

earth, industrial, fully interlocked, switched type as per requirements under industrial plugs and sockets and shall be installed complete with an interlocked angled plug. Two sockets protected with 15 Amps MCB fed through 4 sq mm cable shall in one circuit, sockets more than 2 and less than 6 Nos. shall be fed in ring circuit protected by 30 Amps MCB fed through 6 sq mm wire. Socket for emergency light and 400 Volts socket shall be from individual circuit. Light switch, socket, plugs, other accessories etc. for indoor and outdoor installation shall be from one approved manufacturer.

1.3.33.3 Lighting Switch

- A. Switches for outdoor installation, for the pump room and dosing plant shall be iron clad galvanised / hardened moulded PVC watertight with rotary switch action, safety factor IP65. Switches shall be suitable for surface or concealed surface installation. The light switches for MCC room, offices, workshops, stores etc. shall be of “multiple phase” type with switches arranged in multi gang boxes wherever applicable and flush mounted, grid pattern with matt chrome finish outer cover with heat cured lacquer finish.

1.3.33.4 Conduits

- A. Concealed cable conduits and fittings shall be PVC-u pipes Class 6 for conduits between 16-50 mm and conduit above 50 mm shall be Class 10. Exposed conduits shall be of galvanized steel. The size of conduits will be determined by the number and size of cables drawn as detailed in IEE regulations. The dimensions of conduits shall be stated in the list of cable requirements to be provided by the Contractor. Flexible conduits shall be the metallic PVC sheathed type. In office rooms, control rooms etc. conduits shall be concealed under plaster or in slabs. Metal conduits shall be continuous earthed. Minimum size of conduit (metallic, uPVC & flexible) shall be 25 mm.

1.3.33.5 Junction Boxes

Junction Box for Conduit Wiring

- A. Junction and distribution boxes shall be installed at an equal distance from the ceiling. Junction boxes within hand reach shall be provided with screwed covers. They shall always be mounted vertically above switch boxes. Concealed boxes shall be set flush with the finished surface and shall be provided with the proper extension rings or plastic covers where required. Boxes shall be installed in a very