



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

PINPOINT PRECISION CALIBRATION LAB PRIVATE LIMITED, SHOP NO. 7 & 8, SOOD COMPLEX, DUGRI DHANDRA ROAD, DUGRI, LUDHIANA, PUNJAB, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

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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	MECHANICAL-DENSITY AND VISCOSITY	Specific Gravity Hydrometer - L.C.: 0.001 sp. gr. and Coarser	Using Standard Hydrometer & Liquids of Known Densities by Comparison Method as per IS 3104 (Part 2): 1982	> 1.0 sp. gr. to 1.6 sp. gr.	0.009 sp. gr.
2	MECHANICAL-DENSITY AND VISCOSITY	Specific Gravity Hydrometer - L.C.: 0.001 sp. gr. and Coarser	Using Standard Hydrometer & Liquids of Known Densities by Comparison Method as per IS 3104 (Part 2): 1982	0.70 sp. gr. to 1.0 sp. gr.	0.005 sp. gr.
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Analog / Digital External Micrometer - L.C.: 0.001 mm	Using Gauge Blocks Set & Optical Flat by Comparison Method	0 to 25 mm	1.8 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Analog / Digital External Micrometer - L.C.: 0.01 mm	Using Gauge Blocks Set, Length Bar, Optical Flat by Comparison Method	100 mm to 300 mm	9.8 µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Analog / Digital Thickness Gauge - L.C.: 0.001 mm & Coarser	Using Gauge Block Set by Comparison Method	0 to 12.7 mm	7.2 µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge - L.C.: 0.1 µm	Using Standard Thickness Foils by Comparison Method	0.025 mm to 100 µm	1.9 µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge - L.C.: 1 µm	Using Standard Thickness Foils by Comparison Method	> 100 µm to 686 µm	1.9 µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set / Angle Protractor - L.C.: 1°	Using Profile Projector by Comparison Method	0° to 180°	35 Minutes of Arc
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness)	Using Slip Gauge Set, Lever Type Dial Gauge by Comparison Method	Up to 400 mm X 400 mm	6.97 µm



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould / Beam Mould (Length, Width and Height)	Using Digital Vernier Caliper by Comparison method	Up to 150 mm	73.05 µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer - L.C.: 0.001 mm & Coarser	Using Gauge Blocks, V- Block & Surface Plate by Comparison Method	0 to 150 mm	6.4 µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge - L.C.: 0.001 mm	Using Dial Calibration Tester by Comparison Method	0 to 2 mm	2.9 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper - L.C.: 0.01 mm	Using Gauge Blocks Set by Comparison Method	10 mm to 150 mm	9.5 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Lever Type) - L.C.: 0.01 mm	Using Dial Calibration Tester by Comparison Method	Up to 0.8 mm	3.50 µm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Lever Type) - L.C.: 1 µm	Using Dial Calibration Tester by Comparison Method	0 to 0.140 mm	1.5 µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Lever type) - L.C: 2 µm	Using Dial Calibration Tester by Comparison Method	0 to 0.2 mm	1.5 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital / Analog Bevel Angle Protractor - L.C.: 0.01°	Using Profile Projector by Comparison Method	0° to 90°	3.0 Minutes of Arc
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Digital Vernier Caliper by Comparison Method	6.3 mm to 50 mm	28.81 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital) - L.C.: 0.001 mm	Using Gauge Blocks Set, Length bar & Optical Flat by Comparison Method	0 to 300 mm	5.92 µm



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - L.C.: 0.01 mm	Using Gauge Blocks set, Long Gauge Block Set, Optical Flat by Comparison Method	300 mm to 1000 mm	21.2 µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Comparison Method	0.03 mm to 2 mm	3.3 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Digital Vernier Caliper by Comparison Method	6.3 mm to 63 mm	23.3 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Glass Angle Graticule	Using Profile Projector by Comparison Method	0° to 360°	43.31 Minutes of Arc
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer / Stick Micrometer - L.C.: 0.001 mm	Using Slip Gauge Set, Slip Gauge Accessories by Comparison Method	5 mm to 50 mm	6.8 µm



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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer / Stick Micrometer - L.C.: 0.01 mm	Using Gauge Block & Gauge Block Accessories Set by Comparison Method	50 mm to 150 mm	11.40 μ m
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Laser Distance Meter - L.C.: 1 mm	Using Gauge Block & Long Gauge Block Set by Comparison Method	200 mm to 1000 mm	760 μ m
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Laser Distance Meter - L.C.: 1 mm	Using Slip Gauge Set, Length bar by Comparison Method	40 mm to 200 mm	757.29 μ m
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale / Steel Scale - L.C.: 1 mm	Using Profile Projector by Comparison Method	0 to 200 mm	577.4 μ m
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape - L.C.: 1 mm	Using Profile Projector by Comparison Method	0 to 200 mm	577.4 μ m



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30	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	0 to 1 mm	1.5 µm
31	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	0 to 10 mm	1.8 µm
32	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	0 to 25 mm	2.1 µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Direct Method	> 25 mm to 40 mm	14.6 µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Direct Method	0.6 mm to 25 mm	10.4 µm



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35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge / Profile Gauge / Bridge Cam Gauge / Jigs & Fixture (Angular Measurement)	Using Profile Projector by Direct Method	0° to 90°	60.4 Seconds of Arc
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge / Profile Gauge / Bridge Cam Gauge / Jigs & Fixture (Linear Dimension)	Using Profile Projector by Direct Method	Up to 100 mm X 150 mm	6.3 µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge / Profile Gauge / Bridge Cam Gauge / Jigs & Fixture (Radius Measurement)	Using Profile Projector by Direct Method	3 mm to 50 mm	292.53 µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Roughness Tester (Ra Value)	Using Standard Roughness Block by Comparison Method	0 to 2.97 µm	8.1 %
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using Gauge Blocks Set by Comparison Method	3 mm to 200 mm	3.6 µm



