

Laboratory **Event Electric Private Limited (Division-Ktec Oil Laboratories),  
Plot No. 727, 1st Floor, Phase-1, MIE, Bahadurgarh, Haryana**

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

Certificate Number **TC-7743**

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Validity **16.08.2018 to 15.08.2020**

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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**ELECTRICAL TESTING**

I.	LIQUID DIELECTRIC MATERIAL			
1.	<b>New Insulating Oil &amp; Mineral insulating oil in equipment</b>	Kinematic Viscosity at 27°C	IS 1448 (Part 25):1976 (RA 2007)	7.0 cSt to 28 cSt
		Sludge/Sediment	IS 1866 (AP:C):2017	Upto 10% wt
		Water content Test	IS 13567:1992 (RA 2008)	4 mg/kg to 1000 mg/kg/ 0.1 mg/kg
		Flash point	IS 1448(Part 21):2012	90 °C to 370 °C/ 0.5 °C
		Dissolve Gas Analysis	IS 9434:1992 (RA 2008)	
		Methane (CH4)	IS 10593:2006 (RA 2016)	1 µl/l to 100000 µl/l
		Ethane (C2H6)		1 µl/l to 100000 µl/l
		Ethylene (C2H4)		1 µl/l to 100000 µl/l
		Acetylene (C2H2)		1 µl/l to 100000 µl/l
		Hydrogen (H2)		5 µl/l to 100000 µl/l
		Oxygen (O2)		50 µl/l to 100000 µl/l
		Nitrogen (N2)		50 µl/l to 100000 µl/l
		Carbon mono-oxide (CO)		1 µl/l to 100000 µl/l
		Carbon dioxide (CO2)		1 µl/l to 100000 µl/l
		Break Down Voltage	IS 6792:2017	20 kV to 100 kV/0.1kV
		Tan Delta Test	IS 6262:1971 (RA 2016)	0.0001 to 1.00/0.0001
		Specific Resistivity Test	IS 6103:1971 (RA 2016)	1x10 <sup>9</sup> to 10 <sup>15</sup> Ωcm
		Density	IS 1448 (Part 16):2014	0.8 g/cc to 0.9 g/cc/0.001
		Pour Point	IS 1448 (Part 10):2013	<-6.0°C/1°C
		Furan Content	IEC 61198:1993-09 (1 <sup>st</sup> Edition)	0.01 mg/kg to 100 gm/kg of oil
Interfacial Tension	IS 6104:1971 (RA 2016)	1 mN/m to 90 mN/m/ 1 mN/m		
Appearance	IS 335:1993 (RA 2010)	Qualitative		