

**ANNEXURE\_FIRE\_PROTECTION**

MATERIAL HANDLING OF FIRE PROTECTION SYSTEM - RECEIPT OF MATERIAL, UNLOADING, PROPER STORAGE, MATERIAL RECONCILIATION, SAFE KEEPING, HANDING OVER TO BHEL / FIRE FIGHTING CONTRACTOR, PROPER RECORD KEEPING ETC TO COMPLETE.

**BILL OF QUANTITY - THE BILL OF QUANTITY / UNIT WEIGHT MENTIONED HEREAFTER IS TENTATIVE AND MAY VARY DURING DETAILED ENGINEERING STAGE. MODE OF PAYMENT SHALL BE EQUIPMENT / ITEM WEIGHT EXCLUDING PACKING WEIGHT, BIDDER TO QUOTE ACCORDINGLY.**

SR. NO.	DESCRIPTION	SIZE (MM)	MOC	UNIT	QTY.	UNIT WEIGHT	TOTAL WEIGHT ESTIMATE (Kg)	GRAND TOTAL (Kg)
<b>D.</b>	<b>400 kv KHANDWA</b>							
	<b>HVW spray system, Hydrant system and complete U/G &amp; O/G piping and accessories etc. outside the pump house</b>							
1	PIPE	150 NB	G.I.(medium)	Meter	22	21	462	<b>6189.42</b>
1	PIPE	100 NB	G.I.(medium)	Meter	12	13.56	162.72	
2	PIPE	65 NB	G.I.(medium)	Meter	66	8	528	
3	PIPE	50 NB	G.I.(medium)	Meter	66	5.52	364.32	
4	PIPE	40 NB	G.I.(medium)	Meter	60	4.54	272.4	
5	PIPE	25 NB	G.I.(medium)	Meter	178	2.51	446.78	
6	PIPE (FOR PYLON)	80 NB	M.S.	Meter	154	8	1232	
7	SPRAY NOZZLES (K-23*120)	20 NB	BRASS	Nos.	78	1	78	
8	DELUGE VALVE WITH COMPLETE TRIM CONNECTION	150 NB	C.I.	Nos.	1	120	120	
9	GATE VALVE	150 NB	CI	Nos.	3	80	240	
10	QUARTZOID BULB DETECTOR	15 NB	BRASS	Nos.	46	0.7	32.2	
11	STRAINER Y TYPE	150 NB	MS Fabricated	Nos.	1	130	130	
12	LOCAL CONTROL PANEL FOR DV	-	-	Nos.	1	15	15	
13	PRESSURE SWITCH			Nos.	2	2	4	
14	SOLENOID VALVE			Nos.	1	2	2	
17	MS FITTINGS			Lot	3	400	1200	
18	GI FITTINGS			Lot	3	100	300	
19	WRAPPING COATING			Lot	3	200	600	
	<b>Hydrant system, complete U/G piping and accessories etc. outside the Pump House for Fire Protection of 400/220kV</b>							
1	PIPE CONFIRMING IS 1239	250NB	M.S.( medium )	Meter	0			<b>994.1</b>
2	PIPE CONFIRMING IS 1239	80NB	M.S.( medium )	Meter	6	8.38	50.28	
	<b>UNDER GROUND PIPING</b>						0	
1	PIPE CONFIRMING IS 1239	100NB	M.S.( medium )	Meter	18	12.99	233.82	
2	SINGLE HEADED HYDRANT VALVE	63 NB	G.M.	Nos.	1	35	35	
3	HOSE BOX (Suitable for 2x15m Hose)	-	M.S.	Nos.	1	40	40	
4	HOSE PIPE	63ØX15M Long	-	Nos.	2	20	40	
5	BRANCH PIPE WITH NOZZLE	63 NB	G.M.	Nos.	1	15	15	
6	ANNUNCIATION PANEL IN PUMP HOUSE			Nos.	1	40	40	
7	FIRE ALARM CUM ANNUNCIATION PANEL IN CONTROL ROOM BUILDINGS			Nos.	1	40	40	
8	GATE VALVES	250NB		Nos.	0		0	
8	CONSUMABLE LIKE PAINTS, PRIMER, ANGLE, CHANNELS, PLATES, ANCHOR FASTENER, U CLAMP, NUT BOLT, GASKET ETC.			<b>LOT</b>	<b>1</b>	500	500	