National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	PINPOINT PRECISION CALIBRATION LAB PVT. LTD., LOWER GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD, UTTAR PRADESH, INDIA		
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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	50 µA to 10 A	2 % to 0.67 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct Method	1 kV to 10 kV	3.82 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 mV to 1000 V	4.4 % to 0.52 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Precision LCR Meter by Direct Method	1 µF to 10 µF	1.3 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Precision LCR Meter by Direct Method	100 pF to 1000 nF	1.3 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using Precision LCR Meter by Direct Method	100 µH to 10 H	1.3 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	0.2 mA to 10 A	3.87 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator with Current Coil by Direct Method	10 A to 990 A	3 % to 3.87 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	5 mV to 990 V	4.5 % to 0.49 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	100 pf to 1 µf	1.81 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	1.81 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	10 µA to 10 A	4.03 % to 0.98 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 10 kV	2.08 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digital Multimeter by Direct Method	1 Mohm to 100 Mohm	0.4 % to 1.2 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digital Multimeter by Direct Method	10 Ohm to 1 Mohm	0.2 % to 0.4 %

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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digital Multimeter by Direct Method	100 Mohm to 1 Gohm	1.2 % to 3.36 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digital Multimeter by Direct Method	1 Ohm to 10 Ohm	0.6 % to 0.2 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 1000 V	0.71 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Function Calibrator by Direct Method	0.2 mA to 10 A	5.31 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Digital Multi Function Calibrator, Current Coil (100 Turns) by Direct Method	10 A to 930 A	5.31 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	1 kohm to 100 Mohm	3.45 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Megaohm Box by Direct Method	100 Mohm to 1 Gohm	4 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Megaohm Box by Direct Method	2 Gohm to 20 Gohm	4 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	1 mohm to 1 kohm	3.45 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Function Calibrator by Direct Method	1 mV to 990 V	6.96 % to 0.15 %
26	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Universal Calibrator by Direct Method	(-) 100 °C to 450 °C	1.3 °C
27	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Universal Calibrator by Direct Method	600 °C to 1500 °C	3 °C

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28	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Universal Calibrator by Direct Method	(-) 100 °C to 600 °C	2 °C
29	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Universal Calibrator by Direct Method	(-) 100 °C to 750 °C	2 °C
30	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1200 °C	2 °C
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Universal Calibrator by Direct Method	200 °C to 1200 °C	2.25 °C
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Universal Calibrator by Direct Method	200 °C to 1600 °C	2.5 °C
33	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	10 Hz to 1 MHz	2.86 % to 2.89 %

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34	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	10 s to 24 hr	1.02 % to 0.12 %
35	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi - Function Generator by Direct Method	10 Hz to 3 MHz	1.22 %
36	MECHANICAL-ACCELERATION AND SPEED	Centrifuge - Non-Contact Type	Using Digital Tachometer by Comparison Method	500 rpm to 4800 rpm	2.48 %
37	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB & 114 dB	0.85 dB
38	MECHANICAL-DENSITY AND VISCOSITY	Flow Cup / Ford Cup	Using Stop Watch & Standard Liquid of known Kinematic Viscosity by Comparison Method	30 cSt to 180 cSt	1.3 %
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel / Angle Protractor (L.C.: 5' & Coarser)	Using Angle Gauge by Comparison Method	0 to 90 °	6.4 minute of arc

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40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.01 µm & Coarser)	Using Thickness Foils by Comparison Method	11 µm to 686 µm	1.42 µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set / Angle Protractor (L.C.: 1°)	Using Angle Gauge by Direct Method	Up to 180 °	30 minute of arc
42	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	5.6 µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness (Square)	Using Slip Gauge, Lever Dial by Direct Method	Up to 400 X 400 mm	5.6 µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Digital Vernier Caliper by Comparison Method	Up to 150 mm	56.31 µm

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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master - Diameter	Using Electronic Probe with DRO, Comparator Stand, Slip Gauge Blocks by Comparison Method as per IS:4349: 1987	3 mm to 100 mm	3.8 µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master - Runout	Using Electronic Probe with DRO, Comparator Stand by Comparison Method as per IS:4349: 1987	3 mm to 100 mm	3.8 µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Slip Gauge Block Set, Surface Plate, Caliper Checker by Direct Method	Up to 300 mm	5 µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge (L.C.: 0.001 mm)	Using Dial Calibration Tester, Electronic Probe by Comparison Method	Up to 2 mm	2.5 µm
49	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	3 µm

