National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VENKATESWARA ELECTRICAL INDUSTRIES PRIVATE LTD, NO. 75 KUNDRATHUR ROAD PORUR, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10463 **Page No** 1 of 6

Validity 29/03/2022 to 28/03/2024 **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	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Winding Resistance (Primary & Secondary)	IS 1180 (Part 1), Clause 21.2 (a)
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Check of core and frame insulation	IEC 60076 (Part 1), Clause 11,12
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Check of core and frame insulation	IS 1180 (Part 1)
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Determination of the Sound Level	IEC 60076 (Part 10):2
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Induced over Voltage Withstand	IEC 60076 (Part 3), Clause 11
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Induced over Voltage Withstand	IS 1180 (Part 1), Clause 21.2 (f)
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Insulation Resistance and Polarization Index (250 V – 5000 V)	IS 1180 (Part 1)
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Lightning Impulse (Positive and Negative Polarity)	IS 1180 (Part 1)
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Lightning Impulse (Positive and Negative Polarity)	IEC 60076-3, (Cl.no. 13.2), IEC 60076-4 ,(Cl.no. 7);
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Lightning impulse chopped on the tail (Positive and Negative Polarity)	IS 2026 (Part 3)
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Magnetic Balance	IS 1180 (Part 1)
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Magnetizing Current at Low Voltage	IS 1180 (Part 1)
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of Dissipation Factor of the Insulation System Capacitance.	IS 1180 (Part 1)
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of Dissipation Factor of the Insulation System Capacitance. Tan Delta	IS 1180 (Part 1)
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of Dissipation Factor of the Insulation System Capacitance	IEC 60076 (Part 1),Clause 11.1.3
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of Dissipation Factor of the Insulation System Capacitance.TanDelt	IEC 60076(Part-1), Clause 11.1.3

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17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of Insulation Resistance and Polarization Index 250 to 5000 V	IEC 60076 (Part 1), Clause 11.1.2
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of No-load loss and current 10 V – 33kV 100mA- 200A	IEC 60076 (Part 1),Clause 11.5
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of No-load loss and current 10 V – 33kV 100mA- 200A	IS 1180 (Part 1) Clause 21.2 d)
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of Short Circuit Impedance and Load loss	IEC 60076 (Part 1),Clause 11.4
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of Short Circuit Impedance and Load loss	IEC 60076 (Part 1),Clause 11.4
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of Short Circuit Impedance and Load loss	IS 1180 (Part 1) Clause 21.2 c), 6.8, 7.8, 8.8
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of Short Circuit Impedance and Load loss	IS 1180 (Part 1) Clause 21.2 c), 6.8, 7.8, 8.8
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of the Harmonics of the No load Current 10 V – 33kV 100mA- 200A	IEC 60076 (Part 1),Clause 11.6
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of the Harmonics of the No load Current 10 V – 33kV 100mA- 200A	IS 1180 (Part 1)
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of Voltage Ratio & Check of Phase Displacement	IEC 60076 (Part 1), Clause 11.3
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of Zero Sequence Impedance 1A to 150A 0.5V to 11kV	IEC 60076 (Part 1),Clause 11.8
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Measurement of Zero Sequence Impedance 1A to 150A 0.5V to 11kV	IS 1180 (Part 1)
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Oil BDV Test	IS 335
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Oil Leakage	IS 1180 (Part 1), Clause 21.5
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Pressure Test	IS 1180 (Part 1) Clause 21.5
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Separate Source Voltage withstand Test	IEC 60076 (Part 3), Clause 10

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33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Separate Source Voltage withstand Test	IS 1180 (Part 1) Clause 21.2 g)
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Sound Level	IS 1180 (Part 1), Clause 21.4 (a)
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Temperature Rise Test	IEC 60076 (Part 2),Clause 7
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Temperature Rise Test	IS 1180 (Part 1)
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Test with lightning impulse chopped on the tail (Positive and Negative Polarity)	IEC 60076-3, (Cl.no.13.3), IEC 60076 - 4 , (Cl.no. 7);
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Test with lightning impulse chopped on the tail(Positive and Negative Polarity)	IEC 60076-3, (Cl.no. 13.3), IEC 60076 - 4 ,(Cl.no. 7);
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Test with lightning impulse chopped on the tail (Positive and Negative Polarity)	IS 2026(Part 3)
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Vacuum Test	IS 1180 (Part 1)
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Voltage Ratio & Check of Phase Displacement	IS 1180 (Part 1), Clause 21.2 (b)
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers- upto 500kVA Upto 22kV,3 Phase	Winding Resistance Measurement (Primary & Secondary)	IEC 60076 (Part 1) Clause 11.2
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Winding Resistance Measurement (Primary & Secondary)	IS 2026 Part (1)
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22kV-11kV,3 Phase	Separate Source Voltage withstand Test	IS 2026 Part (3)
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22kV-11kV,3 Phase	Induced over Voltage Withstand test	IS 2026 Part (1)
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22kV-11kV,3 Phase	Measurement of Insulation Resistance and Polarization Index 250 V – 5000 V	IS 2026 Part (1)
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22kV-11kV,3 Phase	Measurement of No-load loss and current 10 V – 33kV 100mA- 200A 50W-50kW	IS 2026 Part (1)
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22kV-11kV,3 Phase	Measurement of Short Circuit Impedance and Load loss	IS 2026 Part (1)

