

1.1 Brief description of the project

Teesta H.E. Project Stage-VI is located on the river Teesta in District South Sikkim of Sikkim. The project is about 85 km from nearest rail-head New Jalpaiguri, West Bengal and 95 KM from nearest airport at Bagdogra, West Bengal. The nearest town is Singtam Sikkim and is also 80 Km from Siliguri, West Bengal by road. Barrage site is at near Sirwani, Sikkim, geographically, which is at 27°14'29.98" latitude and 88°28'35.39" longitudes.

It is a run of the river scheme for power generation. The installed capacity of Teesta Stage -VI H.E. Project is 500 MW comprising of four units of 125 MW each driven by vertical Francis turbine operating under net head of 105.4 m.

1.2 Electrical Resistivity test

This test shall be conducted to determine the electrical resistivity of soil required for designing safety grounding system for the 220kV Pothead Yard area. The specification for the equipments and other accessories required for performing the test, test procedure and reporting of field observations shall conform to IS: 3043. The test shall be conducted using **Wenner's four electrode method** as specified in IS: 1892, Appendix-B2. Unless otherwise specified, at each test location the test shall be conducted along two perpendicular lines parallel to the co-ordinate axes. On each line a minimum of 8 to 10 readings shall be taken by changing the spacing of the electrodes from an initial small value of 0.5m upto a distance of 20m.

1.3 Bill of quantity:

S. No.	Item description	Unit	Quantity
1.	Mobilization and Demobilization of necessary equipment, tools, plants, manpower etc., for conducting Electrical resistivity test (ERT) at project site	Lot	1
2.	Conducting Electrical resistivity test (ERT) as per specification including all necessary arrangement required for conducting the test as per direction of Engineer-in-charge	Nos	5
3.	Furnishing 2 copies of draft report and 4 copies of final report	LS	1

1.4 For location of Earth Resistivity Test points, pl refer attached Annexure-A.