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50	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	6 µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Digital Vernier Caliper by Direct Method	6.3 mm to 50 mm	24.1 µm
52	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	100 mm to 300 mm	7.3 µm
53	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	12 µm
54	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	3.3 µm

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55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic Probe with DRO and Comparator Stand by Direct Method	0.3 mm to 1 mm	2.9 µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Digital Vernier Caliper by Direct Method	6.3 mm to 63 mm	23.04 µm
57	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
58	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

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59	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
60	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
61	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 200 mm	9.9 µm
62	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	2.3 µm
63	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

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64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin / Standard Pin	Using Slip Gauge Blocks, Electronic Probe with DRO & Comparator Stand by Comparison Method	Up to 20 mm	3 µm
65	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, where L is in meter
66	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
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Electronic Probe with DRO, Comparator Stand, Slip Gauge Block Set, Length Bar, Surface Plate by Comparison Method	25 mm to 200 mm	6.8 µm

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68	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
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Electronic Probe with DRO, Slip Gauge Block by Comparison Method	Up to 200 mm	3.3 µm
70	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
71	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	3.1 µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge / Radius Measurement	Using Profile Projector by Direct Method	0.6 mm to 25 mm	6.1 µm

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73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge / Radius Measurement	Using Profile Projector by Direct Method	25 mm to 40 mm	9.6 µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using Slip Gauge Blocks by Comparison Method	3 mm to 250 mm	3.9 µm
75	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
76	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
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale (0.5 mm and Coarser)	Using Tape & Scale Calibrator by Comparison Method	Up to 1000 mm	180 µm

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78	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	45 µm
79	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
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by Comparison Method	0.6 mm to 10 mm	10.7 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Vernier Caliper by Direct Method	10 mm to 125 mm	25 µm
82	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	3 µm

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83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Angle	Using Profile Projector by Direct Method	55° and 60°	21 second of arc
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Pitch	Using Profile Projector by Direct Method	0.4 mm to 6 mm	6 µm
85	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	2.8 µm
86	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	9.3 µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper - Dial / Digital / Analog (L.C.: 0.001 mm)	Using Caliper Checker, Slip Gauge Blocks by Direct Method	0 to 150 mm	6.5 µm

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88	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	13.4 µm
89	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	13 µm
90	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 °	1.5 °
91	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
92	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	1.5 µm

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93	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 µm
94	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	Using Gauge Block Calibrator, Slip Gauge Block (Grade - K) by Comparison Method	> 10 mm to 50 mm	0.27 µm
95	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	Using Gauge Block Calibrator, Slip Gauge Block (Grade - K) by Comparison Method	> 50 mm to 100 mm	0.51 µm
96	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	Using Gauge Block Calibrator, Slip Gauge Block (Grade - K) by Comparison Method	0.5 mm to 10 mm	0.15 µm
97	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar	Using Electronic Probe with DRO, Comparator Stand, Gauge Block Set, Length Bar & Surface Plate by Comparison Method	100 mm to 200 mm	11.2 µm
98	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine (L.C.: 0.0001 mm)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	1.7 µm

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99	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Angular (L.C.: 18 second)	Using Angle Gauge by Direct Method	Up to 360 °	78.6 second of arc
100	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Linear (L.C.: 0.001 mm & Coarser)	Using Glass Scale by Direct Method	Up to 150 mm	4.8 µm
101	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Magnification	Using Slip Gauge & Digital Vernier Caliper by Comparison Method	Up to 50 X	8 %
102	MECHANICAL-DUROMETER	Rubber Hardness Tester - Shore A	Using Rubber Hardness Calibrator by Spring Force Calibration Method	0.5 Shore to 100 Shore	1.9 Shore
103	MECHANICAL-DUROMETER	Rubber Hardness Tester - Shore D	Using Rubber Hardness Calibrator by Spring Force Calibration Method	0.5 Shore to 100 Shore	1.9 Shore

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104	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 Digital Multimeter by Comparison Method based on DKD R 6-1	0 to 70 bar	0.05 bar
105	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 Digital Multimeter by Comparison Method based on DKD R 6-1	0 to 700 bar	1.4 bar
106	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	26 Pa

