

## Requirements of Fire Safety Arrangements and Life Safety Measures for Hotel Buildings.

### e) Starred Hotels (A-6).

Sr. No.	Types of Fire protection (Active Defense)	Requirements
01	First aid fire extinguishers	Minimum First aid fire extinguishers bearing ISI mark shall be installed in the each floor as per the scale laid down in IS 2190:1992.
02	First aid hose reel	To provide on each floor in the staircase landing and shall be connected directly to the wet/dry riser main and dia meter of the hose reel shall be not less than 19 mm with set off nozzle.
03	Wet riser	Provided for each floor landing with single landing valve, main not less than 100mm dia m, GI 'C' class pipe. Single hose box with a delivery hose & standard branch pipe 19 mm dia meter.
04	External Hydrant system	At all around the building as ring man and having main not less than 200/150/100 mm internal dia meter G.I. 'C' class pipe. Single/Double hose box with a delivery hose & standard branch pipe 19 mm dia meter.
05	Fire services inlet	To provided at main entrance or ground floor of the building.
06	Automatic sprinkler system	To be provided entire building as per relevant rule.
07	Fire alarm system (MOEFA)	To provided on each floor at appropriate place of the building.
08	Automatic detection & alarm system	To provided on each floor as per relevant guideline.
09	WATER (Underground static water storage tank)	2, 00,000 liters.
10	Water tank (terrace level)	20,000 Liters
11	Centrifugal fire pump	2 Electric <b>main</b> and 1 Diesel <b>stand by</b> pumps of 2850 l/min. and 1 Electric ( <b>jockey pump</b> ) of 180 l/min. with <b>auto</b> control penal at ground level.
12	Fire control room	To provide on the entrance floor or security cabin <b>with communication system (PA system) to all floors</b> to announce safety instruction to employees.
<b>Life Safety (Passive Defense)</b>		
13	Access	The Premises should be located as to provide easy access to fire brigade. The width of entrance shall not less than 4.5 m and if an arch or covered gate is constructed, it shall have clear headroom of not less than 5 meters.
14	Side Set Back area	Total height of the building divided by 03 (h/3= m all around the building)
15	Staircase (1.5 m width)	Minimum 01 No. subject to depend upon floor area and travel distance as per NBC.
16	Fire Lift	1 No. as per NBC
17	Escape route lighting	Provided at staircase landing, common corrode and exit routes. It shall be on independent/separate circuits and shall be independently connected.
18	"Exit" signage	Floor number and <b>signs with exit/arrows</b> indicating the escape routes, staircase shall be provided on each floor at appropriate place in the building.
19	Fire drill and fire order	Fire drill to be conducted once in a 3 months and fire order should be prepared and kept ready.
20	Refuge area	Refuge area to be provided at 24 <sup>th</sup> meters in height, refuge area of 15m <sup>2</sup> or an area equivalent to 0.3 m <sup>2</sup> per person as per NBC.
21	Cable and other ducts	Sealed with non combustible material at each floor level to check the spread of smoke, heat and flame.
22	Fire Damper	Located at centralized air conditioned ducts for check the spread of heat, flame smoke and gases.
23	D.G. Set	A stand – by D.G. set with appropriate capacity & change over switch shall be provided.
24	Do's and Don'ts	Should be available in all floors in prominent places with laminated pads
25	Assembly points	Assembly points should be designated at the ground floor occupants of each floor.
26	Emergency evacuation plan	This plan shall be displayed on each floor at appropriate place and should be also displayed just behind all doors of Hotel room.
27	Training	Security and management staff should be trained in handling of fire fighting equipments and evacuation management during emergency.
28	House keeping	Entire building should be maintained neat and clean.
29	Lighting Arrester	Should be provided.
30	Compartmentalization (Wall)	Area more than 750 m <sup>2</sup> on individual floor shall be segregated by fire resistance wall to contain the spread of fire, smoke and heat.
31	Automatic Smoke Vent	To be provided in the basement area and other enveloped area of the building

**Note: -**

- In addition to the above basic fire safety arrangements and life safety measures, please also refer National Building Code of India 2005 and other relevant code of practice of India Standard and also in consultation with the fire authorities.