



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

1 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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 Current @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	0.5 mA to 1 mA	0.75 % to 0.50 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.30 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	1 mA to 100 mA	0.50 % to 0.16 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mA to 400 mA	0.24 % to 0.30 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 µA to 10 mA	0.75 % to 0.24 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	100 mA to 400 mA	0.16 % to 0.58 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

2 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	400 mA to 1 A	0.30 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	400 mA to 5 A	0.58 % to 0.40 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	5 A to 10 A	0.40 % to 0.70 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct Method	1 kV to 30 kV	6.09 % to 3.20 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1 kHz	Using LCR Meter by Direct Method	1 Ohm to 10 kohm	0.30 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	5.30 % to 0.60 %



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896 **Page No** 3 of 77

Validity 20/02/2026 to 19/02/2030 **Last Amended on** 07/04/2026

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13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	1 V to 1000 V	0.20 % to 0.15 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	10 mV to 100 mV	1.35 % to 0.25 %
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 V	0.60 % to 0.12 %
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	100 mV to 1 V	0.25 % to 0.20 %
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 V to 1000 V	0.12 % to 0.15 %
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Precision LCR Meter by Direct Method	100 pF to 1 µF	0.30 %



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 4 of 77

Last Amended on 07/04/2026

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19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance @ 100 Hz	Using Precision LCR Meter by Direct Method	1 μ F to 10 μ F	0.60 %
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using Precision LCR Meter by Direct Method	100 μ H to 10 H	0.30 %
21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	0.5 mA to 1 mA	0.72 % to 0.5 %
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	1 mA to 100 mA	0.5 % to 0.17 %
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	100 mA to 400 mA	0.17 % to 0.25 %
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator with Current Coil by Direct Method	20 A to 990 A	3 % to 3.87 %
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	400 mA to 5 A	0.25 % to 0.40 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

5 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	5 A to 10 A	0.40 % to 0.70 %
27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Decade Resistance Box by Direct Method	1 Ohm to 10 kohm	1.30 %
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	1 V to 1000 V	0.20 %
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	10 mV to 100 mV	1.35 % to 0.25 %
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	100 mV to 1 V	0.25 % to 0.20 %
31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	1 nF to 1 µF	1.30 %
32	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	1.30 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

6 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	0.5 mA to 1 mA	0.54 % to 0.40 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.15 % to 0.25 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	1 mA to 100 mA	0.40 % to 0.15 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 µA to 100 µA	0.5 % to 0.10 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 400 mA	0.10 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	100 mA to 400 mA	0.15 % to 0.19 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	3 A to 10 A	0.20 % to 0.25 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

7 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	400 mA to 1 A	0.10 % to 0.15 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	400 mA to 3 A	0.19 % to 0.20 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 25 kV	6.63 % to 3.22 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.02 % to 0.05 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digit Multimeter by Direct Method	10 kohm to 1 Mohm	0.02 % to 0.02 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.05 % to 0.95 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digit Multimeter by Direct Method	100 Mohm to 1 Gohm	0.95 % to 2.35 %



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UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 8 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	1 Ohm to 100 Ohm	0.40 % to 0.15 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Digital Multimeter by Direct Method	100 Ohm to 10 kohm	0.15 % to 0.02 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	4.57 % to 0.60 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	1 mV to 100 mV	4.14 % to 0.10 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.60 % to 0.10 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1000 V	0.1 % to 0.02 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter with Multifunction Calibrator by Comparison Method	100 mV to 20 V	0.10 % to 0.10 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

9 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	100 V to 500 V	0.35 % to 0.17 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	20 V to 100 V	0.10 % to 0.35 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	500 V to 1000 V	0.17 % to 0.10 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Multifunction Calibrator & 6½ Digit Multimeter by V/I Method	1 mohm to 1 Ohm	0.24 % to 0.20 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Function Calibrator by Direct Method	0.5 mA to 1 mA	0.45 % to 0.40 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	1 mA to 100 mA	0.40 % to 0.15 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	100 mA to 400 mA	0.15 %



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 10 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Digital Multifunction Calibrator, Current Coil (100 Turns) by Direct Method	20 A to 990 A	2.50 % to 2.50 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	3 A to 10 A	0.20 % to 0.25 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	400 mA to 3 A	0.15 % to 0.20 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	10 kohm to 10 Mohm	0.15 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Dc Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	10 Mohm to 100 Mohm	0.15 % to 0.85 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Dc Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	0.85 % to 1.1 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1000 V	Using Megaohm Box by Direct Method	2 Gohm	4 %



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UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 11 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1000 V	Using Megaohm Box by Direct Method	20 Gohm	4 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box By Direct Method	1 kohm	0.60 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 mohm	0.60 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 Ohm to 10 Ohm	0.25 % to 0.25 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box By Direct Method	10 Ohm to 10 kohm	0.25 % to 0.15 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	1 mV to 100 mV	4.10 % to 0.13 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	100 mV to 20 V	0.13 % to 0.18 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896 **Page No** 12 of 77

Validity 20/02/2026 to 19/02/2030 **Last Amended on** 07/04/2026

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75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	100 V to 500 V	0.35 % to 0.17 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	20 V to 100 V	0.18 % to 0.35 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Dc Voltage	Using Multifunction Calibrator by Direct Method	500 V to 1000 V	0.17 % to 0.13 %
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt 100)	Using Universal Calibrator by Direct Method	(-)-100 °C to 450 °C	1.3 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Universal Calibrator by Direct Method	600 °C to 1500 °C	3 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Universal Calibrator by Direct Method	(-)-100 °C to 600 °C	2 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Universal Calibrator by Direct Method	(-)-100 °C to 750 °C	2 °C



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UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

13 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Universal Calibrator by Direct Method	(-)-200 °C to 1200 °C	2 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Universal Calibrator by Direct Method	200 °C to 1200 °C	2.25 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Universal Calibrator by Direct Method	200 °C to 1600 °C	2.5 °C
85	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency @ 3 V	Using 6½ Digit Multimeter by Direct Method	10 Hz to 1 MHz	0.58 % to 0.06 %
86	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer Calibrator by Comparison Method	10 s to 86400 s	1.39 % to 0.12 %
87	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Generator by Direct Method	10 Hz to 3 MHz	2.89 % to 6.35 %
88	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Medium - Air)	Using LFE Gas Flow Calibrator by Comparison Method	1 SLPM to 100 SLPM	3 %



National Accreditation Board for Testing and Calibration Laboratories

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UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 14 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
89	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	>100 rpm to 3000 rpm	0.57 %rdg
90	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	>3000 rpm to 5000 rpm	0.24 %rdg
91	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	>5000 rpm to 6000 rpm	0.08 %rdg
92	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	50 rpm to 100 rpm	1.16 %rdg
93	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer / RPM Meter / RPM Indicator with Sensor (Non Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	>100 rpm to 1000 rpm	0.38 %rdg
94	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer / RPM Meter / RPM Indicator with Sensor (Non Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	>1000 rpm to 10000 rpm	0.17 %rdg
95	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer / RPM Meter / RPM Indicator with Sensor (Non Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	>10000 rpm to 90000 rpm	0.07 %rdg
96	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer / RPM Meter / RPM Indicator with Sensor (Non Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	50 rpm to 100 rpm	1.16 %rdg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 15 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
97	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Contact Type)	Using Digital Tachometer by Direct Method	>100 rpm to 3000 rpm	0.39 %rdg
98	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Contact Type)	Using Digital Tachometer by Direct Method	>3000 rpm to 5000 rpm	0.17 %rdg
99	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Contact Type)	Using Digital Tachometer by Direct Method	>5000 rpm to 6000 rpm	0.11 %rdg
100	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Contact Type)	Using Digital Tachometer by Direct Method	10 rpm to 100 rpm	1.68 %rdg
101	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Non Contact Type)	Using Digital Tachometer by Direct Method	>100 rpm to 1000 rpm	0.39 %rdg
102	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Non Contact Type)	Using Digital Tachometer by Direct Method	>1000 rpm to 10000 rpm	0.16 %rdg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 16 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
103	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Non Contact Type)	Using Digital Tachometer by Direct Method	>10000 rpm to 90000 rpm	0.07 %rdg
104	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Non Contact Type)	Using Digital Tachometer by Direct Method	10 rpm to 100 rpm	1.16 %rdg
105	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	114 dB	0.85 dB
106	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB	0.85 dB
107	MECHANICAL-DENSITY AND VISCOSITY	Flow Cup / Ford Cup	Using Stop Watch & Standard Liquid of Known Kinematic Viscosity by Comparison Method	30 cSt to 60 cSt	1.4 %
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Plug Gauge / Setting Plug Gauge	Using Comparator Stand, Slip Gauge & Electronic Probe With DRO by Comparison Method	2 mm to 100 mm	2.04 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Ring Gauge / Setting Ring Gauge	Using Length Measuring Machine by Comparison Method	3 mm to 100 mm	2.02 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 17 of 77