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107	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 Digital Multimeter by Comparison Method based on DKD R 6-1	0 to 10 bar	0.02 bar
108	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 Digital Multimeter by Comparison Method based on DKD R 6-1	(-) 0.9 bar to 0 bar	0.005 bar
109	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 : 2017	0.2 Nm to 2 Nm	0.08 Nm

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110	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 : 2017	2 Nm to 20 Nm	0.18 Nm
111	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 : 2017	20 Nm to 200 Nm	1.4 Nm
112	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 : 2017	200 Nm to 2000 Nm	7.225 Nm
113	MECHANICAL-VOLUME	Glass Pipette, Burette, Measuring Cylinder, Flask, Jar, Beaker, Container	Using Weighing Balance (Readability: 0.1 mg), Distilled Water based on Gravimetric Method as per ISO 4787:2021	> 1 ml to 10 ml	20 µl

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114	MECHANICAL-VOLUME	Glass Pipette, Burette, Measuring Cylinder, Flask, Jar, Beaker, Container	Using Weighing Balance (Readability: 0.1 mg), Distilled Water based on Gravimetric Method as per ISO 4787:2021	> 10 ml to 100 ml	230 µl
115	MECHANICAL-VOLUME	Glass Pipette, Burette, Measuring Cylinder, Flask, Jar, Beaker, Container	Using Weighing Balance (Readability: 0.001 g), Distilled Water based on Gravimetric Method as per ISO 4787:2021	> 100 ml to 1000 ml	6 ml
116	MECHANICAL-VOLUME	Glass Pipette, Burette, Measuring Cylinder, Flask, Jar, Beaker, Container	Using Weighing Balance (Readability: 0.001 g), Distilled Water based on Gravimetric Method as per ISO 4787:2021	> 1000 ml to 2000 ml	12 ml

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117	MECHANICAL-VOLUME	Glass Pipette, Burette, Measuring Cylinder, Flask, Jar, Beaker, Container	Using Weighing Balance (Readability: 0.1 mg), Distilled Water based on Gravimetric Method as per ISO 4787:2021	0.1 ml to 1 ml	2.35 µl
118	MECHANICAL-VOLUME	Micropipette	Using Weighing Balance (Readability: 0.01 mg), Distilled Water by Gravimetric Method as per ISO 8655-6:2022	> 1 ml to 5 ml	0.9 µl
119	MECHANICAL-VOLUME	Micropipette	Using Weighing Balance (Readability: 0.01 mg), Distilled Water by Gravimetric Method as per ISO 8655-6:2022	20 µl to 1000 µl	0.9 µl
120	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 0.1 mg)	Using E2 Class Weights by Comparison Method as per OIML R-76-1	0 to 200 g	1 mg
121	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class III and Coarser (Readability: 2 g)	Using M1 Class Weights by Comparison Method as per OIML R-76-1	0 to 30 kg	3.6 g

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122	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class IIII (Readability: 0.01 kg)	Using M1 Class Weights by Comparison Method as per OIML R-76-1	0 to 100 kg	10 g
123	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	1 g	0.09 mg
124	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	1 mg	0.02 mg
125	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	10 g	0.18 mg

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126	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	10 mg	0.02 mg
127	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	100 g	0.28 mg
128	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	100 mg	0.04 mg

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129	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	2 g	0.12 mg
130	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	2 mg	0.02 mg
131	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	20 g	0.27 mg

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132	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	20 mg	0.02 mg
133	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	200 g	0.74 mg
134	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	200 mg	0.06 mg

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135	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	5 g	0.15 mg
136	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	5 mg	0.02 mg
137	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	50 g	0.28 mg

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138	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	50 mg	0.03 mg
139	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weight & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	500 mg	0.08 mg
140	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor / Humidity Meter / Digital Thermo Hygrometer @ 25°C	Using Digital Temperature and RH Indicator with Sensor, Temperature and Humidity Generator by Comparison Method	20 % RH to 90 % RH	2.45 % RH

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141	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor / Humidity Meter / Digital Thermo Hygrometer @ 50% RH	Using Digital Temperature and RH Indicator with Sensor & Temperature and Humidity Generator by Comparison Method	10 °C to 50 °C	1.08 °C
142	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Digital / Dial Temperature Gauge, Temperature Transmitter with or without Indicator	Using Liquid Bath, RTD & 6½ Digit Multimeter by Comparison Method	(-) 40 °C to 50 °C	0.84 °C
143	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Digital / Dial Temperature Gauge, Temperature Transmitter with or without Indicator	Using Liquid Bath, RTD & 6½ Digit Multimeter by Comparison Method	> 50 °C to 250 °C	1.26 °C

