

- 5.4.2 The Earth Leakage Circuit Breakers (ELCBs)/RCCBs shall generally comply with BS EN 61008, BS EN 61009. Recommended values of operating current of ELCBs/RCCBs are specified in Appendix.10.
- 5.4.3 Operation of the ELCBs/RCCBs, earth leakage detection system, etc. shall be periodically checked and tested to ensure consumer safety.
- 5.4.4 Earth Leakage sensors / relays with alarm/indicators shall be provided for Fire Pumps, Jockey pumps, Submersible pumps, Sump Pumps, or other essential circuit / equipment with sensor settings appropriate for providing warning before reaching the fault condition.

## **5.5 EQUIPOTENTIAL BONDING**

- 5.5.1 All metal work of the consumer's installation, other than current carrying parts, including cable armour, metal conduits, metal cable tray & trunking sections, metal accessory boxes, exposed metal works of consumer's appliance, apparatus, equipment, machines, building structures, metallic enclosure and parts, metal water pipes, etc. shall be provided with equipotential bonding conductors.
- 5.5.2 The cross-sectional area of equipotential bonding conductors shall be selected as specified in Appendix.9.
- 5.5.3 A main protective bonding conductor shall have a cross sectional area not less than half the cross sectional area required for ECC of the installation and not less than 6mm<sup>2</sup>. The cross sectional area need not exceed 25mm<sup>2</sup> if the bonding conductor is of copper or a cross sectional area affording equivalent conductance in other metals
- 5.5.4 The equipotential bonding conductors shall be connected to the main earthing terminal within the consumer's wiring installations and the continuity shall be tested and maintained by the consumer.