National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CENTRAL COAL AND OIL TESTING LABORATORY, MAHAGENCO, EXPANSION SERVICE BUILDING, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5380 **Page No** 1 of 2

Validity 09/03/2022 to 08/03/2024 **Last Amended on** 03/04/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- SOLID FUELS	COAL	ASH	IS 1350 (Part 1) / ASTM D7582-15
2	CHEMICAL- SOLID FUELS	COAL	GROSS CALORIFIC VALUE (GCV)	IS 1350 (Part 2)/ ASTM D5865-19
3	CHEMICAL- SOLID FUELS	COAL	MOISTURE (Inherent Moisture derived at 108 Deg C)	IS 1350 (Part 1) / ASTM D 7582-15
4	CHEMICAL- SOLID FUELS	COAL	SULPHUR	IS 1350 (Part 3)/ ASTM D4239
5	CHEMICAL- SOLID FUELS	coal	VOLATILE MATTER	IS 1350 (Part 1) / ASTM D7582-15
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Break Down Voltage	IS 6792 (By Flash Over Principle)
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dielectric Dissipation Factor (Tan Delta)	IS 6262 (Ratio Arm Bridge Principle)
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis (DGA)-C2H4	ASTM D3612-02 (Gas Chromatography)
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis (DGA)-C2H6	ASTM D3612-02 (Gas Chromatography)
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis (DGA)-CH4	ASTM D3612-02 (Gas Chromatography)
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis (DGA)-CO	ASTM D 3612-02 (Gas Chromatography)
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis (DGA)-CO2	ASTM D 3612-02 (Gas Chromatography)
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis (DGA)-H2	ASTM D3612-02 (Gas Chromatography)
14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis(DGA)-C2H2	ASTM D 3612-02 (Gas Chromatography)
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Flash Point	ASTM D93-20 (Pensky Martens Cup Tester)

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16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Neutralization value	IS 1448 (Part-2) (Potentiometric principle)
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Specific Resistance (Resistivity)	IS 6103 (Ratio Arm Bridge Principle)
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Water content	IS 13567 (Karl Fischer Method)