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To:

Consultants/ Contractors/Project owners

Specific Requirements to Incorporate During Construction For Preventing Entry of Water in to DBs (Distribution Boards) ,Conduits, Junction Boxes and Electrical Accessories

Dear Customer,

The Authority is constantly endeavoring to provide safe and reliable supply to its consumers. We thank you for your valuable cooperation and coordination with us to provide you the best services from DEWA.

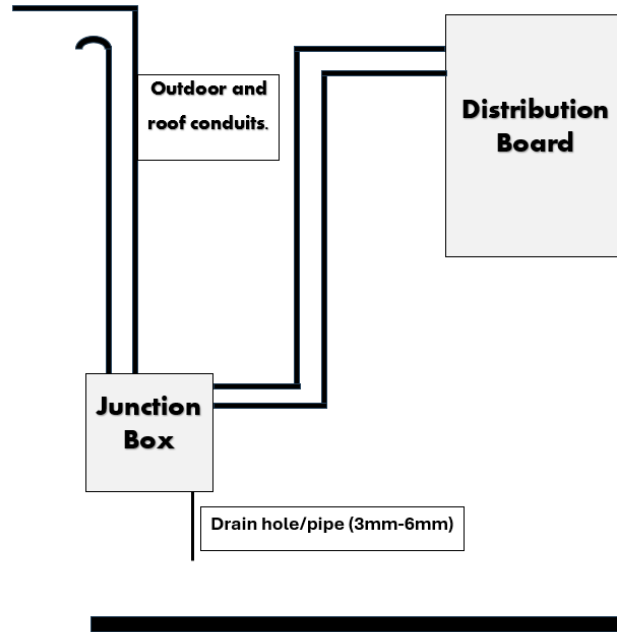
Rainwater, groundwater, or even condensation can enter electrical conduit ,distribution boards, junction boxes ,accessories ,etc. due to

- Open / unsealed ends of conduits , non-weather proof installation, etc. in roof and other outdoor location
- Cracks, gaps, or holes in the DB enclosures , junction boxes, Conduits, etc.
- Entry of warm/humid air in the conduit and due to temperature changes between the air and the ground, causing condensation. .
- Poorly Sealed external fittings, junction boxes, conduits, etc.

As part of measures to prevent entry of water in to DBs (Distribution Boards), Conduits, junction boxes and electrical accessories ,following specific requirements shall be implemented in all projects during the construction stage.

1. Usage of only IP65 weatherproof boxes ,fittings ,accessories ,etc. for all outdoor installations
2. Properly sealing of all external electrical conduits from water on both ends.

3. Provide “U”- bends ,facing downward, on all exposed conduit-ends in roof and seal both ends.
4. Avoid direct termination of conduits from roof and outdoor locations to the DBs (Distribution boards) . Instead , terminate at a Junction box having drain provision from which the conduits can run to the DBs



Silicone Sealants, Polyurethane Sealants , Butyl Rubber Sealants or Epoxy Sealants can be used ,as applicable.

Thanking you in anticipation of your full cooperation.

For Dubai Electricity & Water Authority

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