Last Amended on 07/04/2026

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)(±)
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate / Box Angle Plate (Flatness)	Using Lever Type Dial Gauge, Electronic Level, Surface Plate by Comparison Method	Up to 300 mm X 300 mm	4.30 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate / Box Angle Plate (Parallelism)	Using Surface Plate, Lever Type Dial Gauge by Comparison Method	Up to 300 mm X 300 mm	3.70 µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate / Box Angle Plate (Squareness)	Using Surface Plate, Lever Type Dial Gauge, Master Cylinder by Comparison Method	Up to 300 mm X 300 mm	4.70 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co - Axility of Centre)	Using Taper Mandrel, Parallel Mandrel & Lever Type Dial Gauge by Comparison Method	Up to 300 mm	3.34 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism of Centre)	Using Taper Mandrel, Parallel Mandrel & Lever Type Dial Gauge by Comparison Method	Up to 300 mm	3.34 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Angle Protractor (L.C.: 5' & Coarser)	Using Angle Gauge by Comparison Method	0° to 90°	3.86 minute of arc



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

18 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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)(±)
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Dial / Digital / Analog (L.C.: 0.01 mm & Coarser)	Using Caliper Checker, Slip Gauge Blocks by Direct Method	Up to 600 mm	9.25 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.1 µm & Coarser)	Using Standard Thickness Foils by Comparison Method	11 µm to 2 mm	1.95 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set / Angle Protractor (L.C.: 1°)	Using Angle Gauge by Direct Method	Up to 180°	34.65 minute of arc
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness (Circular)	Using Slip Gauge, Lever Dial by Direct Method	Up to 400 mm X 400 mm	2.30 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness (Square)	Using Slip Gauge, Lever Dial by Direct Method	Up to 400 mm X 400 mm	2.3 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould / Cylindrical Mould / Beam Mould (Length, Width & Height Measurement)	Using Digital Vernier Caliper by Comparison Method	200 mm X 200 mm	15.40 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 19 of 77

Last Amended on 07/04/2026

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)(±)
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master - Diameter	Using Electronic Probe with DRO, Comparator Stand, Slip Gauge Blocks by Comparison Method	3 mm to 100 mm	2.03 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master - Runout	Using Electronic Probe with DRO, Comparator Stand by Comparison Method	3 mm to 100 mm	3.8 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Dial / Digital / Analog) (L.C.: 0.01 mm)	Using Caliper Checker, Gauge Block, Length Bar by Comparison Method	0 to 300 mm	9 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Slip Gauge Block Set, Surface Plate, Length Bar by Direct Method	Up to 300 mm	5 µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	Up to 2 mm	1.02 µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge (L.C.: 0.001 mm)	Using Slip Gauge Blocks by Direct Method	1 mm to 160 mm	1.22 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

20 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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)(±)
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Slip Gauge Blocks by Direct Method	Up to 50 mm	1.0 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Bevel Angle Protractor (L.C.: 0.01°)	Using Angle Gauge Set by Comparison Method	0° to 90°	1.54 minute of arc
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Digital Vernier Caliper by Direct Method	6.3 mm to 50 mm	11.02 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square, Tri Square - Parallelism	Using Surface Plate & Dial Indicator by Direct Method	70 mm to 300 mm	5.5 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square, Tri Square - Squareness	Using Cylindrical Square, Dial Gauge & Gauge Block by Direct Method	70 mm to 300 mm	6.5 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square, Tri Square - Straightness	Using Surface Plate & Dial Indicator by Direct Method	70 mm to 300 mm	5.5 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 21 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Slip Gauge Block Set, Optical Flat by Comparison Method	Up to 100 mm	1.0 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Slip Gauge Block Set, Optical Flat, Length Bars by Comparison Method	>300 mm to 700 mm	3.63 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.001 mm & Coarser) Type	Using Slip Gauge Block Set, Optical Flat, Length Bars by Comparison Method	>100 mm to 300 mm	1.9 µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Gauge Block Electronic Probe with DRO and Comparator Stand by Comparison Method	0.01 mm to 1 mm	1.41 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Digital Vernier Caliper by Direct Method	6.3 mm to 63 mm	13.07 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block Accessories - Flatness	Using Optical Flat, Measuring Pin, Electronic Probe with DRO & Surface Plate by Direct Method as per IS:4440: 1996	Up to 50 mm	2 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 22 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block Accessories - Parallelism	Using Optical Flat, Measuring Pin, Electronic Probe with DRO & Surface Plate by Comparison Method as per IS:4440: 1996	Up to 50 mm	2 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Glass Angle Graticule	Using Profile Projector by Direct Method	0° to 360°	3.9 minute of arc
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Electronic Probe with DRO by Direct Method	Up to 0.1 mm	3.8 µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm & Coarser)	Using Caliper Checker, Slip Gauge Blocks, Surface Plate by Direct Method	Up to 600 mm	9.9 µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Template - Length	Using Digital Vernier Caliper by Direct Method	Up to 200 mm X 200 mm	12.46 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer Stick Type - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Slip Gauge Block, Slip Gauge Accessories by Comparison Method	50 mm to 300 mm	2.03 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 23 of 77

Last Amended on 07/04/2026

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)(±)
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Laser Distance Meter (L.C.: 0.1 mm)	Using Steel Slip Gauge Box by Comparison Method	0 to 500 mm	75.77 µm
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Dial Calibration Tester by Comparison Method	Up to 1 mm	1.03 µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Low Force Vernier Caliper (L.C.: 0.01 mm & Coarser)	Using Caliper Checker, Slip Gauge Blocks by Direct Method	0 to 200 mm	13.4 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 1 mm)	Using Tape & Scale Calibrator by Comparison Method	Up to 50 m	180 x Sqrt (L) µm, (L > 1000 mm) where L in "m"
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head (L.C.: 0.0002 mm)	Using Electronic Probe with DRO, Optical Flat by Direct Method	Up to 25 mm	1.4 µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard (Round & Flat Anvil)	Using Electronic Probe with DRO, Comparator Stand, Slip Gauge Block Set, Length Bar by Comparison Method	25 mm to 200 mm	2.29 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 24 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard (Round & Flat Anvil)	Using Electronic Probe with DRO, Comparator Stand, Length Bar By Comparison Method	>200 mm to 400 mm	2.88 µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Thread Plug Gauge / Wear Check Plug Gauge / Screw Check Plug Gauge - Effective Diameter	Using Floating Carriage Diameter Measuring Machine with DRO, OD Masters, Thread Measuring Wire by Comparison Method	2 mm to 100 mm	4.9 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PCD Gauge / CD Gauge / Brige Cam Gauge / Receiving Gauge / Jig & Fixture (Angle)	Using Profile Projector by Direct Method	0° to 360°	4.07 minute of arc
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PCD Gauge / CD Gauge / Brige Cam Gauge / Receiving Gauge / Jig & Fixture (Length)	Using Profile Projector By Direct Method	Up to 100 mm X150 mm	3.56 µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PCD Gauge / CD Gauge / Brige Cam Gauge / Receiving Gauge / Jig & Fixture (Radius)	Using Profile Projector by Direct Method	Up to 100 mm	3.59 µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pi Tape (L.C.: 1 mm)	Using Tape & Scale Calibrator By Direct Method	10 mm to 3000 mm	180 x Sqrt (L) µm, where (L> 1000 mm) and L is in "m"



