



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**SUDUTT ELECTRICAL TESTING LABORATORY (OPC)
PRIVATE LIMITED**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

SHED NO-11, 12, SURVEY NO-35, 0, GOTRI ROAD, GAYATRI PARTY PLOT, GOTRI, VADODARA,
GUJARAT, INDIA

in the field of

CALIBRATION

Certificate Number: CC-4335

Issue Date: 22/03/2025

Valid Until: 20/08/2026

This certificate supersedes the Certificate No. CC-4017 with issue date 21/08/2024 in view of change in premises of the laboratory.

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: SUDUTT ELECTRICAL TESTING LABORATORY (OPC) PRIVATE LIMITED

Signed for and on behalf of NABL



Anita Rani
Director

N. Venkateswaran
Chief Executive Officer



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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 standard PT with indicating meter or HV Divider by Direct Method	500 V to 10 kV	1.6 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kV to 10 kV @ 50 Hz	Using Capacitance & Tan delta bridge and standard capacitor by Comparison method	50 pF to 1000 pF	0.28 %
3	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 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kV to 5 kV @ 50 Hz	Using Capacitance & Tan delta bridge and standard capacitor by Comparison method	1000 pF to 30 nF	0.28 % to 0.39 %



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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 by Direct Method	1000 pF to 30 nF	0.28 % to 0.39 %
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance Up to 10 kV @ 50 Hz	Using Capacitance and Tan d Bridge By Comparison Method	50 pF to 1000 pF	0.62 %
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance Up to 10 kV @ 50 Hz	Using Capacitance And Tan d Bridge By Direct Method	50 pF, 100 pF, 1000 pF	0.65 %
8	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
9	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



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10	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 tan delta
11	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 %
12	ELECTRO-TECHNICAL- ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using Resistive Voltage Divider With kV Meter by Direct method	1 kV to 50 kV	2.1 %
13	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 %
14	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 %
15	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 %



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16	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 %
17	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 %
18	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Voltage & Time (PD pulse)	Using ResistanceBox 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 High Voltage @ 50 Hz	Using standard HV Divider with kV meter By Direct Method	2 kV to 200 kV	1.8 %
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 and 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 and standard capacitor by Comparison 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 and Tan d 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 And Tan d 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 Comparison 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 tan delta
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-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using Resistive Voltage Divider With kV Meter by Direct method	1 kV to 50 kV	2.1 %
14	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Ratio (Impulse Measuring System)	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 %



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15	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 %
16	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 μ s, T2 : 60 μ s	V : 0.76 %, T1 : 1.7 %, T2 : 1.7 %
17	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 μ s	V : 0.76 %, Tc : 1.7 %
18	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 %
19	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 μ s, T2 : 4000 μ s	Vp : 0.76 %, T1 : 1.7 %, T2 : 1.7 %
20	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Voltage & Time (PD pulse)	Using ResistanceBox With Digital Oscilloscope By Comparison Method as per IS/IEC 60270	1 pC to 10000 pC	2.5 %



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

