Laboratory Danish Private Limited Transformer Testing Laboratory, F-679-680,

Sitapura Industrial Area, Jaipur, Rajasthan

Accreditation Standard ISO/IEC 17025: 2005

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Validity 30.06.2017 to 29.06.2019 Last Amended on --

SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
	of Test	Performed	against which tests are	Limits of Detection
İ			performed	

ELECTRICAL TESTING

I.	INDUCTORS AND TRANSFORMERS			
1.	Power Transformers (5 kVA to 5 MVA,	Winding resistance	IS 2026 (Part 1) IEC60076-1, Cl.10.2 IS 1180 (Part 1)	0.5 mΩ to 500 Ω
	3-Phase Voltage class up to 33 kV)	Voltage ratio and check of voltage vector relationship		1 to 200
	Distribution Transformers	Impedance (principal tapping) and load loss	IS 2026 (Part 1) IEC60076-1, Cl.10.4 , IS 1180 (Part 1)	0.04 Ω to 3300 Ω 10 V to 3300 V 20 W to 100 kW
	(Non-sealed 16 kVA to 2500 kVA, 3-Phase	No-load loss and current	IS 2026 (Part 1) IEC60076-1, Cl.10.5 IS 1180 (Part 1)	10 W to 6000 W 20 mA to 5 A
	Voltage class upto 33 kV)	Insulation resistance& Polarization Index Dielectric tests –	DPLTL/TP/04, Issue 01, Rev 00, Date: 01/03/2016 IS 2026 (Part 3)	1 MΩ to 100 GΩ 1 kV to 125 kV
		Separate-source voltage withstand test,	IEC60076-3, Cl.11	1 KV 10 125 KV
		Induced over voltage withstand test	IS 2026 (Part 3) IEC60076-3, Cl.12 IS 1180 (Part 1)	200 V to 22 kV 150Hz
		Temperature rise	IS 2026 (Part 2) IEC60076-2 IS 1180 (Part 1)	Ambient to 120 °C
		Zero-sequence impedance of three phase transformer	IS 2026 (Part 1) IEC60076-1, Cl. 10.7 IS 1180 (Part 1)	1 A to 250 A 1 V to 100 V

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Power Transformers	Magnetic balance test for three phase transformer	CBIP manual, Cl.7.3	100 V to 400 V
	(5 kVA to 5 MVA, 3-Phase	No load current at all adjustments	IS 2026 (Part 1) IEC60076-1, Cl.10.6	0.01 A to 100 A
	Voltage class up to 33 kV)	Transformer oil Dielectric Test (BDV)	IS 6792	20 kV to 100 kV
	Distribution Transformers (Non-sealed			
	16 kVA to 2500 kVA, 3-Phase Voltage class upto 33 kV)			

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