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 25 of 77

Last Amended on 07/04/2026

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)(±)
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C.: 0.01	Using Slip Gauge Block Set By Direct Method	0 to 100 mm	10.0 µm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Electronic Probe with DRO, Slip Gauge Block by Comparison Method	2 mm to 200 mm	2.19 µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine, Ring Gauge by Comparison Method	3 mm to 100 mm	2.9 µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Dial Calibration Tester by Comparison Method	Up to 25 mm	1.03 µm
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge - Analog / Digital (L.C.: 0.01 mm & Coarser)	Using Slip Gauge & Comparator Stand by Comparison Method	0 to 100 mm	7.26 µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge / Radius Measurement	Using Profile Projector by Direct Method	>25 mm to 40 mm	4.0 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896 **Page No** 26 of 77

Validity 20/02/2026 to 19/02/2030 **Last Amended on** 07/04/2026

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)(±)
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge / Radius Measurement	Using Profile Projector by Direct Method	0.6 mm to 25 mm	3.5 µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone (Diameter, Length & Thickness)	Using Digital Caliper By Direct Method	0 to 200 mm	12.52 µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using Slip Gauge Blocks by Comparison Method	3 mm to 250 mm	2.95 µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level (Sensitivity: 20 µm/m)	Using Surface Plate, Tilting Table, Electronic Level by Comparison Method	Up to 300 mm (Base Length)	12 µm/m
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Thickness Foil	Using Electronic Probe with DRO, Comparator Stand by Comparison Method	0.01 mm to 2 mm	1.7 µm
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale (L.C.: 0.5 mm and Coarser)	Using Tape & Scale Calibrator by Comparison Method	Up to 1000 mm	180 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

27 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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)(±)
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step Gauge	Using Electronic Probe with DRO, Comparator Stand, Gauge Block by Comparison Method	1 mm to 20 mm	1.97 µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism of Working Surface)	Using Lever Type Dial Gauge, Gauge Block, Surface Plate by Comparison Method	Up to 300 mm X 300 mm	6.35 µm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straighthness of Working Surface)	Using Lever Type Dial Gauge, Electronic Level Meter, Gauge Block, Surface Plate by Comparison Method	Up to 300 mm X 300 mm	6.40 µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale (L.C.: 0.1 mm & Coarser)	Using Profile Projector by Direct Method	Up to 30 mm	58 µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge / Wear Check Plug Gauge - Effective Diameter	Using Floating Carriage Diameter Measuring Machine with DRO, OD Masters, Thread Measuring Wire by Comparison Method	2 mm to 100 mm	5 µm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Vernier Caliper by Direct Method	>10 mm to 125 mm	12.45 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 28 of 77

Last Amended on 07/04/2026

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)(±)
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by Comparison Method	0.025 mm to 10 mm	4 µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Electronic Probe with DRO, Comparator Stand by Comparison Method	0.17 mm to 6.35 mm	1.5 µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Angle	Using Profile Projector by Direct Method	55° and 60°	21 second of arc
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Pitch	Using Profile Projector by Direct Method	0.4 mm to 6 mm	3.52 µm
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge / Wear Check Ring Gauge - Effective Diameter	Using Length Measuring Machine, Ring Gauge by Comparison Method	3 mm to 100 mm	2.13 µm
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Two Pin Dial Caliper / Inside Caliper (L.C.: 0.01 mm & Coarser)	Using Slip Gauge Block Set, Slip Gauge Accessories Set by Direct Method	10 mm to 200 mm	9.52 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 29 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.1 mm)	Using Steel Slip Gauge and Length Bar by Comparison Method	0.5 mm to 300 mm	55 µm
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Magnetic / Parallel) - Flatness	Using Lever Type Dial Gauge & Surface Plate by Comparison Method	40 mm to 150 mm	3.50 µm
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Magnetic / Parallel) - Squareness	Using Lever Type Dial Gauge, Master Cylinder, Gauge Block & Surface Plate by Comparison Method	40 mm to 150 mm	4.5 µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Magnetic / Parallel) - Symmetricity	Using Test Mandrel, Lever Type Dial Gauge & Surface Plate by Comparison Method	40 mm to 150 mm	3.5 µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Magnetic / Parallel) - Parallelism	Using Lever Type Dial Gauge & Surface Plate by Comparison Method	40 mm to 150 mm	3.5 µm
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper - Dial / Digital / Analog (L.C.: 0.01 mm)	Using Caliper Checker, Slip Gauge Blocks by Direct Method	0 to 150 mm	8.21 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 30 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper - Dial / Digital / Analog (L.C.: 0.01 mm & Coarser)	Using Caliper Checker, Slip Gauge Blocks by Direct Method	Up to 600 mm	9.25 µm
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Depth Gauge - Dial / Analog / Digital (L.C.: 0.01 mm & Coarser)	Using Slip Gauge Blocks, Caliper Checker, Surface Plate by Direct Method	Up to 300 mm	8.5 µm
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge / Fillet Welding Gauge - Angle (L.C.: 1°)	Using Profile Projector by Direct Method	Up to 90°	34.86 minute of arc
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge / Fillet Welding Gauge - Linear (L.C.: 1 mm & Coarser)	Using Profile Projector by Comparison Method	Up to 60 mm	290 µm
192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Direct Method	0.1 mm to 10 mm	6.0 µm
193	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (L.C.: 0.0001 mm) - Linear	Using Caliper Checker, Gauge Block, Length Bar by Comparison Method	0 to 300 mm	5.2 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 31 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
194	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (L.C.: 0.0001 mm) - Squareness	Using Lever Type Dial Gauge, Cylindrical Square and Surface Plate by Comparison Method	0 to 300 mm	3.46 µm
195	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester / Dial Gauge Calibrator (L.C.: 0.0001 mm) - Drum Accuracy	Using Gauge Block Set & Electronic Probe with DRO by Comparison Method	0 to 25 mm	0.50 µm
196	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester / Dial Gauge Calibrator (L.C.: 0.0002 mm & Coarser)	Using Electronic Probe with DRO by Direct Method	Up to 25 mm	0.6 µm
197	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Digital Indicator / LVDT / Electronic Comparator (Dial & Digital) (L.C.: 0.0001 mm)	Using Gauge Block Set & Comparator Stand by Comparison Method	0 to 25 mm	1.62 µm
198	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Level Meter (Sensitivity: 10 µm/m)	Using Electronic Level Meter by Comparison Method	0 to 2 mm	7.57 µm/m
199	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO (L.C.: 0.0001 mm & Coarser)	Using Slip Gauge Block Set with Comparator Stand by Direct Method	Up to 25 mm	1.63 µm
200	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block (Grade: 0 , Steel & Carbide)	Using Gauge Block Calibrator, Slip Gauge Block (Grade - K) by Comparison Method	0.5 mm to 10 mm	0.15 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 32 of 77

