

S.No.	Description	Units	Particulars		
1	Project Name	Units	Particulars		
2	Quote Number		-		
3	Manufacturer		Wilson Power Solutions Ltd		
4	Applicable Standard		IEC 60076		
5	General Arrangement Dwg		-		
6	Transformer Rating	kVA	1500		
7	Rated High Voltage @ No Load	Volts	11000		
8	Rated Low Voltage @ No Load	Volts	415		
9	Minimum Insulation class HV LI	kV	75		
10	Minimum Insulation class HV AC	kV	28		
11	Minimum Insulation class LV LI	kV	-		
12	Minimum Insulation class LV AC	kV	3		
13	Line Current LV / HV	A	2086.87 / 78.73		
	1	A			
14	Insulating Fluid		Mineral Oil		
15	Fans		No No		
16	Pumps Type of Cooling		No		
17	Type of Cooling		ONAN		
18	Number of Phases	l lie	3		
19	Frequency	Hz	50		
20	Vector Group		Dyn11		
21	Impedance Voltage (Z)	%	5.5		
	Subjected to +/- IEC tolerence limits				
22	Symmetrical Short Circuit Current in LV	kA	35.76		
23	Symmetrical Short Circuit Current in HV Rated Tap	kA	1.36		
24	Core Material		Amorphous		
25	No Load Losses	W	625		
26	Load Losses @ 75°C	W	8630		
27	Losses as per EU Regulation No. 548/2014		Exceeds Tier-2 Requirement		
28	Resistance	%	0.58		
29	Reactance	%	5.47		
30	Positive sequence resistance at principal tap	P. U.	0.0058		
31	Positive sequence reactance at principal tap	P. U.	0.0547		
32	Positive sequence reactance at minimum tap	P. U.	0.0522		
33	Positive sequence reactance at maximum tap	P. U.	0.0572		
34	Zero sequence resistance	P. U.	0.0046		
35	Zero sequence reactance	P. U.	0.0440		
36	Regulation type		DETC		
37	Tapping on HV	%	+7.5,+5.0, +2.5, 0.0, -2.5, -5		
38	Design Ambient Temperature	°C	40		
39	Temp Rise of Top Oil	°C	60		
40	Temp Rise of Winding	°C	65		
41	Altitude	m	<1000		
42	Pollution class		C4H		
43	HV Conductor Material		Aluminium		
44	LV Conductor Material		Aluminium		
45	Paint Finish Colour		Dark Admiralty Grey (BS 632 shade)		
46	Transformer Type		Free Breathing, bolted cover, tank attached cooler bank		
47	HV termination type		Cable Box - 12kV, 3-Pole, (Facing-'E' BS:2562) with 1 take of per phase		



48	LV termination type		Cable box - 1.1kV, 4-Pole, (Facing-'F', BS:2562) with 3 take off per phase & Neutral				
49	Neutral			Located inside - cable box			
50	Harmonis distortion	THD%		<5%			
		Accessor	ies				
51	Drain Valve & Sampling Valve			Yes			
52	Radiator Valves		No				
53	Dehydrating Breather		Yes				
54	Pressure Relief Device		No				
55	Oil Temperature Indicator			No			
56	Buchholz unit			No			
57	Winding Temperature Indicator			No			
58	Magnetic Liquid Level Indicator			No			
59	Conservator			No			
60	HV CTs			No			
61	LV CTs			No			
62	Neutral CTs			No			
63	Disconnecting links HV			No			
64	Disconnecting links LV			No			
65	Marshalling box	N.		No			
66	Bund			No			
		Overall Dime	ensions				
67	Length	mm		2250			
68	Width	mm		1750			
69	Height	mm		1750			
70	Oil	L		1450			
71	Weight	kg	A	5930			
		Testing Requi	rement	A			
72	Routine tests			Yes			
73	Lighting Impulse			No			
74	Chopped impules			No			
75	Temperture rise test		No				
76	Noise test		No				
77	Dissolved gas analysis		No				
78	Frequancy response analysis		No				
79	CT checks			No			
80	Other information Comments: All losses, dimensions & w	veights are provision	al only subject t	o confirmation following detaile	d design.		
	List of Routine Tests - Per IEC 60076-1:						
	1. Measurement of winding resistance (11.2)						
	2. Measurement of voltage ratio and check of phase displacement (11.3)						
	3. Measurement of short-circuit impedance and load loss (11.4)						
	4. Measurement of no-load loss and current (11.5)						
	5. Dielectric routine tests (IEC 60076-3)						
	6. Tests on on-load tap-changers, where appropriate (11.7)						
	7. Leak testing with pressure for liquid-immersed transformers (tightness test) (11.8)						
	8. Tightness tests and pressure tests for tanks for gas-filled transformers						
	9. Check of the ratio and polarity of built-in current transformers						
	10.Check of core and frame insulation f						
	Prepared By	Checked & Approved By					
	Pavan Kiran Suresh V						
		Jui Call V					