

**3.4.2.** The inspection and maintenance of Fire Extinguishers shall be as per **Table 4.4**.

**3.4.3.** The fire extinguishers shall be serviced and maintained once every year. The **Table 4.4** requirements are minimum guidelines. **NFPA 10** shall be referred for further details and maintenance requirements.

**Table 4.4: Inspection and Maintenance of Fire Extinguishers**

ITEM	REQUIREMENTS
<b>1. ACCEPTANCE INSPECTION</b>	<ul style="list-style-type: none"> <li>i. The location, designated place and appropriate type/rating of extinguisher for the hazard shall be verified and ensure that it is as per consultant and Civil Defence approved drawings.</li> <li>ii. Extinguisher shall be installed at proper height as per this chapter.</li> <li>iii. The extinguisher shall be free of obstruction and in compliance with maximum travel distance requirements as per this chapter.</li> <li>iv. Safety seals and tamper indicators shall be in place and not damaged or missing.</li> <li>v. Operating instructions and labels on nameplates shall be legible and facing forward and visible.</li> <li>vi. Extinguisher shall be fully charged, weighing correctly as per manufacturer's specification.</li> <li>vii. Fire extinguishers shall be free of physical damage, dents, corrosion, leakage.</li> <li>viii. Nozzles and spray horns shall be free of clogging.</li> <li>ix. Pressure gauge reading or indicator shall be in the acceptable range as per manufacturer's specifications.</li> <li>x. Where wheeled or trolley mount extinguishers are installed, condition of tires, wheels, carriage, hose and nozzles shall be in good working condition.</li> <li>xi. Visual signage, pointing at the location of extinguisher, both in Arabic and English shall be in place and visible.</li> <li>xii. Corrective actions shall be taken if any of the above inspections result in unacceptable conditions.</li> <li>xiii. A record of the acceptance test shall be maintained in the facility.</li> </ul>
<b>2. DAILY INSPECTIONS</b>	<ul style="list-style-type: none"> <li>i. Facility management should check daily, but not more than monthly, the location and presence of appropriate extinguisher as per hazard and ensure that extinguishers are not shuffled from their suitable locations.</li> <li>ii. Pressure gauge of extinguishers shall be verified to be in acceptable range.</li> </ul>
<b>3. MONTHLY INSPECTIONS</b>	<ul style="list-style-type: none"> <li>i. Facility management shall check monthly the location and presence of appropriate extinguisher as per hazard and ensure that extinguishers are not shuffled from their suitable locations.</li> <li>ii. Pressure gauge of extinguishers shall be verified to be in acceptable range.</li> <li>iii. Extinguishers shall be taken out from their hangers, cleaned and put back onto their hangers.</li> <li>iv. If any of the extinguisher is taken out for repair or recharging, a replacement extinguisher of the same type and rating shall be installed in its place.</li> </ul>
<b>4. ANNUAL INSPECTIONS</b>	<ul style="list-style-type: none"> <li>i. Stored-pressure types containing a loaded stream agent shall be disassembled on an annual basis and subjected to complete maintenance. Prior to disassembly, the fire extinguisher shall be fully discharged to check the operation of the discharge valve and pressure gauge. The loaded stream charge shall be permitted to be recovered and re-used, provided it is subjected to agent analysis in accordance with manufacturer's instructions.</li> <li>ii. A conductivity test shall be conducted annually on all carbon dioxide hose assemblies. Hose assemblies found to be nonconductive shall be replaced. Carbon dioxide hose assemblies that pass a conductivity test shall have the test information recorded on a suitable metallic label or equally durable material.</li> <li>iii. Pressure regulators provided with wheeled-type fire extinguishers shall be tested for outlet static pressure and flow rate in accordance with manufacturer's instructions.</li> </ul>