National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ULTRA HIGH VOLTAGE LABORATORY, BHEL BHOPAL, BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5313 **Page No** 1 of 8

Validity 12/10/2022 to 11/10/2024 **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	Capacitive Voltage Transformer upto 800 kV	Switching impulse voltage withstand test	IS 16227 (Part 5), IEC 61869 (Part 1), IEC 61869 (Part 5)
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitive Voltage Transformer upto 800 kV	Lightning impulse test	IS 16227 (Part 5), IEC 61869 (Part 1), IEC 61869 (Part 5)
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitive Voltage Transformer upto 800 kV	Measurement of Capacitance	IS 16227 (Part 5), IEC 61869 (Part 1), IEC 61869 (Part 5)
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitive Voltage Transformer upto 800 kV	Measurement of Tan Delta	IS 16227 (Part 5), IEC 61869 (Part 1), IEC 61869 (Part 5)
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitive Voltage Transformer upto 800 kV	Partial discharge measurement	IS 16227 (Part 5), IEC 61869 (Part 1), IEC 61869 (Part 5)
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitive Voltage Transformer upto 800 kV	Power frequency voltage withstand test	IS 16227 (Part 5), IEC 61869 (Part 1), IEC 61869 (Part 5)
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitive Voltage Transformer upto 800 kV	POWER FREQUENCY WITHSTAND ON LV TERMINAL OF CVD	61869-1
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitive Voltage Transformer upto 800 kV	POWER FREQUENCY WITHSTAND TEST ON PRIMARY TERMINALS	IEC 61869-1 & IEC 61869-5
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitive Voltage Transformer upto 800 kV	POWER FREQUENCY WITHSTAND TEST ON SECONDARY TERMINALS	61869-1
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitive Voltage Transformer upto 800 kV	TEST FOR ACCURACY	IEC 61869(Part 5)
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitive Voltage Transformer upto 800 kV	Visible corona test	IS 16227 (Part 5), IEC 61869 (Part 1), IEC 61869 (Part 5)
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer upto 800 kV	Determination of Errors according to Accuracy class	IEC:61869 (Part-2)
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer upto 800 kV	Inter turn Over Voltage Test	IEC:61869 (Part-2)
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer upto 800 kV	Lighting impulse test	IS 2705 (Part 1), IS 16227 (Part 2), IEC 61869 (Part 1), IEC 61869(Part 2)
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer upto 800 kV	Measurement of Capacitance	IS 2705 (Part 1), IS 16227 (Part 2), IEC 61869 (Part 1), IEC 61869 (Part 2)
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer upto 800 kV	Measurement of Instrument Security Factor	IEC 61869 (Part 2)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5313 **Page No** 2 of 8

Validity 12/10/2022 to 11/10/2024 **Last Amended on** -

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17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer upto 800 kV	Measurement of Tan Delta	IS 2705 (Part 1), IS 16227 (Part 2), IEC 61869 (Part 1), IEC 61869 (Part 2)
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer upto 800 kV	Partial discharge measurement	IS 2705 (Part 1), IS 16227 (Part 2), IEC 61869 (Part 1), IEC 61869(Part 2)
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer upto 800 kV	Power frequency voltage withstand test	IS 2705 (Part 1), IS 16227 (Part 2), IEC 61869 (Part 1), IEC 61869(Part 2)
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer upto 800 kV	Power Frequency Voltage Withstand tests on Secondary terminals	IEC:61869 (Part-1)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer upto 800 kV	Switching impulse voltage withstand test	IS 2705 (Part 1), IS 16227 (Part 2), IEC 61869 (Part 1), IEC 61869(Part 2)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer upto 800 kV	Visible corona test	IS 2705 (Part 1), IS 16227 (Part 2), IEC 61869 (Part 1), IEC 61869(Part 2)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase	DC Polarity reversal test	IEC 60076 (Part 1), IEC 61378 (Part 2)
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase	DC Voltage withstand test	IEC 60076 (Part 1), IEC 61378 (Part 2)
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Check of Polarity	IS 2026 (Part 1), IEC 60076 (Part 1)
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Induced voltage test/ IVW	IS 2026 (Part 3), IEC 60076 (Part 3)
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Isolation Test	IS 2026 (Part 1), IEC 60076 (Part 1)
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Isolation Test	IS 2026 (Part1), IEC 60076 (Part 1)
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Lightning impulse test (Full wave & Chopped wave)	IS 2026 (Part 3), IEC 60076 (Part 3)

