National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : INDO TECH TRANSFORMERS LIMITED, S.NO.153-210,ILLUPPATTU VILLGE, RAJAKULAM POST, KANCHIPURAM, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5622 **Page No** 1 of 3

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 16/07/2022

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- INDUCTORS & TRANSFORMERS	Power and Auto Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Determination of transient voltage transfer charaacteristics	IS 2026 (Part 1):2011 , IEC 60076 (Part 1):
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Induced Over Voltage withstand Test (IVW)	IS 2026 (Part 3):2018 , IEC 60076 (Part 3):2018, IEEE/ANSI C57-12-90:2015, IS 1180 (Part 1)
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Induced Voltage Test with Partial Discharge Measurement (IVPD)	IS 2026 (Part 3):2018 , IEC 60076 (Part 3):2018, IEEE/ANSI C57-12-90:
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Measurement of frequency response Analysis (FRA)	IS 2026 (Part 18):2018 , IEC 60076 (Part 18):
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Measurement of Harmonics of No load Current	IS 2026 (Part 1):2011, CBIP Manual Pub.No.317
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Measurement of Zero Sequence Impedance(s) on three phase transformer	IS 2026 (Part 1):2011 , IEC 60076 (Part 1):2011, IEEE/ANSI C57-12-90:
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Temperature Rise Test	IS 2026 (Part 2):2010 , IEC 60076 (Part 2):2011, IEEE/ANSI C57-12-90:2015, IS 1180 (Part 1)
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Check of Phase displacement (Vector group)	IS 2026 (Part 1):2011 , IEC 60076 (Part 1):2011, IEEE/ANSI C57-12-90:2015, IS 1180 (Part 1)
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Lightning Impulse test (LI, LIC, LIN)	IS 2026 (Part 3):2018 , IEC 60076 (Part 3):2018, IEEE/ANSI C57-12-90:2015, IS 1180 (Part 1)
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Line Terminal AC Withstand Test (LTAC)	IS 2026 (Part 3):2018 , IEC 60076 (Part 3):2018, IEEE/ANSI C57-12-90:
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Magnetic Balance test on three phase transformer	CBIP Manual Pub.No.317
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Magnetic circuit (Isolation) Test	IEC-60076-1:2011, CBIP Manual Pub.No.317
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Measurement of Capacitance & Dissipation Factor (Tan Delta)	IS 2026 (Part 1):2011 , IEC 60076 (Part 1):2011, IEEE/ANSI C57-12-90:

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14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Measurement of Capacitance & Dissipation Factor (Tan Delta)	IS 2026 (Part 1):2011 , IEC 60076 (Part 1):2011, IEEE/ANSI C57-12-90:
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Measurement of D.C Insulation Resistance & Polarization Index	IS 2026 (Part 1):2011 , IEC 60076 (Part 1):2011, IEEE/ANSI C57-12-90:2015, IS 1180 (Part 1)
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Measurement of exciting Current at low voltage	CBIP Manual Pub.No.317
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Measurement of No Load Loss and Current	IS 2026 (Part 1):2011 , IEC 60076 (Part 1):2011, IEEE/ANSI C57-12-90:2015, IS 1180 (Part 1)
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Measurement of No Load Loss and Current	IS 2026 (Part 1):2011 , IEC 60076 (Part 1):2011, IEEE/ANSI C57-12-90:2015, IS 1180 (Part 1)
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Measurement of Noise Level Test	IS 2026 (Part 10):2009 , IEC 60076 (Part 10):2016, IEEE/ANSI C57-12-90:2015, IS 1180 (Part 1)
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Measurement of Short circuit impedance and Load Loss	IS 2026 (Part 1):2011 , IEC 60076 (Part 1):2011, IEEE/ANSI C57-12-90:2015, IS 1180 (Part 1)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Measurement of short-circuit impedance and Load loss	IS 2026 (Part 1):2011 , IEC 60076 (Part 1):2011, IEEE/ANSI C57-12-90:2015, IS 1180 (Part 1)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Measurement of Voltage Ratio	IS 2026 (Part 1):2011 , IEC 60076 (Part 1):2011, IEEE/ANSI C57-12-90:2015, IS 1180 (Part 1)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Measurement of Winding Resistance	IS 2026 (Part 1):2011 , IEC 60076 (Part 1):2011, IEEE/ANSI C57-12-90:2015, IS 1180 (Part 1)
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Separate Source Voltage withstand Test (Applied Voltage Test)	IS 2026 (Part 3):2018 , IEC 60076 (Part 3):2018, IEEE/ANSI C57-12-90:2015, IS 1180 (Part 1)
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto and Distribution Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Test on On Load Tap Changers	IS 2026 (Part 1):2011 , IEC 60076 (Part 1): 1)

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26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Check of the ratio and polarity of built in current transformer	IEC 60076 (Part 1):
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Measurement of the power taken by the fans and liquid Pump motors	IS 2026 (Part 1):2011 , IEC 60076 (Part 1):
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto Transformer - 0.1MVA to 200MVA, 1.1kV to 245kV Class	Switching Impulse Test (SI)	IS 2026 (Part 3):2018 , IEC 60076 (Part 3):2018, IEEE/ANSI C57-12-90
29	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New Insulating Oil	Dissolved gasses Analysis. Acetylene(C2H2)	IS 9434:2019, IEC 60567:
30	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New Insulating Oil	Dissolved gasses Analysis. Carbon dioxide(CO2)	IS 9434:2019, IEC 60567:
31	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New Insulating Oil	Dissolved gasses Analysis. Ethylene(C2H4)	IS 9434:2019, IEC 60567:
32	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New Insulating Oil	Dissolved gasses Analysis. Hydrogen(H2)	IS 9434:2019, IEC 60567:
33	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New Insulating Oil	Dissolved gasses Analysis. Ethane(C2H6)	IS 9434:2019, IEC 60567:
34	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New Insulating Oil	Dissolved gasses Analysis. Carbon monoxide(Co)	IS 9434:2019, IEC 60567:
35	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New Insulating Oil	Dissolved gasses Analysis. Methane (CH4)	IS 9434:2019, IEC 60567:
36	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New Insulating Oil	Dissolved gasses Analysis. Nitrogen(N2)	IS 9434:2019, IEC 60567:
37	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New Insulating Oil	Dissolved gasses Analysis. Oxygen(O2)	IS 9434:2019, IEC 60567:
38	ELECTRICAL- INSULATING MATERIALS & INSULATORS	New Insulating Oil	Measurement of Oil BDV Test	IS 6762:2017, IEC 60156: