3000KVA Transformer Compari

			SOUCKVA III	ansionne	Compan	
			Schnieder		Voltamp	
S. N	Parameter	UOM	Electric	Kirloskar	Transforme	
	Name of manufacturer		Schieneder Electric	Kisloskar	Voltamp	
2	Reference standered		IS 2026	IS 2026	IS 2026	
3	KVA Rating	KVA	3000	3000	3000	
	Type of Cooling		ONAN	ONAN	ONAN	
5	Class of insulation	Class	A	Not Mentioned	A	
6	Rated frequency	Hz	50	50	Not Mentioned	
	No of phase	No	3	3	3	
	Rated Secondary Current	Amp	Not Mentioned	Not Mentioned	Not Mentioned	
	Rated voltage (kV)	KV	33/ 0.433	33/ 0.433	33/ 0.433	
	Connection Primary		Delta	Delta	Not Mentioned	
	Connection Secondary		Star	Star	Not Mentioned	
	VECTOR GROUP		Dyn11	Dyn11	Dyn11	
	Winding material HV side		Copper	Copper	Copper	
	Winding material LV side	101	Copper	Copper	Copper	
	Insulation level (Impulse withstand)(kVpeak) HV Insulation level (Impulse withstand)(kVpeak) LV	KVpeak	170	170	170	
	Insulation level (Impulse withstand) (kVpeak) LV Insulation level (power frequency withstand) (kVrms) HV	KVpeak KVrms	Not Mentioned 70	Not Mentioned 70	Not Mentioned 70	
	Insulation level (power frequency withstand) (kVrms) HV	KVrms	3	3	3	
10	insulation level (power frequency withstand) (kvrins) Lv	KVIIIIS	3		10 % to - 10% @	
10	Taping Range		+ 5% to - 15% @ 1.25%	+ 5% to - 15% @ 1.25%		
	Taping steps	<u> </u>	16 steps, 17 Position	16 steps, 17 Position	Not Mentioned	
	Tap change side	1	HT side	HT side	Not Mentioned	
	Tape Changer type		OLTC+RTCC+AVR	OLTC	OLTC+RTCC+AVR	
	Temperature rise of oil/winding over design ambient temperature		OLI CHI I CONTAIN	0210	OETC-KTCC-74VK	
23	of 50(oC)		50 / 55(oC)	50 / 55(oC)	50 / 55(oC)	
	Hot spot temperature rise over a maximum yearly weighted			20,00(00)		
24	temperature of 32 oC		98.5 oC	Not Mentioned	Not Mentioned	
	Short circuit Thermal withstand time	Sec	2	Not Mentioned	Not Mentioned	
26	% Impedance at 75°C, rated current &Frequency	% (IS Tol)	6.5	6.5	7	
27	No Load losses at rated voltage & frequency	Kw (Tol)	3.5	3.8	3.2	
28	Losses on 50% Load	Kw (Tol)	Not Mentioned	Not Mentioned	Not Mentioned	
29	Full Load losses at rated current & 75 deg C	Kw (Tol)	27	35	31	
30	% Efficiency at 100% Load at 0.8 Pf	%	98.75	98.41	Not Mentioned	
31	% Efficiency at 75% Load at 0.8 Pf	%	98.97	98.71	Not Mentioned	
32	% Efficiency at 50% Load at 0.8 Pf	%	99.15	98.97	Not Mentioned	
33	% Efficiency at 25% Load at 0.8 Pf	%	Not Mentioned	99.01	Not Mentioned	
	% Efficiency at 120% Load at uPf	%	Not Mentioned	Not Mentioned	Not Mentioned	
	% Efficiency at 100% Load at uPf	%	98.99	98.72	Not Mentioned	
	% Efficiency at 75% Load at uPf	%	99.18	98.97	Not Mentioned	
	% Efficiency at 50% Load at uPf	%	99.32	99.17	Not Mentioned	
	% Efficiency at 25% Load at uPf	%	Not Mentioned	99.21	Not Mentioned	
	% Load at which Max Efficiency occurs	%	36	32.95	Not Mentioned	
	Maximum Efficiency	%	99.36	Not Mentioned	Not Mentioned	
	Regulation at full load 0.8pf%	%	4.69	4.71	Not Mentioned	
	Regulation at full load upf%	%	1.11	1.36	Not Mentioned	
	Bushing in HT side		Porcelain	Not Mentioned	Not Mentioned	
	Bushing in LT side	101	Ероху	Not Mentioned	Not Mentioned	
	Voltage rating of Bushing HT side	KV	12	Not Mentioned	Not Mentioned	
	Voltage rating of Bushing LT side		1	Not Mentioned	Not Mentioned	
_	Current rating of Bushing HT side Current rating of Bushing LT side	Amp Amp	250 5000	Not Mentioned Not Mentioned	Not Mentioned Not Mentioned	
	Wieght of core and winding		4360	Not Mentioned	Not Mentioned	
	Wieght of tank and fitting	Kg Kg	4260	Not Mentioned	Not Mentioned	
_	Wieght of Oil	Kg	2790	Not Mentioned	Not Mentioned	
91	Total wieght	Kg	11400	Not Mentioned	Not Mentioned	
52	rocar megne	1,2	Cable Box 1 run/ph	Cable Box	Bare Bushing	
	Termination HT side	1			Dare Dustilling	
53	Termination HT side	-			Cable Box	
53 54	Termination LT side		Bus Duct frame	Cable Box	Cable Box 180 Degree	
53 54 55	Termination LT side Orentation		Bus Duct frame 180 Degree	Cable Box Not Mentioned	180 Degree	
53 54 55	Termination LT side Orentation		Bus Duct frame	Cable Box		
53 54 55	Termination LT side Orentation		Bus Duct frame 180 Degree	Cable Box Not Mentioned	180 Degree	

Scoring Pattern

Color	Marks		
	10		
	5		
	3		
	-5		

	SCORE CARD AS PER TECHNICAL ANALYSIS				
Vendor Name		Score Obtained			
vendor Name	Dark Green	Light Green	Blue	Red	
Schnieder	13	5	1	1	
Kirloskar	3	6	3	0	
Voltamp	2	1	1	0	
Century					
ATS					
Guru Teg Bahadur					
Svaska					