SCOPE OF ACCREDITATION

Laboratory Name : ULTRA HIGH VOLTAGE LABORATORY, BHEL BHOPAL, BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5313 **Page No** 3 of 8

Validity 12/10/2022 to 11/10/2024 **Last Amended on** -

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30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Measurement of Winding Resistance	IS 2026 (Part 1), IEC 60076 (Part 1)
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Measurement of Capacitance	IS 2026 (Part 1), IEC 60076 (Part 1)
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Measurement of cooler loss	IS 2026 (Part 1), IEC 60076 (Part 1)
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Measurement of harmonics	IS 2026 (Part 1), IEC 60076 (Part 1)
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Measurement of Impedance	IS 2026 (Part 1),IEC 60076 (Part 1)
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Measurement of Insulation Resistance	IS 2026 (Part 1), IEC 60076 (Part 1)
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Measurement of Load loss	IS 2026 (Part 1), IEC 60076 (Part 1)
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Measurement of magnetic balance	IS 2026 (Part 1), IEC 60076 (Part 1)
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Measurement of magnetizing current	IS 2026 (Part 1), IEC 60076 (Part 1)
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Measurement of No load loss	IS 2026 (Part 1), IEC 60076 (Part 1)
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Measurement of Tan Delta	IS 2026 (Part 1), IEC 60076 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : ULTRA HIGH VOLTAGE LABORATORY, BHEL BHOPAL, BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5313 **Page No** 4 of 8

Validity 12/10/2022 to 11/10/2024 **Last Amended on** -

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41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Measurement of Voltage Ratio	IS 2026 (Part 1), IEC 60076 (Part 1)
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Measurement of Zero Phase Sequence Impedance	IS 2026 (Part 1), IEC 60076 (Part 1)
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Partial discharge measurement/ACSD test/ACLD test/ IVPD/LTAC	IS 2026 (Part 3), IEC 60076 (Part3)
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Power frequency voltage withstand test/ Applied Voltage test/ Separate Source Voltage Withstand test (Dry)	IS 2026 (Part 3), IEC 60076 (Part 3)
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	RSO measurement/ Transient Voltage Transfer Characteristics	IEC 60060 (Part 1), IEC 60076 (Part1), IEC 60076(Part 3)
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Sweep Frequecny Response Analysis (SFRA)	IS 2026 (Part1), IEC 60076 (Part1), IEC 60076 (Part 18)
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Switching impulse voltage withstand test	IS 2026 (Part 3), IEC 60076(Part 3)
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Temperature rise test	IS 2026 (Part 2) , IEC 60076 (Part 2)
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Test on OLTC	IS 2026 (Part 1), IEC 60076 (Part-1)
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer up to 500 MVA & 1200 kV, 1-Phase & 3-Phase, HVDC Converter Transformer up to 500 MVA & 800 kV, 1-Phase, Phase Shifting Transformer upto 500 MVA & 400 kV, 3-Phase	Verification of Vector Group	IS 2026 (Part 1), IEC 60076 (Part 1)
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Induced voltage test/IVW	IS 2026 (Part 6), IEC 60076 (Part 6)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5313 **Page No** 5 of 8

Validity 12/10/2022 to 11/10/2024 **Last Amended on** -

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52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Isolation Test	IS 2026 (Part 6), IEC 60076 (Part 6)
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Isolation Test	IS 2026 (Part 6), IEC 60076 (Part 6)
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Lightning impulse test	IS 2026(Part 6), IEC 60076 (Part 6)
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Measurement of Capacitance	IS 2026 (Part 6), IEC 60076 (Part 6)
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Measurement of Impedance	IS 2026 (Part 6), IEC 60076 (Part 6)
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Measurement of Insulation Resistance	IS 2026 (Part 6), IEC 60076 (Part 6)
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Measurement of load loss	IS 2026 (Part 6), IEC 60076 (Part 6)
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Measurement of Magnetization Characteristics	IS 2026 (Part 6), IEC 60076 (Part 6)
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Measurement of magnetizing current	IS 2026 (Part 6), IEC 60076 (Part 6)
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Measurement of mutual reactance	IS 2026 (Part 6) , IEC 60076 (Part 6)
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Measurement of Tan Delta	IS 2026 (Part 6), IEC 60076 (Part 6)
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Measurement of Winding Resistance	IS 2026(Part 6), IEC 60076 (Part 6)
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Measurement of Zero Phase sequence Impedance/ Reactance	IS 2026 (Part 6), IEC 60076 (Part 6)
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Partial discharge measurement/ACSD test/ACLD test/ IVPD/LTAC	IS 2026 (Part 6), IEC 60076 (Part 6)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5313 **Page No** 6 of 8

