National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : INSULATING OIL TESTING LABORATORY (IOTL), POWER GRID CORPORATION OF INDIA LIMITED, AT: 765/400 KV, ANGUL POOLING STATION, PO: PHULPADA, ANGUL, ODISHA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11423 **Page No** 1 of 2

Validity 09/03/2023 to 08/03/2025 **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	Insulating Oil	Dielectric Dissipation Factor (Tan Delta)	IEC 60247
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Dielectric Strength (BDV)	IEC 60156
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Dissolved Gas Analysis - Acetylene (C2H2)	IEC 60567
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Dissolved Gas Analysis - Carbon Dioxide (CO2)	IEC 60567
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Dissolved Gas Analysis - Carbon Monoxide (CO)	IEC 60567
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Dissolved Gas Analysis - Ethane (C2H6)	IEC 60567
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Dissolved Gas Analysis - Ethylene (C2H4)	IEC 60567
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Dissolved Gas Analysis - Hydrogen (H2)	IEC 60567
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Dissolved Gas Analysis - Methane (CH4)	IEC 60567
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Dissolved Gas Analysis - Nitrogen (N2)	IEC 60567
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Dissolved Gas Analysis - Oxygen (O2)	IEC 60567
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Flash Point	ASTM D93
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Inter Facial Tension	ASTM D971

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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Pour Point	ASTM D97
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Specific Resistance (Resistivity)	IEC 60247
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Total Acidity (Neutralization Value)	IEC 62021-1
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oil	Water Content	IS 13567