



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SUDUTT ELECTRICAL TESTING LABORATORY (OPC) PRIVATE LIMITED, SHED NO-11,
12, SURVEY NO-35, 0, GOTRI ROAD, GAYATRI PARTY PLOT, GOTRI, VADODARA,
GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 22/03/2025 to 20/08/2026 **Last Amended on** 15/04/2026

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using High Voltage Divider With Kilo Volt Meter With HV Source By Comparison Method	2 kV to 100 kV	0.90 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using Standard PT With Indicating Meter or HV Divider By Direct Method	500 V to 10 kV	1.6 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kV to 10 kV @ 50 Hz	Using Capacitance & Tan Delta Bridge & Standard Capacitor By Comparison Method	50 pF to 1000 pF	0.28 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kV to 10 kV @ 50 Hz	Using Capacitance & Tan Delta Bridge By Direct Method	50 pF to 1000 pF	0.28 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kV to 5 kV @ 50 Hz	Using Capacitance & Tan Delta Bridge & Standard Capacitor By Comparision Method	1000 pF to 30 nF	0.28 % to 0.39 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kV to 5 kV @ 50 Hz	Using Capacitance & Tan Delta Bridge By Direct Method	1000 pF to 30 nF	0.28 % to 0.39 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance Up to 10 kV @ 50 Hz	Using Capacitance & Tan delta Bridge By Comparison Method	50 pF to 1000 pF	0.62 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance Up to 10 kV @ 50 Hz	Using Capacitance & Tan delta Bridge By Direct Method	50 pF, 100 pF, 1000 pF	0.65 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Tan Delta @ 1 kV to 5 kV @ 50 Hz	Using Capacitance & Tan Delta Bridge And Standard Capacitor With Tan Delta By Comparision Method	0.001 % to 3 %	0.000089 to 0.0000995



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Tan Delta @ 5 kV to 10 kV @ 50 Hz	Using Capacitance & Tan delta Bridge And Standard Capacitor With Tan Delta By Comparison Method:	3 % to 10 %	0.0000995 to 0.0009609
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Tan Delta Point Upto 10 kVA @ 50 Hz	Using Standard Capacitor With Tan Delta Point By Direct Method	0.05 % to 5 %	0.0006
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance Up to 10 kV @ 50 Hz	Using Standard Capacitor By Direct Method	25 pF to 1000 nF	0.3 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using High Voltage Divider with kilo Volt Meter with HV Source By Comparison Method	2 kV to 40 kV	0.94 %
14	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using Resistive Voltage Divider With kV Meterby Direct method	1 kV to 50 kV	2.1 %



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15	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Volatge Measuring System, Digital Oscilloscope)- Chopped Impulse Voltage	Using Impulse Voltage Measuring System as per IEC 61083 by Comparision Method	±100 Vp to ±1600 Vp	0.9 %
16	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Voltage Measuring System , Digital Oscilloscope - Chopped Time TC	Using Impulse Voltage Measuring System as per IEC 61083 by Comparision Method	0.5 μS	1.8 %
17	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Voltage measuring System , Digital Oscilloscope - Lighning & Switching Impulse Voltage	Using Impulse Voltage Measuring System as per IEC 61083 by Comparision Method	±50 Vp to ±1600 Vp	0.7 %
18	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Voltage Measuring System ,Digital Oscillscope - Switching Impulse Front Time T1	Using Impulse Voltage Measuring System as per IEC 61083 by Comparision Method	20 μS	1.75 %
19	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Voltage Measuring System,Digital Oscilloscope) - Lightning Impulse Tail Time T2	Using Impulse Voltage Measuring System as per IEC 61083 by Comparision Method	60 μS	1.8 %



