

ANNEXURE-II
BOQ for Earthmat Works

Projects: 220kV Substation at Pipavav in Gujarat

S.No	Item Description	Unit	Quantity	Rate	Amount
1	Unloading, storing and laying of 40 mm dia MS Rods at a depth of 600mm 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 in all kinds of soil including soft/hard rock. - laying of MS rod for below ground mesh - welding of rods (refer Drg No. C-ENG-STD-001, Rev 01 of PGCIL. - 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 (40mm dia MS Rod will be supplied by BHEL Quantity may vary by +/- 30% at contract stage.)	MT	170		
2	Unloading, storing, fabrication and laying of Auxilliary mat of 40mm dia MS Roads at a depth of 300mm measured from the tip of FGL including excavaion and backfilling as per drg. TB 4 275 509 007 - A/00 Sheet 1-11 Aux.mat - Welding of rods - bringing out risers just below gravel level near the equipment foundations from the existing earthmat as per requirement. - backfilling of soil - Any other work necessary to complete the work (40mm dia MS Rod will be issued by BHEL. Qty. may vary by +/- 40% at contract stage.	Nos.	132		
3	Installing of Pipe Electrode(to be driven - 3.0 Mtr) as per Drg. No. TB 4 275 509 007 -A/00 sheet 16 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. Quantity may vary by +/-50% at contract stage).	Nos.	120		
4	Installing of 40 mm diameter Rod Electrode with test pit as per Drg. No. TB 4 275 509 007 -A/00 sheet 8A rod electrode 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 +/-	Nos.	10		
5	Installing of 40 mm diameter Rod Electrode without test pit (to be driven - 3.0mts) as per drg. TB 4 275 509 007-A/00 sheet 8 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 Quantity may vary by +/- 50% at contract stage)	Nos.	110		
	TOTAL AMOUNT				