

Estimate for dismantling, dragging, loading, unloading and shifting of 25 MVA power transformer from 220 KV Rangla GSS to 132 KV APM GSS and commissioning related works at 132 KV APM GSS

SI No	Description of work	Unit	Quantity	Rate(Rs)	Amount (Rs)
1	Dismantling of 25 MVA Transformer and its accessories like radiator, conservative tank, siphone, fan, draining of oil etc. at 220 KV Rangla GSS	Job	1		
2	Movement of empty trailer from Changsari to Rangla GSS	Km	50		
3	Dragging of 25 MVA transformer mechanical trailer with consignment from site to loading point at Rangla GSS =30 metres (Qty=50.7 MT), Total Qty (50.7 MT X 30 metres)=1521 MT x m	per MT x m	1521		
4	Loading of Transformer in trailer weight of 25 MVA Transformer along with accessories	per MT	50.7		
5	Transportation of Transformer along with accessories and transformer oil, considering low bed trailer from Rangla GSS to APM GSS. (50.7 MT X 170 km)				
5.1	0 km to 50 km (Plain) (50.7 MT x 50 km=2535 MT x km)	per MT x km	2535		
5.2	50 km to 150 km (Plain) (50.7 MT x 100 km=5070 MT x km)	per MT x km	5070		
5.3	150 km to 250 km (Plain) (50.7 MT x 20 km=1014 MT x km)	per MT x km	1014		
6	Unloading of transformer in trailer weight of 25 MVA transformer along with accessories at APM GSS	per MT	50.7		
7	Dragging of 25 MVA transformer from mechanical trailer consignment point to transformer pad at APM GSS (50.7 MT x 60 m= 3042 MT x m)	per MT x m	3042		
8	Dragging of 16 MVA transformer from Transformer pad to store yard at APM GSS (43.2 MT x 50 m)	per MT x m	2160		
9	Cable laying (19C, 4C, and 2C control and power cable etc.) glanding termination etc from transformer Marshalling Box to kiosk and RTCC panel for commissioning of 25 MVA Transformer (400 m)	per 10 M	60		

10	Erection of all Transformer accessories (HV and LV bushings, radiators, conservator tanks, Thermosyphone etc.)	Job	1		
11	Nitrogen cylinder for Aircel and nitrogen drying alongwith nitrogen injection kit	No	2		
12	Replacement of Transformer HV side jumper	per Jumper	3		
13	Replacement of Transformer LV side jumper	per Jumper	3		
14	Replacement of 33 kV Abhayapuri and 33 kV Chapar jumper	per Jumper	6		
15	Transformer earthing works like laying of GI flat strips with connection to existing earthing system including HV and LV neutral earthing	m	40		
16	Erection of CR panel (RTCC) without SAS	No	1		
17	Jute, markin cloth, lugs, Ferrules, CRC etc for transformer commissioning work	Job	1		
18	Arrangement of oil intermediate tank, filter machine, preparation of oil from drums etc (filter machine and intermediate tank to be provided departmentally)	Job	1		
19	Movement of empty truck to 220 KV Agia GSS	km	25		
20	Loading of control cables and earthing GI Flat strips	per MT	2		
21	Transportation of control cables and earthing GI flat strips from 220 KV Agia GSS to APM GSS (2MT x 25 km)	per MT x m	50		
22	Unloading of control cables and GI flat strips at APM GSS	per MT	2		
23	Misc civil works (concreting of LA foundation, switchyard road brick works, Trafo MB foundation etc.)	LS	1		
24	Height extension of LA structures (Cutting, welding and painting of 3 no of LA structures)	LS	1		
			Total		
			GST @ 18%		
			Grand Total		