National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : EXCEL ELECTRICAL EQUIPMENT TESTING LABORATORY, KOONAMTHAI, AMBALAM ROAD, CHANGAMPUZHA NAGAR P.O, KOCHI, ERNAKULAM, KERALA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7256 **Page No** 1 of 2

Validity 23/09/2022 to 22/09/2024 **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	SK VALUE (K onzentriorter Schwefelsaure-sk-zahl)	IS 335 (Annex D)
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Density	IS 1448 (Part 16)
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dielectric Dissipation Factor (Tan Delta)	IS 16840
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: Acetylene	IS 9434
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: Carbon dioxide	IS 9434
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: Carbon Monoxide	IS 9434
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: Ethane	IS 9434
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: Ethylene	IS 9434
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: Hydrogen	IS 9434
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: Methane	IS 9434
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: Nitrogen	IS 9434
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: Oxygen	IS 9434
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Electric Strength (BDV)	IS 6792

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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Flash Point	IS 1448 (Part 21)
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Interfacial Tension (IFT)	IS 6104
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Kinematic Viscosity at 27°C	IS 1448 (Part 25/Sec 1)
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Neutralization Value	IS 16863 (Part:2)
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Sediments and Sludge	IS 1866 (Annex A)
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Specific Resistance (Resistivity)	IS 16840
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Water Content	IS 13567