

**BOQ FOR UNDER GROUND EARTHING AND ELECTRODES (REV.02)****NAME OF PROJECT :- PHASE SHIFTING TRANSFORMER AT KOTHAGUDEM**

S. No	Description	Unit	Qty.	Rate	Amount
1	Laying of Underground earthmat of 40 mm dia MS Rods at a depth of 600 mm measured from the top of FGL, including following works: - excavation of trenches - laying of MS rod for below ground mesh. - welding of rods (refer Drg No. TB-STD-316-Rod Welding Rev 00 for Welding details of rods) - bringing out risers just below gravel level near the equipment foundations as per requirement - backfilling of soil - any other work necessary to complete the laying of earthmat <b>(In case earthmat is already laid/existing at site, contractor scope of work is only to bring out the risers from the existing earthmat. 40 Diameter MS rod will be supplied by BHEL. Quantity may vary upto any extent.)</b>	MT	21		
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-STD-316-Auxiliary mat Rev 00. - any other work necessary to complete the laying of earthmat (40 Diameter MS rod will be supplied by BHEL Quantity may vary by +/- 40% at contract stage.)	Nos.	11		
3	Installing of Pipe Electrode(to be driven 3 Mtr) as per Drg. No. TB-STD-316-Pipe Electrode Rev 00 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 +/- 20% at contract stage).	Nos.	11		
4	Installing of 40 mm diameter Rod Electrode with test pit as per Drg. No. TB-STD-316-Rod Electrode Rev 00 including following works: - excavation - installing the rod electrode - backfilling and compaction - Casting the Test Pit with Cast Iron covers - any other work necessary to complete the work (40 Diameter MS rod will be supplied by BHEL Quantity may vary by +/- 20% at contract stage)	Nos.	4		
5	Installing of 40 mm diameter Rod Electrode without test pit including following works: - excavation/hammering of rod in earth - installing the rod electrode - backfilling and compaction - any other work necessary to complete the work  (40 Diameter MS rod will be supplied by BHEL Quantity may vary by +/- 20% at contract stage)	Nos.	4		
	<b>Total Amount (Rs.)</b>				