Last Amended on 07/04/2026

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)(±)
201	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block (Grade: 0, Steel & Carbide)	Using Gauge Block Calibrator, Slip Gauge Block (Grade - K) by Comparison Method	>10 mm to 50 mm	0.27 µm
202	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block (Grade: 0, Steel & Carbide)	Using Gauge Block Calibrator, Slip Gauge Block (Grade - K) by Comparison Method	>50 mm to 100 mm	0.51 µm
203	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar (Round & Flat Anvil)	Using Electronic Probe with DRO, Comparator Stand, Gauge Block Set, Length Bar & Surface Plate by Comparison Method	25 mm to 100 mm	2.03 µm
204	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Long Gauge Block (Round & Flat Anvil)	Using Electronic Probe with DRO, Length Bar, Comparator Stand by Comparison Method	>200 mm to 300 mm	2.56 µm
205	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Long Gauge Block (Round & Flat Anvil)	Using Electronic Probe with DRO, Comparator Stand, Length bar by Comparison Method	300 mm to 400 mm	2.88 µm
206	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / LongGauge Block (Round & Flat Anvil)	Using Electronic Probe with DRO, Comparator Stand, Gauge Block Set, Length Bar by Comparison Method	>100 mm to 200 mm	2.28 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 33 of 77

Last Amended on 07/04/2026

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)(±)
207	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine (L.C.: 0.0001 mm)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	0.6 µm
208	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope (Length - X & Y)	Using Glass Scale by Direct Method	0 to 40 mm	1.35 µm
209	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnification	Using Glass Scale by Comparison Method	0 to 50 X	1.34 %
210	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine ((L.C.: 0.001 mm & Coarser) - Linear (X & Y)	Using Glass Scale by Direct Method	Up to 150 mm	3 µm
211	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Angular (L.C.: 18 second of arc)	Using Angle Gauge by Direct Method	Up to 360 °	50 second of arc
212	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Magnification	Using Glass Scale, Slip Gauge & Digital Vernier Caliper by Comparison Method	Up to 50 X	1.68 %
213	MECHANICAL-DUROMETER	Rubber Hardness Tester - Shore A	Using Rubber Hardness Calibrator by Spring Force Calibration Method	0 to 100 Shore A	1.9 Shore
214	MECHANICAL-DUROMETER	Rubber Hardness Tester - Shore D	Using Rubber Hardness Calibrator by Spring Force Calibration Method	0 to 100 Shore D	1.9 Shore



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896 **Page No** 34 of 77

Validity 20/02/2026 to 19/02/2030 **Last Amended on** 07/04/2026

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)(±)
215	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester / Portable Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2025	HRA	1 HRA
216	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester / Portable Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2): 2018	HRBW	1.6 HRBW
217	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester / Portable Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2025	HRC	0.99 HRC
218	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge / Force Gauge	Using Newtonian Weights as per VDI/VDE 2624 (Part-2.1) & JIS B: 7602	10 N to 100 N	0.9 %
219	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge / Force Gauge	Using Newtonian Weights as per VDI/VDE 2624 (Part-2.1) & JIS B: 7602	100 N to 1000 N	0.25 %
220	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Analog / Digital Pressure Gauge, Pressure Transmitter with or without Indicator, Pressure Transducer with or without Indicator, Pressure Recorder, Pressure Switch	Using Digital Pressure Gauge, Comparator Pump, Digital Pressure Calibrator & 6½ Digit Multimeter by Comparison Method based on DKD R 6-1	0 to 70 bar	0.05 bar



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 35 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
221	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Analog / Digital Pressure Gauge, Pressure Transmitter with or without Indicator, Pressure Transducer with or without Indicator, Pressure Recorder, Pressure Switch	Using Digital Pressure Gauge, Comparator Pump, Digital Pressure Calibrator & 6½ Digit Multimeter by Comparison Method based on DKD R 6-1	0 to 700 bar	1.4 bar
222	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge	Using Digital Pressure Calibrator, Hand Pressure Pump by Comparison Method based on DKD R 6-1	0 to 5000 Pa	5.0 Pa
223	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Analog / Digital Vacuum Gauge, Vacuum Transmitter with or without Indicator, Vacuum Transducer with or without Indicator, Vacuum Switch	Using Digital Pressure Gauge, Comparator Pump, Digital Pressure Calibrator & 6½ Digit Multimeter by Comparison Method based on DKD R 6-1	(-)0.9 bar to 0	0.009 bar
224	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Analog / Digital Pressure Gauge, Pressure Transmitter with or without Indicator, Pressure Transducer with or without Indicator, Pressure Recorder, Pressure Switch	Using Digital Pressure Gauge, Comparator Pump, Digital Pressure Calibrator & 6½ Digit Multimeter by Comparison Method based on DKD R 6-1	0 to 10 bar	0.02 bar



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 36 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
225	MECHANICAL-TORQUE GENERATING DEVICES	Dial Torque Wrench, Torque Wrench (Type I - Class B, C), (Type II - Class A, B)	Using Torque Sensor & Indicator with Torque Wrench Calibrator by Comparison Method as per ISO 6789 (Part 2) : 2017	>20 Nm to 200 Nm	0.7 %
226	MECHANICAL-TORQUE GENERATING DEVICES	Dial Torque Wrench, Torque Wrench (Type I - Class B, C), (Type II - Class A, B)	Using Torque Sensor & Indicator with Torque Wrench Calibrator by Comparison Method as per ISO 6789 (Part 2) : 2017	>200 Nm to 2000 Nm	0.6 %
227	MECHANICAL-TORQUE GENERATING DEVICES	Dial Torque Wrench, Torque Wrench, Torque Screw Driver (Type I - Class B, C), (Type II - Class A, B)	Using Torque Sensor & Indicator with Torque Wrench Calibrator by Comparison Method as per ISO 6789 (Part 2) : 2017	>2 Nm to 20 Nm	0.9 %
228	MECHANICAL-TORQUE GENERATING DEVICES	Dial Torque Wrench, Torque Wrench, Torque Screw Driver (Type I - Class B, C), (Type II - Class A, B)	Using Torque Sensor & Indicator with Torque Wrench Calibrator by Comparison Method as per ISO 6789 (Part 2) : 2017	0.2 Nm to 2 Nm	4 %
229	MECHANICAL-VOLUME	Micropipette (Piston type), Burette, Syringe (For Non Medical Purpose only)	Using Weighing Balance (Readability: 0.01 mg), Distilled Water by Gravimetric Method as per ISO 8655-6:2022	20 µl to 1000 µl	1.21 µl



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 37 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
230	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Volumetric Flask, Jar, Beaker, Container, Syringe (For Non Medical purpose only)	Using Weighing Balance (Readability: 0.1 mg), Distilled Water based on Gravimetric Method as per ISO 4787:2021	>50 ml to 100 ml	4.5 µl
231	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Volumetric Flask, Jar, Beaker, Container, Syringe (For Non Medical Purpose only)	Using Electronic Weighing Balance (Readability: 0.01 mg) and Distilled Water by Gravimetric Method based on ISO 4787: 2021	>10 ml to 50 ml	4.42 µl
232	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Volumetric Flask, Jar, Beaker, Container, Syringe (For Non Medical Purpose only)	Using Weighing Balance (Readability: 0.001 g), Distilled Water based on Gravimetric Method as per ISO 4787:2021	>100 ml to 1000 ml	4.9 µl
233	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Volumetric Flask, Jar, Beaker, Container, Syringe (For Non Medical Purpose only)	Using Weighing Balance (Readability: 0.001 g), Distilled Water based on Gravimetric Method as per ISO 4787:2021	>1000 ml to 2000 ml	7.50 µl



