

5. Application of Fire Detection and Alarm Systems

5.3. The application of Fire Detection and Alarm System for equipment shall be as per **Table 8.15.**

Table 8.15: Equipment Fire Detection and Alarm System

BUILDING / OC-CUPANCY	APPLICABLE FIRE DETECTION AND ALARM SYSTEMS
1. KITCHEN HOOD	i. Fusible Link Heat Detection and Alarm System shall be provided as per Section 4.6. (Pre-engineered Systems shall be acceptable)
2. LPG TANKS	i. LP Gas Detection and Alarm System shall be provided as per Chapter 11. ii. LP Gas detection control panel shall be interfaced with Fire Detection and Alarm Control Panel. iii. The triggering of deluge water spray for the LP Gas tank shall be through following means. a. LP Gas detection from the LP Gas tank area. b. Fire Detection from roof and one floor below. c. Cross zoned fire detection from rest of the building. d. Manual actuation of deluge water spray from LP Gas detection control panel.
3. FLAMMABLE LIQUID TANKS	i. Intrinsically Safe Flame (Radiant Energy) Detection and Alarm System shall be provided as per Section 4.9. and as per Risk assessment proposed and stamped by the Civil Defence approved House of Expertise. ii. AND i. Intrinsically Safe Linear Type Heat Detection System shall be provided on the tank roof as per Section 4.8. and as per Risk assessment proposed and stamped by the Civil Defence approved House of Expertise.
4. CABLE SPREAD AREAS	i. Aspirated Type Air Sampling Smoke Detection System shall be provided for the room ceiling as per Section 4.5. AND i. Linear Type Heat Detection System shall be provided on the cable trays as per Section 4.8.
5. DIESEL GENERATORS AREA	i. Heat Detection and Alarm System shall be provided as per Section 4.7.
6. BOILERS AREA	i. Heat Detection and Alarm System shall be provided as per Section 4.7.
7. COOLING TOWERS	i. Linear Type Heat Detection System shall be provided on the cable trays as per Section 4.8.
8. TRANSFORMERS	i. Linear Type Heat Detection System shall be provided on the cable trays as per Section 4.8.
9. BULK OIL STORAGE	i. Intrinsically Safe Flame (Radiant Energy) Detection and Alarm System shall be provided as per Section 4.9. and as per Risk assessment proposed and stamped by the Civil Defence approved House of Expertise. AND i. Intrinsically Safe Linear Type Heat Detection System shall be provided on the tank roof as per Section 4.8. and as per Risk assessment proposed and stamped by the Civil Defence approved House of Expertise.