National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CENTRAL INSULATING OIL TESTING LABORATORY, POWERGRID, GHATKESAR, MEDCHAL MALKAJGIRI, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5121 **Page No** 1 of 3

Validity 26/10/2022 to 25/10/2024 **Last Amended on** 27/10/2022

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	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Carbon Type Composition Ca	IS-13155
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Carbon Type Composition Cn	IS 13155
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Carbon Type Composition Cp	IS 13155
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Corrosive Sulphur	ASTM D-1275
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Degree Of Polymerization	IEC 60450
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Density	ASTM D 4052
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dielectric Dissipation Factor (DDF)	IEC 60247
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dielectric Strength	IEC 60156
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis For CO	IEC60567
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis For N2	IEC60567
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis For O2	IEC60567
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis For C2H2	IEC60567
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis For C2H4	IEC60567

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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis For C2H6	IEC60657
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis For CO2	IEC60567
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	DISSOLVED GAS ANALYSIS For H2	IEC60567
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis For CH4	IEC60567
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	FLASH POINT CCC	ASTM D 6450
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Flash Point PMCC	ASTM D 93
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Furan Analysis	IEC61198
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Gassing Tendency(+Gas evolving, -Gas Absorbing)	ASTM D 2300
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Inhibitor Content for New & In service Oils	IEC 60666
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Inter facial Tension	ASTM D 971
24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Kinematic Viscosity	ASTM D 7042
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Oxidation Stability Total Acidity	IEC 61125
26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Oxidation Stability Sludge Content	IEC 61125
27	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Oxidative Stability Dielectric Dissipation Factor(DDF)	IEC 61125

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28	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Pour Point	IS 1448.P10
29	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Sludge Content	IS 1866
30	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Specific Resistance	IEC60247
31	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Total Acidity	IEC 62021-1
32	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Water Content	IEC60814