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40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism)	Using Surface Plate & Lever Dial Gauge by Direct method	Up to 1000 mm	19.04 μm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness of working Face)	Using Surface Plate, Lever Dial Gauge & Gauge Block by Direct Method	Up to 1000 mm	18.94 μm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale - L.C.: 0.1 mm and Coarser	Using Profile Projector by Direct Method	0 to 30 mm	35 μm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by Comparison Method	32 μm to 4 mm	7.8 μm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Vernier Caliper by Comparison Method	4 mm to 125 mm	12.7 μm



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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Flank Angle)	Using Profile Projector by Comparison Method	60°	13 Seconds of Arc
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector by Comparison Method	0.2 mm to 6 mm	5.9 µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge - L.C.: 0.1 mm	Using Gauge Block and Long Gauge Block by Comparison Method	4 mm to 100 mm	620.43 µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block (Flatness)	Using Surface Plate & Dial Indicator by Comparison Method	Up to 200 mm	4.6 µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block (Parallelism)	Using Surface Plate & Dial Indicator by Comparison Method	Up to 200 mm	4.6 µm



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50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block (Symmetricity)	Using Surface Plate, Test Mandrels & Dial Indicator by Comparison Method	Up to 200 mm	10 µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digital Height Gauge - L.C.: 0.01 mm & Coarser	Using Caliper Checker & Surface Plate by Comparison Method	0 to 1000 mm	20.23 µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digital Height Gauge - L.C.: 0.01 mm & Coarser	Using Caliper checker, Gauge Block Set & Surface Plate by Comparison Method	0 to 300 mm	9.6 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial / Digital) - L.C.: 0.01 mm & Coarser	Using Caliper Checker & Gauge Block Set by Comparison Method	0 to 300 mm	11 µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial / Digital) - L.C.: 0.01 mm and Coarser	Using Caliper Checker, Gauge Block Set by Comparison Method	0 to 1000 mm	15 µm



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55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial / Digital) - L.C.: 0.01 mm and Coarser	Using Gauge Blocks & Slip Gauge Accessories by Direct Method	0 to 150 mm	9.1 µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial / Digital) - L.C.: 0.02 mm & Coarser	Using Caliper Checker & Gauge Block Set by Comparison Method	0 to 600 mm	14.4 µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Depth Gauge (Dial / Digital) - L.C.: 0.02 mm & Coarser	Using Gauge Blocks, Length Bar & Surface Plate by Comparison Method	0 to 300 mm	18.4 µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Gauge / Chamfer Gauge / Weld Fillet Gauge / Hi-Lo Gauge / Bridge Cam Gauge (Angle) - L.C.: 1°	Using Profile Projector by Direct Method	0° to 60°	43.31 Minutes of Arc
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Gauge / Chamfer Gauge / Weld Fillet Gauge / Hi-Lo Gauge / Bridge Cam Gauge (Length) - L.C.: 1 mm	Using Profile Projector by Direct Method	0 to 60 mm	288.73 µm



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60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Comparison Method	0 to 7.62 mm	5.49 μm



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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Coaxially)	Using Test Mandrel, Lever Type Dial Gauge by Comparison Method	Up to 200 mm	8 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism)	Using Test Mandrel, Lever Type Dial Gauge by Comparison Method	Up to 200 mm	8 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould / Beam Mould (Length, Width and Height)	Using Digital Vernier Caliper by Comparison method	Up to 150 mm	73.05 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite / Cast Iron)	Using Electronic Level Meter by Compression Method	Up to 3000 mm x 1000 mm	26.8 *sqrt{(L+W)/125} µm, L & W in mm



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5	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Medium: Industrial / Hydraulic Pressure Gauge, Pressure Transducer with Indicator	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method as per DKD R 6-1	0 to 686 bar	0.98 bar
6	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Medium: Industrial / Pneumatic Pressure Gauge, Pressure Transducer with Indicator	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method as per DKD R 6-1	0 to 10 bar	0.037 bar
7	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Medium: Vacuum Gauge	Using Digital Pressure Gauge & Vacuum Pump by Comparison Method as per DKD R 6-1	(-) 0.9 to 0 bar	0.008 bar
8	THERMAL-TEMPERATURE	Environmental Chamber, Incubator, Oven, Water Bath, Furnace, Oil Bath, Dry Block (Multi-position)	Using RTD Sensor (9 Sensors) with Data Logger by Comparison Method	50 °C to 250 °C	4.02 °C
9	THERMAL-TEMPERATURE	Freezer, Refrigerator, Walk in Chamber, Chiller, Environmental Chamber, Incubator (Non Medical Purpose), Cold Room (Multi-position)	Using RTD Sensor (9 Sensors) with Data Logger by Comparison Method	(-) 25 °C to 50 °C	4.02 °C



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SOOD COMPLEX, DUGRI DHANDRA ROAD, DUGRI, LUDHIANA, PUNJAB, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

NABLC0626PB04758

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Validity

16/06/2026 to 15/06/2030

Last Amended on

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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)(±)
10	THERMAL-TEMPERATURE	Hot Air Oven, Industrial Furnace, Muffle Furnace, Hot Room & Belt Type Furnace (Multi-position)	Using N Type Thermocouple (Minimum 9 Sensors) with Data Logger by Comparison Method	250 °C to 920 °C	7.6 °C

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