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144	THERMAL-TEMPERATURE	RTD, Temperature Transmitter, Thermocouple with or without Indicator / Controller / Recorder, Temperature Indicator with Sensor, Recorder with Sensor, Digital Thermometer	Using Low Temperature Dry Block Calibrator, RTD with Indicator, 6½ Digit Multimeter by Comparison Method	(-) 22 °C to 100 °C	0.87 °C
145	THERMAL-TEMPERATURE	RTD, Temperature Transmitter, Thermocouple with or without Indicator / Controller / Recorder, Temperature Indicator with Sensor, Recorder with Sensor, Digital Thermometer	Using Low Temperature Dry Block Calibrator, RTD with Indicator, 6½ Digit Multimeter by Comparison Method	> 100 °C to 400 °C	1.01 °C

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
146	THERMAL-TEMPERATURE	RTD, 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	2.47 °C

SCOPE OF ACCREDITATION

Laboratory Name :	PINPOINT PRECISION CALIBRATION LAB PVT. LTD., LOWER GROUND FLOOR, 237, NITI KHAND - 2, INDIRAPURAM, GHAZIABAD, UTTAR PRADESH, INDIA		
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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Active Energy @ (50 Hz, 240V, 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, 240V, 0.5 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, 240V, 0.5 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 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	50 µA to 10 A	2 % to 0.67 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct Method	1 kV to 10 kV	3.82 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 mV to 1000 V	4.4 % to 0.52 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Precision LCR Meter by Direct Method	1 µF to 10 µF	1.3 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Precision LCR Meter by Direct Method	100 pF to 1000 nF	1.3 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using Precision LCR Meter by Direct Method	100 µH to 10 H	1.3 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz (Lead / Lag)	Using Energy Logger by Direct Method	0.2 PF to 1 PF	0.05 PF
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	0.2 mA to 10 A	3.87 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator with Current Coil by Direct Method	10 A to 990 A	3 % to 3.87 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	5 mV to 990 V	4.5 % to 0.49 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	100 pf to 1 µf	1.81 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	1.81 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 10 kV	2.08 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digital Multimeter by Direct Method	1 Mohm to 100 Mohm	0.4 % to 1.2 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digital Multimeter by Direct Method	10 Ohm to 1 Mohm	0.2 % to 0.4 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digital Multimeter by Direct Method	100 Mohm to 1 Gohm	1.2 % to 3.36 %

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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digital Multimeter by Direct Method	1 Ohm to 10 Ohm	0.6 % to 0.2 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 1000 V	0.71 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Function Calibrator by Direct Method	0.2 mA to 10 A	5.31 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Digital Multi Function Calibrator, Current Coil (100 Turns) by Direct Method	10 A to 930 A	5.31 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	1 kohm to 100 Mohm	3.45 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Megaohm Box by Direct Method	100 Mohm to 1 Gohm	4 %

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27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Megaohm Box by Direct Method	2 Gohm to 20 Gohm	4 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	1 mohm to 1 kohm	3.45 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Function Calibrator by Direct Method	1 mV to 990 V	6.96 % to 0.15 %
30	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Universal Calibrator by Direct Method	600 °C to 1500 °C	3 °C
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Universal Calibrator by Direct Method	(-) 100 °C to 600 °C	2 °C
32	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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33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1200 °C	2 °C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Universal Calibrator by Direct Method	200 °C to 1200 °C	2.25 °C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Universal Calibrator by Direct Method	200 °C to 1600 °C	2.5 °C
36	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	10 Hz to 1 MHz	2.86 % to 2.89 %
37	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	10 s to 24 hr	1.02 % to 0.12 %
38	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Medium Liquid): Water Flow Meter, Flow Meter, Rotameter	Using Transducer based Portable Ultrasonic Flow Meter by Comparison Method	1 m^3/hr to 123 m^3/hr	9.98 %

