

Group – C : Sl. No. - 2) Earth Electrode (40 NB 2.5 Mtr Length)

Technical Specifications

1. **Scope :-**

This specification provides for design, manufacturing, testing before dispatch, supply & delivery of Earthing Device (Heavy Duty) (for use in 11 LV SS).

2. **APPLICABLE STANDARDS :-**

The Earthing Device must be made out of 40 mm nominal Bore & 3.2 mm (Medium Gauge- No minus Tolerance allowed) Wall thickness Hot Dip G.I. Pipe (as per IS :- 1239,m Part-1, 1990 & REC construction Standard –J-2) of reputed Make & 2.5 mtrs length tapered finished smooth at one end for a length of 75 mm & Clamp at the other end.

Staggered drills hole of 12 mm Dia of interval of 150mm shall be made before galvanization.

The GI Earthing Clamp/ Strip (C- Clamp Type) is to be of 50mm width, 6mm thickness & flange length of 65 mm in each side. This should be suitable for termination of 4 nos of GI Flat earth electrodes. The Clamp/ Strip & Earthing pipe after fabrication will be hot dip galvanized confirming to IS: 2629/85 with latest amendments. The clamp shall have two holes in both sides suitable for 5/8 x 2" Bolt & provided with two GI Bolts of 5/8 x 2" long half threaded with spring washer

The galvanization tests are to be conducted as per IS: 2633/72 & IS: 6745/72 & its latest amendments.