

## Bill of Quantity

**Supply, Installation, Testing, Commissioning and 05 Years Annual Maintenance Contract (AMC) of Fire Hydrant System (Wet/Dry) and Fire Alarm System C&D Block along with Dining Hall in Basohli Boys Hostel in SMVDU.**

S.No	Description of Item	Unit	Quantity	Rate	Amount
1	SITC of Underground M.S Pipes (B class) including cutting, screwing, welding etc. and providing all fitting e.g flanges, bends, tees, elbows reducers, clamps, hinges etc.,. Underground pipes shall be wrapped & coated by providing twin coating bitumen coating Wrapping with bitumen Hessian cloth & finishing with bitumwn pain of following size:				
	a) 150 mm dia	Mtr	350		
	b) 100 mm dia	Mtr	24		
	c) 80 mm dia	Mtr	12		
2	SITC of over ground M.S. Pipes (B class) including cutting holes & chases in bricks or RCC wall/slab & Making good the same. Painting with one coat of primer and two coats of synthetic enamel of approved shade of following size:				
	a) 200 mm dia	Mtr	8		
	b) 150 mm dia	Mtr	24		
	c) 100 mm dia	Mtr	48		
	d) 80 mm dia	Mtr	18		
	e) 25 mm dia	Mtr	12		
3	SITC of single headed oblique pattern hydrant Landing valve with 80MM dia flanged inlet and 63mm dia instanteneous type SS female outlet complete with cap and all Accessories.	Each	14		
4	Suply of Non-percolated flexible hose RRL 63mm dia X 15 mtr long complete with intanteneous type 63mm dia SS male & female couplingand Riverted to hose pipe with riverts and copper wire	Each	28		
5	Supply % installation of SS 63MM dia short branch pipe with 20mm dia nozzle	Each	14		
6	SITC of First aid hose reel wall mounting swinging type complete with drum & brackets, 25mm dia ball valve & 20mm dia 30 mtr long high pressdure apd hose with shut off nozzel complete as req.	Each	10		
7	SITC of cast iron double flanged ISI marked Butterfly valve complete with rubber insertion, nuts,bolts,washers etc, of following size:				
	a) 100 mm dia	Each	5		
	b) 150 mm dia	Each	6		
	c) 80 mm dia	Each	14		
8	SITC of following accessories:				
	a) 25 mm dia spring loaded air release valve with isolated cork.	Each	4		
	b) Pressure Guage	Each	5		
	c) Pressure Switch	Each	2		
	d) 25mm dia gate valve	Each	4		

9	SITC of cast iron double flanged ISI marked NRV complete with rubber insertion, nuts, bolts, washers, etc of following size:				
	a) 150 mm dia	Each	2		
	b) 100 mm dia	Each	1		
10	SITC of SS fire Brigade connection with collection head 63mm, 4way instantaneous type male couplings with flanged outlet complete with blank caps nuts, bolts, & rubber insertions.	Each	1		
11	SITC of thye AUTOMISATION CONTROL PANEL consist of control cubicle of fabricated sheet steel suitable for floor mount and for 3 phase, 4 wire, 50 hz system incorporating suitable isolating main switches, bus bars, relays, contractors, indication lamps, fuses, instruments automatic isloator and auxillary switch including connectors comlete as required for 1 main electric pump, 1 jockey pump and 1 spare etc as required for the system	Each	1		
12	Supplying & laying of 4 core 10 sqmm aluminium cable form motor to electrical panel for automation of the system	mtr	15		
13	Supplying & laying of 3.5 core 25 sqmm aluminium cable form motor to electrical panel for automation of the system	mtr	20		
14	SITC of Horizontally centrifugal end suction pump complete for delivery 1650 ltr / min against a total head of 55 mtrs. With 40 HP three phase motor with speed of 2900 rpm with bronze impeller and coupling , base frame and AVM pads complete as required,. The pump shall be provided with mechanical seal.	Each	1		
15	SITC of Horizontally mounted centrifugal pump complete for delivery 180 ltr / min against a total head of 55 mtrs. With 40 HP three phase motor with speed of 2900 rpm with bronze impeller and coupling , base frame and AVM pads complete as required,. The pump shall be provided with mechanical seal.	Each	1		
16	Earthwork excavation in trenches including backfitting and leveling the top after laying of MS pipe	Rmtr	350		
17	P/F shutter & frame for internal hose cabinet overall size 1.5m wide X 1.80 m high comparising of thick M.S frame of 40 mm thick M.S angle with double leaf glazed shutter and 5 mm thick clear glass with 3 nos. heavy duty hinges per shutter with locking arrangment including painting, the word 'FIRE HOSE BOX' to be painted on glass	Each	10		

18	Supply & installation of weather proof hose cabinets fabricated from 18 swg MS sheet / section with full front glass door and suitable to accommodate 2.nos 15 mtr long hose and 1 no branch pipe as req.	Each	4		
19	SITC of air vessel 250mm dia and 1.2 mtr high with dished top, made of 6mm thick MS pipe complete with provision of 25 NB dia gun metal air release valve, 20mm dia stop valve, 25NB gun metal pressure release valve , 25 NB drain valve, Pressure guage & all accessories as pre. and painted	Each	1		
20	SITC of gumetal suction coupling for Fire Brigade drawal of water from fire tank of 100 mm dia	Each	1		
21	S/L of 2 x 1.5 sqmm dia PVC insulated copper conductor cable directly on the surface complete as req.	Mtr	50		
22	Providing & fixing ABC type extinguishers 4 kg cap. Complete with discharge arrangement, high pressure hose pipe complete.	Each	24		
23	Providing & fixing CO2 type extinguishers 4.5 kg cap. Complete with wheel valve arrangement high pressure wire Braided hose pipe.	Each	12		
24	Supply & fixing a set of GI fire bucket with round botten each set comprising of 4 Nos of buckets each of 9 ltr cap. Including fixing suitable brackets in the hook for holding buckets Painted with red paint & filled of sand in 2 buckets of each set.	Each	12		
<b>TOTAL</b>					