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39	MECHANICAL-ACCELERATION AND SPEED	Centrifuge - Non-Contact Type	Using Digital Tachometer by Comparison Method	500 rpm to 4800 rpm	2.48 %
40	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB & 114 dB	0.85 dB
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Cast Iron / Granite	Using Electronic Level Meter by Direct Method	200 x 200 mm to 2000 x 2000 mm	3.7 x Sqrt {(L+W) / 125} µm, where L & W are in mm
42	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine (L.C.: 0.0001 mm)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	1.7 µm
43	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Angular (L.C.: 18 second)	Using Angle Gauge by Direct Method	Up to 360 °	78.6 second of arc
44	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Linear (L.C.: 0.001 mm & Coarser)	Using Glass Scale by Direct Method	Up to 150 mm	4.8 µm
45	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Magnification	Using Slip Gauge & Digital Vernier Caliper by Comparison Method	Up to 50 X	8 %

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46	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine - Z - Axis	Using Slip Gauge Set by Comparison Method	Up to 150 mm	4.7 µm
47	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Test blocks by Indirect Method as per IS 1586 : 2018	HRA	1 HRA
48	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Test blocks by Indirect Method as per IS 1586 : 2018	HRBW	1.6 HRBW
49	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Test blocks by Indirect Method as per IS 1586 : 2018	HRC	0.99 HRC
50	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 Digital Multimeter by Comparison Method based on DKD R 6-1	0 to 70 bar	0.05 bar

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51	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 Digital Multimeter by Comparison Method based on DKD R 6-1	0 to 700 bar	1.4 bar
52	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	26 Pa
53	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 Digital Multimeter by Comparison Method based on DKD R 6-1	0 to 10 bar	0.02 bar

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54	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 Digital Multimeter by Comparison Method based on DKD R 6-1	(-) 0.9 bar to 0 bar	0.005 bar
55	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of 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 %
56	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of 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	1 %
57	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 0.1 mg)	Using E2 Class Weights by Comparison Method as per OIML R-76-1	0 to 200 g	1 mg

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58	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class III and Coarser (Readability: 2 g)	Using M1 Class Weights by Comparison Method as per OIML R-76-1	0 to 30 kg	3.6 g
59	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class IIII (Readability: 0.01 kg)	Using M1 Class Weights by Comparison Method as per OIML R-76-1	0 to 100 kg	10 g
60	THERMAL-TEMPERATURE	Indicator with Sensor of Deep Freezer, Refrigerator - Single Position	Using RTD Sensor with Indicator by Comparison Method	(-) 80 °C to 50 °C	0.84 °C
61	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Block Bath, Dry Well, Furnace, High Temperature Bath - Single Position	Using S Type Thermocouple with Indicator by Comparison Method	400 °C to 999 °C	2.18 °C
62	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Block Bath, Dry Well, Furnace, High Temperature Bath - Single Position	Using S Type Thermocouple with Indicator by Comparison Method	> 999 °C to 1200 °C	2.18 °C

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63	THERMAL-TEMPERATURE	Indicator with Sensor of Oven, Hot Air Oven, Incubator, BOD Incubator, Microbiological Incubator, Water Bath, Dry Block Bath, Furnace, Temperature Bath - Single Position (Industrial Purpose Only)	Using RTD Sensor with Indicator by Comparison Method	37 °C to 400 °C	1.18 °C
64	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Digital / Dial Temperature Gauge, Temperature Transmitter with or without Indicator	Using Liquid Bath, RTD & 6½ Digit Multimeter by Comparison Method	(-) 40 °C to 50 °C	0.84 °C
65	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Digital / Dial Temperature Gauge, Temperature Transmitter with or without Indicator	Using Liquid Bath, RTD & 6½ Digit Multimeter by Comparison Method	> 50 °C to 250 °C	1.26 °C

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66	THERMAL-TEMPERATURE	RTD, Temperature Transmitter, Thermocouple with or without Indicator / Controller / Recorder, Temperature Indicator with Sensor, Recorder with Sensor, Digital Thermometer	Using Low Temperature Dry Block Calibrator, RTD with Indicator, 6½ Digit Multimeter by Comparison Method	(-) 22 °C to 100 °C	0.87 °C
67	THERMAL-TEMPERATURE	RTD, Temperature Transmitter, Thermocouple with or without Indicator / Controller / Recorder, Temperature Indicator with Sensor, Recorder with Sensor, Digital Thermometer	Using Low Temperature Dry Block Calibrator, RTD with Indicator, 6½ Digit Multimeter by Comparison Method	> 100 °C to 400 °C	1.01 °C

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68	THERMAL-TEMPERATURE	RTD, 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	2.47 °C

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