignite feeder (Drag Link) VFD Panel (L2400 X B800 X H1800)	4	Set		
A-25	Limestone VFD Feeder Panel (L1600 X B800 X W1800)	4	Set		
A-26	Electronic Water Level Indicator (EWLI) along with local discriminator unit (L600 X B350 X H600)	4	Sets		
A-27	Hydrogen Purity analyser	2	No		

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A-28	SWAS Sample handling system with racks & Sample conditioning panel with chiller (Both wet and dry) (Wet panel L3000 X W800 X H2315, Dry Panel L3000 X W600 X H2315, Chiller L1800 X W1000X H1600)	2	Sets		
A-29	Conductivity Analyzer (Both panel mounted and field mounted)	12	Nos		
A-30	Cation Conductivity Analyser	6	Nos		
A-31	Dissolved Oxygen Analyzer	6	Nos		
A-32	Hydrazine Analyzer	2	Nos		
A-33	Sodium Analyzer (Multi channel)	2	Nos		
A-34	pH Analyzer	12	Nos		
A-35	Phosphate Analyzer	2	Nos		
A-36	Silica Analyzer (Multi channel)	8	Nos		
A-37	Furnace Temperature probe	2	Nos		
A-38	Lignite and Limestone Loadcell Control Panel (L600 X B600 X H1800) along with Load cell and accessories	8	Sets		
A-39	Master Slave Clock System	1	Sets		
A-40	Hardwired Alaram Annunciation System along with 300Windows per unit at UCP	2	Sets		
A-41	Electronic Digital Display Board	2	Sets		
A-42	Elevator Panel (L1000 X B600 X H1800)	2	Sets		
A-43	TRU Panel for Spray Control Valve ((L1000 X B 600 X H1800)	2	Sets		
B-1	Direct Water Level Gauge	4	Sets		
B-2	Solenoid valves (3 way, AC/DC, 1/4", 1/2", 1", NPT/BSP, single/dual coil)	100	Nos		
B-3	HEA Exciter system	16	Sets		
B-4	Flame Scanner Head Assembly (Fire ball and Discriminating Type)	16	Nos		
B-5	Relay / Latch relay with base	4	Nos		
B-6	Air filter regulators / Lubricators (1/2", 1", 0-6KG, 0-10 KG)	100	Nos		
B-7	Speed Regulators / Air lock valves in oil gun corner rack	24	Nos		
B-8	max Engineering / operator / storian / LAN / WAN /LVS Work Station/ Shift in charge / stn in charge /	30	Sets		
B-9	Printers (80/132 col Dot Matrix, A3 Inkjet, A3 Laserjet, etc) with Printer table and accessories	20	Sets		

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B-10	LVS (Large Video Screen) made up of 5X1 matrix. Each LVS of DLP/LCD type, Rear projection type, 67 inches diagonal size, with 1024x768 resolution non interlaced	2	Sets		
B-11	CO Analyzer (in situ type)	2	Sets		
B-12	O2 (OXYGEN) Analyzer	6	Nos		
B-13	SO2 Analyzer (in situ type)	2	Nos		
B-14	NOX Analyzer (in situ type)	2	Nos		
B-15	Dust emission monitor (Installation at around 71 M in chimney)	2	Sets		
B-16	Flue gas analyser sample handling system (L1000 X W1000 X H2300)	2	Set		
C-1	Console inserts	2	Sets		
C-2	Vertical indicators (moving coil / bar graph)	20	Nos		
C-3	Digital Display Units	50	Nos		
C-4	Recorder 24 / 30 Channel (Paperless)	10	Nos		
C-5	Recorder 3 channel	6	Nos		
C-6	Speed switch / Speed detector	6	Nos		
C-7	Moisture Sensor probe and dew point monitor	2	Set		
C-8	Rotor Earth fault Detector	2	Nos		
C-9	Pressure Switch / DP Switch / DP indicating switch	108	Nos		
C-10	Temperature Switch / Thermostat	2	Nos		
C-11	Float type Level Switch	52	Nos		
C-12	Electronic Level Switch (with amplifier, etc), Capacitance or conductivity type	16	Nos		
C-13	Electronic Level Transmitter (with amplifier, etc), Capacitance or conductivity type	4	Nos		
C-14	Flow switch (Mechanical / Electronic)	4	Nos		
C-15	Pressure Gauge / DP gauge	500	Nos		
C-16	Temperature Gauge (all types)	346	Nos		
C-17	Level Indicator / Level Gauge	4	Nos		
C-18	Flow indicator / Flow Gauge / Flow meter	4	Nos		
C-19	Pressure / DP / Flow (DP type) / Level -Transmitter	550	Nos		
C-20	Level Transmitter (displacer type)	4	Nos		

