

4.15. Equipment and Selection of Fire Protection Systems

4.15.1. The equipment and machinery shall be protected with options of Fire Protection Systems as per **Table 9.31.**

Table 9.31.: Equipment Fire Protection Systems

EQUIPMENT/ HAZARD	SYSTEM REQUIREMENTS
A. KITCHEN HOOD	<ul style="list-style-type: none"> i. An automatic Wet Chemical system shall be provided as per Section 3.12. for commercial kitchens having 3 or more burners. ii. Grease filters shall be installed for the kitchen hood.
B. LPG TANKS	<ul style="list-style-type: none"> i. Where building is sprinklered, and LPG tanks are installed above-ground or on roofs or podiums, an automatic Water Deluge Spray System shall be provided as per Section 3.8. ii. Where building is not sprinklered and LPG tanks are installed aboveground or on roofs or podiums, a dry type deluge spray system shall be provided with breaching inlet. iii. Where LPG tanks are installed aboveground, no protection shall be required, unless the proximity of such tanks is more than 6 m from any point of structure.
C. FLAMMABLE LIQUID TANKS	<ul style="list-style-type: none"> i. An automatic foam systems as appropriate as per Section 3.9., shall be provided. Refer to Chapter 13. Flammable Liquids.
D. CABLE SPREAD AREAS	<ul style="list-style-type: none"> i. An automatic Water Deluge Spray System shall be provided as per Table 3.8. OR ii. An automatic Water Mist System shall be provided as per Table 3.10.
E. DIESEL GENERATOR ROOM	<ul style="list-style-type: none"> i. Foam sprinkler system shall be provided as per Section 3.9. ii. Diesel generator rooms which are separated as part of separated service blocks and detached from the predominant occupancy, by a separation distance of 3 m, shall not be required to be protected.
F. BOILERS/BOILER ROOMS	<ul style="list-style-type: none"> i. An automatic sprinkler system shall be provided as per Section 3.5.
G. COOLING TOWERS	<ul style="list-style-type: none"> i. Where the cooling tower material is not tested and certified for non-combustibility, automatic Water Deluge Spray System shall be provided as per Table 3.8.
H. TRANSFORMERS —OIL FILLED	<ul style="list-style-type: none"> i. An automatic Water Deluge Spray System shall be provided as per Table 3.8.
I. BULK OIL STORAGE	<ul style="list-style-type: none"> i. Suppression Systems shall be based on comprehensive Risk assessment and shall be proposed and stamped by the Civil Defence approved House of Expertise. Refer to Chapter 13. Flammable Liquids.
J. BULK FLAMMABLE LIQUID STORAGE	<ul style="list-style-type: none"> i. Suppression Systems shall be based on comprehensive Risk assessment and shall be proposed and stamped by the Civil Defence approved House of Expertise. Refer to Chapter 13. Flammable Liquids and Chapter 9. Fire Protection Systems.