Excel Electrical Equipment Testing Laboratory, Koonamthai, Changampuzha Nagar P.O., Kochi, Kerala Laboratory

ISO/IEC 17025: 2005 **Accreditation Standard** 

**Certificate Number** Page 1 of 2 TC-7256

**Validity** 18.05.2018 to 17.05.2020 Last Amended on --

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

## **ELECTRICAL TESTING**

I.	ELECTRICAL MATE	RIALS – LIQUID DIELEC	TRIC MATERIALS		
1.	Mineral Insulating oil/Transformer oil	Electric Strength (Break Down Voltage- BDV)	IS 6792	2 kV to 100 kV	
		Dielectric Dissipation Factor (Tan∂)	IS:6262	0.001 to 10	
		Specific Resistance (Resistivity)	IS 6103	$10^9$ to $10^{18}\Omega$ cm	
		Neutralization value	IS 1448(P-2)	0.025 mg KOH/ g to 1 mg KOH/ g	
		Water Content	IS 13567	5 μg/g to 1000 μg/g	
		Inter Facial Tension	IS 6104	0.001 N/m to 0.06 N/m	
		Density at 29.5 °C	IS 1448 (P-16)	0.8 g/cm <sup>3</sup> to 0.9 g/cm <sup>3</sup>	
		Kinematic Viscosity at 27°C	IS 1448 (P-25)	5 cSt to 50 cSt	
		Flash Point	IS1448(P-21)	100 °C to 200 °C	
		SK Value	IS 335	0.1 ml to10 ml	
		Sediments& Sludge	IS1866 Ann A	0.1% to 2 %	
		Dissolved Gas Analysis	IS 9434:1992,		
		1.Hydrogen 2.Hydrocarbons	RA:2013 & IS 10593:2011	100 to 15000 μl/l	
		Methane Ethane Ethylene Acetylene		1 μl/l to 2500 μl/l 1 μl/l to 2500 μl/l 1 μl/l to 2500 μl/l 1 μl/l to 2500 μl/l	

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Convenor	Program Director

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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
		3.Oxides Carbon dioxide Carbon monoxide 4. Atmospheric gases		1 μl/l to10000 μl/l 1 μl/l to1500 μl/l
		Nitrogen Oxygen		100 µl/l to 800000 µl/l 100 µl/l to 200000 µl/l

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