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 38 of 77

Last Amended on 07/04/2026

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)(±)
234	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Volumetric Flask, Jar, Beaker, Container, Syringe (For Non Medical Purpose only)	Using Weighing Balance (Readability: 0.01 mg), Distilled Water based on Gravimetric Method as per ISO 4787:2021	1 ml to 10 ml	0.37 µl
235	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class II (Readability: 10 mg)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	Up to 5.2 kg	100 mg
236	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class II and Coarser (Readability : 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	Up to 100 g	0.07 mg
237	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class II and Coarser (Readability : 1 mg)	Using E1 & F1 Class Weights by Comparison Method as per OIML R 76-1	Up to 1 kg	2 mg
238	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class II and Coarser (Readability: 0.1 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	Up to 200 g	0.3 mg
239	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class III (Readability: 1 g & 2 g)	Using F1 & M1 Weights by Comparison Method as per OIML R 76-1	Up to 75 kg	5 g



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 39 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
240	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class III and Coarser (Readability : 0.5 g)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	Up to 30 kg	1.3 g
241	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class IIII (Readability : 10 g)	Using F1 & M1 Class Weights by Comparison Method as per OIML R 76-1	Up to 200 kg	14 g
242	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class IIII (Readability: 0.005 kg)	Using F1 & M1 Class Weights by Comparison Method as per OIML R-76-1	Up to 100 kg	10 g
243	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale Scale & Balance - Accuracy Class II and Coarser (Readability: 1 mg)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	Up to 3 kg	11 mg
244	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	1 g	0.02 mg
245	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	10 g	0.02 mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 40 of 77

Last Amended on 07/04/2026

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)(±)
246	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	100 g	0.10 mg
247	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	100 mg	0.01 mg
248	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	2 g	0.02 mg
249	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	20 g	0.02 mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 41 of 77

Last Amended on 07/04/2026

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)(±)
250	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	20 mg	0.01 mg
251	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	200 g	0.10 mg
252	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	200 mg	0.02 mg
253	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	5 g	0.02 mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 42 of 77

Last Amended on 07/04/2026

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)(±)
254	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	50 g	0.02 mg
255	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	50 mg	0.01 mg
256	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	500 mg	0.02 mg
257	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using F1 Class Weight, Weighing Balance (Readability : 1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	1 kg	5 mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 43 of 77

Last Amended on 07/04/2026

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)(±)
258	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	1 mg	0.01 mg
259	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	10 mg	0.010 mg
260	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using F1 Class Weight, Weighing Balance (Readability : 1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	2 kg	5 mg
261	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	2 mg	0.010 mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 44 of 77

Last Amended on 07/04/2026

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)(±)
262	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	5 mg	0.010 mg
263	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using F1 Class Weight, Weighing Balance (Readability : 1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	500 g	2.5 mg
264	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Indicator with Sensor of Humidity Chamber, Environmental Chamber, Humidity Generator, Stability Chamber, Humidity Calibrator - Single Position Calibration	Using Temperature & Humidity Probe with Indicator by Comparison Method	10 °C to 50 °C @ 50 %rh	0.54 °C
265	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Indicator with Sensor, Humidity Meter, Digital Thermo Hygrometer, RH Sensor with Indicator, Humidity Recorder / Controller / Data Logger with Sensor	Using Digital Temperature and RH Indicator with Sensor & Temperature and Humidity Generator by Comparison Method	10 °C to 50 °C @ 50 %rh	0.86 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896 **Page No** 45 of 77

Validity 20/02/2026 to 19/02/2030 **Last Amended on** 07/04/2026

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)(±)
266	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Indicator with Sensor, Humidity Meter, Digital Thermo Hygrometer, RH Sensor with Indicator, Humidity Recorder / Controller / Data Logger with sensor	Using Digital Temperature and RH Indicator with Sensor, Temperature and Humidity Generator by Comparison Method	20 %rh to 90 %rh @ 25 °C	2.23 %rh
267	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Indicator with Sensor of Humidity Chamber, Environmental Chamber, Humidity Generator, Stability Chamber, Humidity Calibrator - Single Position Calibration	Using Temperature & Humidity Indicator with Probe by Comparison Method	20 %rh to 90 %rh @ 25 °C	2 %rh
268	THERMAL-TEMPERATURE	Black Body Source (Emissivity: 0.95)	Using Infrared Thermometer by Comparison Method	300 °C to 500 °C	4 °C
269	THERMAL-TEMPERATURE	Black Body Source (Emissivity: 0.95)	Using Infrared Thermometer by Comparison Method	50 °C to 300 °C	3.81 °C
270	THERMAL-TEMPERATURE	Digital / Dial Temperature Gauge, Temperature Transmitter with or without Indicator	Using Liquid Bath, RTD with Indicator & 6½ Digit Multimeter by Comparison Method	(-)40 °C to 50 °C	0.84 °C
271	THERMAL-TEMPERATURE	Digital / Dial Temperature Gauge, Temperature Transmitter with or without Indicator	Using Liquid Bath, RTD with Indicator & 6½ Digit Multimeter by Comparison Method	>50 °C to 250 °C	1.21 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 46 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
272	THERMAL-TEMPERATURE	Infrared Thermometer / Pyrometer / Thermal Imaging Camera (for temperature only) (Emissivity: 0.95)	Using Infrared Thermometer With Black Body Furnace by Comparison Method	100 °C to 500 °C	4.5 °C
273	THERMAL-TEMPERATURE	Infrared Thermometer / Pyrometer / Thermal Imaging Camera (for temperature only) - Emissivity : 0.95	Using Infrared Thermometer With Black Body Furnace by Comparison Method	50 °C to 100 °C	2.5 °C
274	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD with Indicator & Liquid Bath by Comparison Method	(-)40 °C to 50 °C	0.2 °C
275	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD with Indicator & Liquid Bath by Comparison Method	50 °C to 250 °C	0.2 °C
276	THERMAL-TEMPERATURE	RTD, Temperature Transmitter, Thermocouple with or without Indicator / Controller / Recorder, Temperature Indicator with Sensor, Recorder with Sensor, Digital Thermometer	Using Liquid Bath, RTD with Indicator, 6½ Digit Multimeter by Comparison Method	(-)40 °C to 50 °C	0.20 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896 **Page No** 47 of 77

Validity 20/02/2026 to 19/02/2030 **Last Amended on** 07/04/2026

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)(±)
277	THERMAL-TEMPERATURE	RTD, Temperature Transmitter, Thermocouple with or without Indicator / Controller / Recorder, Temperature Indicator with Sensor, Recorder with Sensor, Digital Thermometer	Using RTD with Indicator, Temperature Dry Block Calibrator, 6½ Digit Multimeter by Comparison Method	>100 °C to 400 °C	1.01 °C
278	THERMAL-TEMPERATURE	RTD, Temperature Transmitter, Thermocouple with or without Indicator / Controller / Recorder, Temperature Indicator with Sensor, Recorder with Sensor, Digital Thermometer	Using RTD with Indicator & Liquid Bath by Comparison Method	50 °C to 250 °C	0.34 °C
279	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Deep Freezer / Freezer / Refrigerator, Walk in Chamber, Chiller, BOD Incubator / Bacteriological Incubator / Oven / Liquid Bath / Dry Block, Cold Room / Environmental Chamber	Using RTD Sensor with Indicator by Comparison Method	(-)-80 °C to 50 °C	0.84 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 48 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
280	THERMAL-TEMPERATURE	Temperature indicator with Sensor of Dry Block Bath / Dry Well / Furnace / High Temperature Bath / Muffle Furnace - Single Position Calibration	Using S Type Thermocouple with Indicator by Comparison Method	400 °C to 999 °C	2.18 °C
281	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Dry Block Bath / Dry Well / Furnace / High Temperature Bath / Muffle Furnace - Single Position Calibration	Using S Type Thermocouple with Indicator by Comparison Method	>999 °C to 1200 °C	2.18 °C
282	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Oven, Hot Air Oven / Incubator / BOD Incubator / Microbiological Incubator / Autoclave (for non medical purpose only), Liquid Bath / Water Bath / Dry Block Bath / Furnace / Temperature Bath - Single Position Calibration	Using RTD Sensor with Indicator by Comparison Method	37 °C to 400 °C	1.18 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896 **Page No** 49 of 77

