National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : POWER TRANSFORMER TESTING LABORATORY, HITACHI ENERGY INDIA LIMITED, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 30/12/2021 to 14/09/2023 **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	Converter Transformers 100 MVA to 400 MVA	Applied switching impulse voltage withstand test	IEC 61378-2
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Applied voltage test	IEC 61378-2
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	AC separate source voltage test	IEC 61378-2
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Capacitances windings-to-earth and between windings	IEC 60076-1
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	DC separate source voltage withstand test	IEC 61378-2
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Induced voltage test with partial discharge measurement	IEC 61378-2
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Lightning impulse tests (LI, LIC, LIN)	IEC 61378-2
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Magnetic balance and magnetizing current test	CBIP 317
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Measurement of capacitance for bushing	IEC 60137
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Measurement of capacitance for bushings	IEC 60137
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Measurement of d.c. insulation resistance and polarization index	IEC 61378-2
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Measurement of dielectric dissipation factor (tan d) for bushing	IEC 60137
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Measurement of dissipation factor (tan d) of the insulation system capacitances	IEC 60076-1
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Measurement of frequency response	IEC 60076-18
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Measurement of harmonics of no load current	IEC 60076-1
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Measurement of load loss	IEC 61378-2
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Measurement of no-load loss and current	IEC 61378-2

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18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Measurement of short circuit impedance	IEC 61378-2
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Measurement of the power taken by the fan and liquid pump motors	IEC 60076-1
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Measurement of voltage ratio and check of phase displacement	IEC 61378-2
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Measurement of winding resistance	IEC 61378-2
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Polarity reversal test	IEC 61378-2
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Sound levels	IEC 60076-10
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Switching impulse test	IEC 60076-3
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Temperature rise test	IEC 61378-2
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Temperature-rise test	IEC 61378-2
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Test on on-load tap changer	IEC 60076-1
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Converter Transformers 100 MVA to 400 MVA	Vector group verification	IEC 61378-2
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Temperature-rise test	IEC 60076-2
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Applied voltage test (AV)	IEC 60076-3
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Capacitances windings-to-earth and between windings	IEC 60076-1
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Capacitances windings-to-earth and between windings	IS 2026-1
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Induced voltage test with PD measurement (IVPD)	IEC 60076-3
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Induced voltage withstand test (IVW)	IEC 60076-3
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Lightning impulse tests (LI, LIC, LIN)	IEC 60076-3

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36	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Lightning impulse tests (LI, LIC, LIN)	IS 2026-3
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Line terminal AC withstand voltage test (LTAC)	IEC 60076-3
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Long duration induced AC voltage test (ACLD)	IS 2026-3
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Magnetic balance and magnetizing current measurement	CBIP 317
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of capacitance for bushing	IEC 60137
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of d.c. insulation resistance and polarization index	IEC 60076-1
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of d.c. insulation resistance and polarization index	IS 2026-1
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of dielectric dissipation factor (tan d) for bushing	IEC 60137
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of dissipation factor (tan d) of the insulation system capacitances	IEC 60076-1
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of dissipation factor (tan d) of the insulation system capacitances	IS 2026-1
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of frequency response	IEC 60076-18
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of harmonics of no load current	IEC 60076-1
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of harmonics of no-load current	IS 2026-1
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of load loss	IEC 60076-1
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of load loss	IS 2026-1
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of no-load loss and current	IEC 60076-1
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of no-load loss and current	IS 2026-1

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53	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of short circuit impedance	IEC 60076-1
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of short circuit impedance	IS 2026-1
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of the power taken by the fan and liquid pump motors	IEC 60076-1
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of the power taken by the fan and liquid pump motors	IS 2026-1
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of voltage ratio and check of phase displacement	IEC 60076-1
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of voltage ratio and check of phase displacement	IS 2026-1
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of winding resistance	IEC 60076-1
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of winding resistance	IS 2026-1
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of zero-sequence impedance(s) on three-phase transformers	IEC 60076-1
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Measurement of zero-sequence impedance(s) on three-phase transformers	IS 2026-1
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Over excitation test	POWERGRID/STD/TEST PROCEDURE/TR-PT/REV00
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Separate source AC withstand voltage test	IS 2026-3
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Short duration heat run test	POWERGRID/STD/TEST PROCEDURE/TR-PT/REV00
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Short duration induced AC voltage withstand test (ACSD)	IS 2026-3
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Sound levels	IEC 60076-10
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Sound levels	IS 2026-10
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Switching impulse test	IEC 60076-3

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70	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Switching impulse test	IS 2026-3
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Temperature rise test	IS 2026-2
72	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Test on on-load tap changer	IEC 60076-1
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Test on on-load tap changer	IS 2026-1
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	POWER TRANSFORMERS FROM 5 MVA TO 600 MVA, 6.6 KV TO 1200 KV	Vector group verification	CBIP 317
75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Applied voltage test (AV)	IEC 60076-3
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Capacitances windings-to-earth	IEC 60076-6
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Capacitances windings-to-earth	IS 2026-6
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Induced voltage test with PD measurement (IVPD)	IEC 60076-3
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Lightning impulse tests (LI, LIC, LIN)	IEC 60076-3
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Lightning impulse tests (LI, LIC, LIN)	IS 2026-3
81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Line Terminal AC withstand voltage test (LTAC)	IEC 60076-3
82	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Linearity of reactor	IEC 60076-6
83	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Long duration Induced AC Voltage Test (ACLD)	IS 2026-3
84	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Measurement of capacitance for bushing	IEC 60137
85	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Measurement of Current Harmonics	IEC 60076-6
86	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Measurement of current Harmonics	IS 2026-6
87	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Measurement of d.c. insulation resistance and polarization index	IEC 60076-6

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88	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Measurement of d.c. insulation resistance and polarization index	IS 2026-6
89	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Measurement of dielectric dissipation factor (tan d) for bushing	IEC 60137
90	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Measurement of dissipation factor (tan d) of the insulation system capacitances	IEC 60076-6
91	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Measurement of dissipation factor (tan d) of the insulation system capacitances	IS 2026-6
92	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Measurement of frequency response	IEC 60076-18
93	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Measurement of Loss	IEC 60076-6
94	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Measurement of loss	IS 2026-6
95	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Measurement of power consumption of fans and oil pumps	IEC 60076-6
96	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Power consumption of fans and oil pumps	IS 2026-6
97	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Reactance	IEC 60076-6
98	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Reactance	IS 2026-6
99	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Separate source AC withstand voltage test	IS 2026-3
100	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Short Duration AC voltage withstand test (ACSD)	IS 2026-3
101	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	short time excitation test	POWERGRID/STD/TEST PROCEDURE/TR-PT/REV00
102	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Sound levels	IEC 60076-10
103	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Sound levels	IEC 60076-6
104	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Sound levels	IS 2026-10

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105	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Switching Impulse Test	IEC 60076-3
106	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Switching Impulse Test	IS 2026-3
107	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Tank vibration	IEC 60076-6
108	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Tank vibration	IS 2026-6
109	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Temperature rise test	IEC 60076-6
110	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Temperature rise test	IS02026-6
111	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Winding resistance	IEC 60076-6
112	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Winding resistance	IS 2026-6
113	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Zero sequence Impedance	IEC 60076-6
114	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Rectors from 40 MVAr to 125 MVAr, 300 kV to 800 kV	Zero sequence Impedance	IS 2026-6