

Laboratory Pinpoint Precision Calibration Lab Private Limited, LG-33, Lower Ground Floor, Arora Shoppers Park, Plot No. C, Shakti Khand 2, Indirapuram, Ghaziabad, Uttar Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2576

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Validity 24.06.2019 to 19.02.2020

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO-TECHNICAL CALIBRATION</u>				
1.	SOURCE			
1.	D.C. Voltage [#]	1 mV to 180m V 180 mV to 1.8 V 1.8 V to 200 V 200 V to 990 V	5.20 % to 1.48 % 1.48 % to 1.60 % 1.60 % to 0.14 % 0.15 %	Using 5½ Digit Multi Function Calibrator
2.	D.C. Current [#]	0.2 mA to 180 mA 180 mA to 9.9 A 9.9 A to 990 A	4.03 % to 0.98 % 0.98 % 1.34 %	Using 5½ Digit Multi Function Calibrator With Current Coil
3.	A.C. Voltage [#]	50 Hz 5 mV to 180 mV 180 mV to 1.8 V 1.8 V to 990 V	1.81 % to 0.69 % 0.69 % to 0.32 % 0.32 % 0.32 %	Using 5½ Digit Multi Function Calibrator
4.	A.C. Current [#]	50 Hz 0.2 mA to 200 mA 200 mA to 9.9 A 9.9 A to 200 A 200 A to 990 A	3.87 % to 1.2 % 1.2 % to 1.44 % 1.95 % 1.95 % to 2.36 %	Using 5½ Digit Multi Function Calibrator With Current Coil
5.	Frequency [#]	10 Hz to 3 MHz	1.22 %	Using Multi Function Generator
6.	DC Resistance (2 Wire & 4 wire) [#]	1 m Ω to 100 m Ω 1 Ω to 100 Ω 100 Ω to 10 k Ω 10 k Ω to 1 M Ω 1 M Ω to 100 M Ω	1.07 % 1.0 % to 0.95 % 0.95 % to 0.34 % 0.34 % to 0.15 % 0.15 % to 1.12 %	Using Decade Resistance Box

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		100 M Ω to 900 M Ω 900 M Ω to 2 G Ω 2 G Ω to 20 G Ω	1.12 % to 1.55 % 1.55 % to 3.46 % 4 %	
7.	Temperature Simulation (Indicator or/ Controller/RTD) #			
	RTD T/C J Type T/C K Type T/C R Type T/C S Type T/C T Type T/C B Type T/C E Type	(-) 100 °C to 450 °C (-)100 °C to 750 °C (-) 200 °C to 1300 °C 0 °C to 1600 °C 0 °C to 1700 °C (-) 200 °C to 400 °C 600 °C to 1700 °C (-) 100 °C to 600 °C	1.0 °C 2.0 °C 2.0 °C 2.0 °C 2.0 °C 2.0 °C 2.0 °C 2.0 °C	Using Universal Calibrator (Radix)
8.	Capacitance #	1 kHz 100 pf to 1 μ f	1.5 % to 1.72 %	Using Decade Capacitance Box
9.	Inductance #	1 kHz 100 μ H to 10 H	1.3 % to 1.81 %	Using Decade Inductance Box
II.	MEASURE			
1.	D.C. Voltage #	1 mV to 100 mV 100 mV to 10 V 10 V to 1000 V	0.71 % to 0.01 % 0.01 % to 0.06 % 0.06 % to 0.03 %	Using 6½ DMM
2.	D.C. Current #	10 μ A to 10 mA 10 mA to 1 A 1 A to 10 A	2.98 % to 0.10 % 0.10 % to 0.18 % 0.18 % to 0.20 %	Using 6½ DMM

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3.	A.C. Voltage [#]	50 Hz 1 mV to 100 mV 100 mV to 1000 V	0.52 % to 0.19 % 0.19 % to 0.22 %	Using 6½ DMM
4.	A.C. Current [#]	50 Hz 50 μ A to 100 mA 100 mA to 10 A	0.87 % to 0.23 % 0.23 % to 0.26 %	Using 6½ DMM
5.	Frequency [#]	10 Hz to 1 MHz	0.50 %	Using 6½ DMM
6.	Digital Timer/ Stop Watch [#]	10 s to 990 s 990 s to 9 minute 90 minute to 24 hour	0.03 minute to 0.14 minute 0.14 minute to 3.35 minute 3.35 minute to 3.48 minute	Using Digital Timer
7.	DC High Voltage [*]	1 kV to 10 kV	2.58 %	Using HV Probe with DMM
8.	AC High Voltage [*]	50 Hz 1 kV to 10 kV	2.58 %	Using HV Probe with DMM
9.	AC Energy & Power [#] @ 50 Hz 1 Phase at UPF	100 V to 240 V & 0.5 A to 250 A	1.3 %	Using Energy Logger 1732
10.	AC Energy & Power [#] @ 50Hz 3 Phase at UPF	100 V to 240 V & 0.5 A to 250 A	1.3 %	Using Energy Logger 1732
11.	AC Energy & Power [#] @ 50Hz 3 Phase at \pm 0.5PF	100 V to 240 V & 0.5 A to 250 A	1.3 %	Using Energy Logger 1732