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C-21	Flow Transmitter (Pulse / mass flow / target type) including flanges	8	Nos		
C-22	Thermocouple / RTDs with thermowell (all types) along with converters wherever applicable	460	Nos		
C-23	MTM Thermocouple	240	Nos		
C-24	I/P converters	100	Nos		
C-25	Pneumatic Pressure controller with accessories	2	Nos		
C-26	Pneumatic Temperature controller with accessories	2	Nos		
C-27	Rotameter	2	Sets		
D-1	Fan Lube oil skid	12	Sets		
D-2	Rack mounted instruments commissioning	6	Sets		
D-3	Electrical regulating drives: (Valve, damper, scoop)	12	Nos		
D-4	Pneumatic regulating drives: (Valve, damper)	20	Nos		
D-5	Commissioning of Hydraulic actuators	20	Nos		
D-6	ERV Controller	4	Nos		
D-7	Corner valve/ Trip valves commissioning	60	Nos		
D-8	Open/Close type pneumatic gates / dampers / valves	60	Nos		
D-9	Only healthiness checking of embedded RTD / T/C	140	Nos		
D-10	Limit Switches (checking and adjusting only).	120	Nos		
E-1	GI earthing wire	1000	Meters		
E-2	GI Pipe (1/2", 1") Heavy grade	200	Meters		
E-3	GI Pipe (1.5 ", 2")	50	Meters		
E-4	Copper tube 6mm/8mm / 1/4" (Sheathed / bare)	1200	Meters		
E-5	Copper tube 1/2" to 1" (Sheathed / bare)	50	Meters		
E-6	Hoses- 1/2" to 1", SS/Teflon, Braided/unbraided, upto 5M length	50	Nos		
E-7	Perforated cable tray and accessories (with or without cover) 50mm	2500	Meters		
E-8	Perforated cable tray and accessories (with or without cover) 100mm	5000	Meters		
E-9	Perforated cable tray and accessories (with or without cover) 150mm	1500	Meters		
E-10	Cable duct 60 x 60 x 1000	300	Meters		
E-11	Cable duct 100 x 100 x 1000	100	Meters		