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20	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Voltage Measuring System/Digital Oscilloscope - Switching Impulse Tail Time T2	Using Impulse Voltage Measuring System as per IEC 61083 by Comparison Method	4000 μ S	1.7 %
21	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Voltage measuring System,Digital Oscilloscope - Lightning Impulse Front Time T1	Using Impulse Voltage Measuring System as per IEC 61083 by Comparison Method	0.84 μ S	1.9 %
22	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Ratio of Impulse Voltage Divider / Probe	Using Unit Impulse Calibration Generator with Digital Impulse Voltage Measuring System as per IEC 60060-2 by Comparison Method	\pm 10 Vp to \pm 1000 Vp	0.6 %
23	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impluse calibrator , Impluse generator - Lightning Impulse Tail Time T2	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	60 μ S	1.9 %
24	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impluse calibrator , Impluse generator - Switching Impulse Time to Peak Tp	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	20 μ S	1.75 %



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25	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impluse calibrator ,Impluse generator - Lightning Impulse Front Time T1	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	0.84 μ S	1.9 %
26	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impluse calibrator ,Impluse generator -Switching Impulse Tail Time T2	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	4000 μ S	1.71 %
27	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impluse calibrator,Impluse generator - Chopped Time TC	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	0.5 μ S	1.8 %
28	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impulse Calibrator , Impulse Generator -Lightning impulse chopped Voltage	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	\pm 100 Vp to \pm 1600 Vp	0.6 %
29	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impulse Calibrator , Impulse Generator -Lightning Impulse Voltage	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	\pm 50 Vp to \pm 1600 Vp	0.7 %
30	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impulse Calibrator , Impulse Generator Voltage - Switching Impulse Voltage	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	50 Vp to 1600 Vp	0.7 %



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31	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Scale Factor - High Voltage Divider / Probe	Using High Voltage Divider with Kilovolt meter & True RMS Multimeter	0.5 to 1.5	0.9 %
32	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Scale Factor (Impulse Voltage Divider / Probe)	Using Unit Step Generator With Oscilloscope as per IEC 60060-2 by Comparison method	10 Vp to 1000 Vp	0.6 %
33	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Voltage & Time (Impulse Measuring System)	Using Reference Impulse Calibrator as per IEC 61083 By Direct Method	LI : 80 Vp to 1000 Vp, T1 : 0.84 μs, T2 : 60 μs	V : 0.76 %, T1 : 1.7 %, T2 : 1.7 %
34	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Voltage & Time (Impulse Measuring System)	Using Reference Impulse Calibrator & Digital Oscilloscope as per IEC 61083 By Comparison Method	LIC : 100 Vp to 1000 Vp, Chopped Time Tc : 0.5 μs	V : 0.76 %, Tc : 1.7 %
35	ELECTRO-TECHNICAL-EMI/ EMC (Source)	Scale Factor (Impulse Voltage Divider / Probe)	Using Reference Impulse Calibrator With Oscilloscope as per IEC 60060- 2, IEC 61180, IS 2071 Part 1 By Direct method	1 Ratio to 10000 Ratio	0.9 %
36	ELECTRO-TECHNICAL-EMI/ EMC (Source)	Voltage & Time (Impulse Measuring System)	Using Reference Impulse Calibrator as per IEC 61083 By Direct Method	SI : 50 Vp to 1000 Vp, T1 : 20 μs, T2 : 4000 μs	Vp : 0.76 %, T1 : 1.7 %, T2 : 1.7 %



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37	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Voltage & Time (PD pulse)	Using Resistance Box With Digital Oscilloscope By Comparison Method as per IS/IEC 60270	1 pC to 10000 pC	2.5 %



