Transgear Electrical Services, # 40/3, J C Industrial Layout, Yelachenahalli, Kanakapura Road, Bangalore, Karnataka Laboratory

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

Page 1 of 1 **Certificate Number** TC-6358 (in lieu of T-2005)

Validity 26.10.2017 to 25.10.2019 Last Amended on --

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

## **ELECTRICAL TESTING**

I.	ELECTRICAL MAT			
1.	Transformer Oil (Mineral	Inter Facial Tension (IFT)	IS 6104	0.015 N/m to 0.090 N/m
	Insulating Oil)	Acidity (Neutralization Value)	IS 1448 (Part 2)	0 to 1.0 mg KOH/g
		Sludge/Sediment	IS 1866 (Clause 4.3, Annexure A)	0.01 mg to 2 gm
		Water (Moisture) Content	IS 13567	4 mg/kg to 500 mg/kg
		Flash Point	IS 1448 (Part 21)	27 °C to 360 °C
		Dissolved Gas Analysis (Carbon monoxide, Carbon dioxide, Ethane, Methane, Ethylene, Acetylene, Hydrogen, Oxygen, Nitrogen)	IS 9434 IS 10593	1 μl/L to 9000 μl/L
		Breakdown voltage	IS 6792	1 kV to 100 kV
		Tan Delta (Dielectric Dissipation Factor)	IS 6262	0.0002 to 10
		Resistivity (Specific Resistance)	IS 6103	10 <sup>7</sup> Ωcm to 10 <sup>15</sup> Ωcm
		Appearance	IS 335	Qualitative (Free from suspended particles)
		Density	IS 1448 (Part 16)	0.80 g/cm <sup>3</sup> to 1.00 g/cm <sup>3</sup>

Naveen Jangra Convenor