National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : DRY TYPE TRANSFORMERS TESTING LABORATORY, HITACHI ENERGY INDIA LIMITED, 25 & 26 (ALINDRA) MANJUSAR G.I.D.C., SAVLI WORKS, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10731 **Page No** 1 of 3

Validity 22/06/2022 to 21/06/2024 **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	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Induced Over Voltage Withstand Test	IS 11171 (Clause 15)
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Insulation Resistance Test	IS 2026 (Clause 10.1.3 (j))
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Partial Discharge Measurement	IS 2026-11 (Clause 14.2.7)
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Separate Source AC High Voltage Withstand Test	IS 2026-11 (Clause 14.2.5)
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Temperature Rise Test	IS 2026-11 (Clause 14.3.2)
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Vector Group Test	IS 11171 (Clause 13.2(b))
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Voltage Ratio Test	IS 11171 (Clause 13.2(b))
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Winding Resistance Test	IS 2026-11 (Clause 14.2.1)
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Full Wave Lightning Impulse Test	IEC 60076-11 (Clause 14.3.1)
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Full Wave Lightning Impulse Test	IS 11171 (Clause 16)
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Full Wave Lightning Impulse Test	IS 2026-11 (Clause 14.3.1)
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Induced Over Voltage Withstand Test	IEC 60076-11 (Clause 14.2.6)
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Induced Over Voltage Withstand Test	IS 2026-11 (Clause 14.2.6)
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Insulation Resistance Test	IEC 60076-1 (Clause 11.1.2.2 (b))
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Magnetic Balance and Magnetizing Current Test	Test Procedure No. DTP001-12
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Measurement of Acoustic Noise Level	IEC 60076-11 (Clause 14.4.2)
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Measurement of Acoustic Noise Level	IS 2026-11 (Clause 14.4.2)
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Measurement of Load Loss Short Circuit Impedance	IEC 60076-11 (Clause 14.2.3)

SCOPE OF ACCREDITATION

Laboratory Name : DRY TYPE TRANSFORMERS TESTING LABORATORY, HITACHI ENERGY INDIA LIMITED, 25 & 26 (ALINDRA) MANJUSAR G.I.D.C., SAVLI WORKS, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10731 **Page No** 2 of 3

Validity 22/06/2022 to 21/06/2024 **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
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Measurement of Load Loss Short Circuit Impedance	IS 11171 (Clause 13.2)
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Measurement of Load Loss Short Circuit Impedance	IS 2026-11 (Clause 14.2.3)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Measurement of No Load Current Harmonics	IS 2026-1 (Clause 10.6)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Measurement of Zero Sequence Impedance	IEC 60076-1 (Clause 11.6)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Measurement of Zero Sequence Impedance	IS 2026-1 (Clause 16.10)
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	No Load Loss and Excitation (No Load) Current	IEC 60076-11 (Clause 14.2.4)
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	No Load Loss and Excitation (No Load) Current	IS 11171 (Clause 13.2(d))
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	No Load Loss and Excitation (No Load) Current	IS 2026-11 (Clause 14.2.4)
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Partial Discharge Measurement	IEC 60076-11 (Clause 14.2.7)
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Partial Discharge Measurement	IS 11171 (Clause 18)
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Separate Source AC High Voltage Withstand Test	IEC 60076-11 (Clause 14.2.5)
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Separate Source AC High Voltage Withstand Test	IS 11171 (Clause 14)
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Temperature Rise Test	IEC 60076-11 (Clause 14.3.2)
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Temperature Rise Test	IS 11171 (Clause 17)
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Test On OLTC	IEC 60076-11 (Clause 11.7)
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Test On OLTC	IS 2026-1 (Clause 16.9)
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Vector Group Test	IEC 60076-11 (Clause 14.2.2)
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Vector Group Test	IS 2026-11 (Clause 14.2.2)
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Voltage Ratio Test	IEC 60076-11 (Clause 14.2.2)

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : DRY TYPE TRANSFORMERS TESTING LABORATORY, HITACHI ENERGY INDIA LIMITED, 25 & 26 (ALINDRA) MANJUSAR G.I.D.C., SAVLI WORKS, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10731 **Page No** 3 of 3

Validity 22/06/2022 to 21/06/2024 **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
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Voltage Ratio Test	IS 2026-11 (Clause 14.2.2)
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Winding Resistance Test	IEC 60076-11 (Clause 14.2.1)
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformers	Winding Resistance Test	IS 11171 (Clause 13.2(a))