National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VIJAI ELECTRICALS LTD., TRANSFORMER TESTING LABORATORY, PLOT NO. 1A, SEC-12, IIE SIDCUL, BHEL, HARIDWAR, UTTARAKHAND, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7764	**Page No**	1 of 12
Validity	03/12/2022 to 02/12/2024	**Last Amended on**	31/12/2022

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	Distribution transformer (Sealed and Non Sealed Type), 5kVA to 2500 kVA	Measurement of Unbalance current	VEL/TTPM/01/13.6 ,CBIP Manual Publication-317
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer (Sealed and Non Sealed Type), 5kVA to 250 kVA, Upto 11kV Class	Short Circuit Withstand Test	AS/NZS 60076 Part 5
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed Type), 5kVA to 2500 kVA	Induced over voltage withstand test	IS 1180 (Part 1)
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Induced Over Voltage Withstand test	IS 2026 (Part 3)
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Magnetic Balance test on three phase transformer	CBIP Manual Publication 317
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed Type), 5kVA to 2500 kVA	Measurement of Capacitance	IS 2026 (Part 1)
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed Type), 5kVA to 2500 kVA	Measurement of Harmonics of no Load Current	IS 2026 (Part 1)
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed Type), 5kVA to 2500 kVA	Measurement of Insulation Resistance	IS 1180 (Part 1)
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and non Sealed Type), 5kVA to 2500 kVA	Measurement of Load Loss	IS 1180 (Part 1)
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Measurement of Load Loss	IS 2026 (Part 1)
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Measurement of No Load Current	IS 1180 (Part 1)
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Measurement of No Load current	IS 2026 (Part 1)
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed Type), 5kVA to 2500 kVA	Measurement of No Load Loss	IS 1180 (Part 1)
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Measurement of No Load Loss	IS 2026 (Part 1)
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Measurement of short circuit impedance	IS 1180 (Part 1)
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Measurement of Short circuit impedance	IS 2026 (Part 1)
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed Type), 5kVA to 2500 kVA	Measurement of Voltage Ratio and check of voltage vector relationship	IS 1180 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name :	VIJAI ELECTRICALS LTD., TRANSFORMER TESTING LABORATORY, PLOT NO. 1A, SEC-12, IIE SIDCUL, BHEL, HARIDWAR, UTTARAKHAND, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7764	**Page No**	2 of 12
Validity	03/12/2022 to 02/12/2024	**Last Amended on**	31/12/2022

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
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed Type), 5kVA to 2500 kVA	Measurement of Voltage ratio and check of voltage vector relationship	IS 2026 (Part 1)
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Measurement of winding resistance	IS 1180 (Part 1)
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Measurement of winding resistance	IS 2026 (Part-1)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed Type), 5kVA to 2500 kVA	Measurement of Zero sequence Impedance	IS 2026 (Part 1)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed Type), 5kVA to 2500 kVA	Noise Level Measurement	IS 2026 (Part 10)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Oil Leakage test	CBIP Manual Publication 317
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Oil Leakage Test	IS 1180 (Part 1)
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed Type), 5kVA to 2500 kVA	Pressure test (Routine)	CBIP Manual Publication 317
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer (Sealed and Non Sealed Type), 5kVA to 2500 kVA	Pressure Test (Routine)	IS 1180 (Part 1)
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Pressure test (Type)	CBIP Manual Publication 317
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer (Sealed and Non Sealed Type), 5kVA to 2500 kVA	Pressure test (Type)	IS 1180 (Part 1)
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Separate source Voltage withstand test	IS 1180 (Part 1)
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Separate source voltage withstand test	IS 2026 (Part 3)
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and non Sealed type), 5kVA to 2500 kVA	Temperature Rise Test	IS 1180 (Part 1)
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed type), 5kVA to 2500 kVA	Temperature Rise Test	IS 2026 (Part 2)
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Sealed and Non Sealed Type), 5kVA to 2500 kVA, Upto 33kV	Measurement of Tan Delta	IS 2026 (Part 1)
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer (Sealed and Non Sealed Type), 5kVA to 250kVA, Upto 11kV Class	Short Circuit Withstand Test	ANSI/IEEE C-57.12.90
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer (Sealed and Non Sealed Type), 5kVA to 250kVA, Upto 11kV Class	Short Circuit Withstand Test	BS EN 60076 Part 5