Validity 12/10/2022 to 11/10/2024 **Last Amended on** -

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66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Power frequency voltage withstand test/ Applied Voltage test/ Separate Source Voltage Withstand test	IS 2026 (Part 6), IEC 60076 (Part 6)
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Switching impulse voltage withstand test	IS 2026 (Part 6), IEC 60076 (Part 6)
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Shunt Reactors upto 150 MVAr, & 800 kV, Current Limiting reactors & Neutral earthing reactors, Smoothing Reactors upto 400 kV	Temperature rise test	IS 2026 (Part 6), IEC 60076 (Part 6)
69	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Break down voltage test (BDV) of oil	IS 6792, IEC 60156
70	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Moisture content measurement of oil	IS 13567, IEC 60296
71	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Resistivity measurement of oil	IS 6103, IEC 60247
72	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Tan Delta measurement of oil	IS 6262, IEC 60247
73	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bus duct upto 100 kV	Power frequency voltage withstand test (Dry)	IS 8084
74	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bus duct upto100 kV	Lightning impulse test withstand test (Dry)	IS 8084
75	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing up to 800 kV	Measurement of Capacitance	IEC 60137
76	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing upto 800 kV	Lightning impulse test	IEC 60137
77	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing upto 800 kV	Measurement of Tan Delta	IEC 60137

SCOPE OF ACCREDITATION

Laboratory Name : ULTRA HIGH VOLTAGE LABORATORY, BHEL BHOPAL, BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5313 **Page No** 7 of 8

Validity 12/10/2022 to 11/10/2024 **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
78	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing upto 800 kV	Partial discharge measurement	IEC 60137
79	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing upto 800 kV	Power frequency voltage withstand test	IEC 60137
80	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing upto 800 kV	Switching impulse voltage withstand test	IEC 60137
81	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing upto 800 kV	Visible corona test	IEC 60137
82	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Circuit breaker upto 800 kV	Lightning impulse voltage withstand test	IEC 62271 (Part 100)
83	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Circuit breaker upto 800 kV	Partial discharge measurement	IEC 62271 (Part 100)
84	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Circuit breaker upto 800 kV	Power frequency voltage withstand test	IEC 62271 (Part 100)
85	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Circuit breaker upto 800 kV	Switching impulse voltage withstand test	IEC 62271 (Part 100)
86	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	HT Power Capacitors upto 30 kV	Lightning impulse test	IS 9835 (Part 1), IEC 60871 (Part 1), IS 13925 (Part 1), IS 11548
87	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	HT Power Capacitors upto 30 kV	Partial discharge measurement	IS 9835 (Part 1), IEC 60871 (Part 1), IS 13925 (Part 1), IS 11548
88	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	HT Power Capacitors upto 30 kV	Power frequency voltage withstand test	IS 9835 (Part 1), IEC 60871 (Part 1), IS 13925 (Part 1), IS 11548

SCOPE OF ACCREDITATION

Laboratory Name :	ULTRA HIGH VOLTAGE LABORATORY, BHEL BHOPAL, BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5313	**Page No**	8 of 8
Validity	12/10/2022 to 11/10/2024	**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
89	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	OLTC upto 400 kV	Lightning impulse voltage withstand test (Dry)	IS 8468 (Part1), IEC 60214 (Part 1)
90	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	OLTC upto 400 kV	Partial discharge measurement	IS 8468 (Part1), IEC 60214 (Part 1)
91	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	OLTC upto 400 kV	Power frequency voltage withstand test (Dry)	IS 8468 (Part1), IEC 60214 (Part 1)
92	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	OLTC upto 400 kV	Switching impulse voltage withstand test (Dry)	IS 8468 (Part1), IEC 60214 (Part 1)