National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TRANSFORMER OIL TESTING LABORATORY, SURVEY NO: 427P/3-4 & 431P/1-2, SARKHEJ-BAVLA HIGHWAY, POST MORAIYA, TALUK SANAND, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5011 **Page No** 1 of 3

Validity 13/01/2022 to 12/01/2024 **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	Mineral Oil	Appearance	IS 335
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Corrosive Sulphur	IS 335:1993 RA:2010, IEC 62535:2008, ASTM D1275:2015
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Density @29.5 Deg C	IS 1448 (part16):2014, ISO 3675:1998
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Detection of Phenol type Oxidation inhibitor	IS 13631:1993 RA:2010
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Dielectric Dissipation factor	IEC 60247: 2004, IS 6262:1971 RA:2011
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Dissolved Gas Analysis Carbon Monoxide	ASTM D 3612 Method C
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Dissolved Gas Analysis Ethane	ASTM D 3612 Method C
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral OIl	Dissolved Gas Analysis Ethylene	ASTM D 3612 Method C
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral OIl	Dissolved Gas Analysis Hydrogen	ASTM D3612 Method C
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Dissolved Gas Analysis Acetylene	ASTM D 3612 Method C
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Dissolved Gas Analysis Carbon Dioxide	ASTM D 3612 Method C
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Dissolved Gas Analysis Methane	ASTM D 3612 Method C
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Dissolved Gas Analysis Nitrogen	ASTM D 3612 Method C

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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Dissolved Gas Analysis Oxygen	ASTM D 3612 Method C
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Dissolved Gas Analysis Propane	ASTM D 3612 Method C
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Dissolved Gas Analysis Propylene	ASTM D 3612 Method C
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Electric Strength	IS 6792:1992, IEC 60156
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Flash Point	IS 1448 (Part 21):2012, ISO 2719
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Interfacial tension	IS6104:1971,ASTM D 971
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Kinematic Viscosity	IS 1448 (Part 25):1976, ISO 3104
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Moisture Content in Oil Impregnated Precompressed pressboard	IEC 60814:1997, IS 13567:1992 RA:2008
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Neutralization Value	IEC 62021-1:2003, IS 1448 (Part 2): 2007
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Oxidation Stability 1.Total Acidity	IEC 61125:1992, IS 335:1993 RA:2010
24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Oxidation Stability 2.Total Sludge	IEC 61125:1992, IS 335:1993 RA:2010
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Pour Point	ISO 3016:1994, IS 1448 (Part 10):2013
26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Sludge Content	IS1866
27	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Specific Resistance	IS 6103: 1971 RA:2011, IEC 60247

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28	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Oil	Water Content	IEC 60814:1997, IS 13567:1992 RA:2008