SCOPE OF ACCREDITATION

Laboratory Name :	VIJAI ELECTRICALS LTD., TRANSFORMER TESTING LABORATORY, PLOT NO. 1A, SEC-12, IIE SIDCUL, BHEL, HARIDWAR, UTTARAKHAND, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7764	**Page No**	3 of 12
Validity	03/12/2022 to 02/12/2024	**Last Amended on**	31/12/2022

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
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer (Sealed and Non Sealed Type), 5kVA to 250kVA, Upto 11kV Class	Short Circuit Withstand Test	IEC 60076 Part 5
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer (Sealed and Non Sealed Type), 5kVA to 250kVA, Upto 11kV Class	Short Circuit withstand Test	IS 1180 Part 1
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer (Sealed and Non Sealed Type), 5kVA to 250kVA, Upto 11kV Class	Short Circuit Withstand Test	IS-2026 Part 5
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer(Sealed & Non sealed type), 5kVA to 2500 kVA	BDV Test	IS 1180 Part 1
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer(Sealed & Non sealed type), 5kVA to 2500 kVA	Paint adhesion tests	1180 Part 1
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA, Upto 33kV	Induced over voltage withstand test	IEC 60076 (Part 3)+A1
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Induced Over Voltage Withstand test	ANSI/IEEE C-57.12.90
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Induced Over Voltage withstand test	AS/NZS 60076 (Part-3)
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Induced over voltage withstand test	BS EN 60076 (Part-3)+A1
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Leak Testing with Pressure	AS/NZS 60076 (Part 1)
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Leak Testing with Pressure	BS EN 60076 (Part 1)
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Leak Testing with Pressure	IEC 60076 (Part 1)
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Lightning Impulse Voltage withstand Test	ANSI/IEEE C57.12.90
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Lightning Impulse Voltage withstand test	AS/NZS 60076 (Part 3)
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Lightning Impulse voltage withstand test	BS EN 60076 (Part 3)+A1
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Lightning Impulse Voltage withstand test	IEC 60076 Part 3 +A1
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Lightning Impulse Voltage Withstand Test	IS 2026 Part 3
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Lightning Impulse Voltage Withstand test	IS 1180 (Part-1)
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Capacitance	ANSI/IEEE C 57.12.90

SCOPE OF ACCREDITATION

Laboratory Name : VIJAI ELECTRICALS LTD., TRANSFORMER TESTING LABORATORY, PLOT NO. 1A, SEC-12, IIE SIDCUL, BHEL, HARIDWAR, UTTARAKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7764 **Page No** 4 of 12

Validity 03/12/2022 to 02/12/2024 **Last Amended on** 31/12/2022

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
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Capacitance	AS/NZS 60076 (Part 1)
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Capacitance	BS EN 60076 (Part 1)
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Capacitance	IEC 60076 (Part-1)
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Harmonics of No Load Current	ANSI/IEEE C 57.12.90
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of harmonics of No Load Current	AS/NZS 60076 (Part-1)
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of harmonics of No Load Current	BS EN 60076 (Part-1)
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Harmonics of No Load Current	IEC 60076 (Part-1)
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Insulation Resistance	ANSI/IEEE C.57.12.90
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Insulation Resistance	AS/NZS 60076 (Part 1)
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Insulation Resistance	BS EN 60076 (Part 1)
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Insulation resistance	IEC 60076 (Part 1)
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Load Loss	ANSI/IEEE C-57.12.90
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Load Loss	AS/NZS 60076 (Part 1)
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Load Loss	BS EN 60076 (Part 1)
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Load Loss	IEC 60076 (Part-1)
70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of No Load Current	ANSI/IEEE C-57.12.90
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of No Load Current	AS/NZS 60076 (Part 1)
72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of No Load Current	BS EN 60076 (Part 1)
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of No Load Current	IEC 60076 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name :	VIJAI ELECTRICALS LTD., TRANSFORMER TESTING LABORATORY, PLOT NO. 1A, SEC-12, IIE SIDCUL, BHEL, HARIDWAR, UTTARAKHAND, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7764	**Page No**	5 of 12
Validity	03/12/2022 to 02/12/2024	**Last Amended on**	31/12/2022

