10.3.5 The Developer main distribution board and associated metering shall be installed in locations to which access is available at all times. Prior approval shall be obtained from the Service Authority (DEWA-Electrical).

10.3.6 Space clearance around the electrical equipment shall be provided for safe operation, inspection, testing and maintenance, according to the Service Authority (DEWA-Electrical) Regulations.

10.3.7 Electrical rooms and substations shall be properly ventilated/air conditioned, as applicable. In case, electronic equipment shall be installed within the electrical rooms or substations, these shall be air conditioned to a max. temperature of 26 deg. C.

10.3.8 The Developer shall be responsible for terminating the incoming supply cable at the Service Authority (DEWA-Electrical) metering cabinet, in accordance to the Service Authority (DEWA-Electrical) Regulations.

10.3.9 All tariff metering shall be provided by the Service Authority (DEWA-Electrical) and restricted to one for each consumer, unless otherwise approved by the Service Authority (DEWA-Electrical).

10.3.10 If continuity of power is essential for the safe operation of the equipment, it shall be the responsibility of the Developer to provide stand-by power supply in the event of mains power supply failure. The stand-by generators shall not be synchronized with the Service Authority (DEWA-Electrical) network at any time. Proper electrical and mechanical interlocks between breakers shall be provided. Generator installation shall be permitted subject to the Service Authority (DEWA-Electrical) approval.

10.3.11 Generator noise level shall not exceed 75 dBA at 1m outside the generator enclosure. Generator characteristics and specifications shall comply with ISO Standards and comply with local Authorities for environmental restrictions.

10.3.12 Service Authority (DEWA-Electrical) Substation requirements shall be according to the Service Authority (DEWA-Electrical) - General Conditions for providing 11kV Supply to Consumer's Plots and subject to Service Authority (DEWA-Electrical) approval.

10.3.13 All electrical installations shall be provided with separate earthing. The consumer's earthing system shall be connected to the Service Authority (DEWA-Electrical)'s earthing system subject to the Service Authority (DEWA-Electrical) approval.

10.4 Installation Requirements

10.4.1 All the Electrical installations shall follow and comply with the Service Authority (DEWA-Electrical) Rules and Regulations for electrical installations, IEE Wiring Regulations, and International Electro technical Commission (IEC) Codes.

10.4.2 Temporary power supply for plot construction shall be the responsibility of the Developer and subjected to the Authority approval.

10.4.3 The Developer shall maintain a power factor not less than 0.9 for all installation. The Developer shall consider the use of energy efficient lamps, equipment, appliances and motors.

10.4.4 The Developer shall install an approved fire detection and alarms system in all his constructions. Fire Alarm system shall be installed in the premises in compliance to NFPA Code or relevant British Standards and according to the local Authorities jurisdiction.

10.4.5 The Developer shall install 10cm UPVC ducts (number of ducts shall depend on the facility requirements) to connect the plot with the outside service corridor for the telecommunication, control and fire alarm detection wiring.

10.5 Completion Certificate

10.5.1 The Developer shall ensure the following for the Service Authorities inspection:

- o The main electrical incoming supply arrangement is completed.
- o The electrical installation inside the plot is completed.
- o Fire detection and alarm system installation is completed.

10.5.2 On completion of satisfactory inspection by the Service Authorities and the Authority, a Building Completion Certificate shall be issued. This certificate is a pre-requisite for the connection of electrical installations to the Service Authority (Electrical) power supply grid.