

5. Application of Fire Detection and Alarm Systems

- 5.1.** The application of Fire Detection and Alarm System based on the building type and occupancy shall be as per **Table 8.13.**, Auxiliary Rooms and Spaces Fire Detection and Alarm as per **Table 8.14.**, and Equipment s Fire Detection and Alarm as per **Table 8.15.**, shall be provided.

Table 8.13: Application of Fire Detection and Alarm System

BUILDING / OCCUPANCY	APPLICABLE FIRE DETECTION AND ALARM SYSTEMS
1. SUPER HIGHRISE BUILDING	i. Smoke Detection and Alarm System shall be provided throughout the building as per Section 4.3.
2. HIGHRISE BUILDING	ii. Fire Pump, all building fire suppression systems, Fire Water Level, LP Gas detection, CO Monitoring and other interconnected systems like door release, Elevator recall, Smoke Control etc. shall be interfaced with Fire Detection and Alarm System, based on building fire strategy, as per Section 4.1. iii. Main FACP shall be located at the continuously attended location such as Emergency Command Centre or Reception or Security guard house, as per the building fire strategy. iv. Additional Sub FACP's or Annunciators complete with all functional features shall be provided at the elevator lobby of the floor or the mechanical floor at every 45 m height of the building and connected to main FACP in a network. v. Activation of the Fire Detection and Alarm System shall only trigger 5 floors of evacuation alarm, at fire floor, 3 floors above and at 1 floor below. General Fire Alarm shall not be required to trigger entire building evacuation alarm or general Fire Alarm. Security or facility management personnel or authorized person shall intimate the occupants on Voice Alarm System/Public Address System about the situation. vi. Positive Alarm Sequence (Positive Alarm Delay) as per Table 8.1.14.2 , shall be followed. If the alarm is not silenced by authorized personnel or FACP is not reset within 15 seconds, or multiple alarms are triggered from other initiating devices within 180 seconds, then the entire fire floor, entire floors above fire floor and 1 floor below fire floor shall have evacuation alarm. Security or facility management personnel or authorized person shall intimate the occupants on Voice Alarm System/Public Address System about the situation. vii. If the alarm is not silenced by authorized personnel or FACP is not reset or multiple alarms are triggered from other initiating devices within 240 seconds, then the entire building shall have evacuation alarm. Security or facility management personnel or authorized person shall intimate the occupants on Voice Alarm System/Public Address System about the situation.