

1.12 INSPECTION AND TESTING OF ELECTRICAL INSTALLATIONS

All electrical installations and equipment installed therein, shall be subject to DEWA's inspection, testing and final approval before connecting the electric supply. Contractors shall carryout inspection and testing of the entire electrical installation prior to requesting for DEWA inspection.

Following specific inspection examples as appropriate to the type of installation shall be referred:

a) Distribution equipment

- Security of fixing
- Insulation of live parts not damaged during erection
- Adequacy/ security of barriers
- Suitability of enclosures for IP and fire ratings
- Enclosures not damaged during installation
- Presence and effectiveness of obstacles
- Presence of main switch(es), linked where required
- Operation of main switch(es) (functional check)
- Manual operation of circuit-breakers and RCDs/ ELCBs to prove functionality
- Confirmation that integral test button/switch causes RCD(s) to trip when operated (functional check)
- RCD(s) provided for fault protection, where specified
- RCD(s) provided for additional protection, where specified
- Confirmation overvoltage protection/ Surge protection device (SPDs) provided where specified.
- RCD(s) provided for fault protection, where specified
- RCD(s) provided for additional protection, where specified
- Confirmation overvoltage protection/ Surge protection device (SPDs) provided where specified.
- Confirmation of indication that SPD is functional
- Presence of RCD quarterly test notice at or near the origin
- Presence of diagrams, charts or schedules at or near each distribution board, where required
- Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required
- Presence of alternative supply warning notice at or near
 1. The origin
 2. The meter position, if remote from origin
 3. The distribution board to which the alternative/additional sources are connected