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
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of No Load Loss	ANSI/IEEE C-57.12.90
75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of No Load Loss	AS/NZS 60076 (Part 1)
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of No Load Loss	BS EN 60076 (Part 1)
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of No Load Loss	IEC 60076 (Part 1)
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Short Circuit Impedance	ANSI/IEEE C-57.12.90
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Short Circuit Impedance	AS/NZS 60076 (Part 1)
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Short Circuit Impedance	BS EN 60076 (Part 1)
81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Short Circuit Impedance	IEC 60076 (Part 1)
82	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Tan Delta	ANSI/IEEE C 57.12.90
83	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Tan Delta	AS/NZS 60076 (Part 1)
84	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Tan Delta	BS EN 60076 (Part 1)
85	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Tan Delta	IEC 60076 Part 1
86	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Voltage Ratio and check of voltage Vector Relationship	ANSI/IEEE C-57.12.90
87	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Voltage Ratio and Check of Voltage Vector Relationship	AS/NZS 60076 (Part 1)
88	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of voltage ratio and check of voltage vector relationship	BS EN 60076 (Part 1)
89	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Voltage ratio and check of voltage vector relationship	IEC 60076 (Part 1)
90	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Winding Resistance	ANSI/IEEE C-57.12.90

SCOPE OF ACCREDITATION

Laboratory Name : VIJAI ELECTRICALS LTD., TRANSFORMER TESTING LABORATORY, PLOT NO. 1A, SEC-12, IIE SIDCUL, BHEL, HARIDWAR, UTTARAKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7764 **Page No** 6 of 12

Validity 03/12/2022 to 02/12/2024 **Last Amended on** 31/12/2022

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
91	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of winding resistance	AS/NZS 60076 (Part 1)
92	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Winding Resistance	BS EN 60076 (Part 1)
93	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Winding Resistance	IEC 60076 (Part 1)
94	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Zero Sequence Impedance	ANSI/IEEE C-57.12.90
95	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Zero sequence Impedance	AS/NZS 60076 (Part 1)
96	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Zero Sequence Impedance	BS EN 60076 (Part 1)
97	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Measurement of Zero sequence Impedance	IEC 60076 (Part 1)
98	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Noise Level Measurement	ANSI/IEEE C-57.12.90
99	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Noise Level Measurement	AS/NZS 60076 (PART 10)
100	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Noise Level Measurement	BS EN 60076 (Part 10)
101	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Noise Level Measurement	IEC 60076 (Part 10))
102	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Pressure deflection Test	AS/NZS 60076 (Part 1)
103	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Pressure Deflection Test	BS EN 60076 (Part 1)
104	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Pressure Deflection test	IEC 60076 (Part 1)
105	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Separate Source Voltage withstand test	ANSI/IEEE C-57.12.90
106	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Separate Source Voltage withstand test	AS/NZS 60076 (Part 3)
107	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Separate Source Voltage Withstand Test	BS EN 60076 (Part 3)+A1
108	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Separate Source Voltage Withstand Test	IEC 60076 (Part 3)+A1
109	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Temperature Rise Test	ANSI/IEEE C-57.12.90

SCOPE OF ACCREDITATION

Laboratory Name :	VIJAI ELECTRICALS LTD., TRANSFORMER TESTING LABORATORY, PLOT NO. 1A, SEC-12, IIE SIDCUL, BHEL, HARIDWAR, UTTARAKHAND, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7764	**Page No**	7 of 12
Validity	03/12/2022 to 02/12/2024	**Last Amended on**	31/12/2022

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
110	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Temperature Rise Test	AS/NZS 60076 (Part-2)
111	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Temperature Rise Test	BS EN 60076 (Part-2)
112	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Temperature rise test	IEC 60076 (Part-2)
113	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Vacuum Deflection Test	AS/NZS 60076 (Part 1)
114	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Vacuum Deflection Test	BS EN 60076 (Part 1)
115	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Sealed and Non Sealed Type), 5kVA to 2500 kVA,Upto 33kV	Vacuum Deflection Test	IEC 60076 (Part 1)
116	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers(Sealed & Non sealed type) 5 kVA to 2500 kVA, Upto 33 kV	Noise Level Measurement	IS 1180
117	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers(Sealed & Non sealed type), 5 kVA to 2500 kVA, Upto 33kV	Permissible Flux Density & Over Fluxing	1180 Part 1
118	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Induced Over voltage Withstand Test	AS/NZS 60076 (Part 3)
119	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Induced Over Voltage withstand test	BS EN 60076 (Part 3)+A1
120	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Induced Over Voltage withstand test	IEC 60076 (Part-1)
121	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Induced Overvoltage Withstand Test	ANSI/IEEE C-57.12.90
122	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Leak Testing With Pressure	AS/NZS 60076 (Part 1)
123	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Leak Testing with Pressure	BS EN 60076 (Part 1)
124	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Leak testing with Pressure	IEC 60076 (Part 1)
125	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Lightning Impulse Voltage Withstand test	ANSI/IEEE C57.12.90
126	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Lightning Impulse Voltage Withstand Test	AS/NZS 60076 (Part 3)
127	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Lightning Impulse Voltage Withstand Test	BS EN 60076 (Part 3) +A1
128	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Lightning Impulse Voltage Withstand Test	IEC 60076 (Part 3)+A1

