National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RELIABLE TRANSOIL TESTING LABORATORY, SHOP NO.1,2 3, NERUL SHUBHANKAR CHS, THANE, NAVI MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10812 **Page No** 1 of 4

Validity 13/07/2022 to 12/07/2024 **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	Appearance	IS:335
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Break Down Voltage	IS:6792
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Density at 29.5 Deg. C	IS 1448 Part-16:2014 Reaffirmed Year :2019/ISO:3675
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dielectric Dissipation Factor at 90 Deg.C	IEC: 60247
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Acetylene	IS: 9434: 2019/IEC:60567
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis -Carbon Dioxide	IS: 9434: 2019/IEC:60567
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis -Carbon Monoxide	IS: 9434: 2019/IEC:60567
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis -Ethane	IS: 9434: 2019/IEC:60567
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Ethylene	IS: 9434: 2019/IEC:60567
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Hydrogen	IS: 9434: 2019/IEC:60567
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Methane	IS: 9434: 2019/IEC:60567
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Nitrogen	IS: 9434: 2019/IEC:60567
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Oxygen	IS: 9434: 2019/IEC:60567

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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Flash Point	IS: 1448:2019 (Part-21)/ISO:2719
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Furan Analysis -2-Acetylfuran	IS:15668:2006/IEC:61198
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Furan Analysis -2-Furaldehyde	IS:15668:2006/IEC:61198
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Furan Analysis -2-Furfuryl Alcohol	IS:15668:2006/IEC:61198
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Furan Analysis -5-Hydroxymethyl-2-Furaldehyde	IS:15668:2006/IEC:61198
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Furan Analysis -5-Methyl-2-Furaldehyde	IS:15668:2006/IEC:61198
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Inter Facial Tension	IS 6104:1971 Reaffirmed year:2016/ASTM D:971
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Kinematic Viscosity at 40 deg.C	IS:1448 (Part-25):2018/ISO: 3104
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Neutralization Value	ASTM D 974
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Pour Point	IS: 1448:2021 (Part-10 Sec-2)/ISO:3016
24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Resistivity at 90 Deg.C	IEC: 60247
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Sediment and Sludge	Annex C IS: 1866:2017/ IEC:60422
26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Water Contents	IS: 13567:2018/IEC:60814:

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Mobile Facility				
1	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Appearance	IS 335
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Break Down Voltage	IS:6792
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Density at 29.5 Deg. C	IS 1448 Part-16:2014 Reaffirmed Year :2019/ISO:3675
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dielectric Dissipation Factor at 90 Deg.C	IEC: 60247
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Acetylene	IS: 9434: 2019/IEC:60567
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis -Carbon Dioxide	IS: 9434: 2019/IEC:60567
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis -Carbon Monoxide	IS: 9434: 2019/IEC:60567
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis -Ethane	IS: 9434: 2019/IEC:60567
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Ethylene	IS: 9434: 2019/IEC:60567
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Hydrogen	IS: 9434: 2019/IEC:60567
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Methane	IS: 9434: 2019/IEC:60567
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Flash Point	IS: 1448:2019 (Part-21)/ISO:2719
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Inter Facial Tension	IS 6104:1971 Reaffirmed year:2016/ASTM D:971

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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Neutralization Value	ASTM D 974
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Resistivity at 90 Deg.C	IEC: 60247
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Water Contents	IS: 13567:2018/IEC:60814: