

ANNEXURE-IV

Project : 400/220kV Aurangabad (PG) S/S, Extn. of 400 kV Wardha S/S & Extn. of 400 kV Aurangabad (MSETCL) S/S

Customer : PGCIL

Rev 00

Underground Earthing & Electrode

S.No	Description	Unit	Qty.				Rate	Amount
	MAIN EQUIPMENT		Aurangabad (PGCIL)	Wardha (PGCIL)	Aurangabad (MSETCL)	Total		
1	Unloading, storing and laying of 40 mm dia MS Rods at a depth of 600 mm measured from the top of ground level for bringing out risers just below gravel level near the equipment foundations as per requirement including following works: - excavation of trenches for laying MS Rod below to it - laying of MS rod - welding of rods (refer Drg No. TB-STD-316-Rod Welding Rev 00 for Welding details of rods) - backfilling of soil for bringing out pig tail risers of 40 dia MS rod for equipments. Risers shall be raised from the earthmat (at 600 mm depth) to 100 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 earthmesh. - any other work necessary to complete the laying of earthmat (40 Diameter MS rod will be supplied by BHEL)	MT	120	15	2	137		
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)	Nos.	420	60	36	516		

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S.No	Description	Unit	Qty.				Rate	Amount
	MAIN EQUIPMENT		Aurangabad (PGCIL)	Wardha (PGCIL)	Aurangabad (MSETCL)	Total		
3	Installing of 40 diameter 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 supplied by BHEL)	nos.	12	4	-	16		
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 with provision of Cast Iron Covers - any other work necessary to complete the work (40 Diameter MS rod will be supplied by BHEL)	Nos.	150	20	-	170		
5	Installing of 40 mm diameter Rod Electrode with out test pit 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.	40	-	-	40		
	Total Rs.							
	Remark: The quantity may vary upto any extent.							