

Annexure-I

Technical Datasheet : 315/500/630/750 Amp Power Transformer				
S.N.	Technical Specification	Unit	Required	To be filled by Bidder
1	MAIN POWER SYSTEM DETAILS			
1.1	Rating	Kva	315 / 500 / 630 / 750	
1.2	Rated Voltage	Volts	Primary - 11KV±10% Secondary 433 V+/-10%	
1.3	Rated Frequency	Hz.	50 Hz ± 5%	
1.4	Fault level	No.	Primary - 17 KAfor1 sec Secondary 25KA for 1 sec	
1.5	Earthing mode	-	Solidly earthed	
1.6	Aux Power Supply	V	230 V, 50 HZ, 1P, 2W	
2	AMBIENT CONDITIONS			
2.1	Max. Temp.	°C	50°C	
2.2	Min. Temp	°C	4°C	
2.3	Design Temp	°C	55°C	
2.4	Relative Humidity	%	90%	
2.5	Altitude above MSL	Mtr	Less than 1000 MTS	
2.6	Atmosphere	-	Dust and Vapour	
2.7	Location	-	Outdoor / Indoor	
2.8	Erection Site Testing And Commissioning	-	REQUIRED	
2.9	Reference standard	-	IS 2026/IS 1180	
2.10	Testing	-	Routine tests as per IS 2026	
3	CONSTRUCTION			
3.1	Rated output power	-	As per SOR	
3.2	Service	-	Outdoor/Step down	
3.3	Type and Type of Cooling Oil	-	Immersed ONAN	
3.4	Ambient temp	-	50 deg	
3.5	Nominal primary side voltage 3Ph, 50 Hz	-	11KV	
3.6	Nominal secondary side voltage	-	433V	
3.7	Number of phases and frequency	-	3Ph, 50 Hz	
3.8	% impedance at nominal tap and at 75 °C	-	5%	

3.9	Primary connection	-	Delta	
3.10	Secondary connection	-	Star	
3.11	Vector group reference	-	Dyn11	
4	INSULATION			
4.1	Insulation level of Uniformly insulated winding		75KVp	
4.2	Insulation level of Primary winding		28KV(rms)	
4.3	Insulation level of Secondary winding		3KV(rms)	
5	SYSTEM FAULT LEVEL			
5.1	Primary	-	250 MVA	
5.2	Secondary	-	35MVA	
6	TAP CHANGER			
6.1	Type	-	On Load Tap Changer	
6.2	Control	-	Remote and Manual	
6.3	Taps provided on		H.T. side	
6.4	No. of taps		9	
6.5	Range of taps		± 10% in range of 2.5%	
7	TERMINAL ARRANGEMENT			
7.1	Primary	-	Detachable type cable box	
7.2	Secondary	-	Detachable type cable box	
7.3	Location of terminal box	-	Primary and Secondary Terminal Box shall be at 180 degree	
8	MISC.			
8.1	Cable Entry	-	Suitable for HT Side – 185 Sq.mm LT Side - 4 Nos. 240 Sq/mm All Cable	
8.2	Cable Entry (TOP/BOTTOM)	-	Bottom	
8.3	Painting - Type & Shade	-	As per approved drg	