

SCHEDULE OF WORK

Name of Work: Providing Copper Plate Earthing at Room No. 40 for GCMS Instrument under Dr. Joyram Guin, Assistant Professor, Dept. of Organic Chemistry, IACS, Jadavpur, Kolkata.

Ref: NIQ No.

Item No.	Description of Item	Qty.	Unit	Rate (Rs. P)	Amt. (Rs. P)
01)	Earthing with copper plate earth electrode of size 600mm x 600mm x 3mm thick including all accessories and providing masonry enclosure with cover plate having locking arrangement and GI Watering pipe of 2.7 mtr long etc. (with charcoal & salt) as required. The work shall include providing & fixing of clay /cement barrier ring around the earth well in order to prevent land slide and to provide safety to the personnel to be deployed for earthing excavation work etc.	1	Set		
02)	Providing & Fixing of 25mmx5mm copper strip on surface or in recess for connections etc. as required.	3	Mtrs		
03)	Supplying & laying of 25mmx5mm copper strip at 0.5 m below ground as strip earth electrode including connection/terminating with brass/stainless steel nuts & bolts, spring washer etc. as required (jointing shall be done by overlapping and with 2 sets of nut bolt & spring washer spaced at 50mm)	3	Mtrs		
04)	Supplying & laying of 25mmx5mm copper strip in 40mm dia medium class G.I. pipe (ISI mark) from earth electrode including connection with Brass/stainless steel nuts bolts, spring washer excavation and refilling etc. as required.	2.5	Mtrs		
05)	Providing & fixing earth bus of 50mmx5mm copper strip on surface for connection etc. along with supply & fixing of FRP support including all necessary hardware as required.	0.3	Mtrs		
(Total Rupees in Words)				Total (Rs.)	

Note:

- 1) The work shall be carried out as per CPWD specifications under otherwise specified.
- 2) Both the copper earth electrode & copper strip as mentioned above shall be of electrolytic grade copper.
- 3) The strip earth electrode has to be connected securely with the copper earth electrode by stainless steel nuts & bolts, spring washer, soldering materials with due use of chemical etc.
- 4) The materials for earthing are required to be got approved by the Engineer-in-Charge before commencement of work.
- 5) All risks & responsibilities of work (Life & property) shall lie solely on the Agency to whom the work will be awarded.
- 6) **Resistance of Earth Electrode should be less than 1.0 ohm**
- 7) A copy of the valid electrical license along with a copy of the license of the Electrical Supervisor has to be submitted with the Bid. However, the original of the said documents may be produced before the Competent Authority of IACS on demand. Without valid Electrical License, work shall not be awarded to any contractor.
- 8) **The work shall be completed within 7 days from the date of the receipt of this work order.**

Signature with seal of the Bidder