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using High Voltage Divider with Kilo Volt Meter With HV Source By Comparison Method	2 kV to 200 kV	0.91 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using Standard HV Divider With kV Meter By Direct Method	2 kV to 200 kV	1.8 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using Standard PT With Indicating Meter or HV Divider By Direct Method	500 V to 10 kV	1.6 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using AC High Voltage Measuring System 400kV With Multimeter With HV Source By Comparison Method	60 kV to 400 kV	1.51 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 60 Hz	Using High Voltage Divider with Kilo Volt Meter With HV Source By Comparison Method	2 kV to 12 kV	0.91 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kV to 10 kV @ 50 Hz	Using Capacitance & Tan Delta Bridge & Standard Capacitor By Comparison Method	50 pF to 1000 pF	0.28 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kV to 10 kV @ 50 Hz	Using Capacitance & Tan Delta Bridge By Direct Method	50 pF to 1000 pF	0.28 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kV to 5 kV @ 50 Hz	Using Capacitance & Tan Delta Bridge & Standard Capacitor By Comparison Method	1000 pF to 30 nF	0.28 % to 0.39 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kV to 5 kV @ 50 Hz	Using Capacitance & Tan Delta Bridge By Direct Method	1000 pF to 30 nF	0.28 % to 0.39 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance Up to 10 kV @ 50 Hz	Using Capacitance & Tan delta Bridge By Comparison Method	50 pF to 1000 pF	0.62 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance Up to 10 kV @ 50 Hz	Using Capacitance & Tan delta Bridge By Direct Method	50 pF, 100 pF, 1000 pF	0.65 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Tan Delta @ 1 kV to 5 kV @ 50 Hz	Using Capacitance & Tan Delta Bridge And Standard Capacitor With Tan Delta By Comparison Method	0.001 % to 3 %	0.000089 to 0.0000995
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Tan Delta @ 5 kV to 10 kV @ 50 Hz	Using Capacitance & Tan delta Bridge And Standard Capacitor With Tan Delta By Comparison Method:	3 % to 10 %	0.0000995 to 0.0009609
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Tan Delta Point Upto 10 kVA @ 50 Hz	Using Standard Capacitor With Tan Delta Point By Direct Method	0.05 % to 5 %	0.0006



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance Up to 10 kV @ 50 Hz	Using Standard Capacitor By Direct Method	25 pF to 1000 nF	0.3 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using High Voltage Divider with kilo Volt Meter with HV Source By Comparison Method	2 kV to 200 kV	0.95 %
17	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using Resistive Voltage Divider With kV Meter by Direct method	1 kV to 50 kV	2.1 %
18	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Measuring System - Lightning Impulse Voltage	Using Digital Impulse Voltage Measuring System with Capacitive High Voltage Divider with HV Source as per IEC 60060-2,IEC 61180,IEC 61083,IS: 2071Part 1 By Comparison Method	±1 kVp to ±800 kVp	1.7 %



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19	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Measuring System-Switching Impulse Voltage	Using Digital Impulse Voltage Measuring System with Capacitive High Voltage Divider with HV Source as per IEC 60060-2,IEC 61180,IEC 61083,IS: 2071Part 1 By Comparision Method	±1 kVp to ±600 kVp	1.7 %
20	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Volatge Measuring System, Digital Oscilloscope)- Chopped Impulse Voltage	Using Impulse Voltage Measuring System as per IEC 61083 by Comparision Method	±100 Vp to ±1600 Vp	0.9 %
21	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Voltage Measuring System , Digital Oscilloscope - Chopped Time TC	Using Impulse Voltage Measuring System as per IEC 61083 by Comparision Method	0.5 µS	1.8 %
22	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Voltage measuring System , Digital Oscilloscope - Lighning & Switching Impulse Voltage	Using Impulse Voltage Measuring System as per IEC 61083 by Comparision Method	±50 Vp to ±1600 Vp	0.7 %
23	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Voltage Measuring System ,Digital Oscillscope - Switching Impulse Front Time T1	Using Impulse Voltage Measuring System as per IEC 61083 by Comparision Method	20 µS	1.75 %



