

## 4.9. Motor Fuel Dispensing Facility Fire Protection Systems

- 4.9.1.** Motor fuel dispensing Facilities shall be provided with Fire protection Systems in compliance with **Table 9.25.** and Auxiliary Rooms Fire Protection Systems as per **Table 9.30.**

**Table 9.25.: Motor Fuel Dispensing Facility Fire Protection Systems**

PREDOMINANT OCCUPANCY	SYSTEM REQUIREMENTS	FIRE PUMP SET AND FIRE WATER TANK CAPACITIES
<b>A. GROUP A</b>  <b>PETROL/GAS STATIONS HAVING UNDERGROUND FUEL STORAGE TANKS</b>  <b>WITH MINI MARTS, RESTAURANTS, DINING, FOOD COURTS, RETAIL, BUSINESS AND SERVICE/REPAIR STATIONS AS INDIVIDUAL BUILDINGS</b>	i. Sprinklers shall be provided throughout the mini marts, restaurants, dining areas, business, retail, service Stations as per <b>Section 3.5.</b> ii. A Hose Reel System shall be provided throughout the building as per <b>Section 3.3.</b> iii. Dry landing valves and risers shall not be required.	iv. The capacity of the fire pump set shall be 300 gpm at a pressure as required to satisfy 4.5 bar at the most remote Hose reel outlet valve.. v. The water tank shall have a capacity of 60 minutes of operation, complete with low water level detection, dedicated direct breeching inlet and instantaneous refilling arrangement.
<b>B. GROUP B</b>  <b>PETROL/GAS STATIONS HAVING UNDERGROUND FUEL STORAGE TANKS</b>  <b>WITH RESTAURANTS/BAKERIES, WITHIN A SINGLE MINI MART BUILDING AND SERVICE/REPAIR STATIONS</b>  <b>FLEET VEHICLE FUEL DISPENSING,</b>  <b>MARINE MOTOR FUEL DISPENSING</b>	i. A hose reel system shall be provided throughout the building as per <b>Section 3.3.</b> ii. Dry landing valves and risers shall not be required.	iii. The capacity of the fire pump set shall be 50 gpm at pressure as required to satisfy 6.9 bar at the most remote hydrant outlet valve. iv. The water tank shall have capacity of 60 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.
<b>C. GROUP C</b>  <b>PETROL/GAS STATIONS HAVING UNDERGROUND FUEL STORAGE TANKS</b>  <b>WITH MINI MARTS ONLY WITHOUT SERVICE/REPAIR STATIONS</b>  <b>ELECTRIC CHARGING UNITS</b>	i. Extinguishers shall be provided as per <b>Chapter 4. Table 4.3.2.8.</b>	ii. NA.