

BOQ CUM RATE SCHEDULE

TENDER NO. BHEL:NR(SCT): DHOLPUR:ELE AND C&I:364

Sl. No	ITEM DESCRIPTION	UNIT	QTY	UNIT RATE	(IN Rs.)	TOTAL AMOUNT (Rs IN FIGURES AND WORDS)
PANELS / CONSOLES / RACKS						
1	CONTROL CABINETS FOR S.G. (750L X 2415H X 750W)	No.	22			
2	CONTROL CABINETS FOR T.G. (750L X 2415H X 750W)	No.	23			
3	MARK VI PANEL (2256L X 2400H X 908W)	No.	2			
4	CONTROL CABINETS FOR HMI (800L X 2100H X 600W)	No.	1			
5	HARD WIRED BACK UP PANEL (1500L X 2415H X 800W)	No.	1			
6	HMI DESK (900L X 865H X 1193 W)	No.	7			
7	SWAS DRY PANEL (4500L X 2300H X 1200W)	No.	1			
8	SWAS WET PANEL (5000L X 2300H X 700W)	No.	1			
9	SWAS CHILLER PANEL (3000L X 1300H X 1800W)	No.	1			
10	MASTER CLOCK PANEL (900L X 2415H X 600W)	No.	1			
11	MASTER CLOCK (528 L X 1770H X 500W)	No.	8			
12	GT AUX CONTROL PANEL (1000L X 2330H X 600W)	No.				
13	GT FIRE FIGHTING PANEL (800L X 2000H X 500W)	No.				
14	INLET AIR FILTER PANEL (1000L X 1500H X 500W)	No.				
15	EVAPORATIVE COOLING PANEL (600L X 2000H X 600W)	No.				
16	GFD PJB (800L X 650H X 250W)	No.				
17	GFD CJB (1000L X 1300H X 250W)	No.				
18	GFD LP (950L X 880H X 300W)	No.				
19	GD PJB (1000L X 1000H X 400W)	No.				
20	GD CJB (1000L X 1000H X 400W)	No.				
21	GD LP (1000L X 1000H X 400W)	No.				
22	2X12V BATTERY AND CHARGER FOR CO2 SYSTEM	No.				
23	STEAM LEAK DETECTION PANEL (800L X 2315H X 800W)	No.				
24	ASSERTOR PANEL (INCLUDING PROBES) (755L X 1345H X 340W)	No.	4			

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25	DIGITAL AVR PANELS (1200L X 2145H X 1150W)	No.	3		
26	DC EOP/JOP CONTROL PANELS 1000L X 2200H X 800W)	No.	2		
27	DC EOP / JOP SERIES RESISTANCE BOX - 1350L X 750H X 840W)	No.	2		
28	STATOR END WINDING VIB PANEL (800L X 2345H X 800W)	No.	1		
29	GENERATOR CO2 PANEL (620 W x 750 H x 350 D)	No.	1		
30	Open Type Instrument Rack	No.	29		
31	Closed Type Instrument Rack	No.	11		
<u>Cable tray erection including supports fabrication / erection</u>					
32	Ladder / perforated cable trays 300 mm wide including 250 mm wide cable duct with cover	Mtr.	75		
33	Ladder / perforated cable trays 150 mm wide including 180 mm wide cable duct with cover	Mtr.	150		
34	Ladder / perforated cable trays 100 mm wide	Mtr.	3075		
35	Ladder / perforated cable trays 50 mm wide including 60 mm wide cable duct with cover	Mtr.	2115		
<u>Junction boxes / Indication boxes / Local control stations.</u>					
36	Junction boxes upto 12 ways / local push buttons / Hooters	No.			
37	Junction boxes upto 24 ways	No.	77		
38	Junction boxes upto 80 ways	No.	59		
39	Junction boxes with cold junction compensation (SUV -13)	No.	14		
<u>Power / Control / Signal cables laying, dressing, clamping & termination.</u>					
40	2 Core / 1 Pair Cable (armoured / un-armoured) Core size upto 2.5 Sq. mm	Mtr	3000		
41	3 Core / 1 Triad Cable (armoured / un-armoured) Core size upto 2.5 Sq. mm	Mtr	11700		
42	4 Core / 2 Pair Cable (armoured / un-armoured) Core size upto 2.5 Sq. mm	Mtr	78200		
43	5 Core Cable (armoured / un-armoured) Core size upto 2.5 Sq. mm	Mtr	8500		
44	7 / 8 Core / 4 Pair / 2 Triad Cable (armoured / un-armoured) Core size upto 2.5 Sq. mm	Mtr	33500		

