

ESTABLISHMENT OF NON-COMMUNICABLE DISEASE AND GERIATRIC CARE FOR INDIAN INSTITUTE OF DIABETES AT PULAYANARKOTTA,TRIVANDRUM-PHASE II

PART IV- SITC OF FIRE FIGHTING SYSTEM					
SL NO	DESCRIPTION	QTY	UNIT	Rate Rs in figures&words	Amount in Rs
1	MAIN PUMPING SYSTEM				
	Providing Tee and making necessary arrangements for connecting the piping from the existing pumping system at IID including pump & panel overhauling, pressure regulating etc	1	1 job		
2	PIPING				
2.1	Providing, laying, testing and commissioning of 'C' class heavy duty MS pipe conforming to IS:1239 I/c fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc fixing the pipe on the wall/ ceiling with suitable clamps and painting with two or more coats of synthetic enamel paint of required shade complete as required.				
a	150 mm dia	10	Rm		
b	100 mm dia	20	Rm		
c	80 mm dia	15	Rm		
d	50 mm dia	5	Rm		
e	25 mm dia	10	Rm		

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2.2	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589 / 1239 including drop forged fittings like elbows, tees flanges, tapers, nuts bolts, gaskets etc. in ground including excavation & providing cement concrete blocks as supports, anticorrosive wrapping coating min 2mm thick as per IS10221, refilling the trench with compaction etc. of following sizes complete as required.				
a	100 mm dia	225	Rm		
b	80 mm dia	20	Rm		
3	BUTTERFLY VALVE				
	Supplying , fixing, testing and commissioning of butterfly valve PN 1.6, bronze/ Gun metal seat duly ISI marked complete with Nuts, Bolts, washers, gaskets, conforming to IS 13095 of following sizes as required.				
a	150 mm dia	1	Each		
b	100 mm dia	2	Each		
c	80 mm dia	1	Each		
d	25 mm dia (Ball Valve)	4	Each		
4	NON RETURN VALVE				

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SL NO	DESCRIPTION	QTY	UNIT	Rate Rs in figures&words	Amount in Rs
	Providing and fixing horizontal type cast iron double flanged Non - return valve of approved quality conforming to IS:5312 with bolts, nuts, washers, 3mm thick insertion rubber gaskets complete. as reqd.				
a	100 mm dia	1	Each		
b	50 mm dia	1	Each		
5	HYDRANT VALVE				
	Supplying and fixing single headed internal hydrant valve with instantaneous gun metal /SS coupling of 63 mm dia with cast iron wheel, ISI marked, conforming to IS 5290 (type A) with blank Gunmetal cap and chain as required.	7	Each		
6	HOSE REEL				
	Supplying and fixing First-Aid Hose Reel with MS construction spray painted in post Office Red drum and brackets, Conforming to IS 884 with upto date amendments, complete with the following as required. (a) 30 m. long 20 mm (nominal internal) dia water hose Thermoplastic (Textile reinforced) Type-2 as per IS: 12585 © Drum and brackets for fixing the equipments on wall. (d) Connections from riser with 25 mm dia stop valve & M.S. Pipe	4	Each		
7	HOSE BOX				
	Supplying and fixing of weather proof hose cabinet fabricated from 2mm thick MS sheet with 6mm thick glazed front glass doors and looking arrangements suitable for accommodate internal accommodate of 2 no. of 15 Mtrs long hose pipe, 1 No. branch pipe, fittings etc. The cabinet shall be painted with one coat of primer and 2 coats of synthetic enamel paint of post office red externally and white internally and shall be suitably mounted on concrete base.	7	Each		

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8	FIRE HOSE				
	Providing and installation of 63 mm dia,15 Mtr long rubber lined woven jacketed hose pipe, type- A (Reinforced rubber lined) of IS-636-1988 complete with necessary instantaneous spring lock type coupling at the ends to match with landing valve / hose pipe / branch pipe with gunmetal/SS male & female couplings (IS:903:1993)	14	Each		
9	BRANCH PIPE				
	Providing and installation of Branch pipe of 63 mm dia having Gunmetal/SS body with hexagonal head of 20mm dia nozzle conforming to IS903 with ISI mark	7	Each		
10	PRESSURE GAUGE				
	Supplying, fixing, testing and commissioning of 0-15 Kg/sq cm100mm dia Dial type pressure gauge with isolation cock and pipe at hydrant station as per specification.	2	Each		
11	AIR RELEASE VALVE				
	Supply, installation, testing and commissioning of Gun metal Air Release valve 20mm dia	1	Each		
12	FIRE BRIGADE INLET				
	Supply, installation, testing and commissioning of 4 way Fire Brigade Inlet connection of 63 mm dia. built - in Gun metal Non-return valves instantaneous coupling type arrangement to be connected to wet riser main.	1	Each		
13	EXTINGUISHER				
	Supply and installation of DCP type fire extinguisher of 5 kg. Capacity complete with initial charges and installation brackets. Supply and installation, testing and commissioning of DCP type fire extinguisher with 5 kg. Capacity complete with installation brackets with ISI mark IS:2171/13849	10	Each		

