National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TRANSFORMER OIL TESTING LABORATORY- ARCELORMITTAL NIPPON STEEL INDIA LIMITED, CA-CEID BUILDING, 27KM SURAT HAZIRA ROAD, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11160 **Page No** 1 of 2

Validity 17/11/2022 to 16/11/2024 **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	Specific Resistance(at 90°C)	IS 6103
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Appearance	IS 335
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Breakdown Voltage	IS 6792
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Density at 29.5@°C	IS 1448 [P-16]
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dielectric Dissipation Factor at 90°C	IS 6262
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis (Carbon Dioxide)	IS 9434
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis Acetylene(C2H2)	IS 9434
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis Ethane (C2H6)	IS 9434
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis Ethylene (C2H4)	IS 9434
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis Hydrogen (H2)	IS 9434
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis Methane (CH4)	IS 9434
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis Nitrogen (N2)	IS 9434
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis Oxygen (O2)	IS 9434

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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis Carbon Monoxide(CO)	IS 9434
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis Propane (C3H8)+Propylene (C3H6)	IS 9434
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Flash Point	IS 1448 [P-21]
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Interfacial Tension	IS 6104
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	NeutralizationValue	IS 1448 (Part 1 : Sec 1) "Withdrawn Standard"
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Sediment and Sludge	IS 1866 (Annex Ç)
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Water Content	IS 13567