

Specification of Fire fighting System

S.N	Parameters	Specification	Remarks
Pipes and fittings			
1	Size	Diameter : 25 mm , Length Minimum 30 Meters	
		Diameter : 80 mm , Length Minimum 87 Meters	
		Diameter : 100 mm , Length Minimum 74 Meters	
		Diameter : 150 mm , Length Minimum 12 Meters	
2	Equivalent	HULAS, JAGADAMBA or Equivalent.	
3	Features	Supply, Installation, Testing & commissioning & Joining by but welded MS Pipe class 'C' with approved bends, reducers, flanges, nut & bolts etc after cutting; should conceal the pipes, should paint the pipes with red oxide paint single coated/double coated as required.	
Cast iron butterfly valve			
4	Size and Quantity	150 mm dia Minimum 1 set	
		100 mm dia Minimum 4 set	
5	Features	Should fix cast iron butterfly valve as per (is: 13095) of class PN 16, carbon steel body lining & of approved make. Should provide Complete sets	
CI body flanged			
6	Size and Quantity	100 mm dia. Minimum 1 set	
7	Features	Should fix in position of cast iron Y strainer ISI 5312 of CI body flanged (stainless steel/brass mesh) including flanged joints by necessary MS flange, Nut Bolts, Gasket all complete	
NVR			
8	Size and Quantity	150 mm dia Minimum 1 set	
		100 mm dia Minimum 1 set	
9	Features	Should fix in position of NRV including making flanged joints by necessary MS flange, nut & bolts, gasket all complete	
MS flange, MS Channel nut & bolts, gasket			
10	Features	Should replace in position of MS flange, MS channel nut bolts and gasket in all place of system, Should be certified and standard	
Foot Valve			
11	Size and Quantity	150 mm dia. Minimum 1 set	
12	Features	Should Provide and fix in position of Foot Valve including making flanged joints by necessary MS flange, nut & bolts, gasket all complete.	

Ball Valve		
13	Size and Quantity	25 mm dia. Minimum 10 set
14	Features	Should be nickel coated & hard chrome plated forged brass/ nonferrous alloy fully way ball valve (minimum working pressure of 20 bar) with operating handle of approved make. (including nipple)
Air Release Valve		
15	Size and Quantity	25 mm dia. Minimum 1 set
16	Features	Should be of forged brass body 25 mm dia. screwed inlet single acting air release valve. (including nipple), Should be certified and standard
Pressure Switch		
17	Quantity	Minimum 2 sets
18	Features	Should fix differential pressure switch for operation of fire pump placed in different places (Should work on 0-15 kg/cm ²)
Pressure Gauge with Nipple		
19	Quantity	Minimum 2 set
20		Should be work on 0-15Kg cm ²
Hose Pipe 1		
21	Quantity	Minimum 6 Sets
22	Features	Each should be 20m long 63 mm dia. hose Pipe, Brass branch pipes, one way landing valve, dally painted with red enamel painted, all complete. Should be certified and standard
Two way Landing Valve		
23	Quantity	Minimum 1 set
24	Features	Should be fixing position to copper branch pipes, two way landing valve, dally painted with red enamel paint. Should be certified and standard
Hose Pipe2		
25	Quantity	Minimum 2 sets
26	Features	Each should be 20m long 63 mm dia. hose Pipe, Brass branch pipes all complete. Should be certified and standard
MS Cabinet 1		
27	Quantity	Minimum 1 set
28	Size	Minimum 750 x 600 x 300 mm
29	Features	MS Cabinet should be with glass, lock, door and other connection facilities,

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MS Cabinet 2		
30	Quantity	Minimum 6 set
32	Size	Minimum 600 x 600 x 200 mm
33	Features	MS Cabinet should be with glass, lock, door and other connection facilities. all complete
Long Hose Reel with nozzle		
34	Quantity	Minimum 10 Sets
35	Size	Minimum 19mm x30.0 m long Hose Reel with nozzle
36	Features	Mild steel hose reel drum, Should be 360 degree swing with valve all complete set. Fire Shield, Kartar or equivalent
Fire extinguishers Minimum 9 kgs		
37	Quantity	Minimum 10 Sets
38	Features	ABC Powder type portable fire extinguishers conforming to IS: 13849 standard or Equivalent, Should fixed to wall with brackets complete
CO2 extinguishers		
39	Quantity	Minimum 1 Sets
40	Features	Capacity : Minimum 4.5 kg , Discharge: minimum 95% ; Discharge Duration: 25 - 60 sec.
Ball Valve.		
41	Size and Quantity	15 mm-, minimum 1 set
42	Standard	IS or Equivalent
43	Features	Should be nickel coated & hard chrome plated forged brass/ nonferrous alloy fully way ball valve (minimum working pressure of 20 bar) with operating handle of approved make. (including nipple)
Electrical Fire pump		
44	Quantity	Minimum 1 Set
45	Features	Minimum Flow 1600 lpm , Minimum head 100 meter, Should have electrical panel, Should be operate on 3 phase or single phase of 50Hz AC System, and all the required accessories. Should have ISO/CE or Equivalent Certification

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Jockey pump		
46	Quantity	Minimum 1 Set
47	Features	Minimum Flow 180 lpm , Minimum head 100 meter, Should have electrical panel, Should be operate on 3 phase or single phase of 50Hz AC System, and all the required accessories. Should have ISO/CE Certification.
Terms and Conditions		
48	Terms and Condition	<ol style="list-style-type: none">1. All the system should be installed in Existing fire fighting system having in Birendra hospital.2. Supplier may visit before bidding the tender to assure the scope of work.3. Supplier Should dismantle the existing fire fighting equipment (which are not working) to install the new system- on supplier's Cost.4. Supplier should provide hydraulic testing of existing pipe lines for entire system and should make leak proof for all system.5. If extra items which are not mentioned above for the full function of the system are needed then it is the responsibility of suppliers.6. Supplier should handover the system after the full function of Fire Fighting system.7. All the item mentioned above should be NS/IS/ISO or Equivalent standard.

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