

Laboratory Aspire Calibration Services, C-110/A, St. No. 7, Nehru Nagar, Delhi

Accreditation Standard ISO/IEC 17025: 2005

Discipline Mechanical Calibration **Issue Date** 19.03.2015

Certificate Number C-1191 **Valid Until** 18.03.2017

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. DIMENSION			
1. DIGITAL/ DIAL/ VERNIER CALIPER^{\$} L.C. 0.01mm ^Φ	Up to 300 mm >300 mm to 600 mm	8.00 μ m 9.00 μ m	Using Caliper Checker By Comparison Method
2. DIGITAL/ DIAL/ VERNIER DEPTH GAUGE^{\$} L.C. 0.01 mm ^Φ	Up to 300 mm	8.00 μ m	Using Caliper Checker & Gauge Block by Comparison Method
3. DIGITAL/ DIAL/ VERNIER HEIGHT GAUGE^{\$} L.C. 0.01mm ^Φ	Up to 300 mm > 300 mm to 600 mm	7.0 μ m 8.0 μ m	Using Caliper Checker & Lever Dial Gauge by Comparison Method
4. DIGITAL EXTERNAL MICROMETER^{\$} L.C. 0.001 mm ^Φ	Up to 100 mm > 100 mm to 300 mm	1.6 μ m 5.0 μ m	Using Gauge Block by Comparison Method
5. DIGITAL/DIAL/ INTERNAL MICROMETER^{\$} L.C. 0.001 mm ^Φ	Up to 50 mm > 50 mm to 300 mm	1.6 μ m 6.0 μ m	Using Gauge Block & Comparator Stand with Plunger Dial Gauge by Comparison Method

Neeraj Verma
Convenor

Avijit Das
Program Manager

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6. DIGITAL/ DIAL/DEPTH MICROMETER^s L.C. 0.001 mm ^Φ	Up to 50 mm > 50 mm to 300 mm	1.6 μ m 5.0 μ m	Using Caliper Checker, Gauge Block & Surface Plate by Comparison Method
7. DIGITAL/ DIAL GAUGE PLUNGER TYPE^s L.C. 0.001 mm	Up to 1 mm > 1mm to 10 mm	1.3 μ m 2.0 μ m	Using Dial Gauge Calibrator & Gauge Blocks by Comparison Method
L.C. 0.01 mm	Up to 25 mm > 25 mm to 50 mm	3.0 μ m 4.0 μ m	
8. DIGITAL/ DIAL TEST INDICATOR/ LEVER DIAL GAUGE^s L.C. 0.001mm ^Φ	Up to 1 mm	1.3 μ m	Using Dial Gauge Calibrator & Gauge Blocks by Comparison Method
9. DIAL /DIGITAL BORE GAUGE^s (Travel Only)	2 mm	3.5 μ m	Using Dial Gauge Calibrator Plunger Dial Gauge by Comparison Method
10. DIAL/ DIGITAL THICKNESS GAUGE^s L.C. 0.001 mm	Up to 10 mm > 10 mm to 25 mm	1.5 μ m 3.0 μ m	Using Gauge Blocks by Comparison Method
L.C. 0.01 mm	Up to 10 mm > 10 mm to 50 mm	5.0 μ m 5.0 μ m	

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11.	FEELER GAUGE ^{\$}	Up to 3 mm	3.0 μ m	Using Digital Micrometer by Comparison Method
12.	COATING THICKNESS GAUGE ^{\$}	Up to 700 μ m > 700 μ m to 1500 μ m	3.4 μ m 5.0 μ m	Using Standard Coating Foils by Comparison Method
13.	THICKNESS FOILS ^{\$}	> 10 mm to 1000 μ m	3.0 μ m	Using Digital Micrometer by Comparison Method
14.	SNAP GAUGE ^{\$}	Up to 100 mm	2.0 μ m	Using Gauge Blocks by Comparison Method
15.	LENGTH BARS/SETTING RODS ^{\$}	Up to 300 mm	10.0 μ m	Using Gauge Block, Comparator Stand & Plunger Dial Gauge by Comparison Method
16.	ELECTRONIC PROBE ^{\$} L. C. : 0.0001 mm	Up to 25 mm	10.0 μ m	Using Dial Gauge Calibrator & Slip Gauge by Comparison Method
17.	TEST SIEVE ^{\$} (Average Aperture/ Pitch of Aperture)	4 mm to 125 mm	21.0 μ m	Using Digital Vernier Caliper by Comparison Method
19.	PISTOL CALIPER ^{\$} L. C. : 0.01 mm	Up to 100mm	10.0 μ m	Using Gauge Blocks by Comparison Method

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II. PRESSURE AND VACCUM			
1. DIGITAL/ANALOGUE PRESSURE GAUGES[#] (Hydraulic)	0 to 600 kg/cm ²	0.89% rdg	Using Digital Pressure Gauge
	0 to 30 kg/cm ²	1.48% rdg	Using Digital Pressure/ Vacuum Gauge
2. DIGITAL/ANALOGUE VACCUM GAUGES[#]	0 to 700 mmHg	1.0% rdg	Using Digital Pressure/ Vacuum Gauge
	0 to 30 kg/cm ²	1.48% rdg	Using Digital Pressure/ Vacuum Gauge

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

^{\$} Only in Permanent Laboratory

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

^o 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.