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<u>MECHANICAL CALIBRATION</u>				
1.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Measuring Pin – Standard Pin [§]	Upto 10 mm 10 mm to 20 mm	2.60 μ m 3.00 μ m	Using Gauge Blocks, Electronic Probe With Comparator Stand, Digital Micrometer
2.	Thread Measuring Wire / Thread Measuring Prism [§]	Upto 6.35 mm	2.60 μ m	Using Gauge Blocks, Electronic Probe With Comparator Stand, Digital Micrometer
3.	Micrometer Setting Standard [§]	25 mm to 100 mm 100 mm to 300 mm 300 mm to 500 mm	3.8 μ m 4.8 μ m 6.8 μ m	Using Electronic Probe With Comparator Stand, Gauge Blocks, Length Bar, Surface Plate
4.	Length Bars / Std. Length [§]	300 mm to 500 mm	6.80 μ m	Using Electronic Probe With Comparator Stand, Gauge Blocks, Length Bar, Surface Plate
5.	Feeler Gauge [§]	Upto 1 mm	2.90 μ m	Using Electronic Probe With Comparator Stand, Digital Micrometer
6.	Riser Block [§]	0 to 600 mm	6.0 μ m	Using Electronic Probe With Comparator Stand, Gage Bocks Length, Surface Plate

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7.	Thickness Foil [§]	Upto 2.0 mm	1.7 μ m	Using Electronic Probe With Comparator Stand, Digital Micrometer
8.	Parallel Thread Plug Gauge/ Wear Check Plug Gauge [§] (For Effective, Major Diameter)	2 mm to 100 mm	4.5 μ m	Using Floating Carriage Diameter Measuring Machine
9.	Taper Thread Plug Gauge / Wear Check Plug Gauge (For Effective, Major Diameter) [§]	2 mm to 100 mm	5.0 μ m	Using Floating Carriage Diameter Measuring Machine
10.	Caliper – Vernier / Dial/ Electronic [§] L.C.: 0.01 mm	Upto 600 mm	13.40 μ m	Using Caliper Checker, Gauge Blocks, Digital Micrometer, Slip gauge Accessories
11.	Height Gauge – Vernier /Dial/ Electronic [§] L.C.: 0.001 mm	Upto 600 mm	9.90 μ m	Using Caliper Checker, Gauge Blocks, Electronic probe, Cylindrical Square, Surface Plate
12.	Depth Gauge- Vernier/Dial/ Electronic [§] L.C.: 0.01 mm	Upto 600 mm	13.0 μ m	Using Gauge Blocks, V-Block, & Dial Indicator, Surface Plate

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13.	Dial Snap Gauge [§]	1 mm to 200 mm	3.0 μ m	Using Gauge Blocks
14.	V- Block Parallelism & Symmetricity (Flatness) [§]	Upto 200 mm	2.80 μ m 6.10 μ m 3.20 μ m	Using Test Mandrel, Puppy Dial & Surface Plate By Comparison Method (IS 2949 - 1992)
15.	External Micrometer (Analog/Digital) [§] L.C.: 0.001 mm L.C.: 0.001 mm L.C.: 0.01 mm	Upto100 mm 100 mm to 300 mm 300 mm to 700 mm	2.00 μ m 4.0 μ m 12.0 μ m	Using Gauge Block Set, Optical Flat, Set of 4 Optical Parallels
16.	Internal Micrometer (Stick Type) Analog/Digital [§] L.C.: 0.001 mm	50 mm to 325 mm	9.90 μ m	Using Gauge Blocks & Set Slip Gauge Accessory
17.	Two Pin Dial Caliper [§] L.C.: 0.01 mm	10 mm to 200 mm	8.0 μ m	Using Gauge Block Set, Slip Gauge Accessories Set
18.	Depth Micrometer (Analog Digital) [§] L.C.: 0.001 mm	Upto 300 mm	5.0 μ m	Using Gauge Block Set, Surface Plate, V- Block & Dial Indicator
19.	Comparator Stand (Flatness of Work Table) [§]	Dia. Upto 100 Length Up to 400 x 400	5.6 μ m	Using Slip Gauge, Lever Dial, Optical flat

