National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GE T&D INDIA LIMITED, PLOT NO.46, SIPCOT INDUSTRIAL COMPLEX, HOSUR, KRISHNAGIRI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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- INSULATING MATERIALS & INSULATORS	Insulating Oils	Dielectric dissipation factor (Tan delta at 90/100 deg C)	IS 6262
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oils	Dissolved Gas Analysis - Carbon Dioxide (CO2), Carbon Monoxide (CO), Acetylene (C2H2), Ethylene (C2H4), Ethane (C2H6), Methane (CH4), Hydrogen (H2)	IEC 60599 & IEC 60567, IEC 61464
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oils	Electric Strength (Break Down Voltage)	IS 6792, IEC 60156, IEC 60156
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oils	Inter Facial Tension at 27 deg C	IS 6104
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oils	Particle Count - (NIST/AC)	ISO 4406 & ISO 11171
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oils	Specific Resistance	IS 6103
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulating Oils	Water Content	IS 13567
8	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings up to 420 kV	Tan Delta Measurement	IEC 60137
9	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings up to 420 kV	Capacitance Measurement	IEC 60137
10	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings up to 420 kV	Chopping Impulse Test	IEC 60137
11	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings up to 420 kV	Lightning Impulse Test	IEC 60137

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12	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings up to 420 kV	Partial Discharge Test	IEC 60137
13	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings up to 420 kV	Power Frequency Voltage Withstand Test	IEC 60137
14	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings up to 420 kV	Switching Impulse Test	IEC 60137
15	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings up to 420 kV	Temperature Rise Test	IEC 60137
16	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings up to 420 kV	Thermal Stability Test	IEC 60137
17	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings up to 420 kV	Tightness Test	IEC 60137
18	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Tan Delta Test,	IEC 60358-1, IEC 61869 1& 5
19	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Accuracy Test (Phase Angle) , Burden 1.25 VA to 584 VA 0.8 Lag in minutes	IEC 61869-1 & 5
20	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Accuracy Test (Ratio Error), 0.8 Lag Burden 1.25 VA to 584 VA	IEC 61869-1 & 5
21	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Capacitance Measurement	IEC 60358-1 ,IEC 61869-1 & 5
22	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Chopping Impulse Test	IEC 61869-1 & 5

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23	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Corona inception & extinction test (dry) & Visual Corona Test	GE WI QTG001
24	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Enclosure Tightness Test of EMU @ Amb. Temp	IEC 61869-1 & 5
25	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Ferro Resonance Test, Upto 220kV Direct Method used & More than 220kV Thevinins Method used.	IEC 61869-1 & 5
26	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	High Frequency Capacitance & Series Resistance at 30-500 kHz (High Freq. Cap. part)	IEC 61869-1 & 5, IEC 60358-1
27	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	High Frequency Capacitance & Series Resistance at 30-500 kHz (High Freq. Resistance part)	IEC 61869-1 & 5
28	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Lightning Impulse Test	IEC 61869-1 & 5
29	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Partial Discharge Test	IEC 600358-1 ,IEC 61869-1 & 5
30	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Power Frequency Test on Primary Winding of the EMU @ 200Hz (Induced Over Voltage Test)	IEC 61869-1 & 5
31	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Power Frequency Voltage Withstand Test (Dry)	IEC 60358-1, IEC 61869-1 &5
32	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Power Frequency Voltage Withstand Test (dry) (on Earth Terminals 4 kV / 10kV (cc) for 1 minute)	IEC 60358 -1 & IEC 61869-1 & 5
33	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Power Frequency Voltage Withstand Test (dry) (on Secondary Winding 3 kV for 1 minute)	IEC 61869-1 & 5

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34	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Short Circuit Withstand Capability Test by Thevinins Eq. Methood	IEC 61869-1 & 5
35	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Stray Capacitance & Stray Conductance Test,(Stray Cap. part)	IEC 61869-1 & 5
36	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Switching Impulse Test	IEC 61869-1 & 5
37	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Temperature Rise Test	IEC 61869-1 & 5
38	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Tightness of the Liquid - filled Capacitor Voltage Divider & CC	IEC 600358- 1, IEC 61869-1 & 5
39	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Transient Response Test (Eq. method)	IEC 61869-1 & 5
40	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765 kV	Verification of Terminal Marking & Polarity	IEC 61869-1 & 5
41	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Capacitive Voltage Transformers & Coupling Capacitors up to 765kV	Stray Capacitance & Stray Conductance Test, (Stray Conductance Part)	IEC 61869 - 1 & 5
42	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformer up to 765 kV	Accuracy Test (Phase Angle measurement) 0.5VA to 100VA in minutes	IEC 61869-1 & 2
43	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformer up to 765 kV	Accuracy Test (Ratio Error measurement) 0.5 VA -100 VA	IEC 61869-1 & 2
44	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformer up to 765 kV	Instrument Security Factor Test (Secondary Method) up to 10 Amp. rated secondary current.	IEC 61869-1 & 2