SCOPE OF ACCREDITATION

Laboratory Name :	VIJAI ELECTRICALS LTD., TRANSFORMER TESTING LABORATORY, PLOT NO. 1A, SEC-12, IIE SIDCUL, BHEL, HARIDWAR, UTTARAKHAND, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7764	**Page No**	8 of 12
Validity	03/12/2022 to 02/12/2024	**Last Amended on**	31/12/2022

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
129	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Lightning Impulse Voltage Withstand Test	IS 2026 Part 3
130	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Capacitance	ANSI/IEEE C-57.12.90
131	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Capacitance	AS/NZS 60076 Part 1
132	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Capacitance	BS EN 60076 (Part 1)
133	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Capacitance	IEC 60076 (Part 1)
134	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Harmonics of No Load Current	ANSI/IEEE C-57.12.90
135	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Harmonics of No Load Current	AS/NZS 60076 (Part 1)
136	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Harmonics of No Load Current	BS EN 60076 (Part 1)
137	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Harmonics of No Load Current	IEC 60076 (Part 1)
138	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Insulation Resistance	ANSI/IEEE C.57.12.90
139	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Insulation Resistance	AS/NZS 60076 (Part 1)
140	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Insulation Resistance	BS EN 60076 (Part 1)
141	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Insulation Resistance	IEC 60076 (Part 1)
142	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Load Loss	ANSI/IEEE C-57.12.90
143	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Load Loss	AS/NZS 60076 (Part 1)
144	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Load Loss	BS EN 60076 (Part 1)
145	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Load Loss	IEC 60076 (Part 1)
146	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of No Load Current	ANSI/IEEE C-57.12.90
147	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of No Load Current	AS/NZS 60076 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name :	VIJAI ELECTRICALS LTD., TRANSFORMER TESTING LABORATORY, PLOT NO. 1A, SEC-12, IIE SIDCUL, BHEL, HARIDWAR, UTTARAKHAND, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7764	**Page No**	9 of 12
Validity	03/12/2022 to 02/12/2024	**Last Amended on**	31/12/2022

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
148	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of No Load Current	BS EN 60076 (Part 1)
149	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of No Load Current	IEC 60076 (Part 1)
150	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of No Load Loss	ANSI/IEEE C-57.12.90
151	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of No Load Loss	AS/NZS 60076 (Part 1)
152	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of No Load Loss	BS EN 60076 (Part 1)
153	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of No Load Loss	IEC 60076 (Part 1)
154	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Short Circuit Impedance	ANSI/IEEE C-57.12.90
155	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Short Circuit Impedance	AS/NZS 60076 (Part 1)
156	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Short Circuit Impedance	BS EN 60076 (Part 1)
157	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Short Circuit Impedance	IEC 60076 (Part 1)
158	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Tan Delta	ANSI/IEEE C 57.12.90
159	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Tan Delta	AS/NZS 60076 (Part 1)
160	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Tan Delta	BS EN 60076 (Part 1)
161	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Tan Delta	IEC 60076 (Part 1)
162	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Tan Delta	IS 2026 (Part 1)
163	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Voltage ratio and Check of Voltage Vector Relationship	ANSI/IEEE C-57.12.90
164	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Voltage Ratio and Check of Voltage Vector Relationship	AS/NZS 60076 (Part 1)
165	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Voltage Ratio and Check of Voltage Vector Relationship	BS EN 60076 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name :	VIJAI ELECTRICALS LTD., TRANSFORMER TESTING LABORATORY, PLOT NO. 1A, SEC-12, IIE SIDCUL, BHEL, HARIDWAR, UTTARAKHAND, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7764	**Page No**	10 of 12
Validity	03/12/2022 to 02/12/2024	**Last Amended on**	31/12/2022

