

**Table 12.8.: Fire Access, Means of Egress, Fire Alarm and Fire Protection Requirements**

ITEMS	REQUIREMENTS
<b>4. FIRE DETECTION AND ALARM SYSTEM</b>	<p><b><u>1. DURING CONSTRUCTION</u></b></p> <ul style="list-style-type: none"> <li>i. Temporary Fire Detection and Alarm System, with same features as permanent Fire Detection and Alarm System as per <b>Chapter 8</b>, to cover the floors that have been constructed is highly recommended.</li> <li>ii. Manual Fire Detection and Alarm System as per <b>Chapter 8, Section 4.10.</b> shall be permitted.</li> <li>iii. Wireless/Low powered Radio frequency based Fire Detection and Alarm System as per <b>Chapter 8, Section 4.11.</b> shall be permitted and shall communicate with 24X7 signaling of Civil Defence, where available.</li> <li>iv. Wireless/Low powered radio frequency based fire Detection and Alarm System are best suited for construction sites, as they can be installed on temporary basis without wiring.</li> <li>v. Alarm notification shall be such that affected area construction site shall be notified with sound and visual devices. audio devices shall have sound level of 15 dB more than the ambient sound level.</li> </ul> <p><b><u>2. DURING ALTERATION OR MODIFICATION</u></b></p> <ul style="list-style-type: none"> <li>i. Fire alarm systems shall be maintained operational at all times during building alterations. When an alteration requires modifications to a portion of the fire alarm system, the portion of the system requiring work shall be isolated and the remainder of the system shall be kept in service whenever practical.</li> <li>ii. When it is necessary to shut down an entire fire alarm system, a fire watch or other mitigation approved by the Civil Defence shall be implemented by the Consultant and Program Manager until the system is returned to full service.</li> <li>iii. Where the automatic Fire Detection and Alarm System is regularly turned off and on to facilitate connection of newly completed segments, the System shall be checked at the end of each work shift to ascertain that completed are Fire Detection and Alarm System is in service.</li> </ul>
<b>5. TELEPHONE AND COMMUNICATION SYSTEMS</b>	<ul style="list-style-type: none"> <li>i. There shall be a readily available public fire alarm box near the premises, telephone service to the responding Civil Defence, or equivalent communications facilities.</li> <li>ii. Instructions shall be issued for the immediate notification of the Civil Defence in case of a fire emergency.</li> <li>iii. Where telephone service is employed, the Civil Defence number (997) and site address shall be conspicuously posted near each telephone.</li> </ul>

