National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : DAMODAR VALLEY CORPORATION INSULATING OIL TESTING LABORATORY C.T.C. MAITHON, DVC MAITHON, CSO BUILDING COMPLEX, AREA NO 6, DHANBAD, JHARKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10808 **Page No** 1 of 2

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	Electrical Insulating Oil	Dissolved Gas Analysis Hydrogen	ASTM D 3612 C
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Density	IS 1448 (Part 16)
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Determination of Water Content	IS 13567
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Dielectric Dissipation Factor	IS 6262
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Dielectric Strength	IS 6792
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Dissolved Gas Analysis Acetylene	ASTM D 3612 C
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Dissolved Gas Analysis -Carbon dioxide	ASTM D 3612 C
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Dissolved Gas Analysis Carbon Mono Oxide	ASTM D 3612 C
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Dissolved Gas Analysis Ethane	ASTM D 3612 C
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Dissolved Gas Analysis Ethylene	ASTM D 3612 C
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Dissolved Gas Analysis Methane	ASTM D 3612 C
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Dissolved Gas Analysis Nitrogen	ASTM D 3612 C
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Dissolved Gas Analysis oxygen	ASTM D 3612 C

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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Interfacial tension of oil against water	ASTM D 971
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Neutralization number	ASTM D 664
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Specific resistance (resistivity)	IS 6103
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating Oil	Total Gas	ASTM D 3612 C