

FIRE HYDRANT LEGEND	SR.	SYMBOL	DISCRPTION
1	---	---	FIRE HYDRANT PIPE MAIN
2	---	---	NOCE RETURN VALVE
3	---	---	SOURCE VALVE
4	---	---	COURT YARD HYDRANT VALVE
5	---	---	LANDING HYDRANT VALVE
6	---	---	HOSE BOX
7	---	---	FIRST AID HOSE REEL
8	---	---	AIR RELEASE VALVE
9	---	---	TWO WAY SHAMESE CONNECTION
10	---	---	RISE OR DROP

1. HYDRANT PLAN:

ON/OFF switches located near the hose reel hose or hydrant outlet, at each floor the main fire pump at the underground water tank with a capacity to discharge 50 liters per minute at 3 bar, pressure as measured at the terrace level should be installed.

The Riser for the building exceeding 18 meters and above 18 meters height should not be of less than 100 mm. internal diameter. The riser should be connected to the bottom of the terrace tank with a stop valve and a BVR to act as a Down - comer.

One riser is required for every 100sq. meters floor area and if the building is divided into, two or more parts then each part should have a separate riser with all the fittings at floor level. Each part should have one hydrant outlet with a coupling for attaching a 63 mm dia hose & 25 mm bore hose-reel hose with 8 mm. SS. Shut-off nozzle at each floor landing. The length of the hose reel hose should be enough to reach the farthest corner of the floor. Hose-box with 15 meters long 63mm. dia. hose and 12.5 mm. bore nozzle at alternate floors. The hose-reel hose should be coupled to the Riser.

Fire-service vehicle should be installed at a point near the entry to the premises where a Fire service vehicle can approach easily.

A permanent hydrant point comprising of 83 mm dia size 2nos of hydrant valves should be installed at the terrace level.

Overhead tank Refilling bypass connection should be done at the terrace level. The Overhead tank shall be of a capacity of not less than 20,000 liters. The Underground tank shall be of not less than 1,00,000 liters.

2. FIRE LIFT:

The Fire-Lift and all the lifts should have a provision to ground automatically in case of electricity failure. Each building should have at least one lift as a Fire-Lift and if the building is divided into two or more parts then each should have a Fire-Lift. Lift-well should have blowers to pressurize the lift-well so connected that it will automatically operate when alarm call point is operate, so that it prevents the lift well getting smoke logged.

3. FIRE ALARM:

Fire alarm call point to be installed at each floor with sounders capable of being heard all throughout the building.

4. FIRE EXTINGUISHERS

One Carbon Dioxide (CO2) type extinguisher of 4.5 kg. with ISI mark. and one extinguisher of 5kg. Dry Chemical Powder (DCP) type extinguisher with ISI mark to be installed on each floor in case of commercial building.

One Carbon Dioxide (CO2) type extinguisher of 4.5 kg. with ISI mark. OR Two Carbon Dioxide (CO2) type extinguisher of 2 kg. with ISI mark capacity on alternate floors in case of residential building.

If the building is divided into two or more parts then each part should have these extinguishers installed.

5. STAIRCASE:

The staircase has to be open from at least one or two sides but if the staircase is in the centre core of the buildings it has to be pressurized to prevent it from getting smoke logged. The Riser/Down-comer should be located in the staircase or close to it to make it easily approachable in case of fire from the floor below or above.

6. BASEMENT:

The basement of 200 sq. meters or more should be protected with Automatic Sprinkler system with at least one sprinkler head for each Car parking space.

Additionally be protected by a Hydrant outlet and two 25 mm. bore hose-reel hoses with 8 mm. bore nozzles at each basement level.

7. LIGHTNING ARRESTER:

A lightning arrester should also be installed and be properly earthed to prevent damage to the building when the lightning strikes.

8. PHOTO LUMINESCENT (AUTO GLOW) SIGNAGES:

If the building falls in a confined area or if it has an enclosed staircase or is not well lit-up on the inside, then adequate photo luminescent (auto glow) signages should be displayed at each floor / landing / pathway / dead-end along all exit routes leading to the ground level. The signage should indicate fire fighting, fire safety equipment present on the respective floor/landing/pathway/dead-end and along all exit routes leading to the ground level.

9. ELECTRIC POWER SUPPLY TO THE ENTIRE FIRE-SAFETY SYSTEM

Electricity supply to the fire pump, fire alarm system, staircase pressurization system and fire lift should be made available from the main Electrical supply. (i.e. from Electrical power supply of the company) This is to ensure availability of power supply to the fire protection & safety system even after the main electrical supply to the building is switched off at the time of fire.

10. INDIVIDUAL FIRE SEFTY SYSTEM

FIRE SEFTY SYSTEM SHOULD BE PROVIDED IN INDIVIDUAL SHOW ROOM BY OWNER

IMPORTANT INSTRUCTIONS:

After inspection of a low-rise building by the fire service authority if the fire officer concerned feels it need for additional fire prevention/protection measures / ventilation system required or equipment (i.e. - Passive system / Suppression system / Fire door - Window / Detection system / Active system / Sprinkler /

Potential / Occupancy / Confined area / Additional measures, Equipments have to be implemented / Installed.

NOTE:-	
1.	IT IS FULLY RESPONSIBLE FOR LEAVING OPEN SPACE AND AVOIDING THE DEPTH AND DRAINAGE CONNECTION.
2.	IT IS CERTIFY THAT ACCORDING TO C.G.O.R. 2017 ALL REQUIREMENTS OF THE BUILDING ARE MET.
3.	IT IS CERTIFY THAT ACCORDING TO THE CLAUSE NO. 3.6.6 OF THE C.G.O.R. 2017, THE STRUCTURE OF THE BUILDING IS DESIGN AS PER THE NORMS OF THE INDIAN STANDARDS.
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BUILT UP AREA TABLE	
BUILT UP AREA OF BASEMENT	2552.12
BUILT UP AREA OF GROUND FLOOR	9011.58
BUILT UP AREA OF 1ST FLOOR	855.09
BUILT UP AREA OF 2ND FLOOR	855.09
BUILT UP AREA OF 3RD FLOOR	855.09
BUILT UP AREA OF 4TH FLOOR	855.09
BUILT UP AREA OF 5TH FLOOR	855.09
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