Validity 20/02/2026 to 19/02/2030 **Last Amended on** 07/04/2026

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)(±)
283	THERMAL-TEMPERATURE	Temperature Transmitter, Thermocouple with or without Indicator / Controller / Recorder, Temperature Indicator with Sensor, Recorder with Sensor, Digital Thermometer	Using Dry Block Calibrator, S Type Thermocouple with Indicator & 6½ Digit Multimeter by Comparison Method	>400 °C to 1185 °C	1.88 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 50 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Active Energy @ (50 Hz, 240 V, 1 A to 5 A, 0.5 Lag / Lead to UPF)	Using Energy Logger by Direct Method	120 Wh to 1.2 kWh	1.65 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Active Power @ (50 Hz, 240 V, 1 A to 20 A, UPF to 0.5 Lag / Lead)	Using Energy Logger by Direct Method	120 W to 4.8 kW	5.17 % to 1.8 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Active Energy @ (50 Hz, 240V, 1 A to 5 A, 0.5 Lag / Lead to UPF)	Using Energy Logger by Direct Method	360 Wh to 3.6 kWh	1.65 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Active Power @ (50 Hz, 240 V, 1 A to 20 A, UPF to 0.5 Lag / Lead)	Using Energy Logger by Direct Method	360 W to 14.4 kW	5.18 % to 1.8 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	0.5 mA to 1 mA	0.75 % to 0.50 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.30 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

51 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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)(±)
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	1 mA to 100 mA	0.50 % to 0.16 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using High Current Shunt With Using 6½ Digit Multimeter by VI Method	10 A to 100 A	6.70 % to 2.45 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mA to 400 mA	0.24 % to 0.30 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 µA to 10 mA	0.75 % to 0.24 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	100 mA to 400 mA	0.16 % to 0.58 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	400 mA to 1 A	0.30 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

52 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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)(±)
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	400 mA to 5 A	0.58 % to 0.40 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	5 A to 10 A	0.40 % to 0.70 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @ 50 Hz	Using High Current Shunt With 6½ Digit Multimeter by VI Method	100 A to 1000 A	2.45 % to 2.61 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct Method	1 kV to 30 kV	6.09 % to 3.20 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1 kHz	Using LCR Meter by Direct Method	1 Ohm to 10 kohm	0.30 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	5.30 % to 0.60 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

53 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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)(±)
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	1 V to 1000 V	0.20 % to 0.15 %
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	10 mV to 100 mV	1.35 % to 0.25 %
21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 V	0.60 % to 0.12 %
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	100 mV to 1 V	0.25 % to 0.20 %
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 V to 1000 V	0.12 % to 0.15 %
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Precision LCR Meter by Direct Method	100 pF to 1 µF	0.30 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 54 of 77

Last Amended on 07/04/2026

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)(±)
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance @ 100 Hz	Using Precision LCR Meter by Direct Method	1 μ F to 10 μ F	0.60 %
26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using Precision LCR Meter by Direct Method	100 μ H to 10 H	0.30 %
27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz (240V, 5A) (Lead / Lag)	Using Energy Logger by Direct Method	0.2 PF to 1 PF	0.05 PF
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	0.5 mA to 1 mA	0.72 % to 0.5 %
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	1 mA to 100 mA	0.5 % to 0.17 %
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	100 mA to 400 mA	0.17 % to 0.25 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

55 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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)(±)
31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator with Current Coil by Direct Method	20 A to 990 A	3 % to 3.87 %
32	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	400 mA to 5 A	0.25 % to 0.40 %
33	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	5 A to 10 A	0.40 % to 0.70 %
34	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Decade Resistance Box by Direct Method	1 Ohm to 10 kohm	1.30 %
35	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	1 V to 1000 V	0.20 %
36	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	10 mV to 100 mV	1.35 % to 0.25 %
37	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	100 mV to 1 V	0.25 % to 0.20 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

56 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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)(±)
38	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	1 nF to 1 µF	1.30 %
39	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	1.30 %
40	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	0.5 mA to 1 mA	0.54 % to 0.40 %
41	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.15 % to 0.25 %
42	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	1 mA to 100 mA	0.40 % to 0.15 %
43	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 µA to 100 µA	0.5 % to 0.10 %
44	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using High Current Shunt With 6½ Digit Multimeter by VI Method	10 A to 400 A	2.45 % to 2.40 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 57 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 400 mA	0.10 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	100 mA to 400 mA	0.15 % to 0.19 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	3 A to 10 A	0.20 % to 0.25 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	400 mA to 1 A	0.10 % to 0.15 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	400 mA to 3 A	0.19 % to 0.20 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 25 kV	6.63 % to 3.22 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.02 % to 0.05 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 58 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digit Multimeter by Direct Method	10 kohm to 1 Mohm	0.02 % to 0.02 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.05 % to 0.95 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digit Multimeter by Direct Method	100 Mohm to 1 Gohm	0.95 % to 2.35 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	1 Ohm to 100 Ohm	0.40 % to 0.15 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Digital Multimeter by Direct Method	100 Ohm to 10 kohm	0.15 % to 0.02 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	4.57 % to 0.60 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	1 mV to 100 mV	4.14 % to 0.10 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 59 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.60 % to 0.10 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1000 V	0.1 % to 0.02 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter with Multifunction Calibrator by Comparison Method	100 mV to 20 V	0.10 % to 0.10 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	100 V to 500 V	0.35 % to 0.17 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	20 V to 100 V	0.10 % to 0.35 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter With Multifunction Calibrator by Comparison Method	500 V to 1000 V	0.17 % to 0.10 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Function Calibrator by Direct Method	0.5 mA to 1 mA	0.45 % to 0.40 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 60 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	1 mA to 100 mA	0.40 % to 0.15 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	100 mA to 400 mA	0.15 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Digital Multifunction Calibrator, Current Coil (100 Turns) by Direct Method	20 A to 990 A	2.50 % to 2.50 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	3 A to 10 A	0.20 % to 0.25 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	400 mA to 3 A	0.15 % to 0.20 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	10 kohm to 10 Mohm	0.15 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Dc Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	10 Mohm to 100 Mohm	0.15 % to 0.85 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

61 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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)(±)
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Dc Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	0.85 % to 1.1 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1000 V	Using Megaohm Box by Direct Method	2 Gohm	4 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1000 V	Using Megaohm Box by Direct Method	20 Gohm	4 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box By Direct Method	1 kohm	0.60 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 mohm	0.60 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 Ohm to 10 Ohm	0.25 % to 0.25 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box By Direct Method	10 Ohm to 10 kohm	0.25 % to 0.15 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896 **Page No** 62 of 77

Validity 20/02/2026 to 19/02/2030 **Last Amended on** 07/04/2026

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)(±)
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	1 mV to 100 mV	4.10 % to 0.13 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	100 mV to 20 V	0.13 % to 0.18 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	100 V to 500 V	0.35 % to 0.17 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	20 V to 100 V	0.18 % to 0.35 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Dc Voltage	Using Multifunction Calibrator by Direct Method	500 V to 1000 V	0.17 % to 0.13 %
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Universal Calibrator by Direct Method	600 °C to 1500 °C	3 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Universal Calibrator by Direct Method	(-)-100 °C to 600 °C	2 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896 **Page No** 63 of 77