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45	10 - 16 Core / 8 Pair Cable (armoured / un-armoured) Core size upto 2.5 Sq. mm	Mtr	13000		
46	17 - 24 Core / 12 Pair Cable (armoured / un-armoured) Core size upto 2.5 Sq. mm	Mtr	15700		
47	25 - 48 Core / 16-24 Pair Cable (armoured / un-armoured) Core size upto 2.5 Sq. mm	Mtr	6000		
48	3/3.5 C Power Cable Upto 10 sq mm	Mtr			
49	3/3.5 C Power Cable 16-50 sq mm	Mtr	300		
50	3/3.5 C Power Cable 70-120 sq mm	Mtr			
51	Pre-fabricated cable (upto 50 M length)	No.	10		
52	4P UTP E-CAT CABLE	Mtr	7500		
<u>Impulse pipe / tubing</u>					
53	6mm / 8 mm Cooper Tube	Mtr	100		
54	6mm SS Tube	Mtr			
55	1/2 , 3/4 " CS impulse Pipe	Mtr	1895		
56	1/2 , 3/4 " AS impulse Pipe	Mtr	126		
57	3/4", 1/2 " SS impulse Pipe	Mtr	50		
58	GI Pilica conduit with fittings (upto 1" size)	Mtr	50		
59	GI Pilica conduit with fittings (above 1" size)	Mtr	50		
60	GI rigid conduit upto 1"	Mtr	50		
61	GI Pipe 15 NB	Mtr	50		
<u>Local / Field mounted Instruments / Equipment</u>					
62	UCB mounted instrument / indicator / recorder / control station	No.	50		
63	Vibration racks in UCB / Local Wall Mounted Panel	No.	2		
64	Temperature controller	No.	3		
65	Pneumatic indicating controller	No.	5		
66	Limit Switches	No.	10		
67	Solenoid Valves	No.			
68	Air Filter Regulators	No.	10		

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69	I / P Convertor	No.	39			
70	FLOW METERS	No.	2			
71	Temp. elements ie.RTDs & Thermocouples (Simplex / Duplex / Triplex, with thermowell)	No.	244			
72	Metal Temperature Measuring Thermocouples (Simplex / Duplex)	No.	28			
73	Analysers	No.	37			
74	Pressure / diff. Pressure / temperature/ level gauge	No.	412			
75	Pressure / diff. Pressure / temperature / level switch (level switch can be flange type or welded type / with or without electronic unit)	No.	124			
76	Pressure / diff. Pressure / level / position transmitter	No.	215			
77	SENSORS / PICKUPS WITH CABLES					
a	Relative / absolute Vibtation	No	36			
b	Relative Expansion	No	2			
c	Axial Shift	No	2			
d	Speed pick up	No				
e	Vibration probes	No				
78	Printers	No	6			
79	PC set with monitor / keyboard / power supply unit/furniture	No	7			
80	Callibration of SOV operated pneumatic trip Valves	No	10			
81	Callibration / commissioning of regulating Control Valves with positioners / LS / PFT	No	10			
82	Commissioning of motorised actuators	No	10			
	Checking Calibration / commissioning of Solenoid Valves, Switches,Vibration Elements,Detectors,Servo Valves,RTD/T-C etc already mounted on Skid	No	49			
83	Electronic Earthing Pit with electrode	No	10			
84	Fabrication / Erection of structural steel	MT	5			

TOTAL

NOTES

- 1) All dimensions are in mm unless otherwise specified.
- 2) The contractor is required to quote unit-rate as well as total price against each item in the above schedule. Sub-

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total on each page shall be indicated and brought forward to next page and duly signed. The contractor shall ensure that grand total on this page is arithmatically checked and corrected and certified accordingly while signing below. Despite this if any calculation error is noticed after tender opening, BHEL reserves the right to deal with it as deemed fit at their end

- 3 In case of omission in quoting any rate, the evaluation will be done considering the highest quoted rate obtained against that item but the work, if awarded, will be on the lowest quoted rate obtained against that item.

- 4 The rate shall be entered in figures as well as in words. In case of difference in rates between words and figures, the lesser of the two will be treated as valid rate.

- 5 The bidders shall enter both 'Unit Rate' & 'Amount'. In case of any mismatch between 'Total Amount based on Unit Rate' & 'Total Amount as quoted', the lower of the two shall be considered for evaluation and award.

- 6 The quantities indicated against each item above are tentative and same are liable to vary depending upon the site requirement. The contractor has to handle all items indicated by BHEL Engineer for completion of work.