

**Table 12.5.: Safe Storage and Handling Practices**

ITEMS	REQUIREMENTS
<b>5. LPG (LIQUIFIED PETROLEUM GAS)</b>	<p><b><u>1. STORAGE</u></b></p> <p>i. LPG Cylinder storage shall comply with <b>Chapter 11. Liquefied Petroleum Gas Design and Installation</b> of this code and <b>NFPA 58. Liquefied Petroleum Gas Code</b>.</p> <p><b><u>2. HANDLING</u></b></p> <p>i. Heating elements (other than integral heater-container units) shall be located at least 1.8 m from any LP-Gas container.</p> <p>ii. Integral heater-container units specifically designed for the attachment of the heater to the container, or to a supporting standard attached to the container, maybe used provided they are designed and installed so as to prevent direct or radiant heat application to the LP-Gas container.</p> <p>iii. Blower and radiant type units shall not be directed toward any LP-Gas container within 6m.</p> <p>iv. Heat producing equipment shall be installed with clearance to the combustible in accordance with the manufacturer's installation instructions.</p> <p>v. Cylinders shall comply with Civil Defence Material approval specifications as per <b>Chapter 11. Liquefied Petroleum Gas Design and Installation. Section 6.</b> and shall be secured in an upright position.</p> <p>vi. Regulators shall be approved for use with LP-Gas. Fittings shall be designed for at least 250 psi service pressures.</p> <p>vii. Hose shall be designed for a working pressure of at least 350 psi ( unless limited to 5 psi) and shall be a maximum of 6 feet (1.8m) in length.</p> <p>viii. Portable heaters shall be equipped with an approved automatic device to shut off the flow of gas to the main burner and to the pilot in the event of flame extinguishment or combustion failure. Portable heaters with an input of more than 50,000 Btu/hr shall be equipped with either a pilot that must be proved before the main burner can be turned on or an approved electronic ignition system.</p> <p>ix. In addition to the above, for LPG storage/use in buildings undergoing alteration and that are fully or partially occupied, specific approval must be obtained from the Civil Defence prior to bringing LP-Gas containers on-site.</p> <p>x. The maximum water capacity of individual containers shall be 45 kg and number of containers in the building shall not exceed the number of workers assigned to using the LP-Gas.</p> <p>xi. LPG Containers shall not be left unattended and shall be stored in dedicated lockable storage open space after the usage.</p>

## Points to Ponder

There are several fires that engulfed fully constructed and ready to occupy buildings. The fire load in ready to occupy buildings and negligence in putting the Fire Detection and Protection Systems in service, costs the building owners huge losses.