

Laboratory **New Delhi Laboratories Private Limited, Plot No. 709, Part-A, MIE,
Delhi Rohtak Road, Bahadurgarh, Haryana**

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

Certificate Number **TC-7433 (in lieu of T-0074)**

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Validity **05.08.2018 to 04.08.2020**

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.	ELECTRICAL MATERIALS- LIQUID DIELECTRIC MATERIALS			
1.	Transformer oil (New & Used)	Electric Strength	IS: 6792	Upto 100 kV
		Water content	IS:13567	1 mg/kg to 400 mg/kg
		Tan delta	IS: 6262	0.000001 to 5.00
		Resistivity	IS:6103	1x10 ⁹ ohm-cm to 1x10 ¹⁹ ohm-cm
		Neutralization value	IS:1448(P-2)	Upto 5 mg KOH/ gm of oil
		Interfacial tension	IS: 6104	Upto 0.09 N/m
		Flash point	IS:1448(P-21)	90 °C to 180 °C
		Sediments & Sludge	IS:1866(AP:A)	Uto 10%
		DGA Methane Ethylene Ethane Acetylene Hydrogen Carbon Monoxide Carbon Dioxide	IS:9434 IS:10593	1µl/l to 10 lacs µl/l
		Oxidation stability 164 Hours at 100 °C Sludge	IS:335	Upto 10 %
		Acidity		Upto 100 mg KOH/ gm of oil
		Density	IS:1448 (P-16)	0.800 g/cc to 0.900 g/cc
		Presence of oxidation Inhibitor	IS:13631Method-A	Qualitative
		Kinematic viscosity (at 27 °C & 40 °C)	IS:1448 (P-25)	1 cSt to 50 cSt

**Iti Saxena
Convenor**

**Alok Jain
Program Director**

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		Corrosive Sulphur	IS:335-2005; Annex B	Qualitative (Corrosive/Non-corrosive)
		Ageing characteristics	IS:12177 Method-A	
		A. Resistivity at 27°C at 90°C		1x10 ⁹ ohm-cm to 1x10 ¹⁹ ohm-cm
		B. Tan Delta at 90°C		0.000001 to 5.00
		C. Total Acidity		Upto 5 mg KOH/ gm of oil
		D. Total Sludge		Upto 10%
		S.K. Value	IS:335	Upto 10 %
		Furan Analysis	IEC-61198	0.01 mg/kg to 100 mg/kg

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