National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TRANSFORMER OIL TESTING LABORATORY, SHREE ABIRAMI ENGINEERING WORKS, PLOT NO. 9, PALANI NAGAR, MOULIWAKKAM, PORUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 29/01/2022 to 28/01/2024 **Last Amended on** 18/08/2022

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	Electric grade paper	Degree of Polymerization	ASTM D 4243-16
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transforme oil	Density	IEC 60422
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer	Density	IS 335
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer	Dissolved Gas Analysis - Propylene	IEC 60567
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	2-furfural & related compounds - 2 Acetylfuran	IEC 61198
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	2-furfural & related compounds - 2 Acetylfuran	IS 15668 Method A
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	2-furfural & related compounds - 2 Furaldehyde	IEC 61198
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	2-furfural & related compounds - 2 Furaldehyde	IS 15668 Method A
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	2-furfural & related compounds - 2 Furfuryl Alcohol	IEC 61198
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	2-furfural & related compounds - 2 Furfuryl Alcohol	IS 15668 Method A
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	2-furfural & related compounds - 5 Hydroxymethyl 2-Furaldehyde	IEC 61198
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	2-furfural & related compounds - 5 Hydroxymethyl 2-Furaldehyde	IS 15668 Method A
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	2-furfural & related compounds - 5 Methyl -2- Furaldehyde	IEC 61198

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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	2-furfural & related compounds - 5 Methyl -2- Furaldehyde	IS 15668 Method A
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Acidity (Neutralization Number)	IEC 62021-2 Coloumetric tritration
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Appearance	IEC 60296
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Appearance	IS 335
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Break Down Voltage (BDV)	IEC 60156
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Break Down Voltage (BDV)	IS 6792
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Corrosive Sulphur	IEC 62535
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Corrosive Sulphur	IS 16310
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Density	IEC 60296
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Density	IS 1448 (Part 16)
24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Density	ISO 3675
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Acetylene	IS 10593
26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Acetylene	IS 9434
27	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Carbon Dioxide	IS 10593

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28	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Carbon Dioxide	IS 9434
29	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Carbon Monoxide	IS 10593
30	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Carbon Monoxide	IS 9434
31	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Ethane	IS 10593
32	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Ethane	IS 9434
33	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis - Ethylene	IEC 60599
34	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Ethylene	IS 10593
35	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Ethylene	IS 9434
36	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis - Hydrogen	IEC 60567
37	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis - Hydrogen	IEC 60599
38	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Hydrogen	IS 10593
39	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Hydrogen	IS 9434
40	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis - Methane	IEC 60567
41	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis - Methane	IEC 60599

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42	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Methane	IS 10593
43	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Methane	IS 9434
44	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis - Oxygen	IEC 60567
45	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis - Oxygen	IEC 60599
46	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Oxygen	IS 10593
47	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Oxygen	IS 9434
48	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis - Propane	IEC 60567
49	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis - Propane	IEC 60599
50	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Propane	IS 10593
51	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Propane	IS 9434
52	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis - Propylene	IEC 60599
53	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Propylene	IS 10593
54	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Propylene	IS 9434
55	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis- Acetylene	IEC 60567

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56	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis- Acetylene	IEC 60599
57	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis- Carbon dioxide	IEC 60567
58	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis- Carbon dioxide	IEC 60599
59	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis- Carbon Monoxide	IEC 60567
60	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis- Carbon Moxide	IEC 60599
61	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis- Ethane	IEC 60567
62	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis- Ethane	IEC 60599
63	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis- Ethylene	IEC 60567
64	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis - Nitrogen	IEC 60567
65	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis- Nitrogen	IEC 60599
66	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis- Nitrogen	IS 10593
67	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis- Nitrogen	IS 9434
68	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Flash Point	IS 1448 (Part 21)
69	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Flash point	ISO 2719

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70	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Interfacial Tension (IFT)	ASTM D 971
71	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Pour Point	IS 1448 P:10/sec 2
72	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Sludge / Sediment	IEC 60422
73	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Sludge / Sediment	IS 1866
74	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Specific Resistivity Test	IEC 60247
75	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Specific Resistivity Test	IS 16840
76	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Tan Delta Test at 90 deg C	IEC 60247
77	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Tan Delta Test at 90 deg C	IS 16840
78	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Viscosity	IS 1448 (Part 25)
79	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Water Content	IEC 60814
80	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Water Content	IS 13567 Method-I