Validity 20/02/2026 to 19/02/2030 **Last Amended on** 07/04/2026

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)(±)
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Universal Calibrator by Direct Method	(-)-100 °C to 750 °C	2 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Universal Calibrator by Direct Method	(-)-200 °C to 1200 °C	2 °C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Universal Calibrator by Direct Method	200 °C to 1200 °C	2.25 °C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Universal Calibrator by Direct Method	200 °C to 1600 °C	2.5 °C
91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency @ 3 V	Using 6½ Digit Multimeter by Direct Method	10 Hz to 1 MHz	0.58 % to 0.06 %
92	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer Calibrator by Comparison Method	10 s to 86400 s	1.39 % to 0.12 %
93	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Generator by Direct Method	10 Hz to 3 MHz	2.89 % to 6.35 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896 **Page No** 64 of 77

Validity 20/02/2026 to 19/02/2030 **Last Amended on** 07/04/2026

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)(±)
94	FLUID FLOW- FLOW MEASURING DEVICES	Volume Flow Rate (Medium - Water)	Using Portable Ultrasonic Flow Meter by Comparison Method	1 m ³ /hr to 123 m ³ /hr	9.98 %
95	MECHANICAL- ACCELERATION AND SPEED	Digital Tachometer (Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	>100 rpm to 3000 rpm	0.57 %rdg
96	MECHANICAL- ACCELERATION AND SPEED	Digital Tachometer (Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	>3000 rpm to 5000 rpm	0.24 %rdg
97	MECHANICAL- ACCELERATION AND SPEED	Digital Tachometer (Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	>5000 rpm to 6000 rpm	0.08 %rdg
98	MECHANICAL- ACCELERATION AND SPEED	Digital Tachometer (Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	50 rpm to 100 rpm	1.16 %rdg
99	MECHANICAL- ACCELERATION AND SPEED	Digital Tachometer / RPM Meter / RPM Indicator with Sensor (Non Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	>100 rpm to 1000 rpm	0.38 %rdg
100	MECHANICAL- ACCELERATION AND SPEED	Digital Tachometer / RPM Meter / RPM Indicator with Sensor (Non Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	>1000 rpm to 10000 rpm	0.17 %rdg
101	MECHANICAL- ACCELERATION AND SPEED	Digital Tachometer / RPM Meter / RPM Indicator with Sensor (Non Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	>10000 rpm to 90000 rpm	0.07 %rdg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 65 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
102	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer / RPM Meter / RPM Indicator with Sensor (Non Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	50 rpm to 100 rpm	1.16 %rdg
103	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Contact Type)	Using Digital Tachometer by Direct Method	>100 rpm to 3000 rpm	0.39 %rdg
104	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Contact Type)	Using Digital Tachometer by Direct Method	>3000 rpm to 5000 rpm	0.17 %rdg
105	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Contact Type)	Using Digital Tachometer by Direct Method	>5000 rpm to 6000 rpm	0.11 %rdg
106	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Contact Type)	Using Digital Tachometer by Direct Method	10 rpm to 100 rpm	1.68 %rdg
107	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Non Contact Type)	Using Digital Tachometer by Direct Method	>100 rpm to 1000 rpm	0.39 %rdg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 66 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
108	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Non Contact Type)	Using Digital Tachometer by Direct Method	>1000 rpm to 10000 rpm	0.16 %rdg
109	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Non Contact Type)	Using Digital Tachometer by Direct Method	>10000 rpm to 90000 rpm	0.07 %rdg
110	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge / RPM Calibrator / Tachometer Calibrator (Non Contact Type)	Using Digital Tachometer by Direct Method	10 rpm to 100 rpm	1.16 %rdg
111	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	114 dB	0.85 dB
112	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB	0.85 dB
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate / Box Angle Plate (Flatness)	Using Lever Type Dial Gauge, Electronic Level, Surface Plate by Comparison Method	Up to 300 mm X 300 mm	4.30 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate / Box Angle Plate (Parallelism)	Using Surface Plate, Lever Type Dial Gauge by Comparison Method	Up to 300 mm X 300 mm	3.70 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 67 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate / Box Angle Plate (Squareness)	Using Surface Plate, Lever Type Dial Gauge, Master Cylinder by Comparison Method	Up to 300 mm X 300 mm	4.70 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co - Axility of Centre)	Using Taper Mandrel, Parallel Mandrel & Lever Type Dial Gauge by Comparison Method	Up to 300 mm	3.34 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism of Centre)	Using Taper Mandrel, Parallel Mandrel & Lever Type Dial Gauge by Comparison Method	Up to 300 mm	3.34 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness (Circular)	Using Slip Gauge, Lever Dial by Direct Method	Up to 400 mm X 400 mm	2.30 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness (Square)	Using Slip Gauge, Lever Dial by Direct Method	Up to 400 mm X 400 mm	2.3 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism of Working Surface)	Using Lever Type Dial Gauge, Gauge Block, Surface Plate by Comparison Method	Up to 300 mm X 300 mm	6.35 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3896

Page No

68 of 77

Validity

20/02/2026 to 19/02/2030

Last Amended on

07/04/2026

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)(±)
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness of Working Surface)	Using Lever Type Dial Gauge, Electronic Level Meter, Gauge Block, Surface Plate by Comparison Method	Up to 300 mm X 300 mm	6.40 µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Cast Iron / Granite	Using Electronic Level Meter by Direct Method	200 mm x 200 mm to 2000 mm x 2000 mm	3.7 x Sqrt {(L+W) / 125} µm, where "L" & "W" are in mm
123	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (L.C.: 0.0001 mm) - Linear	Using Caliper Checker, Gauge Block, Length Bar by Comparison Method	0 to 300 mm	5.2 µm
124	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (L.C.: 0.0001 mm) - Squareness	Using Lever Type Dial Gauge, Cylindrical Square and Surface Plate by Comparison Method	0 to 300 mm	3.46 µm
125	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine (L.C.: 0.0001 mm)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	0.6 µm
126	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope (Length - X & Y)	Using Glass Scale by Direct Method	0 to 40 mm	1.59 µm
127	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnification	Using Glass Scale by Comparison Method	0 to 50 X	1.34 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896 **Page No** 69 of 77

Validity 20/02/2026 to 19/02/2030 **Last Amended on** 07/04/2026

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)(±)
128	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine (L.C.: 0.001 mm & Coarser) - Linear (X & Y)	Using Glass Scale by Direct Method	Up to 150 mm	4.8 µm
129	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Angular (L.C.: 18 second of arc)	Using Angle Gauge by Direct Method	Up to 360°	78.6 second of arc
130	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Magnification	Using Glass Scale, Slip Gauge & Digital Vernier Caliper by Comparison Method	Up to 50 X	8 %
131	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester / Portable Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2025	HRA	1 HRA
132	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester / Portable Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2): 2018	HRBW	1.6 HRBW
133	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester / Portable Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2025	HRC	0.99 HRC



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 70 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
134	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Analog / Digital Pressure Gauge, Pressure Transmitter with or without Indicator, Pressure Transducer with or without Indicator, Pressure Recorder, Pressure Switch	Using Digital Pressure Gauge, Comparator Pump, Digital Pressure Calibrator & 6½ Digit Multimeter by Comparison Method based on DKD R 6-1	0 to 70 bar	0.05 bar
135	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Analog / Digital Pressure Gauge, Pressure Transmitter with or without Indicator, Pressure Transducer with or without Indicator, Pressure Recorder, Pressure Switch	Using Digital Pressure Gauge, Comparator Pump, Digital Pressure Calibrator & 6½ Digit Multimeter by Comparison Method based on DKD R 6-1	0 to 700 bar	1.4 bar
136	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge	Using Digital Pressure Calibrator, Hand Pressure Pump by Comparison Method based on DKD R 6-1	0 to 5000 Pa	5.0 Pa
137	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Analog / Digital Vacuum Gauge, Vacuum Transmitter with or without Indicator, Vacuum Transducer with or without Indicator, Vacuum Switch	Using Digital Pressure Gauge, Comparator Pump, Digital Pressure Calibrator & 6½ Digit Multimeter by Comparison Method based on DKD R 6-1	(-)-0.9 bar to 0	0.009 bar



