

**2000KVA Transformer**

S.No	Description of Item	Unit	Qty	Rate	Amount
1	Receiving, laying, testing & commissioning of 11 KV XLPE Al.conductor armoured (earthed) cable as in existing Hume pipe / cable tray/trench etc. as required at site of work. <b>Make : Havells/Polycab/RR Kabel</b>				
a)	3 core 300 sqmm 11000 Volts XLPE Cable	Mtr	15		
2	Supply, Installation of Cable termination for following 11000 volt grade aluminium conductor armoured XLPE cable including tinned copper lugs all accessories and material required to make a complete joint and connection to the Transformer and HT Panel. <b>Make : Raychem / 3M</b>				
a)	3 core 300 sqmm	Nos	2		
3	Supply , Installation, Testing, Commissioning , loading & unloading of following 11000/433 volts Delta/Star, vector group DYN11, Outdoor mounting, oil naturally cooled ONAN transformer with On Load Tap Changers (OLTC) suitable for incoming voltage variation of +5.0% to -17.50% in equal steps of 1.25% to give a constant secondary voltage with Remote Tap Chnager Controller and RTCC panel will installed near the LT Panel. The transformer shall be provided with fittings, accessories, protection, first filing of oil etc. including Buchholz relay oil/winding temperature, alarm/trip protection, surge arrestor, complete as per specifications and as required. The transformer				
	The transformer shall be provided with arrangement to terminate XLPE cable on HT side and to terminate XLPE cable on LT side along with Disconnection chambers as required complete with providing and fixing of 150 x 50 x 6 mm channels as required at site.				
	2000 KVA (The transformer shall be provided with cable box suitable to terminate 11 KV (E) 1R x 3C x 300 sq.mm. XLPE cable on HT side and 3200A,415V TPN AL Busduct on LT side <b>including drain plug,Air Release plugs, drain valve and filters, oil level gauge having min level marked amongst other features as per engineer incharge and specifications. Make : Crompton/Schneider/Kirolskar/Equivalent</b>	Nos	1		
	Liasioning for load aproval and connection with concerned authorities for Electrical works undertaken.				
	Supervision while installation, testing and commissioning of Transformer shall be assisted by the Supplier with no extra cost.				
4	Installation, testing and commissioning of triple pole and neutral, totally enclosed, dust and vermin proof with IP 54 ingress protection, indoor mounting, Compact Sandwich type low Inductance Bus Duct with Aluminium bus bars rated as under to withstand the stresses of a 50 kA symmetrical fault level at 415 volts including the cost of bends, expansion joints with 2 nos 60 x 6 mm Al strip for earthing, complete as per specification as required and as below				
a)	3200 amp TPN Aluminium Bus Duct	M	25		

S.No	Description of Item	Unit	Qty	Rate	Amount
5	Supply and laying of control cabling with copper conductor PVC insulated and PVC sheathed armoured cables on existing tray including the cost of making connections <b>Heavy duty Double Compressed Cable glands, heavy Lugs and ferruling</b> , complete as required as below: Make : Comet/ Dowells				
a)	2 core 2.5 sq mm	M	50		
b)	4 core 2.5 sq mm	M	50		
c)	10 core 2.5 sq mm	M	50		
d)	12 core 2.5 sq mm	M	50		
f)	24 core 2.5 sq mm	M	50		
6	Providing and fixing of nominal 2.5 mm +/-10% thick insulated synthetic Mat conforming to IS 15652 : 2006 and meeting the requirements of IS 5216 (part 1,2 &3), IS 8437, IEC-479 Pub-1, alongwith suitable adhesive/chemibound, Pu resin, waterproofing compound and sealing material as per in service recommendation of Annexure 'A' ' Clause C' of IS :15652 and suitable for class- B upto 11kV. Make : Premier Polyform/ Jyoti	M	20		
7	Supply and fixing of standard shock treatment charts in English & Hindi mounted on wooden frame with glass.	Nos	4		
8	Supply and fixing of danger plate of size 250 x 200 mm as per approved sample written in English & Hindi for MV and HV made of 2 mm thick sheet	Nos	4		
9	Fixing First Aid Box Complete as approved .	Nos	1		
10	Fixing rubber HT gloves and tool kit as required	Set	1		
11	Making and fixing on wall of main electrical schematic single line diagram painted on white board in LT panel room as required as per direction of Project In Charge.	Set	1		
12	Supply, making and <b>testing of earth resistance</b> of earthpits including the cost of 600 mm x 600 mm x 6 mm thick GI plate electrodes, 20 mm dia pipe, CI funnel with wiremesh charcoal, salt, all earth work, masonry enclosure with CI frame & cover plate having locking arrangement complete as per IS 3043:1987	Nos	2		
13	Supply, making and <b>earth resistance testing</b> of Pipe earthpits with perforated earth pipe made out from B class GI pipe 40 mm dia 4.5 mtrs. long including all accessories and providing masonry enclosure with RCC cover plate and watering pipe with funnel complete with alternate layers of salt and charcoal as per IS:3043 complete as required	Nos	2		
14	Supply and laying of the following earthing clamp to wall with suitable clamps saddles and fixing bolts/ in ground including the cost of digging and back filling as required and complete as required to comply with IS 3043:1987				
a)	60 mm x 10 mm GI strip	M	40		
d)	50 mm x 6 mm GI strip	M	50		
f)	25 mm x 6 mm GI strip	M	50		
g)	40 mm x 6 mm CU strip	M	40		
h)	25 mm x 6 mm CU strip	M	40		
k)	8 SWG GI wire	M	100		