

### 3.6. Electrical Safety

3.6.1. Electrical Safety during construction shall be as per **Table 12.6.**

**Table 12.6.: Electrical Safety Requirements**

ITEMS	REQUIREMENTS
<b>1. ELECTRICAL SAFETY</b>	<p><b><u>1. ELECTRICAL DEVICES</u></b></p> <ul style="list-style-type: none"> <li>i. All construction-operation electrical wiring and equipment for light, heat or power purposes shall be in accordance with the applicable provisions of NFPA 70, National Electrical Code.</li> <li>ii. Electrical devices shall be maintained in a safe condition.</li> <li>iii. Extension cords shall be maintained free from damage.</li> <li>iv. Damaged equipment and cords shall be removed from service until rendered safe.</li> </ul> <p><b><u>2. WIRING</u></b></p> <ul style="list-style-type: none"> <li>i. All branch circuits shall originate in an approved power outlet or panel board.</li> <li>ii. Conductors shall be permitted within multiconductor cord or cable assemblies or as open conductors.</li> <li>iii. All conductors shall be protected by overcurrent devices rated for the ampacity of the conductors.</li> <li>iv. Runs of open conductors shall be located where the conductors are not subject to physical damage, and the conductors shall be fastened at intervals not exceeding 3 m.</li> <li>v. Each branch circuit that supplies receptacles or fixed equipment shall contain a separate equipment grounding conductor where run as an open conductor.</li> <li>vi. Wiring, junction boxes, electrical devices, electrical equipment, panel boards etc. shall not be located where water flooding is a possibility.</li> </ul> <p><b><u>3. LIGHTING</u></b></p> <ul style="list-style-type: none"> <li>i. Temporary lights shall be equipped with guards to prevent accidental contact with the bulb unless the construction of the reflector is such that the bulb is deeply recessed.</li> <li>ii. Temporary lighting fixtures, such as quartz, that operate at temperatures capable of igniting ordinary combustibles shall be fastened securely so that the possibility of their coming in contact with such materials is precluded.</li> <li>iii. Temporary lights shall be equipped with heavy-duty electrical cords with connections and insulation maintained in safe condition.</li> <li>iv. Temporary lights shall not be suspended by their electrical cords unless such cords and lights have been designed for that purpose.</li> <li>v. Splices shall have insulation equivalent to that of the cable.</li> <li>vi. Temporary wiring shall be removed immediately upon the completion of the construction or purpose for which the wiring was installed.</li> </ul>