

BILL OF QUANTITIES FOR UNDER GROUND EARTHING AND ELECTRODES**NAME OF PROJECT :** : 50 MVAR ON/ OFF TYPE CONTROLLED SHUNT REACTOR (CSR) AT 400KV Dhule S/STN

S. No	Description	Unit	Qty.	Rate	Amount	Remarks
1	Unloading, storing and laying of 50mmx08mm MS Flat at a depth of -----600----- 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 below gravel level near the equipment foundations as per requirement including following works: - excavation of trenches - laying of MS Flat - welding of Flats (refer Drg No. TB-STD-316-Rod Welding Rev 00 for Welding details of rods) - backfilling of soil - any other work necessary to complete the laying of earthmat (50mmx08mm MS Flat will be supplied by BHEL Quantity may vary by +/- -----30-----% at contract stage.)	MT	14			Flat for extension of main earthmat and for risers
2	Fabrication & laying of Auxiliary Mat of 50mmx08mm MS Flat at a depth of 300 mm from top of FGL including excavation & backfilling as per Drg No. TB-STD-316-Auxiliary mat Rev 00. - any other work necessary to complete the laying of earthmat (50mmx08mm MS Flat will be supplied by BHEL Quantity may vary by +/- -----30-----% at contract stage.)	Nos.	24			
3	Installing of 150mm dia Cast Iron Pipe Electrode (to be driven - 3.0 Mtr) with Watering facility 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. Quantity may vary by +/- -----50-----% at contract stage).	Nos.	26			13 no. [for grounding of CSR Neutrals (08 nos.), Lightning Arrester (10 nos), Tower with Peak (4 nos) & Valve & BETM/ controller Room (4 nos.)]
	Total Amount (Rs)					