

**FIRE FIGHTING SYSTEM FOR Extension of 400kV Tumkur Pooling Station(Pavagada), Extension of 400/220kV Mysore substation and extension of 400/220kV Tumkur (Vasantnarsapur) EXTN. SUBSTATION POWERGRID PROJECT**

**Location : Extension of 400kV Tumkur Pooling Station(Pavagada) Substation**

**A. Detailing of One Lot of Hydrant system alongwith pipe from tap-off to transformers and reactors as per technical specification**

SI No.	Item Description	Qty	Unit
1	MS Black pipe, medium grade, 250 NB	630	Meter
2	MS Black pipe, medium grade, 150 NB	30	Meter
3	MS Black pipe, medium grade, 100 NB	60	Meter
4	MS Black pipe, medium grade, 80 NB	30	Meter
5	Wrapping & coating tape	50	Sqmt.
6	External hydrant Valve-80NB	3	Nos.
7	Hose Box-External	3	Nos.
8	Hose pipe with coupling-15 meter long	6	Nos.
9	GM Branch pipe with nozzle	3	Nos.

**B.1 Detailing of HVW Spray system for Three (2) nos 500 MVA, 3 Phase, 400KV Transformer**

SI No.	Item Description	Qty	Unit
1	Deluge valve-150NB	2	No.
2	Gate Valve-150NB	6	Nos.
3	Y strainer-150NB	2	No.
4	Spray Nozzle	228	Nos.
5	QB detector	124	Nos.
6	Solenoid Valve	2	No.
7	DVLCP	2	No.
8	Pressure switch	4	Nos.
9	GI Pipe-150NB	36	Meter
10	GI Pipe-100NB	108	Meter
11	GI Pipe-80NB	96	Meter
12	GI Pipe-65NB	204	Meter
13	GI Pipe-40NB	84	Meter
14	GI Pipe-32NB	12	Meter
15	GI Pipe-25NB	48	Meter
16	Detection line GI Pipe-25NB	384	Meter
17	Pylon Support pipe-80NB	280	Meter

**B.2 Detailing of HVW Spray system for One no 125 MVAR, 3 Phase, 400KV Reactor**

SI No.	Item Description	Qty	Unit
1	Deluge valve-100NB	1	No.
2	Gate Valve-100NB	3	Nos.
3	Y strainer-100NB	1	No.
4	Spray Nozzle	66	Nos.
5	QB detector	42	Nos.
6	Solenoid Valve	1	No.
7	DVLCP	1	No.
8	Pressure switch	2	Nos.
9	GI Pipe-100NB	23	Meter
10	GI Pipe-80NB	13	Meter
11	GI Pipe-65NB	36	Meter
12	GI Pipe-50NB	48	Meter
13	GI Pipe-32NB	21	Meter
14	GI Pipe-25NB	164	Meter
15	Pylon Support pipe-80NB	24	Meter
16	Pylon Support pipe-65NB	54	Meter

**C. Detailing of One Lot Fire Detection and alarm system for Switchyard Panel Rooms as per technical specification for all three S/s**

SI No.	Item Description	Qty	Unit
1	Conventional Ionisation Smoke Detector	6	Nos.
2	Conventional MCP	3	Nos.
3	Conventional hooter	3	Nos.
4	2CX1.5 Sqmm Unarmoured detection cable	60	Meter
5	2CX1.5 Sqmm Armoured detection cable	1000	Meter

**D. Detailing of One Lot of Portable fire extinguisher**

SI No.	Item Description	Qty	Unit
1	4.5kg CO2 type	3	Nos.