

REPLACEMENT OF OLD TRANSFORMER AT LHO

Sno	Description of work	Qty	Unit	Rate	Total
	TRANSFORMER:				
1)	Supply, Installation, testing and commissioning of 800kVA, 11kV/433V, DyN11, 3phase 50C/S, ONAN, OLTC Transformer complying to IS 1180 complete with the following standard mounting and to be erected on the existing plinth in the Substation. Note: Tenderers are advised to inspect the site to understand the existing infrastructure and supply the transformer as suitable. Any Major modification if requested by the tenderer will not be accepted and the same have to be carried out by the tenderer at his cost and risk)	1	no		
	1) Oil conservator with filling holes and cap and drain plug				
	2) Magnetic and Plain oil level gauge				
	3) Dehydrating silica gel breather				
	4) Oil Drain cum bottom filter valve				
	5) Filter valve at the top with plug				
	6) Explosion vent with double diaphragm				
	7) Lifting arrangements				
	8) Earthing terminals				
	9) Diagram and rating plate				
	10) First filling of oil with dielectric strength of 50KV/ NO break				
	11) Four bi-directional plain rollers				
	12) Air release hole with plug				
	13) Pressure relief Valve without contacts				
	14)Marshalling Box				
	15)Oil and winding Temp Indicator with contacts				
	16)Neutral CT				
	17)Buchholtz Relay				
	18) Onload Tap Changer				
	The terminal arrangements HV cable Box on HV side and Bus duct on LV side complete. (The Transformer shall be tested at factory in presence of Department Engineer before despatch to site with test certificate from manufacturer)				
2)	Dismantling the existing 800KVA transformer as per Industry standards and shifting the same to a location as decided by the Bank. Scope includes removing the cable connections, bus bar connections, Earth flats from the Transformer, Draining the oil from the Transformer and storing in waste oil drums, lifting the transformer, loading, unloading, transportation etc as required. The work should be carefully undertaken not to damage the existing busbar/cable termination setups as the same needs to be reused again.	1	LS		
3)	SITC of Heat shrinkable 11KV Indoor type cable end terminations for the above cable as required	1	sets		
4)	Construction of PCC(1:2:4) plinth of size 2.0M x 2.0M x 0.3M (To increase the height of the existing transformer plinth) to suit the new Transformer with all civil works complete as required	1.2	Cum		
5)	CI PIPE EARTHING				

	Providing independent earthing for grounding of Panels and other important eqpt., with 100mm dia 'B' class 2.5mtr long CI pipe and 19mm dia 'B' class gi pipe of 0.3M long connected with reducer providing GI funnel covered with mesh of suitable size enclosed in C.C chamber of 400X400X400mm with suitable CI cover hinged to frame cover duly providing staggerd holes of 16nos of 12mm dia to the earth electrode filling salt and char coal around 150mm from the bottom of the pipe to the bottom of CC chamber, giving earth connection from the electrode through necessary Cu strip. of 25X3 mm length provided with suitable size of 14nos. holes with GI washers, nuts, bolts and all labour charges etc., Complete. (Tf-2)	2	Nos		
6)	COPPER PLATE EARTHING				
	Providing independent earthing for Transformer Neutrals with 600mm x 600mm x 3mm thick copper plate rigidly fixed to the 40mm dia GI pipe of 2.5Mtr length and 19mm dia 'B' class gi pipe of 0.3M long connected with reducer providing GI funnel covered with mesh of suitable size enclosed in C.C chamber of 400X400X400mm with suitable CI cover hinged to frame duly providing filling salt and char coal around 150mm from the bottom of the pipe to the bottom of CC chamber, giving earth connection from the electrode through necessary copper strip. of 25X6X200mm length provided with washers, nuts, bolts and all labour charges etc., complete as required.	2	Nos		
7)	Earth Flats				
	Supply and run of earth lead of 25X3mm copper strip on the surface including cost of all accessories and labour charges etc., complete.	50	mtr		
8)	SAFTY ACCESSORIES				
a)	Supplying and fixing of printed instructions chart both in English and Tamil and duly laminated for treatment of person suffering from Electric shock.	3	set		
b)	Supplying and fixing of Single line Diagram and duly laminated as required by CEA/TANGEDCO authoriies.	3	set		
c)	Supplying of pair of rubber hand gloves suitable for working on 11 KV Supply.	1	pair		
d)	Supplying of standard 18" x 12" x 18" first aid box with all standard contants	1	set		
e)	Supplying of 11KV FRP Earth Discharge rod with 6 Mtr length of insulated rod with one extension and 10 Mtrs of 6sq.mm multistranded copper conductor wire complete as required	1	no		
9)	Preparation of 7set of complete drawings, submission of documents on behalf of bank to CEA and getting the NOC as required including arranging for inspection of the entire installation as required	1	LS		
10)	Supplying and spreading the blue metal gravel of suitable size in the transformer yard as required	1	job		
	Total Value				

