

SPECIFICATION FOR CONDUCTING ELECTRICAL RESISTIVITY TEST OF SOIL (ERT)

1.0 TEST :

The specification covers all work required for detailed Electrical Resistivity measurement and preparation of detailed report. The work includes mobilization of necessary equipment, providing necessary engineering supervision and technical personnel, skilled and unskilled labour, etc. for detailed Electrical Resistivity measurement and tests , analysis and interpretation of data and results , preparation detailed report. The bidder shall make his own arrangements for locating the co-ordinates and various test positions in the field as per the information supplied to him.

2.0 METHOD:

The test shall be conducted to determine the Electrical Resistivity of soil required for designing safety grounding system for the entire station area. The specifications for the equipment and other accessories required for performing Electrical Resistivity Test, the test procedure and reporting of the field observations shall confirm to IS:3043. The test shall be done using Wenner's four electrode method as specified in IS:1892- Appendix B2 unless otherwise specified at each location. The test shall be conducted along two perpendicular lines parallel to the co-ordinate axis. On each line a minimum of 8 to 10 mtrs. readings shall be taken by changing the spacing of the electrodes from an initial small value upto a distance of 10.0 mtrs.

3.0 BILL OF QUANTITIES :

The test shall be done at least 4 (four) or more quantities of ERT points in a site depending upon the site conditions. The test locations shall be furnished after award of contract.

4.0 SCHEDULE OF ITEMS :

The schedule of items required to be executed shall be as details given:

Item No.	Description of item	Unit	No.	Unit Rate	Amount
1	Conducting Electrical Resistivity Test as per specification including all necessary arrangement and furnishing 2(two) copies of draft report and 4(four) copies of final report.	No.	40		