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24	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Voltage Measuring System,Digital Oscilloscope) - Lightning Impulse Tail Time T2	Using Impulse Voltage Measuring System as per IEC 61083 by Comparision Method	60 μ S	1.8 %
25	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Voltage Measuring System/Digital Oscilloscope - Switching Impulse Tail Time T2	Using Impulse Voltage Measuring System as per IEC 61083 by Comparision Method	4000 μ S	1.7 %
26	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Voltage measuring System,Digital Oscilloscope - Lightning Impulse Front Time T1	Using Impulse Voltage Measuring System as per IEC 61083 by Comparision Method	0.84 μ S	1.9 %
27	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Ratio of Impulse Voltage Divider / Probe	Using Unit Impulse Calibration Generator with Digital Impulse Voltage Measuring System as per IEC 60060-2 by Comparision Method	± 10 Vp to ± 1000 Vp	0.6 %
28	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impluse calibrator , Impluse generator - Lightning Impulse Tail Time T2	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	60 μ S	1.9 %



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29	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impluse calibrator , Impluse generator - Switching Impulse Time to Peak Tp	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	20 μ S	1.75 %
30	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impluse calibrator ,Impluse generator - Lightning Impulse Front Time T1	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	0.84 μ S	1.9 %
31	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impluse calibrator ,Impluse generator -Switching Impulse Tail Time T2	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	4000 μ S	1.71 %
32	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impluse calibrator,Impluse generator - Chopped Time TC	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	0.5 μ S	1.8 %
33	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impulse Calibrator , Impulse Generator -Lightning impulse chopped Voltage	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	\pm 100 Vp to \pm 1600 Vp	0.6 %
34	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impulse Calibrator , Impulse Generator -Lightning Impulse Voltage	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	\pm 50 Vp to \pm 1600 Vp	0.7 %



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GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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35	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Impulse Calibrator , Impulse Generator Voltage - Switching Impulse Voltage	Using Digital Impulse Voltage Measuring System as per IEC 61083 by Direct Method	50 Vp to 1600 Vp	0.7 %
36	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Scale Factor - High Voltage Divider / Probe	Using High Voltage Divider with Kilovolt meter & True RMS Multimeter	0.5 to 1.5	0.9 %
37	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Ratio (Impulse Measuring Sytem)	Using Impulse Analyzer with Impulse Voltage Divider as per IEC 60060-2, IEC 61180, IS:2071 Part 1 by Direct Method	1 kVp to 500 kVp	1.41 %
38	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Scale Factor (Impulse Voltage Divider / Probe)	Using Unit Step Generator With Oscilloscope as per IEC 60060-2 by Comparison method	10 Vp to 1000 Vp	0.6 %
39	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Voltage & Time (Impulse Measuring System)	Using Reference Impulse Calibrator as per IEC 61083 By Direct Method	LI : 80 Vp to 1000 Vp, T1 : 0.84 μs, T2 : 60 μs	V : 0.76 %, T1 : 1.7 %, T2 : 1.7 %



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40	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Voltage & Time (Impulse Measuring System)	Using Reference Impulse Calibrator & Digital Oscilloscope as per IEC 61083 By Comparison Method	LIC : 100 Vp to 1000 Vp, Chopped Time Tc : 0.5 μs	V : 0.76 %, Tc : 1.7 %
41	ELECTRO-TECHNICAL-EMI/ EMC (Source)	Scale Factor (Impulse Voltage Divider / Probe)	Using Reference Impulse Calibrator With Oscilloscope as per IEC 60060- 2, IEC 61180, IS 2071 Part 1 By Direct method	1 Ratio to 10000 Ratio	0.9 %
42	ELECTRO-TECHNICAL-EMI/ EMC (Source)	Voltage & Time (Impulse Measuring System)	Using Reference Impulse Calibrator as per IEC 61083 By Direct Method	SI : 50 Vp to 1000 Vp, T1 : 20 μs, T2 : 4000 μs	Vp : 0.76 %, T1 : 1.7 %, T2 : 1.7 %
43	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Voltage & Time (PD pulse)	Using Resistance Box With Digital Oscilloscope By Comparison Method as per IS/IEC 60270	1 pC to 10000 pC	2.5 %

* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of $k = 2$.