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20.	Plunger Type Dial Gauge (Analog/Digital) [§] L.C.: 0.001 mm ^Φ L.C.: 0.002 mm	Upto 25 mm Upto 100 mm	2.0 μ m 3.5 μ m	Using Dial Calibration Tester, Electronic Probe, Comparator Stand, Slip Gauge
21.	Lever Type Dial Gauge (Analog/Digital) [§] L.C.: 0.001mm	Upto 1 mm	2.30 μ m	Using Dial Calibration Tester, Electronic Probe
22.	Dial Bore Gauge (For Transmission Mechanism Two Points) [§]	Upto 2.0 mm	2.50 μ m	Using Dial Calibration Tester, Electronic Probe, Digital Micrometer
23.	Dial Thickness Gauge (Analog & Digital) [§] L.C.: 0.001 mm L.C.: 0.01 mm	Upto 25 mm 25 mm to 100 mm	2.0 μ m 6.0 μ m	Using Gauge Block Set
24.	Bevel Angle Protector [§] L.C.: 5'	0° - 90 °- 0 °	5.0 minute of arc	Using Sine Bar & Gauge Block, Dial Indicator, Surface Plate, Profile Projector, Angle Gauge

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25.	Combination Set / Angle Protractor ^{\$}	0 to 180°	30 minute of arc	Using Profile Projector, Angle Gauge
26.	Dial Calibration Tester/ Dial Gauge Calibrator ^{\$} L.C.: 0.001 mm	0 to 25 mm	1.30 μ m	Using Electronic Probe, Gauge Block
27.	Coating Thickness Gauge ^{\$}	2.00 mm	3.0 μ m	Using Thickness Foil
28.	Radius Gauge / Radius Measurement (Concave & Convex Profile) ^{\$}	0.6 mm to 25 mm	8.60 μ m	Using Profile Projector
29.	Thread Pitch Gauge ^{\$}	0.4 mm to 6.0 mm	6.0 μ m	Using Profile Projector
30.	Profile Projector [*] L.C.: 0.001mm L.C.: 1 s	Linear: 0 to 300 mm Angle 0 to 360° Magnification	4.70 μ m 78.60 s 8.0 %	Using Glass Scale, Angle Gauge, Angle Graticule
31.	Electronic Probe With D.R.O./ Comparator with Stand ^{\$} (Dial & Electronic) L.C.: 0.0001 mm	25 mm	0.90 μ m	Using Slip Gauge
32.	Micrometer Head ^{\$} L.C.: 0.0002 mm	0 to 25 mm	0.90 μ m	Using Gauge Block, Elec. Probe, Optical Flat

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33.	Plain Plug Gauge/ Width Gauge/ Flash Pin/Cylindrical Setting Master [§]	Upto 100 mm 100 mm to 200 mm	2.5 μ m 3.3 μ m	Using Electronic Probe With Comparator Stand, Gauge Blocks
34.	Plain Gap Gauge/ Snap Gauge Type- A,B,C [§]	Upto 100 mm 100 mm to 200 mm	1.5 μ m 3.0 μ m	Using Gauge Blocks
35.	Measuring Scale / Steel Scale / Taper Scale [§] L.C.: 1.00 mm	0 to 1000 mm 0 to 2000 mm	120 μ m 350 μ m	Using Profile Projector
36.	Test Sieves [§] (Aperture size)	Upto 10 mm >10 mm to 125 mm	10.0 μ m 25.0 μ m	Using Profile Projector, Digital Vernier Caliper
37.	Angle Gauge [§]	Upto 45°	10.0"	Using Gauge Block, Sine Bar, Dial Indicator, Surface Plate
38.	Gauge Block Accessories [§]	0 to 50 mm	2.0 μ m 2.0 μ m	Using Optical Flat, Measuring Pin, Electronic Probe, Surface Plate
39.	Engineer's Squareness / Granite Square [§]	Upto 300 Squareness, Flatness Straightness	8.0 μ m 4.0 μ m 4.0 μ m	Using Surface Plate, Gauge Blocks, Dial Indicator, Cylindrical Square

