National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TRANSFORMER TESTING LABORATORY (T2-TRANSFORMER DIVISION), CG POWER AND INDUSTRIAL SOLUTIONS LTD. (PLOT NO. T1 TO T5, MPAKVN INDUSTRIAL AREA), MALANPUR, BHIND, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6582 **Page No** 1 of 2

Validity 05/04/2022 to 04/04/2024 **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	Power transformers, Distribution Transformer, Dry Type Power Transformer	Determination of Sound Levels	IS 11171, IEC 60076-11, NEMA-TR1, IS 1180 (Part 1), CBIP Manual Pub. No. -317, IS 2026 (Part 10), IEC 60076 (Part 10)
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Determination of Transient Voltage Transfer Characterstics	IS11171, IEC 60076-11, CBIP Manual Pub. No. -317, IS 2026 (Part 3), IEC 60076 (Part 3)
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Impulse Test for the line terminals	IS 11171, IEC 60076-11, IS 1180 (Part 1), CBIP Manual Pub. No. -317, IS 2026 (Part 3), IEC 60076 (Part 3)
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Induced AC withstand Voltage test with partial Discharge	IS 11171, IS 1180 (Part 1), CBIP Manual Pub. No. -317, IS 2026 (Part 3), IEC 60076 (Part 3)
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Magnetic Balance Test on 3 Phase Transformer	CBIP Manual Pub. No. -317
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Magnetic Circuit (Isolation) Test	CBIP Manual Pub. No. -317, IS 2026 (Part 1), IEC 60076 (Part 1)
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Measrement of Zero Phase-Sequence Impedance on 3 Phase Transformers	CBIP Manual Pub. No. -317, IS 2026 (Part 1), IEC 60076 (Part 1)
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Measurement of Capacitance & Dissipation Factor (Tan-Delta)	CBIP Manual Pub. No. -317, IS 2026 (Part 1), IEC 60076 (Part 1)
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Measurement of Capacitance & Dissipation Factor (Tan-Delta)	CBIP Manual Pub. No. -317, IS 2026 (Part 1), IEC 60076 (Part 1)
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Measurement of Harmonics of No-Load Current	CBIP Manual Pub. No. -317 , IS 2026 (Part 1), IEC 60076 (Part 1)
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Measurement of Insulation Resistance of Windings	IS 11171, IEC 60076-11, IS 1180 (Part 1), CBIP Manual Pub. No. -317, IS 2026 (Part 1), IEC 60076 (Part 1)
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Measurement of Magnetising Current at Low Voltage	CBIP Manual Pub. No. -317
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Measurement of No Load Loss & Current	IS 11171, IEC 60076-11, IS 1180 (Part 1), CBIP Manual Pub. No. -317, IS 2026 (Part 1), IEC 60076 (Part 1)

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14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Measurement of No Load Loss & Current	IS 11171, IEC 60076-11, IS 1180 (Part 1), CBIP Manual Pub. No. -317, IS 2026 (Part 1), IEC 60076 (Part 1)
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Measurement of Short-Circuit Impedance and Load Loss	IS 11171, IEC 60076-11, IS 1180 (Part 1), CBIP Manual Pub. No. -317, IS 2026 (Part 1), IEC 60076 (Part 1)
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Measurement of Short-Circuit Impedance and Load Loss	IS 11171, IEC 60076-11, IS 1180 (Part 1), CBIP Manual Pub. No. -317, IS 2026 (Part 1), IEC 60076 (Part 1)
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Measurement of Voltage Ratio & Check of Phase Displacement	IS 11171, IEC 60076-11, IS 1180 (Part 1), CBIP Manual Pub. No. -317, IS 2026 (Part 1), IEC 60076 (Part 1)
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Measurement of Winding Resistance	IS 11171, IEC 60076-11, IS 1180 (Part 1), CBIP Manual Pub. No. -317, IS 2026 (Part 1), IEC 60076 (Part 1)
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Separate Source AC withstand Voltage Test (Applied Potential Test)	IS 11171, IEC 60076-11, IS 1180 (Part 1), CBIP Manual Pub. No. -317, IS 2026 (Part 3), IEC 60076 (Part 3)
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Sweep Frequency Response Analysis (SFRA) Test	CBIP Manual Pub. No. -317, IEC 60076 (Part 18)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Tesmperature Rise Test	IS 11171, IEC 60076-11, CBIP Manual Pub. No. -317, IS 1180 (Part 01), IS 2026 (Part 2), IEC 60076 (Part 2)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Tests on ON-Load Tap-Changers	CBIP Manual Pub. No. -317, IS 2026 (Part 1), IEC 60076 (Part 1)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution Transformer, Dry Type Power Transformer	Verification of Vector Group & Polarity Checks	IS 11171, IEC 60076-11, IS 1180 (Part 1), CBIP Manual Pub. No. -317 , IS 2026 (Part 1), IEC 60076 (Part 1)