National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : INSULATING OIL TESTING LABORATORY, POWER GRID CORPORATION OF INDIA LIMITED (WR-II), 400/220KV SUBSTATION,BETUL ROAD,PATHROTA, ITARSI, HOSHANGABAD, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7630 **Page No** 1 of 3

Validity 31/07/2021 to 30/07/2023 **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	New insulating oil and Mineral insulating oil in equipment	ACIDITY MEASUREMENT	IEC-62021-1
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	CARBON TYPE COMPOSITION (CP-PARAFFINIC)	IS 13155
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	CARBON TYPE COMPOSITION(CA-AROMATIC)	IS 13155
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	CARBON TYPE COMPOSITION(CN-NAPHTHENIC)	IS 13155
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dielectric dissipation factor/Tan delta	IEC 60247
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dielectric dissipation factor/Tan delta	IEC 60247
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	DIELECTRIC STRENGTH/BREAK DOWN VOLTAGE TEST	IEC 60156
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	DIELECTRIC STRENGTH/BREAK DOWN VOLTAGE TEST	IEC 60156
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (C2H2)	ASTMD3612 METHOD C
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (C2H2)	IEC-60567
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (C2H4)	ASTMD3612 METHOD C
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (C2H4)	IEC-60567
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (C2H6)	ASTMD3612 METHOD C

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Certificate Number TC-7630 **Page No** 2 of 3

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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (C2H6)	IEC-60567
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (CH4)	ASTMD3612 METHOD C
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (CH4)	IEC-60567
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (CO)	ASTMD3612 METHOD C
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (CO)	IEC-60567
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (CO2)	ASTMD3612 METHOD C
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (CO2)	IEC-60567
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (H2)	ASTMD3612 METHOD C
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (H2)	IEC-60567
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (N2)	ASTMD3612 METHOD C
24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (N2)	IEC-60567
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (O2)	ASTMD3612 METHOD C
26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	Dissolved gas analysis (O2)	IEC-60567
27	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	FLASH POINT	ASTM D-6450

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28	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	FURAN ANALYSIS (2-ACF)	IEC-61198
29	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	FURAN ANALYSIS (2-FAL)	IEC-61198
30	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	FURAN ANALYSIS (2-FOL)	IEC 61198
31	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	FURAN ANALYSIS (5-HMF)	IEC 61198
32	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	FURAN ANALYSIS (5-MEF)	IEC-61198
33	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	INHIBITOR CONTENT	ASTM D2668
34	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	INHIBITOR CONTENT	IS 13631
35	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	INTER FACIAL TENSION	IS 6104
36	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	INTERFACIAL TENSION	ASTM D-971
37	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	SPECIFIC RESISTANCE/ RESISTIVITY	IEC 60247
38	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	SPECIFIC RESISTANCE/ RESISTIVITY	IEC 60247
39	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	WATER CONTENT	IEC 60814
40	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New insulating oil and Mineral insulating oil in equipment	WATER CONTENT	IEC 60814