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 71 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
138	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Analog / Digital Pressure Gauge, Pressure Transmitter with or without Indicator, Pressure Transducer with or without Indicator, Pressure Recorder, Pressure Switch	Using Digital Pressure Gauge, Comparator Pump, Digital Pressure Calibrator & 6½ Digit Multimeter by Comparison Method based on DKD R 6-1	0 to 10 bar	0.02 bar
139	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression Testing Machine, Universal Testing Machine, Load Testing Machine, Spring Testing Machine - Compression	Using Load Cell with Indicator by Comparison Method as per IS 1828-1 : 2022	100 N to 200 kN	1.3 %
140	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression Testing Machine, Universal Testing Machine, Load Testing Machine, Spring Testing Machine - Compression	Using Load with Indicator by Comparison Method as per IS: 1828-1 : 2022	200 kN to 2000 kN	0.5 %
141	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile Testing Machine, Universal Testing Machine, Load Testing Machine, Spring Testing Machine - Tension	Using Load Cell with Indicator by Comparison Method as per IS 1828-1 : 2022	100 N to 50 kN	0.5 %
142	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class II (Readability: 10 mg)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	Up to 5.2 kg	100 mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896 **Page No** 72 of 77

Validity 20/02/2026 to 19/02/2030 **Last Amended on** 07/04/2026

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)(±)
143	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class II and Coarser (Readability : 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	Up to 100 g	0.07 mg
144	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class II and Coarser (Readability : 1 mg)	Using E1 & F1 Class Weights by Comparison Method as per OIML R 76-1	Up to 1 kg	2 mg
145	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class II and Coarser (Readability: 0.1 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	Up to 200 g	0.3 mg
146	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class III (Readability: 1 g & 2 g)	Using F1 & M1 Weights by Comparison Method as per OIML R 76-1	Up to 75 kg	5 g
147	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class III and Coarser (Readability : 0.5 g)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	Up to 30 kg	1.3 g
148	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class IIII (Readability : 10 g)	Using F1 & M1 Class Weights by Comparison Method as per OIML R 76-1	Up to 200 kg	14 g
149	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale & Balance - Accuracy Class IIII (Readability: 0.005 kg)	Using F1 & M1 Class Weights by Comparison Method as per OIML R-76-1	Up to 100 kg	10 g



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896 **Page No** 73 of 77

Validity 20/02/2026 to 19/02/2030 **Last Amended on** 07/04/2026

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)(±)
150	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Scale Scale & Balance - Accuracy Class II and Coarser (Readability: 1 mg)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	Up to 3 kg	11 mg
151	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Indicator with Sensor of Humidity Chamber, Environmental Chamber, Humidity Generator, Stability Chamber, Humidity Calibrator - Single Position Calibration	Using Temperature & Humidity Probe with Indicator by Comparison Method	10 °C to 50 °C @ 50 %rh	0.54 °C
152	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Indicator with Sensor of Humidity Chamber, Environmental Chamber, Humidity Generator, Stability Chamber, Humidity Calibrator - Single Position Calibration	Using Temperature & Humidity Indicator with Probe by Comparison Method	20 %rh to 90 %rh @ 25 °C	2 %rh
153	THERMAL-TEMPERATURE	Black Body Source (Emissivity: 0.95)	Using Infrared Thermometer by Comparison Method	300 °C to 500 °C	4 °C
154	THERMAL-TEMPERATURE	Black Body Source (Emissivity: 0.95)	Using Infrared Thermometer by Comparison Method	50 °C to 300 °C	3.81 °C
155	THERMAL-TEMPERATURE	Digital / Dial Temperature Gauge, Temperature Transmitter with or without Indicator	Using Liquid Bath, RTD with Indicator & 6½ Digit Multimeter by Comparison Method	(-)40 °C to 50 °C	0.84 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 74 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
156	THERMAL-TEMPERATURE	Digital / Dial Temperature Gauge, Temperature Transmitter with or without Indicator	Using Liquid Bath, RTD with Indicator & 6½ Digit Multimeter by Comparison Method	>50 °C to 250 °C	1.21 °C
157	THERMAL-TEMPERATURE	Infrared Thermometer / Pyrometer / Thermal Imaging Camera (for temperature only) (Emissivity: 0.95)	Using Infrared Thermometer With Black Body Furnace by Comparison Method	100 °C to 500 °C	4.5 °C
158	THERMAL-TEMPERATURE	Infrared Thermometer / Pyrometer / Thermal Imaging Camera (for temperature only) - Emissivity : 0.95	Using Infrared Thermometer With Black Body Furnace by Comparison Method	50 °C to 100 °C	2.5 °C
159	THERMAL-TEMPERATURE	RTD, Temperature Transmitter, Thermocouple with or without Indicator / Controller / Recorder, Temperature Indicator with Sensor, Recorder with Sensor, Digital Thermometer	Using Liquid Bath, RTD with Indicator, 6½ Digit Multimeter by Comparison Method	(-)-40 °C to 50 °C	0.20 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Validity 20/02/2026 to 19/02/2030

Page No 75 of 77

Last Amended on 07/04/2026

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)(±)
160	THERMAL-TEMPERATURE	RTD, Temperature Transmitter, Thermocouple with or without Indicator / Controller / Recorder, Temperature Indicator with Sensor, Recorder with Sensor, Digital Thermometer	Using RTD with Indicator, Temperature Dry Block Calibrator, 6½ Digit Multimeter by Comparison Method	>100 °C to 400 °C	1.01 °C
161	THERMAL-TEMPERATURE	RTD, Temperature Transmitter, Thermocouple with or without Indicator / Controller / Recorder, Temperature Indicator with Sensor, Recorder with Sensor, Digital Thermometer	Using RTD with Indicator & Liquid Bath by Comparison Method	50 °C to 250 °C	0.34 °C
162	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Deep Freezer / Freezer / Refrigerator, Walk in Chamber, Chiller, BOD Incubator / Bacteriological Incubator / Oven / Liquid Bath / Dry Block, Cold Room / Environmental Chamber	Using RTD Sensor with Indicator by Comparison Method	(-)-80 °C to 50 °C	0.84 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER
GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD,
UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896

Page No 76 of 77

Validity 20/02/2026 to 19/02/2030

Last Amended on 07/04/2026

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)(±)
163	THERMAL-TEMPERATURE	Temperature indicator with Sensor of Dry Block Bath / Dry Well / Furnace / High Temperature Bath / Muffle Furnace - Single Position Calibration	Using S Type Thermocouple with Indicator by Comparison Method	400 °C to 999 °C	2.18 °C
164	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Dry Block Bath / Dry Well / Furnace / High Temperature Bath / Muffle Furnace - Single Position Calibration	Using S Type Thermocouple with Indicator by Comparison Method	>999 °C to 1200 °C	2.18 °C
165	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Oven, Hot Air Oven / Incubator / BOD Incubator / Microbiological Incubator / Autoclave (for non medical purpose only), Liquid Bath / Water Bath / Dry Block Bath / Furnace / Temperature Bath - Single Position Calibration	Using RTD Sensor with Indicator by Comparison Method	37 °C to 400 °C	1.18 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, LOWER GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3896 **Page No** 77 of 77

Validity 20/02/2026 to 19/02/2030 **Last Amended on** 07/04/2026

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)(±)
166	THERMAL-TEMPERATURE	Temperature Transmitter, Thermocouple with or without Indicator / Controller / Recorder, Temperature Indicator with Sensor, Recorder with Sensor, Digital Thermometer	Using Dry Block Calibrator, S Type Thermocouple with Indicator & 6½ Digit Multimeter by Comparison Method	>400 °C to 1185 °C	1.88 °C

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