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49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22kV-11kV,3 Phase	Measurement of Short Circuit Impedance and Load loss	IS 2026 Part (1)
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22kV-11kV,3 Phase	Measurement of Voltage Ratio & Check of Phase Displacement	IS 2026 Part (1)
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22kV-11kV,3 Phase	Test with lightning impulse chopped on the tail (Positive and Negative Polarity)	IS 2026(Part 3)
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22kV-11kV,3 Phase	Tests on On-load tap changers	IS 2026 (Part 1)
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Winding Resistance Measurement (Primary & Secondary)	IEC 60076 (Part 1), Clause 11.2
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Check of core and frame insulation	IS 2026 Part (1)
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Determination of the Sound Level	IS 2026 Part (10)
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Lightning Impulse Test (Positive and Negative Polarity)	IS 2026(Part 3)
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Magnetic Balance	IS 2026 Part (1)
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Magnetizing Current at Low Voltage	IS 2026 Part (1)
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Measurement of Dissipation Factor of the Insulation System Capacitance	IS 2026 Part (1)
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Measurement of Dissipation Factor of the Insulation System Capacitance. Tan Delta	IS 2026 Part (1)
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Measurement of the Harmonics of the No load Current 10 V – 33kV 100mA- 200A	IS 2026 Part (1) Clause 10.6
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Measurement of Zero Sequence Impedance 1A to 150A 0.5V to 11kV	IS 2026 Part (1) Clause 10.7
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Oil BDV Test	IS 335
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Oil Leakage Test	IS 2026 Part (1)

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65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Pressure Test	IS 2026 Part (1)
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Temperature Rise Test	IS 2026 Part (2)
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22-11kV,3 Phase	Vacuum Test	IS 2026 Part (1)
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22kV-11kV,3 Phase	Induced over Voltage Withstand test	IEC 60076 (Part 3) Clause 11
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22kV-11kV,3 Phase	Sweep Frequency Response Analysis	IS 2026 Part 1
70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVA Upto 110/33-22kV-11kV,3 Phase	Test with lightning impulse chopped on the tail (Positive and Negative Polarity)	IS 2026(Part 3):
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVAUpto 110/33-22-11kV,3 Phase	Check of core and frame insulation	IEC 60076 (Part 1), Clause 11,12
72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVAUpto 110/33-22-11kV,3 Phase	Determination of the Sound Level	IEC 60076 (Part 10)
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVAUpto 110/33-22-11kV,3 Phase	Lightning Impulse Test (Positive and Negative Polarity)	IEC 60076 -3 ,Cl.no. 13.2); IEC 60076-4 ,Cl.no. 7
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVAUpto 110/33-22-11kV,3 Phase	Measurement of Dissipation Factor of the Insulation System Capacitance.TanDelt	IEC 60076 (Part 1), Clause 11.1.3
75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVAUpto 110/33-22-11kV,3 Phase	Measurement of Dissipation Factor of the Insulation System Capacitance	IEC 60076 (Part 1), Clause 11.1.3
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVAUpto 110/33-22-11kV,3 Phase	Measurement of the Harmonics of the No load Current 10 V – 33kV 100mA- 200A	IEC 60076 (Part 1), Clause 11.6
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVAUpto 110/33-22-11kV,3 Phase	Measurement of Zero Sequence Impedance 1A to 150A0.5Vto 11kV	IEC 60076 (Part 1), Clause 11.8
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVAUpto 110/33-22-11kV,3 Phase	Temperature Rise Test	IEC 60076 (Part 2), Clause 7
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers- upto 25MVAUpto 110/33-22kV-11kV,3 Phase	Test with lightning impulse chopped on the tail (Positive and Negative Polarity)	IEC 60076-3, (Cl.no. 13.3), IEC 60076-4, (Cl.no. 7)
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers-upto 25MVAUpto 110/33-22kV-11kV,3 Phase	Measurement of Insulation Resistance and Polarization Index 250 V – 5000 V	IEC 60076 (Part 1), Clause 11.1.2

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81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers-upto 25MVAUpto 110/33-22kV-11kV,3 Phase	Measurement of No-load loss and current 10 V – 33kV 100mA- 200A	IEC 60076 (Part 1), Clause 11.5
82	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers-upto 25MVAUpto 110/33-22kV-11kV,3 Phase	Measurement of Short Circuit Impedance and Load loss	IEC 60076 (Part 1), Clause 11.4
83	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers-upto 25MVAUpto 110/33-22kV-11kV,3 Phase	Measurement of Short Circuit Impedance and Load loss	IEC 60076 (Part 1), Clause 11.4
84	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers-upto 25MVAUpto 110/33-22kV-11kV,3 Phase	Measurement of Voltage Ratio &Check of Phase Displacement	IEC 60076 (Part 1),Clause 11.3
85	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers-upto 25MVAUpto 110/33-22kV-11kV,3 Phase	Separate Source Voltage withstand Test	IEC 60076 (Part 3), Clause 10
86	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers-upto 25MVAUpto 110/33-22kV-11kV,3 Phase	Test with lightning impulse chopped on the tail(Positive and Negative Polarity	IEC 60076-3, (Cl.no. 13.3), IEC 60076-4, (Cl.no. 7)
87	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers-upto 25MVAUpto 110/33-22kV-11kV,3 Phase	Tests on On-load tap changers	IEC 60076 (Part 1), Clause 11.1.2