

**Table 11.2: Indoor LPG Cylinder Installation Guideline**

ITEMS	REQUIREMENTS
<b>3. QUANTITY ALLOWED FOR INDOOR CYLINDERS</b>	i. For domestic residential usage, maximum quantity allowed indoors is 1 cylinders of 24 kg. Another 24 kg spare is allowed but not recommended to be stored indoors.
<b>4. PROTECTION TO CYLINDERS</b>	i. Cylinder compartment shall be installed in louvered steel enclosures and locked against Children, tampering and accidental damage. ii. Cylinders compartment located near parking lots, vehicle ramps and roads, shall be provided with steel barricades along with enclosures to safeguard cylinders from vehicular collisions.
<b>5. SAFETY PROVISIONS FOR INDOOR CYLINDERS</b>	i. An approved gas-leak detector shall be provided, not more than 30 cm from finished floor level, within 5 m from LPG source and inside the cylinder compartment. ii. Gas detection system shall be interfaced with a local alarm connected to a main fire alarm panel. iii. Remote Emergency shut-off valve shall not be installed inside the cylinder compartment. The remote emergency shut-off valve shall be located at least 1.5 m away from the compartment and at the kitchen exit door. It shall be clearly marked and placed at a suitable height for easy access during emergencies. iv. Any pipe penetration on the walls shall be suitably fire stopped to maintain the fire resistance of the walls.
<b>6. SAFETY PRECAUTIONS FOR INDOOR CYLINDERS</b>	i. LPG cooking appliances shall not be used with CNG fuel unless it is certified and approved to do so. ii. There shall be no ignition source within 1.5 m from the cylinder installation. iii. All electrical connections and appliances shall be installed in accordance with the relevant electrical safety clauses in <b>NFPA 70 and 72</b> . iv. Vaporizers shall not be installed inside the cylinder compartment. Wall-mounted vaporizers shall be located at least 1.8 m above the ground and 600 mm away from any LPG/CNG cylinder. v. The cylinder compartment shall only be used for LPG cylinder installation. No other usage or storage is allowed. vi. A warning sign or notice of minimum size of 800 mm x 600 mm shall be permanently and legibly displayed at the front of the installation. In Arabic and English conveying, "LPG / HIGHLY FLAMMABLE / NO SMOKING / NO NAKED LIGHTS" vii. The LPG installation shall be provided with at least one approved portable B:C rating dry chemical fire extinguisher having a minimum capacity of 9 kg.