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SL NO	DESCRIPTION	QTY	UNIT	Rate Rs in figures&words	Amount in Rs
14	Supply and installation, testing and commissioning of CO2 type fire extinguisher with 4.5 kg. Capacity complete with installation brackets with ISI mark IS:2878	4	Each		
15	ADDRESSABLE FIRE ALARM REPEATER PANEL Supply, installation, testing & commissioning of networkable Repeater panel with built in degarde mode function.The panel should have inbuilt TCP/IP communication for Panel Program and Remote Monitoring option through LAN or WAN communication.The panel shall be able to give location of all fire and More Fire /fault and Isolation conditions of addressable units via the address codes. The panel should have inbuilt common Alarm, Fault and monitored sounder output. The panel shall have a 8x40 characters LCD display and analog output, reset button etc.The Panel Should have protection caregory of IP30. Also the panel should have the option to operate in manned and unmanned mode.The panel shall have a built in power supply and battery charger along with maintenance free 24 AH, 2 x 12 volt SMF Lead acid batteries capable of running for a minimum of 24 hours with battery charger complete as required.and as per specifications and Duly Approved by EN54/LPCB/VDS/FM	1	Each		
16	SMOKE DETECTORS Supply and installation, testing and commissioning , of Intelligent Analog Addressable Multi-Sensor type Smoke Detector with inbuilt turbo Isolator and integral response indicator with 360 degree viewing angle. Detector shall communicate 3 danger levels for differentiated alarm activation and high tolerance to dust,dirt, temperature fluctuations and air currents. Detector should have unquie address for communication and assigned through panel with Mounting Base as required with the protection category of IP40 and Duly Approved by EN54/LPCB/VDS/FM/UL suitable and compatiable to connect the exisitnig addressable fire alarm main panel in IID building	76	Each		

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17	HEAT DETECTORS				
	Supply and installation, testing and commissioning of Intelligent Analog Addressable Heat Detector (Static + ROR) with inbuilt turbo Isolator and integral response indicator with 360 degree viewing angle. Detector shall communicate 3 danger levels for differentiated alarm activation. Detector should have unique address for communication and assigned through panel with Mounting Base as required with the protection category of IP40 and Duly Approved by EN54/LPCB/VDS/FM/UL	5	Each		
18	MANUAL CALL POINT				
	Supply and installation, testing and commissioning of Intelligent addressable manual call point with inbuilt turbo Isolator suitable for flush or surface mounting, call point shall include test key feature without removing the glass. Also should have protection category of IP44 and extra accessories as required, duly approved by EN54/LPCB/VDS/FM	5	Each		
19	LOOP POWERED SOUNDER				
	Supply and installation, testing and commissioning of Intelligent addressable loop powered/external power sounder with base, inbuilt turbo Isolator, able to provide an o/p of 99dBA at 1m, peak light o/p of at least 3.2cd and shall have 11 programmable tones, 3 volume settings selectable from the panel and fully synchronized with other sounders and shall have the ability to switch between one tone for alert and one tone for evacuation. Shall have protection category of IP42 and duly approved by EN54/LPCB/VDS/FM	5	Each		
20	INPUT MODULE				
	Supply and installation, testing and commissioning of Addressable four input/output module with inbuilt isolator and shall have the LED indication for Normal, Fault, test, and activation. The module shall have the option for configuration as fail safe operation and duly approved by EN54/LPCB/VDS/FM	2	Each		
21	FRLS CABLE				
	Supply and installation, testing and commissioning of 2C x 1.5 Sq.mm twisted pair copper cable ISI marked with proper clamping, supports and terminations through wall/ceiling.	980	Rm		
	TOTAL - PART IV -FIRE FIGHTING WORKS				