National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SHANTHALA POWER LIMITED, ELECTRICAL TESTING LABORATORY, SHANTHALA NO. 24, PRIYADARSHINI COLONY, GOKUL ROAD, HUBBALLI, HUBLI, DHARWAD, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7910 **Page No** 1 of 2

Validity 21/12/2021 to 20/12/2023 **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	Transformer Oil	Acidity (Neutralization Number)	IS 1448 (Part 2)
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Analysis Furanic Compounds (2-Acetyl Furan)	IS 15668
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Analysis Furanic Compounds (2-Furaldehyde)	IS 15668
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Analysis Furanic Compounds (5-Methyl-2-Furaldehyde)	IS 15668
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Analysis Furanic Compounds (Furfuryl Alcohol)	IS 15668
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Analysis Furanic Compounds-5 Hydroxymethyl-2-Furaldehyde	IS 15668
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Break Down Voltage (Di-Electric Strength)	IS 6792
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Colour & Appearance	IS 335
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Density 27 Degree Celsius	IS 1448 (Part 16)
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis (DGA)-Acetylene	IS 9434, IS 10593
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis (DGA)-Carbon Dioxide	IS 9434, IS 10593
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis (DGA)-Carbon Monoxide	IS 9434, IS 10593
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis (DGA)-Ethane	IS 9434, IS 10593

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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis (DGA)-Ethylene	IS 9434, IS 10593
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis (DGA)-Hydrogen	IS 9434, IS 10593
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis (DGA)-Methane	IS 9434, IS 10593
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Flash Point (PMCC) Test	IS 1448 (Part 21)
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Interfacial Tension (IFT)	IS 6104
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Kinematic Viscosity at 27 degree Celsius	IS 1448 (Part 25)
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Resistivity (Specific Resistance) Test at 90 degree Celsius	IS 6103
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Sludge & Sediment Test	IS 1866 (Annexure C)
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Tan Delta Test at 90 degree Celsius (Di-Electric Dissipation Factor)	IS 6262
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Water Content (Moisture Content)	IS 13567