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40.	Straight Edge (Straightness)*	Upto 5 m	$4\sqrt{L}/125$ Where L in mm	Using Surface Plate Dial Indicator, Electronic Level Meter
41.	Surface Plate (Cast Iron/ Granite) (Flatness)* pppp	Upto 2 m	$3.70\sqrt{L+W}/125$ L&W in mm	Using Electronics Level Meter
42.	Spirit Level [§] 20 μ m/m	300 mm	12.0 μ m/m	Using Surface Plate, Tilting Table, Electronic Level Meter Cylindrical Square with Dial Indicator
43.	Angle Plate/ Box Angle Plate [§]	300 mm x 300 mm Parallelism Flatness Squareness	3.2 μ m 4.0 μ m 4.0 μ m	Using Electronic Level Meter, Surface Plate Jack 7 Dial Indicator, Cylindrical Square Gauge Blocks
44.	Ultrasonic Thickness Gauge [§] L.C.: 0.01 mm	Upto 200 mm	8.4 μ m	Using Steel Slip Gauge
45.	Fillet Welding Gauge (Scale Error, Angle Error) [§]	Upto 200 0 to 90°	10.0 5 minute of arc	Using Profile Projector
46.	Height Master [§] L.C.: 0.001 mm	0 to 300 mm	5.0 μ m	Using Gauge Block Surface plate, Electronic Comparator
47.	Micro Scope [§] L.C.: 0.001 mm	300 mm	4.5 μ m	Using Glass Scale

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II.	WEIGHING SCALE AND BALANCE			
1.	Weighing Balance # L.C.: 0.1mg 1.0 mg 10 g	0 to 200 g 0 to 1 kg 0 to 100 kg	0.35 mg 10.0 mg 6.0 g	Using Weight of Accuracy F1 & class M1 Procedure is based on OIML R-76by Direct Method
III.	PRESSURE INDICATING DEVICES			
1.	Digital or Analogue Pressure Gauge / Indicator with Transducer/ Transmitter / Switch #	0 to 70 bar 0 to 700 bar	0.11 bar 1.40 bar	Using Digital Pressure Gauge Using Oil Based Comparator Pump
2.	Digital or Analogue Vacuum Gauge / Indicator with Transducer, Switch #	0 to (-) 0.8 bar	0.01 bar	Using Digital Compound (Pressure/Vacuum) Gauge
3.	Digital or Analogue Pressure Gauge / Indicator with Transducer, Switch #	0 to 10 bar	0.02 bar	Using Digital Compound (Pressure/Vacuum) Gauge
IV.	ACCELERATION AND SPEED			
1.	RPM Measurement of Centrifuge #	500 rpm to 4800 rpm	2.48 %	Using Digital Tachometer (Non Contact Type)

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V.	DUROMETER			
1.	Rubber Hardness Tester: Spring Force Calibration [§]	Shore A Shore D	1.9 Shore A 1.9 Shore D	Using Rubber Hardness Tester Calibrator
VI.	ACOUSTICS			
1.	Sound Level Meter [§]	94 dB @ 1 kHz	0.67 dB	Using Sound Level Calibrator
VII.	VOLUME			
1.	Volumetric Measurement [§]	0.1 ml to 1 ml 1ml l to 10 ml 10 ml to 100 ml	0.65 μ l 5.25 μ l 5.50 μ l	Using Standard Weights of Accuracy Class F1, Precision Balance (0-200 gms), readability-0.1 mg, distilled Water of known density Based on IS-4787:2010, NABL-141 By Gravimetric Method

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<u>THERMAL CALIBRATION</u>				
I.	TEMPERATURE			
1.	RTD / Thermocouple with or without Indicator/Recorder/ Controller, Digital Thermometer With Sensor Probe, Temperature Gauge #	(-) 25 °C to 100 °C 100 °C to 400 °C	0.46 °C 1.01 °C	Using low Temp Dry Block Calibrator (Divya make -35/100°C), Using Dry Block Calibrator (R & D make, 50/650°C)
2.	Thermocouple with or without Indicator/ Recorder/ Controller, Digital Thermometer With Sensor Probe #	400 °C to 1200 °C	3.00 °C	Using Dry Block Calibrator (R & D make, 300/1200°C)
3.	Thermocouple with or without Indicator/ Recorder/ Controller, Digital Thermometer With Sensor Probe #	400 °C to 1200 °C	3.00 °C	Using Dry Block Calibrator (R & D make, 300/1200°C)
4.	Temperature Indicator of Freezers / Oven / Environment Chamber / Incubator / BOD Incubator / Dry Block / Furnaces At Single Specified Position #	(-) 25 °C to 400 °C 400 °C to 1200 °C	1.40 °C 3.02 °C	Using PT-100 RTD (4 wire) with Digital Thermometer S-Type Thermocouple with Indicator

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5.	Indicator of Humidity Chamber at single specified position #	15 % RH to 90 % RH @ \approx 25 °C 5°C to 35 °C @ \approx 50 % RH	1.0 RH 0.84 °C	Using Digital Thermo-hygrometer

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

§ Only in Permanent Laboratory

* Only for Site Calibration

The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

Ⓟ Laboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.