

ANNEXURE-1

SUPPLY INSTALLATION TESTING & COMMISSIONING OF EARTHING STATION USING 600 mm X 600 mm X 6 mm COPPER PLATE ELECTRODE SYSTEM

QTY = 2 SET AND INCLUDES LOOPING BETWEEN TWO EARTHING STATION & 125 HP MOTOR PANEL.

Scope of work : Supply & Installation of Copper Plate Earthing Station using 2' X 2' X 6mm (600x600x6 mm) EC Grade Copper Plate with 50 mm X 6 mm EC Grade Copper Flat Laid in a depth of 2.5 Mtr from ground level, using necessary S.S. Bolt Nuts & suitable Clamps. Scope also includes Construction of Brick Masonry Chamber of size 400 mm X 400 mm with Heavy-Duty Cast-Iron Chamber Plate. Complete work includes materials and labour, suitable for the site and to comply with IS :3043 with latest Amendments (Code of Practice for Earthing)

1. Supply of Copper Plate Earthing Station materials like a) 600 mm X 600 mm X 6 mm EC Grade Copper Plate – 2nos., b) 50 mm X 6 mm EC Grade Copper Flat to a depth 2.5 Mtr from ground, c) 50mm size B Class GI pipe, d) Charcoal & Salt as necessary e) wire mesh funnel f) SS Bolt Nuts washers, clamps etc. suitable & as necessary to complete the Earthing Station, confirming to IS: 3043 --- Qty = 2 set.
2. Supply of EC Grade Copper Flat of size 50 mm X 6 mm -- Qty = 50 Mtr.
3. Supply of Civil Masonry Materials like Fire Bricks, Cement, CI Chamber plate etc. to prepare Earth Pit Inspection Chamber, confirming to IS:3043 -- Qty = 2 set.
4. Miscellaneous Hardware items like SS Bolt Nuts washers, Clamps, Insulating Supports, paint & paint brushes for labelling etc. as required at site to complete the work.
5. Complete labour for Fixing of Electrode & preparing Earthing station, Chamber pit with necessary brick, CI plate etc. as necessary including earth digging & complete grouting work included.
6. Complete labour for Fixing & Terminating Earth lead / flat including earth digging & any other grouting work as required at site, to complete looping system between earthing stations and earthing station to 125 hp motor starter panel.
7. Testing & Measuring Earth Resistance value, Painting and Labelling the Earth Station all included.
8. Necessary Tools & Instruments like Earth Tester, Welding set are in Firm's scope.
9. Supply of all necessary materials, labour & grouting work all included.
8. Safety of work men is at most important. Firm has to comply with all relevant factory rules, necessary work permit to be taken in advance to come inside factory & carry out the above work.
9. The entire work to be carried out at engine division at the identified places and as guided by Engineer In-charge.
10. ANY OTHER ITEMS, BOTH MATERIALS & LABOUR, NOT MENTIONED ABOVE, BUT NECESSARILY REQUIRED TO COMPLETE THE WORK IS IN THE FIRM'S SCOPE & FIRM TO QUOTE THE SAME SEPERATELY.