

## ***Installation of Switchboard***

### **Regulation 19. Arrangement of switchboard in general.**

(1) The general arrangement of a switchboard shall be as follows:

(a) all its parts which may have to be adjusted or handled shall be readily accessible;

(b) the course of a conductor shall be readily traced and a clearly drawn diagram of the connections shall be displayed near the switchboard;

(c) a conductor, not arranged for connection to the same system, shall be kept well apart and shall be readily distinguished; and

(d) a bare conductor shall be placed or protected so as to prevent danger from accidental contact.

(2) A rubber mat of suitable size and thickness shall be placed on the floor in front of every switchboard to prevent danger of electric shock to an operator.

(3) A switchboard having bare conductors so exposed that they may be touched, shall, if not located in an area set apart for the purpose thereof, be fenced or otherwise enclosed.

(4) No person, except a competent person or a person acting under the immediate supervision of a competent person, shall have access to any part of the switchboard.

(5) An apparatus appertaining to a switchboard and requiring handling shall be placed or arranged in such a manner that the same may be operated from the working platform of the switchboard, and any measuring instrument and indicator connected therewith shall be placed in such a manner that the same may be observed from the working platform.

(6) Where the apparatus, measuring instrument and indicator referred to in subregulation (5) are operated or observed from any place, adequate precaution shall be taken to prevent danger.

### **Regulation 20. Working on a switchboard.**

Before any work is commenced on a switchboard—

(a) the switchboard shall be made dead and the conductor earthed; or

(b) if the switchboard is arranged in such a manner that any conductor thereof can be made dead in section and separated by permanent or removable division or screen from any adjoining section of which the conductor is live, that section on which work has to be done shall be made dead and every conductor earthed.

### **Regulation 21. Switchboard operating at high or extra high voltage.**

In a switchboard operating at high or extra high voltage—

(a) the conductor which is within the natural reach of a person standing on the working platform or in any switchboard passage way shall be placed or protected adequately to prevent danger;

(b) the metallic frame of any instrument shall be earthed; and

(c) the metal handle of a switch and any metal gear for operating the switch shall be earthed.