

		Aright Energy Private Limited L-11, Green Park Extension, New Delhi 110016			
		GUARANTEED TECHNICAL PARAMETERS			
			Doc No.	WPS/IND/2024-25/021D	
			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	3400		3400
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 - 59.48	LV - 2844.91	HV - 59.48 / LV - 2844.91
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	4000		4000
19	Load losses	Watts	30000		30600
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 10 Runs, 1C x 300 sq.mm Cable with side by side arrangement.		Cable Box with 10 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		2600 x 2830 x 2300 mm (approx)
34	Overall Weight	kg			9550 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	<u>List of Standard Fittings</u>				
	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	Provided
	NIFPS			Not applicable.	Not applicable.
<u>Note</u>	1) All Routine Tests will be conducted as per IS 2026				
	2) If Type and Special Test is required It will be additional Price				