Laboratory Electrical Testing Laboratory, TELK, Angamaly South P.O.,

Ernakulam, Kerala

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7730 Page 1 of 2

Validity 16.08.2018 to 15.08.2020 Last Amended on --

S	I.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
		of Test	-	against which tests are	Limits of Detection
				performed	

ELECTRICAL TESTING

I.	INDUCTORS & TRANSFORMERS			
1.	Power Transformer 3 MVA to 315 MVA,		IS 2026-1 IEC 60076-1	1 to 1000
	3φ, 3.6kV to 420 Kv &		IS 2026-1 IEC 60076-1	200 V to 415 V
	1.5 MVA to 270 MVA 1 \(\phi \), 3.6kV to 420 kV		IS 2026-1 IEC 60076-1	$0.001~\Omega$ to $100~\Omega$
		Insulation resistance	IS 2026-1 IEC 60076-1	0.1 MΩ to 1 TΩ
		Capacitance and tan delta	IS 2026-1 IEC 60076-1	Cap. 1 pF to 100 mF Tan delta 0.09 to 100
		i	IS 2026-1 IEC 60076-1	500 W to 200 kW
			IS 2026-1 IEC 60076-1	1000 W to 1000 kW
		· •	IS 2026-1 IEC 60076-1	1 % to 50 %
			IS 2026-1 IEC 60076-1	1 % to 50 %
		Induced over voltage	IS 2026-3 IEC 60076-3	10 kV to 630 kV
		, , , ,	IS 2026-3 IEC 60076-3	10 kV to 275 kV
		Partial discharge	IS 2026-3 IEC 60076-3	1pC to 10000 pC
		Lightning impulse (chopped wave)	IS 2026-3 IEC 60076-3	20 kV to 1600 kV
		Switching impulse voltage withstand	IS 2026-3 IEC 60076-3	375 kV to 1175 kV

Mandeep	Kumar
Conve	nor

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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
		Temperature rise	IS 2026-3 IEC 60076-3	1200 A, 66 kV 20 °C to 120 °C
		Magnetic balance	CBIP manual on Transformers. Pub No. 317	At 240 Volt
		RSO	IS 2026-1 IEC 60076-1 (Annexure B)	50 V to 500 V impulse
		Audible sound level	IEC 60076-10-1	16.4 dB to 100 dB
		Harmonics content	IS 2026-1 IEC 60076-1	1 to 49 th Harmonic
		, 3	IS 2026-1 IEC 60076-1	200 V to 415 V, 0 to 10 A
		Auxiliary loss	IS 2026-1 IEC 60076-1	0.5 kW to 25 kW

Mandeep Kumar Convenor