

		<ol style="list-style-type: none"> <li>6. Exit signs shall be provided near doors for personnel escape in case of emergency.</li> <li>7. In offsite pump houses, overhead cable tray arrangement shall be followed. However, cable trenches may be considered below switchgear/mcc.</li> <li>8. All cable trenches shall be sized depending upon the number of cables, and their voltage grade.</li> <li>9. HV, MV, LV and control cable shall be separated from each other by required spacing or running through independent pipes, trenches, or cable trays as applicable.</li> <li>10. Cable trench inside substation shall be filled with sand, pebbles or similar non-flammable materials or covered with incombustible slab. If the significant number of cables are taken on racks, adequate support to be provided on the side wall of trench.</li> <li>11. RCC covers of cable trenches should be sealed to avoid ingress of chemicals and oils.</li> <li>12. Concrete line cable trenches should be sealed against ingress of liquid and gases wherever trenches leave a hazardous area or control room or substation.</li> <li>13. Above ground cable tray shall be well supported suitably at every 3meters interval and protected against mechanical damage. Routing shall be decided to avoid proximity to high temperature source.</li> <li>14. Cable trays, racks and trenches shall be sized to allow for 10 to 20% future cable reserve.</li> <li>15. Instrument and communication cable shall not be laid in the same trench/tray along with electrical power cables.</li> <li>16. For LT switchgear/MCC room at EL 0.0M, minimum 1400 wide x 1400 deep cable trench shall be provided to route the cables. Horizontal cable trays shall be routed in cable trenches.</li> <li>17. Cable cellars shall be provided with fire detection and monitoring device.</li> <li>18. Cable trenches in hazardous area should be filled with sand and covered with RCC slab to prevent accumulation of flammable gases/vapour inside the trench.</li> </ol>
12	HT Power Cables	<ol style="list-style-type: none"> <li>1. IS:7098 (Part -II) Specification for Cross linked polyethylene insulated PVC sheathed cables. Part-II: For working voltages from 3.3 KV upto and including 33 KV.</li> <li>2. The cables shall be suitable for laying on racks, in ducts, trenches, conduits and underground (buried) installation with chances of flooding by water.</li> </ol>