1.3.11.7 Temperature Rise

A. The temperature rise in LV Assemblies shall not be allowed to damage the components, connectors, wires, terminals etc. The equipment in normal service condition, no live part shall become subjected to high temperature causing overheating that increases the Risk of internal arcing accidents.

B. The extreme care shall be taken while designing the equipment's to ensure external surface temperature is maintained within the specified limits without causing burning of the skin when making contact with the external surface of the enclosures.

1.3.11.8 Clearance and Creepage Distances

A. The clearances and creepage distances in the LV Assemblies shall be based on rated Impulse withstand voltage in accordance with BS EN 60439-1 to ensure that the equipment designed is capable of withstanding without failure under specified test conditions.

B. The equipped LV Assemblies must confirm to the clearance & creepage distances and withstand voltages explicitly by taking into account the specified service conditions.

1.3.11.9 Site Considerations

A. The maximum height of assemblies shall be 2400 mm above the finished floor level.

B. Site consideration including safety and maintenance shall be taken into account in the design of assemblies. These considerations shall include:

a. Clear floor space of at least 1500 mm shall be provided in front and 1000mm at rear of all assembles.

b. In order to provide an unobstructed exit route a clear path of not less than 500 mm shall be provided in front of assemblies when cubicle doors are opened at right angles. Cubicle doors shall close towards the exit from the building enclosing the assembly.

c. Provision of sufficient space to allow for doors to open fully without fouling other items of equipment or other open doors.

d. Limiting the size and weight of assembly sections to those imposed by transportation, site access and permitted levels of site floor loading.