National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TRANSFORMER OIL TESTING LAB, TATA STEEL KALINGANAGAR, JAJPUR, ODISHA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8793 **Page No** 1 of 3

Validity 01/04/2022 to 31/03/2024 **Last Amended on** -

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	Density	IS 1866 (Cl 5.14)
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas analysis for Acetylene	IS 10593
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis Acetylene	ASTM D3612 (02) MethodC
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis for Ethane	ASTM D3612 (02) Method C
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis for Ethane	IS 10593
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis of CO	IS 10593
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis of Oxygen	IS 10593
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Interfacial Tension	IS 1866 (Cl 5.9)
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Oil density test	IS 1448[p-16]
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Appearance	IS 1866 (Cl 5.2)
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Appearance	IS 335 (cl 6.6)
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Breakdown Voltage	IS 1866 (Cl 5.03)
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Breakdown Voltage	IS 6792

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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis for Methane	ASTM D3612 (2) method C
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis CO	ASTM D3612(02) method :C
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis for Ethylene	ASTM D3612(2) Method C
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis for Ethylene	IS 10593
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis for Hydrogen	IS 10593
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis for Methane	IS 10593
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis for Oxygen	ASTM D3612 (2) method C
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis of Hydrogen	ASTM D3612 (2) method C
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Flash point	ASTM D93
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Flash Point	IS 1866(Cl 5.11)
24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Interfacial Tension	ASTM D971
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Total Acidity Number	ASTM D664 17a
26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Total Acidity Number	IS 1866 (Cl 5.5)
27	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Water Content	IS 13567

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28	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Water content	IS 1866 (Cl 5.4.3)