National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NDL POWER LIMITED TRANSFORMER MONITORING LABORATORY, KHEWAT NO.240/189, ISMAILA- 11B, SAMPLA BERI ROAD, ROHTAK, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8527 **Page No** 1 of 4

Validity 14/10/2022 to 13/10/2024 **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	CHEMICAL- PETROLEUM AND PRODUCTS	Lubricating Oils (New & Used)	Kinematic Viscosity	IS 1448 (Part 25)
2	CHEMICAL- PETROLEUM AND PRODUCTS	Lubricating Oils (New & Used)	Pour Point (upto freezing of oil)	IS 1448 (Part 10)
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Ageing Characteristics (Resistivity)	IS 12177 (Method-A)
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Ageing Characteristics (Tandelta)	IS 12177 (Method-A)
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Ageing Characteristics (Total Acidity)	IS 12177 (Method-A)
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Ageing Characteristics (Total Sludge)	IS 12177 (Method-A)
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Appearance	IS 335
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Corrosive Sulphur	DIN51353
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Density	ISO 3675
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	DGA (Acetylene)	ASTM D3612
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	DGA (Acetylene)	IS 10593
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	DGA (Carbon Dioxide)	IS 10593
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	DGA (Carbon Monoxide)	IS 10593
14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	DGA (Ethane)	IS 10593

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15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	DGA (Ethylene)	IS 10593
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	DGA (Hydrogen)	IS 10593
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	DGA (Methane)	IS 10593
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	DGA (Nitrogen)	IS 10593
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	DGA (Oxygen)	IS 10593
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	DGA (Oxygen)	IS 10593
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	DGA (Propane Propylene)	IS 10593
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	DGA (Propane Propylene)	IS 10593
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	DP value	IEC 60450
24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Electric Strength	IS 6792
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Flash Point	ISO 2719
26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Furan Analysis	IEC 61198
27	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Furan Analysis	IS 15668
28	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Interfacial Tension	ASTM-D-971

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29	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Kinematic Viscosity	IS 1448 (Part 25)
30	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Neutralization Value	IEC 62021-1
31	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Oxidation Stability (Acidity)	IS 335 (Annex-C)
32	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Oxidation Stability (Sludge)	IS 335 (Annex-C)
33	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	PCB	IEC 61619
34	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Pour Point	IS 1448 (Part 10)
35	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Presence of Oxidation Inhibitor	IS 13631
36	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Resistivity	IEC 60247
37	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Sediments & Sludge	IS 1866 (Annex-A)
38	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Tandelta	IEC 60247
39	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Water Content	IS 13567

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Site Facility				
1	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Sampling	ASTM D923
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Sampling	IS 6855