

Technical Specification of Earthing Coil

1. **SCOPE:-**

The specification covers design, manufacture, testing and dispatch to the owner's stores of Earthing Coils for use in earthing of the HT & LT poles.

2. **GENERAL REQUIREMENTS:-**

Earthing coils shall be fabricated from soft GI Wire Hot Dip Galvanized. The Hot Dip galvanized wire shall have clean surface and shall be free from paint enamel or any other poor conducting material. The coil shall be made as per REC constructions standard.

The Hot Dip galvanizing shall conform to IS: 2629/1966, 2633/1972 and 4826/1969 with latest amendments.

3. **TESTS:-**

a) **Galvanizing Tests**

Minimum Mass of Zinc - On GI Wire used 280 gm/m²
After Coiling-266 gm/m².

The certificate from recognized laboratory shall be submitted towards mass of zinc.

b) **Dip Test**

Dip test shall stand 3 dips of 1 minute and one dip of ½ minute before coiling and 4 dips of 1 minute after coiling as per IS: 4826/1979

c) **Adhesion Test**

As per ISS 4826 – 1979.

4. **DIMENSIONAL REQUIREMENT:-**

Nominal dia. of GI Wire -4 mm (Tolerance±2.5%)

Minimum no. of turns – 115 Nos.

External dia of Coil (Min) – 50 mm

Length of Coil (Min) – 460 mm

Free length of GI Wire at one end coil (Min.) – 2500 mm

The turns should be closely bound. Weight of one finished Earthing Coils (min.) – 1.850 Kg.

Guaranteed Technical Particulars of Earthing Coil

(To be submitted along with Offer)

Sl. No.	Technical Particulars	Requirement	Bidder's Offer
1	Nominal diameter of the G.I. wire	4mm	
2	No. of turns	115	
3	External dia. of Coil	50mm	
4	Length of Coil	460mm	
5	Free length of GI Wire at one end coil	2500mm	
6	Mass of Zinc		
7	Total weight of Coil	1.850Kg.	
8	Whether drawing enclosed		

Seal & Signature of the tenderer