

## APPENDIX 10

### EARTH LEAKAGE PROTECTION

(Refer section 5 of Regulations)

Recommended value of operating current of ELCB/RCCB in Consumer installations:-

Sr. No	Circuit/equipment/apparatus	Rated operating Current (mA)
1.	13A switched socket outlets	30
2.	Water heaters/Coolers/Dish washer	30
3.	Refrigerator/Washing machine and similar apparatus	30
4.	Domestic water pumps	30
5.	Jacuzzi pumps	10
6.	Under water lighting	10
7.	15A switched socket outlets (general purpose)	30
8.	General lighting	30/100
9.	Flood lighting	100/300
10.	Window/Split type Air Conditioner	100
11.	Fan coil/Air Handling-units/VAV	100
12.	Package type A/C unit	100/300
13.	Chiller	100-500-1000
14.	Irrigation pump	100
15.	Electric Cooker	100
16.	Industrial machine	100/300
17.	Elevators/Escalators/Hoist	300/500
18.	Neon sign	300

#### Notes:-

- 1) Grouping of circuits under one ELCB/RCCB is permitted for lighting circuits, general purpose switched socket outlets, single phase equipment/appliance, etc. In such cases maximum number of circuits proposed under each group shall be suitably selected considering the type of project such as Residential, Commercial, Industrial, etc. and the possible interruptions.
- 2) Wherever un-interrupted power supply is required for equipment/circuits of fire protection, drainage (such as Fire pump, Jockey pump, sump pump, springer pump,, pressurisation pump, smoke extract fan etc...) Suitable earth leakage detection system with indication and/or alarm is permitted.
- 3) For industrial installation which are designed with co-ordinated operational system of plants and machines, the earth leakage protection shall be suitably selected considering the safety and operational requirements.