

ANNEXURE-II

BILL OF QUANTITIES FOR UNDER GROUND EARTHING AND ELECTRODES , REV.00

Name of Project - 2X500MW thermal power extension project Unit-3 & 4 at Sagardighi- 400KV Switchyard

S. No	Description	Unit	Quantities	Rate	Amount (Rs.)
1	Unloading, storing and laying of 40 mm dia MS Rods at a depth of 1000 to 1300 mm measured from the top of FGL (either top of gravel or top of land as the case may be) for bringing out risers just above gravel level near the equipment foundations as per requirement including following works: - excavation - laying of MS rod - welding of rods -Refer Drg No. K8A07-DWG-E-0600(Total 7 sheets) for Welding details of rods - backfilling of soil for bringing out pig tail risers of 40 dia MS rod (approximately 1350) for equipments. Risers shall be raised from the earthmat (at 1000 to 1300mm depth) to 300 mm above ground level to the nearest point of the equipment. This shall include all cutting, bending, welding, fixing, application of zinc rich paint on cutting surface, etc to the main earthmat. - any other work necessary to complete the laying of earthmat -40 Diameter MS rod will be supplied by BHEL	kM	14.5		
2	Fabrication & laying of Auxiliary Mat of 40 mm Dia MS Rods at a depth of 300 mm from top of FGL including excavation & backfilling as per Drg No. TB-4-330-316-011(sheet no. 14) Rev-01 of Auxiliary mat & connection with existing main earthmat - any other work necessary to complete the laying of earthmat -40 Diameter MS rod will be supplied by BHEL	Nos.	113		
3	Installing of Pipe Electrode(to be driven - 3.0 Mtr) as per Drg. No. TB--0-330-316-011(sheet no. 11), Rev-01 of Pipe Electrode including following works: - excavation - installing the pipe electrode with alternate layers of Coke & charcoal, salt - backfilling and compaction - Casting the Test Pit with Cast Iron covers - any other work necessary to complete the work (GI Pipe, Nuts, Bolts & Washers and funnel with wire mesh will be supplies by BHEL.)	Nos.	2		
4	Installing of 40 mm diameter Rod Electrode (to be driven 3 m long) with test link and without pit as per Drg. No. TB-4.-330-316-011(sheet no. 8) Rev-01 of Rod Electrode including following works : - excavation - installing the rod electrode - backfilling and compaction - installing the test link - any other work necessary to complete the work -40 Diameter MS rod will be supplied by BHEL	Nos.	30		
5	Installing of 40 mm diameter Rod Electrode(to be driven 3 m long) without test link and pit as per Drg. No. TB-4.-330-316-011(sheet no. 3 & 5) Rev-01 of Rod Electrode including following works : - excavation/hammering of rod in earth - installing the rode electrode - backfilling and compaction - any other work necessary to complete the work -40 Diameter MS rod will be supplied by BHEL	Nos.	25		
	Total Amount (Rs.)				