

		Aright Energy Private Limited L-11, Green Park Extension, New Delhi 110016			
		GUARANTEED TECHNICAL PARAMETERS			
				Doc No.	WPS/IND/2024-25/021E
				Rev. Status	R02
S.No.	Description	Units	Technical Parameters		Tesla's Reply
1	Reference Standarad		IS 2026		IS 2026
2	Transformer Application		Inverter Duty Transformer		Inverter Duty Transformer
3	No. of Phases		Three		Three
4	Frequency	Hz	50		50
5	Type of Transformer		Conventional Type		Conventional Type
6	Type of Cooling		ONAN		ONAN
7	Rated Power	kVA	4500		4500
8	Rated Voltage (HV / LV)	Volt	33000 / 660 (Voltage Range 594-726V)		33000 / 660 (Voltage Range 594-726V)
9	Rated Current (HV / LV)	Amp	HV - 78.72      LV - 3765.32		HV - 78.72 / LV - 3765.32
10	Type of Tap Changer		Off Circuit Tap Changer		Off Circuit Tap Changer
11	Tapping Range		5% to-5% @ 2.5%, 4 Steps and 5 Position		5% to-5% @ 2.5%, 4 Steps and 5 Position
12	Vector Group		YNd11		YNd11
13	Winding Connection (HV / LV)		Star/Delta		Star/Delta
14	Max.Ambient Temperature	°C	51		51
15	Temperature Rise in Oil	°C	50		50
16	Temperature Rise in Winding	°C	55		55
17	Class of Insulation		Class E		Class A
18	No Load losses	Watts	5000		5000
19	Load losses	Watts	40000		40500
20	Percentage Impedance	%	7% (± IS Tolerance)		7% (± IS Tolerance)
21	Core Material		CRGO		CRGO
22	Conductor Material		Electrolytic Copper		Electrolytic Copper
23	Type of Winding (HV)		Layer / Disc		Disc
24	Type of Winding (LV)		Foil / Spiral		Spiral
25	Insulation				
a)	HV Winding		Thermally upgraded paper.		Thermally upgraded paper.
b)	LV Winding		Thermally upgraded paper as a Inter Layer		Thermally upgraded paper as a Inter Layer
26	Maximum Flux Density	Tesla	1.7 @rated voltage		1.7 @rated voltage
27	Maximum Current Density	A/mm2	≤3.5 @rated tap		≤3.5 @rated tap
28	Lightning Impulse Voltage (HV / LV)	kVP	170/-		170/-
29	Power Frequency withstand Voltage (HV / LV)	kVrms	70/3		70/3
30	Terminal Arrangement (HV)		Cable Box with space heater		Cable Box with space heater
31	Terminal Arrangement (LV)		Cable Box with 12 Runs, 1C x 300 sq.mm Cable with side by side arrangement.		Cable Box with 12 Runs, 1C x 300 sq.mm Cable with side by side arrangement.
32	Type of Oil		Un-inhibited mineral oil as per IS 335 / IEC 60296.		Un-inhibited mineral oil as per IS 335 / IEC 60296.
33	Overall Dimensions (L x W x H)	mm	Will be provided During Detailed Engineering		2800 x 3000 x 2300 mm (approx)
34	Overall Weight	kg			12050 kg
35	Finish Paint Shade		DA Grey [632 of IS 5] Suitable to C3H corrosive category.		DA Grey [632 of IS 5] Suitable to C3H corrosive category.

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S.No.	Description	Units	Technical Parameters		Tesla's Reply
36	List of Standard Fittings				
	HV Bushing		4 Nos		Provided
	LV Bushing		3 Nos		Provided
	Thermometer Pocket		3 Nos		Provided
	Radiators		As Required		Provided
	Radiator Shut-Off Valve		As Required		Provided
	Inspection Cover With Air-Release Plug		2 Nos		Provided
	Conservator		1 Nos		Provided
	Dehydrant Silica-Gel Breather		1 Nos		Provided
	Bi-Directional Wheel (Flat Type)		Not applicable.		Not applicable.
	Earthing Terminal		2 Nos		Provided
	Jacking Pad		4 Nos		Provided
	Base arrangement		1 Set.		Provided
	Oil Drain Cum Bottom Filter Valve		1 Nos		Provided
	Oil Filter Valve		1 Nos		Provided
	Monogram Plate		1 Nos		Provided
	Rating & Diagram Plate		1 Nos		Provided
	Prismatic Oil-Level Gauge		1 Nos		Provided
	Transformer Lifting Lug		4 Nos		Provided
	Off Circuit Tap Switch		1 Nos		Provided
	Oil Temperature Indicator Alarm & Trip contacts		1 Nos		Provided
	Winding Temperature Indicator Alarm & Trip contacts		2 Nos		Provided
	Buchholz's relay with Alarm & Trip contacts		1 Nos		Provided
	Magnetic Oil Level Gauge with Alarm contact		1 Nos		Provided
	Marshalling Box- IP55		1 Nos		Provided
	Pressure Relief Device with Trip Contact		1 Nos		Provided
	WTI-CT		2 Nos (1Nos for LV & 1 No for HV )		Provided
	Conservator Shut-Off Valve		2 Nos		Provided
	HV Cable box with inspection cover and space heater		1 Nos		Provided
	LV Cable box with inspection cover and space heater		1 Nos		
	NIFPS		Not applicable.		
Note	1) All Routine Tests will be conducted as per IS 2026				
	2) If Type and Special Test is required It will be additional Price				