



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, FIRST FLOOR, CTD WORKSHOP, ABHIKSHAN CAMPUS, BN BLOCK, SECTOR V, SALT LAKE, KOLKATA, WEST BENGAL, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-11391

**Validity** 16/02/2025 to 15/02/2029

**Page No** 1 of 2

**Last Amended on** 21/03/2025

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 Testing				
1	CHEMICAL- LUBRICANTS	Transformer oil	Interfacial Tension	ASTM D971
2	CHEMICAL- LUBRICANTS	Transformer oil	Density	IS 1448[P:16] ISO 3675
3	CHEMICAL- LUBRICANTS	Transformer oil	Dielectric Dissipation Factor	IEC 60247
4	CHEMICAL- LUBRICANTS	Transformer oil	Dielectric Dissipation Factor	IEC 60247
5	CHEMICAL- LUBRICANTS	Transformer oil	Dissolved Gas Analysis Acetylene	IS 9434 IEC 60567
6	CHEMICAL- LUBRICANTS	Transformer oil	Dissolved Gas Analysis Carbon Dioxide	IS 9434 IEC 60567
7	CHEMICAL- LUBRICANTS	Transformer oil	Dissolved Gas Analysis Carbon monoxide	IS 9434 IEC 60567
8	CHEMICAL- LUBRICANTS	Transformer oil	Dissolved Gas Analysis Ethane	IS 9434 IEC 60567
9	CHEMICAL- LUBRICANTS	Transformer oil	Dissolved Gas Analysis Ethylene	IS 9434 IEC 60567
10	CHEMICAL- LUBRICANTS	Transformer oil	Dissolved Gas Analysis Hydrogen	IS 9434 IEC 60567
11	CHEMICAL- LUBRICANTS	Transformer oil	Dissolved Gas Analysis Methane	IS 9434 IEC 60567
12	CHEMICAL- LUBRICANTS	Transformer oil	Dissolved Gas Analysis Nitrogen	IS 9434 IEC 60567
13	CHEMICAL- LUBRICANTS	Transformer oil	Dissolved Gas Analysis Oxygen	IS 9434 IEC 60567
14	CHEMICAL- LUBRICANTS	Transformer oil	Electric Strength	IS6792 IEC60156
15	CHEMICAL- LUBRICANTS	Transformer oil	Electric Strength	IS6792 IEC60156
16	CHEMICAL- LUBRICANTS	Transformer oil	Flash Point	IS1448(Part 21) ISO 2719
17	CHEMICAL- LUBRICANTS	Transformer oil	Furan Analysis 2- Furfural (2-FAL)	IS 15668 IEC : 61198
18	CHEMICAL- LUBRICANTS	Transformer oil	Furan Analysis 2-Acetylfuran (2ACF)	IS 15668 IEC : 61198
19	CHEMICAL- LUBRICANTS	Transformer oil	Furan Analysis 2-Furfuryl Alcohol (2 FOL)	IS 15668 IEC : 61198
20	CHEMICAL- LUBRICANTS	Transformer oil	Furan Analysis 5-Methyl-2-Furfural (5MEF)	IS 15668 IEC : 61198
21	CHEMICAL- LUBRICANTS	Transformer oil	Furan Analysis 5-Hydroxymethyl-2-Furfural (5HMF)	IS 15668 IEC : 61198
22	CHEMICAL- LUBRICANTS	Transformer oil	Interfacial Tension	ASTM D971
23	CHEMICAL- LUBRICANTS	Transformer oil	Neutralization Value	IEC 62021-1



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24	CHEMICAL- LUBRICANTS	Transformer oil	Oxidation Stability Neutralization Value	IS 12422 IEC 61125
25	CHEMICAL- LUBRICANTS	Transformer oil	Oxidation Stability Sludge	IS 12422 IEC 61125
26	CHEMICAL- LUBRICANTS	Transformer oil	Oxidation Stability Tan delta	IS 12422 IEC 61125
27	CHEMICAL- LUBRICANTS	Transformer oil	Resistivity	IEC 60247
28	CHEMICAL- LUBRICANTS	Transformer oil	Sediments & Sludge	IS 1866 Annex C IEC 60422 Annex C
29	CHEMICAL- LUBRICANTS	Transformer oil	Water Content	IS 13567 IEC 60814