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45	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformer up to 765 kV	Inter Turn Over Voltage Test in kVp & 1-5 Amp.	IEC 61869-1& 2
46	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformer up to 765 kV	Knee Point Voltage & Current Test 1 - 10000 milli Amp.	IEC 61869-1 & 2
47	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformers up to 765 kV	Capacitance Measurement,	IEC 61869-1 & 2
48	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformers up to 765 kV	Composite Error Test (Secondary Method)	IEC 61869-1 & 2
49	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformers up to 765 kV	Lightning Impulse Chopping Test .	IEC 61869 -1 & 2
50	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformers up to 765 kV	Lightning Impulse Test.	IEC 61869 - 1 & 2
51	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformers up to 765 kV	Partial Discharge Test	IEC 61869-1 & 2
52	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformers up to 765 kV	Power Frequency Voltage withstand Test,	IEC 61869-1 & 2
53	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformers up to 765 kV	Switching Impulse Test .	IEC 61869 - 1 & 2
54	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformers up to 765 kV	Tan Delta Measurement	IEC 61869-1 & 2
55	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformers up to 765 kV	Temperature Rise Test , up to 5000 Amp. in deg C	IEC 61869-1 & 2

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56	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformers up to 765 kV	Verification of Terminal Marking & Polairty	IEC 61869-1 & 2
57	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformers up to 765 kV	Winding Resistance Measurement ,	IEC 61869-1 & 2
58	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electro Magnetic Voltage Transformer up to 245kV (VT)	Power Frequency Voltage withstand Test on Secondary Terminals	IEC 61869-1 & IEC 61869-3
59	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electro Magnetic Voltage Transformer up to 245kV (VT)	Accuracy Test (Ratio Error)	IEC 61869-1 & IEC 61869-3
60	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electro Magnetic Voltage Transformer up to 245kV (VT)	Measurement of Capacitance	IEC 61869 -1 & IEC 61869-3
61	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electro Magnetic Voltage Transformer up to 245kV (VT)	Measurement of Tan Delta	IEC 61869-1 & IEC 61869 -3
62	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electro Magnetic Voltage Transformer up to 245kV (VT)	Partial Discharge Test	IEC 61869-1 & IEC 61869-3
63	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electro Magnetic Voltage Transformer up to 245kV (VT)	Verification of Terminal Markings	IEC 61869-1 & IEC 61869-3
64	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electro Magnetic Voltage Transformer up to 245kV (VT)	Accuracy Test (Phase Angle Measurement)	IEC 61869-1 & IEC 61869-3
65	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electro Magnetic Voltage Transformer up to 245kV (VT)	Chopping Impulse Test	IEC 61869-1 & IEC 61869-3
66	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electro Magnetic Voltage Transformer up to 245kV (VT)	Lightning Impulse Test	IEC 61869 1 & IEC 61869-3

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67	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electro Magnetic Voltage Transformer up to 245kV (VT)	Multiple Chopped Impulse Test on Primary Terminals	IEC 61869-1 & IEC 61869-3
68	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electro Magnetic Voltage Transformer up to 245kV (VT)	Power Frequency Voltage withstand Test on Primary Terminals	IEC 61869-1 & IEC 61869-3
69	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electro Magnetic Voltage Transformer up to 245kV (VT)	Temperature Rise Test	IEC 61869-1 & IEC 61869-3
70	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Grading Capacitor up to 280 kV	Lightning Impulse Test	IEC 62146-1 Amendment 1
71	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Grading Capacitor up to 280 kV	Measurement of Capacitance	IEC 62146-1, Amendment 1
72	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Grading Capacitor up to 280 kV	Partial Discharge Test	IEC 62146-1, Amendment 1
73	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Grading Capacitor up to 280 kV	Power Frequency Voltage withstand test (dry)	IEC 62146-1, Amendment 1
74	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Grading Capacitor up to 280kV	Measurement of Tan Delta	IEC 62146-1, Amendment 1
75	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Line Traps up to 765 kV	Blocking Resistance & Blocking Impedance	IEC 60353, Amendment 1
76	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Line Traps up to 765 kV	Power Frequency Inductance of the Main Coil	IEC 60353, Amnd.1
77	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Line Traps up to 765 kV	Power Frequency Voltage on Tuning Device	IEC 60353, Amnd.1

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78	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Line Traps up to 765 kV	Rated Inductance of the Main Coil	IEC 60353, Amnd.1
79	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Line Traps up to 765 kV	Tapping Loss & Tapping Loss based on Resistance	IEC 60353 , Amnd.1
80	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Line Traps up to 765 kV	Temperature Rise Test - up to 4000 Amp	IEC 60353, Amnd.1
81	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Line Traps up to 765 kV	Winding Resistance Measurement	IEC 60353, Amnd.1