National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : INSULATING OIL TESTING LABORATORY, POWER GRID CORPORATION OF INDIA LIMITED, 400/220 KV MISA SUB-STATION, VELUGURI, POST-KOTHIATOLI, HOJAI, ASSAM, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7568 **Page No** 1 of 4

Validity 10/01/2023 to 09/01/2025 **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	Dielectric Strength/ Breakdown Voltage	IEC 60156
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis(Methane)	IS 9434
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Carbon Type Composition (Aromatic)	IS 13155
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Carbon Type Composition (Naphthenic)	IS 13155
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Carbon Type Composition (Paraffinic)	IS 13155-1991
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Density	ASTM D4052-22
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dielectric Dissipation Factor / Tan Delta	IEC 60247
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dielectric Dissipation Factor / Tan Delta	IS 6262
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dielectric Strength/ Breakdown Voltage	IS 6792
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Acetylene)	ASTM D3612-02
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Acetylene)	IEC 60567
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Acetylene)	IS 9434
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Carbon dioxide)	ASTM D3612-02

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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis (Carbon dioxide)	IEC 60567
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Carbon Mono oxide)	IS 9434
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Carbon Monoxide)	ASTM D3612-02
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Carbon Monoxide)	IEC 60567
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Ethane)	ASTM D3612-02
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Ethane)	IEC 60567
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	transformer Oils	Dissolved Gas Analysis (Ethane)	IS 9434
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Ethylene)	ASTM D3612-02
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Ethylene)	IEC 60567
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Ethylene)	IS 9434
24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis (Hydrogen)	ASTM D3612-02
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Hydrogen)	IEC 60567
26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Hydrogen)	IS 9434
27	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Methane)	ASTM D3612-02

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28	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Methane)	IEC 60567
29	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Nitrogen)	IEC 60567
30	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Nitrogen)	IS 9434
31	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Oxygen)	ASTM D3612-02
32	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Oxygen)	IEC 60567
33	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis (Oxygen)	IS 9434
34	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis(Carbon dioxide)	IS 9434
35	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolved Gas Analysis(Nitrogen)	ASTM D3612-02
36	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Flash Point	ASTM D6450-16a
37	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Furan Analysis (2ACF)	ASTM D5837
38	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Furan Analysis (2ACF)	IEC 61198
39	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Furan Analysis (2FAL)	ASTM D5837
40	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Furan Analysis (2FAL)	IEC 61198
41	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Furan Analysis (2FOL)	ASTM D5837

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42	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Furan Analysis (2FOL)	IEC 61198
43	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Furan Analysis (5 MEF)	ASTM D 5837
44	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Furan Analysis (5 MEF)	IEC 61198
45	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Furan Analysis (5HMF)	ASTM D5837
46	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Furan Analysis (5HMF)	IEC 61198
47	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Inhibitor Content	ASTM D2668-07
48	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Inhibitor Content	IEC 60666
49	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Inhibitor Content	IS 13631
50	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Interfacial Tension	ASTM D971
51	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Interfacial Tension	IS 6104
52	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Resistivity	IEC 60247
53	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Resistivity	IS 6103
54	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Water Content	IEC 60814
55	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Water Content	IS 13567