

Laboratory Central Coal & Oil Testing Laboratory (CCOTL), MAHAGENCO, Vidyut Bhavan, Katol Road, Nagpur, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5380 (in lieu of T-1916, T-2125)

Page 1 of 2

Validity 09.03.2017 to 08.03.2019

Last Amended on 27.03.2017

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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CHEMICAL TESTING

I.	SOLID FUELS			
1.	Coal	Moisture	IS:1350(P:1) /	1-25%
		Volatile Matter	ASTM D 7582-15,	1-60%
		Ash		0.5-60%
		Sulphur Analyser	IS:1350 (Part : 3) / ASTM D 4239-14e2 ,	0.05%-10%
		Determination of Gross Calorific Value	IS:1350 (Part : 2 / ASTM D 5865-13,	1000-8500 Kcal/Kg

Vinay Kumar Tyagi
Convenor

N. Venkateswaran
Program Director

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ELECTRICAL TESTING

I.	ELECTRICAL MATERIALS - LIQUID DIELECTRIC MATERIALS			
1.	Transformer Oil	Water Content	Karl Fischer Method IS:13567	1-1000 ppm
		Neutralization Value (Total Acidity)	Potentiometric Principle IS:1448 (P-2)	0-14 mgKOH/gm
		Inter Facial Tension	Ring Method IS:6104:1971	1-250 mN/m
		Flash Point	Pensky Martens Cup Tester ASTM D93-16A	110°C – 370°C
		Break Down Voltage	By Flash over Principle IS:6792:	1-100 KV
		Dielectric Dissipation Factor (Tan Delta)	Ratio Arm Bridge Principle IS:6262	0.00001-1.000
		Specific Resistance (Resistivity)	Ratio Arm Bridge Principle IS:6103	10 ⁹ to 10 ¹⁵ Ω-cm

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