

Laboratory Switchgear Testing & Development Station (STDS), Central Power Research Institute, Govindpura, Bhopal, Madhya Pradesh
Accreditation Standard ISO/IEC 17025: 2005
Discipline Chemical Testing **Issue Date** 26.06.2015
Certificate Number T-2549 **Valid Until** 09.06.2017
Last Amended on - **Page** 1 of 2

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	PETROLEUM			
1.	Mineral Insulating Oil in Equipment	Interfacial Tension	IS 6104: 1971	Upto 80 mN/m
		Flash Point	IS 1448 (Part 21): 1992	70 °C to 200 °C
		Neutralization Value	IS 1448 (Part 2): 1967	Upto to 2 mg KOH/ g of oil
		Water Content	IS 13567: 1992	Upto to 1000 ppm
		Sediments & Sludge	IS 1866: 2000 Annexure 'A'	Upto to 1 % by Weight
		Electric Strength	IS 6792: 1992	5 kV to 100 kV
		Dielectric Dissipation Factor	IS 6262: 1971	0.00001 to 2
		Specific Resistance	IS 6103: 1971	10 ⁹ Ωcm to 10 ¹⁶ Ωcm
		Dissolved Gas Analysis	IS 9434: 1992	In ppm HC: 0 to 20000 H ₂ : 0 to 10000 CO: 0 to 30000 O ₂ : 0 to 50000 N ₂ : 0 to 100000
		Appearance	As Per IS 335: 1993	(Qualitative) A representative sample of the oil shall be examined in a 100 mm thick layer at 27 °C

Dheeraj Chawla
 Convenor

N. Venkateswaran
 Program Manager

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	New Insulating Oil	Interfacial Tension	IS 6104: 1971	Upto to 80 mN/m
		Flash Point	IS 1448 (Part 21): 1992	70 °C to 200 °C
		Neutralization Value	IS 1448 (Part 2): 1967	Upto to 2 mg KOH/ g of oil
		Water Content	IS 13567: 1992	Upto to 1000 ppm
		Electric Strength	IS 6792: 1992	5 kV to 100 kV
		Dielectric Dissipation Factor	IS 6262: 1971	0.00001 to 2
		Specific Resistance	IS 6103: 1971	10 ⁹ Ωcm to 10 ¹⁶ Ωcm
		Appearance	As Per IS 335: 1993	(Qualitative) A representative sample of the oil shall be examined in a 100 mm thick layer at 27 °C

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