APPENDIX - II

TYPICAL BILL OF MATERIAL FOR FIRE FIGHTING SYSTEM

SR.NO.	DESCRIPTION	QTY	UNIT
A	**PUMP ROOM**		
1	ELECTRICAL MOTOR DRIVEN FIRE PUMP - 350 m3/hr, 70 mwc Main Electric motor driven horizontal centrifugal end suction & top discharge pump set with impeller, shaft and sleeve coupled with TEFC electric motor provided on common base plate including coupling, coupling guard, foundation bolt etc.	1	No
2	JOCKEY PUMP - 15 m3/hr, 70 mwc Jockey pump electric motor driven horizontal multistage back pull out pump set with CI impeller, shaft and shaft sleeve coupled with TEFC electric motor provided on common base plate including coupling, coupling guard, foundation bolt etc.	1	No.
3	DIESEL ENGINE DRIVEN FIRE PUMP - 350 m3/hr, 69 mwc Stand-by Diesel Engine driven horizontal centrifugal end suction pump set with bronze, shaft and shaft sleeve coupled with diesel engine (radiator/ heat exchanger cooled) provided on common base plate including fuel tank, diesel engine controller, muffler, silencer, coupling guard, foundation bolts etc.	1	No.
4	Auto Start Panel - for the Diesel engine complete auto/ manual switch, indication lamps protective fuses with battery charger, suitable of working on 440 V, AC, three phase, enclosure being vermin & dust proof.	1	No.
5	CABLE AND EARTHING MATERIAL	1	Lot*
6	MS ERW PIPES HEAVY C CLASS AS PER IS:1239		
A	200 NB	1	Lot*
B	150 NB	1	Lot*
C	80 NB	1	Lot*
D	50 NB	1	Lot*
E	25 NB	1	Lot*
7	**SLUICE VALVE : BOLTED BONNET, CAST STEEL GATE VALVE**		
A	150 NB	1	Lot*
B	80 NB	1	Lot*

8	Supplying, installing ,testing and commissioning **C.I. butterfly valves** as per BS 5155	1	Lot*
A	150 MM	1	Lot*
B	50 MM	1	Lot*
9	WAFER TYPE NON RETURN VALVE		
A	150 NB	2	No.
C	50	1	NO
10	STAINER WITH FLANGES, NUT, BOLTS & GASKET		
A	200	1	No.
11	PRESSURE GAUGE WITH GAUGE COCK – (RANGE 0-16 KG/SQ.CM (G))	3	No.
12	PRESSURE SWITCH WITH NECESSARY FITTINGS	3	No.
13	BALL VALVE: MOC - ASTM A216 Gr. WCB		
	25 NB	3	No.
14	25 NB AIR RELEASE VALVE WITH ALL NECESSARY FITTINGS	3	No
B	**FIRE ALARM SYSTEM**		
1	Manual Call Point	5	No
2	Siren with range of 1 km	1	No
3	Smoke detector in panel room	30	No
4	Panel 4 zone	1	No
5	1.5X2c AR cable with fittings	1000	M
C	**FIRE EXTINGUISHER**		
1	ABC TYPE FIRE EXT 6 KG	30	NO
2	CO2 TYPE 4.5 KG	30	NO
D	**HYDRANT SYSTEM**		
1	Supplying ,installing , testing and commissioning of heavy duty Ms C confirming to IS 1239 Pt -I heavy grade with painting ,suitable type of supports for all size pipes. Malleable specials such as Reducers, Tees, Elbows, flanges. Including cutting, welding, fixing in/ on walls by using suitable supports etc. as per drawings. It includes support & wrapping coating cost.		
A	150 MM	600	Mtr
B	100 MM	250	Mtr
C	80 MM	15	Mtr

2	Supplying ,installing testing and commissioning of yard hydrant compressing of the following:		
A	GM headed hydrant valve as per IS 5290, with 63mm dia. Instantaneous out & 80mm dia. Flanged inlet ,blank caps, chain and hand wheels etc. complete.	15	Nos
B	GM short branch pipe with nozzle As per IS 304.	15	Nos
C	15 M long , 63mm dia RRL hose with instantaneous GM couplings and hoses shall be stored inside the hose cabinet	30	Nos
D	**M.S. hose cabinet** stand mounted type fabricated out of M.S. sheet of 18 swg. With glass fronted (4mm thick glass with rubber beeding)double door	15	Nos
E	Hose reel drum with accessories	12	Nos
3	Supplying, installing ,testing and commissioning **C.I. butterfly valves** as per BS 5155		
A	150 MM	4	Nos
B	100 MM	12	Nos
5	Water monitor with fittings - Size 100 mm	12	Nos
6	Four way fire brigade inlet	1	Nos

* As per layout