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
166	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Voltage ratio and Check of Voltage Vector Relationship	IEC 60076 (Part 1)
167	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Winding Resistance	ANSI/IEEE C-57.12.90
168	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Winding resistance	AS/NZS 60076 (Part 1)
169	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Winding Resistance	BS EN 60076 (Part 1)
170	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Winding Resistance	IEC 60076 (Part 2)
171	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Zero Sequence Impedance	ANSI/ IEEE C 57.12.90
172	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Zero sequence Impedance	AS/NZS 60076 (Part 1)
173	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Zero Sequence Impedance	BS EN 60076 (Part 1)
174	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Measurement of Zero Sequence Impedance	IEC 60076 (Part 1)
175	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Noise Level Measurement	ANSI/IEEE C-57.12.90
176	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Noise Level Measurement	AS/NZS 60076 (Part 10)
177	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Noise Level Measurement	BS EN 60076 (Part 10)
178	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Noise Level Measurement	IEC 60076 (Part 10)
179	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Pressure Deflection Test	AS/NZS 60076 (Part 1)
180	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Pressure Deflection Test	BS EN 60076 (Part 1)
181	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Pressure Deflection Test	IEC 60076 (Part 1)
182	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Separate Source Voltage Withstand Test	ANSI/IEEE C-57.12.90
183	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Separate Source Voltage Withstand Test	AS/NZS 60076 (Part 3)

SCOPE OF ACCREDITATION

Laboratory Name :	VIJAI ELECTRICALS LTD., TRANSFORMER TESTING LABORATORY, PLOT NO. 1A, SEC-12, IIE SIDCUL, BHEL, HARIDWAR, UTTARAKHAND, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7764	**Page No**	11 of 12
Validity	03/12/2022 to 02/12/2024	**Last Amended on**	31/12/2022

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
184	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Separate Source Voltage withstand test	BS EN 60076 (Part 3)+A1
185	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Separate source voltage withstand test	IEC 60076 (Part 3) +A1
186	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Temperature Rise Test	ANSI/IEEE C57.12.90
187	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Temperature Rise Test	AS/NZS 60076 (Part 2)
188	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Temperature Rise Test	BS EN 60076 (Part 2)
189	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Temperature Rise Test	IEC 60076 (Part 2)
190	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Vacuum Deflection Test	AS/NZS 60076 (Part 1)
191	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Vacuum Deflection Test	BS EN 60076 (Part 1)
192	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer (2500 kVA to 10000 kVA),Upto 33kV	Vacuum Deflection Test	IEC 60076 (Part 1)
193	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer, 2500 kVA to 10000 kVA	Induced Over Voltage withstand test	IS 2026 (Part 3)
194	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer, 2500 kVA to 10000 kVA	Magnetic Balance Test	CBIP Manual Publication 317
195	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer, 2500 kVA to 10000 kVA	Measurement of Capacitance	IS 2026 (Part 1)
196	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer, 2500 kVA to 10000 kVA	Measurement of Harmonics no Load current	IS 2026 (Part 1)
197	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer, 2500 kVA to 10000 kVA	Measurement of Insulation resistance	CBIP ManualPublication 317
198	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer, 2500 kVA to 10000 kVA	Measurement of Load loss	IS 2026 (Part 1)
199	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer, 2500 kVA to 10000 kVA	Measurement of No Load current	IS 2026 (Part 1)
200	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer, 2500 kVA to 10000 kVA	Measurement of No Load Loss	IS 2026 (Part 1)
201	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer, 2500 kVA to 10000 kVA	Measurement of short circuit impedance	IS 2026 (Part-1)

SCOPE OF ACCREDITATION

Laboratory Name :	VIJAI ELECTRICALS LTD., TRANSFORMER TESTING LABORATORY, PLOT NO. 1A, SEC-12, IIE SIDCUL, BHEL, HARIDWAR, UTTARAKHAND, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7764	**Page No**	12 of 12
Validity	03/12/2022 to 02/12/2024	**Last Amended on**	31/12/2022

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
202	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer, 2500 kVA to 10000 kVA	Measurement of Voltage Ratio and Check of Voltage vector relationship	IS 2026 (Part 1)
203	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer, 2500 kVA to 10000 kVA	Measurement of winding resistance	IS 2026 (Part 1)
204	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer, 2500 kVA to 10000 kVA	Measurement of Zero sequence impedance	IS 2026 (Part 1)
205	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer, 2500 kVA to 10000 kVA	Noise Level Measurement test	IS 2026 (Part 10)
206	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer, 2500 kVA to 10000 kVA	Oil leakage test	CBIP Manual Publication 317
207	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer, 2500 kVA to 10000 kVA	Pressure test (Type Test)	CBIP Publication 317
208	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer, 2500 kVA to 10000 kVA	Pressure test routine	CBIP Manual Publication 317
209	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer, 2500 kVA to 10000 kVA	Separate source voltage withstand test	IS 2026 (Part 3)
210	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer, 2500 kVA to 10000 kVA	Temperature Rise Test	IS 2026 (Part 2)
211	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformer, 2500 kVA to 10000 kVA	Unbalance current test	VEL/TTPM/01/13.6 ,CBIP Manual Publication-317