

Electrical, Instrumentation, Automation Items

Sl.	Plant	Item	Required Annual Quantity	Rate / Value Converted to INR
1	ISP	COROLIS FLOWMETER, LINE SIZE : 2INCH	4	15,38,943.80
2	ISP	VORTEX FLOW METER;TUBE SIZE:15 MM	6	5,62,773.00
3	ISP	VORTEX FLOW METER;TUBE SIZE:100 MM	6	7,28,892.00
4	ISP	VORTEX FLOW METER;TUBE SIZE:150 MM	6	9,57,501.00
5	ISP	VORTEXFLOWMTR;SIZE:200MM;SERVICE:STEAM	6	30,96,948.00
6	ISP	CORLIOS FLOW METER;MEDIUM:AMMONIACAL LIQUOR & TAR;METER SIZE:3 inch	6	
7	BSL	VACUUM CONTACTORS,415V,630A,3P	100	1,95,000.00
8	BSL	Mould Level Sensors	1	30,00,000.00
9	BSL	Mould Level Controllers	1	20,00,000.00
10	BSL	RADAR based sensors/stock level probe	1	10,00,000.00
11	BSL	LASER based sensors	1	8,50,000.00
12	BSL	Tunable Diode Analyzers	2	2,30,000.00
13	BSL	Roll Force Load Cells	1	75,00,000.00
14	BSL	Tensiometers	2	39,21,996.48
15	BSL	Steel Temperature, Dissolved Oxygen, Carbon and Alluminum content Measurement Systems	1	17,11,484.77
16	BSL	Multiloop Controllers	5	8,00,000.00
17	BSL	Infra red Pyrometers	2	5,55,390.00
18	BSL	Valves for Oxygen use	3	14,39,003.20
19	BSL	Incremental Encoders	4	2,88,532.36
20	BSL	Absolute Encoders	2	1,35,614.60
21	BSL	SSI to BCD converters	3	75,448.80
22	BSL	Conductivity Sensors and Meters	2	1,50,000.00
23	BSL	Oxygen Purity Analyser	1	10,00,000.00
24	BSL	Calorific Value Analyzers/meters	1	45,00,000.00
25	BSL	Vibration probes	4	3,85,082.23
26	BSL	Vibration Measurement Systems	1	35,00,000.00
27	BSL	Accelerometers	2	
28	BSL	Concentration Meter	1	1,50,000.00
29	BSL	Shapemeter Roll	1	4,00,00,000.00
30	BSL	Electronics for Shapemeter Roll	1	37,00,000.00
31	BSL	Disposable Low PPM Oxyprobes	10000	458.75
32	BSL	Flow Jam Switch	10	78,310.50
33	BSL	Electrochemical Type Oxygen PPM Analyser	1	5,00,000.00
34	BSL	Electrohydraulic Actuator	2	15,00,000.00
35	BSL	Igniter	2	4,50,000.00
36	BSP	GAUGE,MOISTURE MEASUREMENT,ON LINE	1	8,03,994.41
37	BSP	SENSOR,LASER,DIST.MEASUREMENT,R:0.5-30M	4	1,74,000.00
38	BSP	INFRARED RADIATION PYRO METER	12	1,51,230.00
39	BSP	RECORDER, PAPERLESS ,MULTI CHNL, 6CH	20	63,920.00
40	BSP	CALIBRATOR,24V	7	62,575.00
41	BSP	TEMPERATURE SIMULATOR CUM MEASUREMENT	7	61,750.00

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42	BSP	TEMP OXYPPM INSTRUMENT	5	3,57,497.84
43	BSP	MOLTN METAL TEMPINST	4	1,34,061.94
44	BSP	TEST INSTRUMENT TEMP	5	74,067.00
45	BSP	CONTINUOUS EMISSION MONITOR	6	5,48,999.00
46	BSP	LOAD CELL WITH MOUNTING KIT	24	31,500.00
47	BSP	Ceramic Filter for Wet Gas, Dry Gas and Common Duct Gas Analyzers. Other details as per Item no: 01 of ISP. Drawing: MOD-1935.	40	1,64,000.00
48	BSP	Compact Pressure /Differential Pressure Transmitter/Switch	200	30,00,000.00
49	BSP	Pressure/ DP Transmitter	120	36,00,000.00
50	BSP	Loop Powered Accelerometer	80	13,24,000.00
51	BSP	CO/CO2/Sox+Nox/ H2 analyser	10	27,40,660.00
52	BSP	Temperature Transmitter	80	1,00,000.00
53	BSP	Contact/Noncontact type Radar Level Transmitter	20	18,80,965.40
54	BSP	Online fixed CO/O2/SO2 Gas Detector,	60	16,00,000.00
55	BSP	Peristaltic Pump	20	3,12,900.00
56	BSP	pH Analyser	10	7,35,000.00
57	BSP	Vibrating Fork type level switch	10	8,29,800.00
58	BSP	4-WAY PROFIBUS PA JB	40	5,84,560.00
59	BSP	8 CHANNEL MUX	20	18,03,100.00
60	BSP	8-WAY PROFIBUS PA JB	40	8,09,920.00
61	BSP	MASS FLOWMETER,	8	15,38,943.80
62	BSP	Diaphragm Vacuum Pump	20	10,20,000.00
63	BSP	SINGLE/ DOUBLE ACTING POSITIONER	20	21,80,000.00
64	BSP	FLAME SCANNER;O/P:4- 20 MA DC/150 OHMS TO 750 OHMS;	5	14,60,000.00
65	BSP	FLOW METER (CALORIMETRIC TYPE	40	5,59,360.00
66	BSP	MAGNETIC FLOWMETER	30	55,00,000.00
67	BSP	Portable battery operated Ultrasonic Clamp-On type Flow Meter	10	31,60,000.00
68	BSP	PROCESS CALIBRATOR	10	16,54,100.00
69	BSP	RADAR BASED STOCK LEVEL TRANSMITTER	2	85,00,000.00
70	BSP	RIO PANEL	15	45,14,850.00
71	BSP	Rotameter	20	75,600.00
72	BSP	Sample Gas Refrigeration Cooler	5	7,14,780.00
73	BSP	VORTEX FLOW METER;	6	5,62,773.00
74	BSP	Conductivity Sensors and Meters	5	1,50,000.00
75	BSP	Calorific Value Analyzers/meters	1	45,00,000.00
76	BSP	Vibration probes	30	3,85,082.23
77	BSP	Vibration Measurement Systems	15	35,00,000.00
78	BSP	SS tubes and fittings	1 set	25,00,000.00
79	BSP	PARTIAL DISCHARGE MEASURING KIT	2	7,65,000.00
80	BSP	THERMAL IMAGING CAMERA,0 TO +1000 DEG C	3	6,04,769.07
81	DSP	Design, engineering, manufacture, supply, Erection/Installation, Configuration,	1	28,23,333.33

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		Integration with existing network, Testing & commissioning of Remote Flame Monitoring System in BF Bleeder- 1, 2 & BOF Flare Stack using Thermal Imaging Camera, temp- 500degC to 2000degC (equivalent Indian standard for EMC is IS 17784-1) on a turnkey basis		