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E-12	Cable duct 180 x 100 x 1000	80	Meters		
E-13	Cable duct 250 x 60 x 1000	50	Meters		
E-14	Screened Copper Cable 2P x 0.5 sqmm armoured / unarmoured	70000	Meters		
E-15	Screened Copper Cable 4P x 0.5 sqmm armoured / unarmoured	174000	Meters		
E-16	Screened Copper Cable 6P x 0.5 sqmm armoured / unarmoured	92000	Meters		
E-17	Screened Copper Cable 8P x 0.5 sqmm armoured / unarmoured	41000	Meters		
E-18	Screened Copper Cable 10P / 12P/ 16P x 0.5 sqmm armoured / unarmoured	57000	Meters		
E-19	Screened Copper Cable 24P x 0.5 sqmm armoured / unarmoured	83000			
E-20	Screened Copper Cable 1P/2C x 1.5 / 2.5 sqmm armoured / unarmoured	10000	Meters		
E-21	Screened Copper Cable 2P/ 3C /4C x 1.5 / 2.5 sqmm armoured / unarmoured	5000	Meters		
E-22	Screened Copper Cable 5C/7C x 1.5 /2.5 sqmm armoured / unarmoured	1500	Meters		
E-23	Screened Copper Cable 10C/12C x 1.5 /2.5 sqmm armoured / unarmoured	1500	Meters		
E-24	Screened Copper Cable 19C x 1.5 /2.5sqmm armoured / unarmoured	1500	Meters		
E-25	Compensating cable 2P x 1.3 sqmm type Tx/Sx/Kx unarmoured/armoured	15000	Meters		
E-26	Compensating cable 4P x 1.3 sqmm type Tx/Sx/Kx unarmoured/armoured	10000	Meters		
E-27	Compensating cable 6P x 1.3 sqmm type Tx/Sx/Kx unarmoured/armoured	1000	Meters		
E-28	Copper Cable 2 or 3 triad, 0.5/1.5 sqmm armoured/unarmoured	2000	Meters		
E-29	Copper Cable 6 triad, 0.5/1.5 sqmm armoured/unarmoured	1000	Meters		
E-30	Laying, etc of Single Mode Optical fibre cables on cable trays, conduits etc with minor civil works	8000	Meters		
E-31	Laying, etc of Multi Mode Optical fibre cables on cable trays, conduits etc with minor civil works	3000	Meters		
E-32	Network UTP Cables (special termination using UTP connectors involved)	10000	Meters		
E-33	MS Flat 50 x 6 mm	100	Meters		
F-1	Assembly of JB mounting frames (approx 1100 x 500 x 800)	6	Nos		
F-2	Assembly of JB mounting frames (approx 1500 x 800 x 1800)	2	Nos		
F-3	Assembly of JB mounting frames (approx 2000 x 900 x 1800)	18	Nos		
F-4	Assembly of JB mounting frames (approx 2600 x 500 x 1800)	6	Nos		
F-5	Assembly of local gauge board 1400 x 450 x1900 mm	6	Nos		

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SN	DESCRIPTION	TOTAL QTY	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
F-6	Junction boxes upto 48 way	300	Nos		
F-7	Junction boxes above 48 way	150	Nos		
F-8	CJCB Junction boxes upto 48 way	20	Nos		
F-9	CJCB Junction boxes above 48 way	30	Nos		
F-10	2PB or 3PB Pushbutton box	20	Nos		
F-11	Impulse pipe CS ½" SCH 40 / 80 / 160	700	Meters		
F-15	Impulse pipe SS / AS ½" SCH 40 / 80 / 160	2100	Meters		
F-16	Impulse pipe ASTM A 335 P22 1/2 " Sch XXS	2000	Meters		
F-17	Impulse pipe ASTM A106Gr C 1/2 " Sch 160	2600	Meters		
F-18	Impulse pipe ASTM A106Gr C 1/2 " Sch 80	10200	Meters		
F-19	Impulse pipe ASTM A106Gr C 1 " Sch 160	1200	Meters		
F-22	Impulse pipe ASTM A312 TP 316 1/2 " NB Sch 80 / 160	5000	Meters		
F-26	Impulse pipe SS / AS / CS 1/4" (D12.7/13.5 x 2.1/2.6 mm)	1500	Meters		
F-28	SS tube D6 x 1.0/1.5mm	500	Meters		
F-30	Impulse pipe CS (D17.2 x 1.8 mm)	1000	Meters		
F-31	CS tube DN 80	500	Meters		
F-32	Impulse pipe 1/4" / 8mm / 6mm	1000	Meters		
F-33	Plant Control Desk / CRT desk	2	Sets		
F-34	Computer furniture for all Servers, PCs, Printers	2	Sets		
F-35	Structural steel for fabrication	40	Tons		
F-36	MS Sheet 3 to 4 mm thick	5	Sq. M.		
Grand Total in Figures (Rs)					
GRAND TOTAL IN WORDS:-					