

Laboratory

Mikronix Calibration Centre, Plot No. 12, CIDCO Service Industrial Zone, Aurangabad, Maharashtra

Accreditation Standard

ISO/IEC 17025: 2005

Certificate Number

CC-2421 (in lieu of C-0241)

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Validity

08.10.2017 to 07.10.2019

Last Amended on

12.10.2017

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>MECHANICAL CALIBRATION</u></b>				
<b>1.</b>	<b>DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>			
				Using Gauge Block Calibrator & Gauge Blocks
				Using Long Series
	Steel Slip Gauges <sup>§</sup> (Rectangular/ Square )	Up to 25 mm. > 25 mm to 50 mm > 50 mm to 75 mm > 75 mm to 100 mm	0.12 $\mu$ m 0.16 $\mu$ m 0.17 $\mu$ m 0.27 $\mu$ m	Using Gauge Block Calibrator & Gauge Blocks
<b>2.</b>	Steel Slip Gauge/ Length Bars <sup>§</sup>	> 100 mm to 200 mm > 200 mm to 300 mm > 300 mm to 400 mm > 400 mm to 500 mm	1.1 $\mu$ m 1.6 $\mu$ m 1.7 $\mu$ m 2.3 $\mu$ m	Using Gauge Block Calibrator (Long Series) & Length Bars
<b>3.</b>	Slip Gauge Accessories <sup>§</sup>	0 to 25 mm	1.0 $\mu$ m	Using Gr "0" Slip Gauge, Comparator Stand L.C. 0.1 $\mu$ m
<b>4.</b>	Caliper Checker/ Step Gauge/ Depth Checker <sup>§</sup>	Up to 300 mm Up to 600 mm	3.7 $\mu$ m 3.9 $\mu$ m	Using Gr "K" Slip Gauges
<b>5.</b>	Plain Plug/ Cylindrical Pin Gauge <sup>§</sup>	Upto 20 mm 20 mm to 100 mm > 100 mm to 250 mm	0.6 $\mu$ m 0.8 $\mu$ m 2.7 $\mu$ m	Using LMM
<b>6.</b>	Measuring Balls <sup>§</sup>	Up to 100 mm	0.4 $\mu$ m	Using LMM
<b>7.</b>	Electronic Probe <sup>§</sup> L.C. 0.1 $\mu$ m	Up to 25 mm	0.3 $\mu$ m	Using Gr "K" Slip Gauges

Ram Ashray  
Convenor

Avijit Das  
Program Director

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8.	LMM <sup>§</sup> (Horizontal Metroscope)	0 to 100 mm 100 mm to 500 mm	0.15 $\mu$ m 2.6 $\mu$ m	Using Gr "K" Slip Gauges
9.	Outside Micrometer <sup>§</sup> L.C. 0.001 mm L.C. 0.01 mm	0 to 200 mm 0 to 500 mm	2.6 $\mu$ m 7.4 $\mu$ m	Using Gr "K" Slip Gauges/ULM
10.	Micrometer Setting Rod <sup>§</sup>	Up to 500 mm	4.1 $\mu$ m	Using LMM
11.	Inside Micrometer <sup>§</sup> (Two Point)	5 mm to 500 mm	4.2 $\mu$ m	Using LMM or Slip Gauge Accessories with Slip Gauges
12.	Three Point Micrometer <sup>§</sup> L.C. 0.001	Upto 100 mm	4.2 $\mu$ m	Master Ring Gauges
13.	Depth Micrometer <sup>§</sup> L.C. 0.01 mm	Up to 300 mm	8.5 $\mu$ m	Using Depth Micro Checker
14.	Vernier Calipers <sup>§</sup> L.C. 0.01 mm L.C. 0.02 mm L.C. 0.05 mm	0 to 300 mm 0 to 600 mm 0 to 1000 mm 0 to 2000 mm 0 to 2000 mm	8.6 $\mu$ m 8.7 $\mu$ m 9.9 $\mu$ m 16.4 $\mu$ m 31.0 $\mu$ m	Using Caliper Checker/Length Bar
15.	Depth Vernier/ Gauge <sup>§</sup> L.C. 0.01 mm	Up to 300 mm	10.1 $\mu$ m	Using Depth Checker
16.	Electronic Height Gauge <sup>§</sup>	Up to 600 mm	2.2 $\mu$ m	Using Slip Gauges (In-house Use)

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17.	Dial Calibration Tester <sup>§</sup> L.C. 0.0001 mm	Up to 25 mm	0.4 $\mu$ m	Using Ele. Probe
18.	Dial Indicator Plunger Type <sup>§</sup> L.C. 0.0005 mm	Up to 50 mm	0.9 $\mu$ m	Using LMM + Attachment
19.	Dial Gauge Lever Type <sup>§</sup> L.C. 0.001 mm	$\pm$ 2.0 mm	0.9 $\mu$ m	Using LMM
20.	Bore Dial Gauge <sup>§</sup>	Up to 1 mm Transmission	2.6 $\mu$ m	Using LMM + Attachment
21.	Dial Thickness Gauge <sup>§</sup> L.C. 0.001 mm	Up to 50 mm	0.9 $\mu$ m	Using Slip Gauges
22.	Thread Plug Gauge <sup>§</sup> Effective diameter Major diameter	0 to 100 mm 100 mm to 200 mm	1.6 $\mu$ m 2.8 $\mu$ m	Using LMM
23.	Thread Ring Gauge <sup>§</sup> Effective diameter Minor diameter	$\emptyset$ 3 to $\emptyset$ 180	2.9 $\mu$ m	Using LMM
24.	Plain Ring Gauge <sup>§</sup>	> 3 mm to 100 mm 100 mm to 250 mm	1.3 $\mu$ m 2.9 $\mu$ m	Using LMM
25.	Snap Gauges <sup>§</sup>	Up to 200 mm	1.0 $\mu$ m	Slip Gauge
26.	Feeler Gauge <sup>§</sup>	Up to 1 mm	0.6 $\mu$ m	Using LMM
27.	Try Square <sup>§</sup> Squareness Parallelism	Up to 200 mm	2.7 $\mu$ m	Using Electronic Height Gauge

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28.	Sine Bar <sup>§</sup> Angle Verification	Up to 300 mm	10.7"	Using Slip Gauge, Angle Gauge
29.	Plain Taper Gauge <sup>§</sup>	0 to 10°	12.6"	Using LMM
30.	Electronic Level/ Spirit Level <sup>§</sup> L.C. 5 $\mu$ m/m	10 mm/m	5.0 $\mu$ m/m	Using LMM
31.	Comparator Stand With Electronic Probe <sup>§</sup> L.C. 0.1 $\mu$ m	Upto 500 mm	0.20 $\mu$ m	Using Slip Gauges
32.	Height Gauge <sup>§</sup> (Vernier, Dial, Digital) L.C. 0.01 $\mu$ m	0 to 600 mm 0 to 1000 mm	9.2 $\mu$ m 12.0 $\mu$ m	Using Caliper Checker Using Length Bars
33.	Video Measuring Machine <sup>§</sup> For Axis – X/Y For Angular Scale For Magnification	0 to 100 mm 0 to 360 ° Up to 130 X	1.6 $\mu$ m 1.0 min. 0.2%	Using Slip Gauge, Glass Scale and Angle Gauge Block
34.	Radius Gauge <sup>§</sup>	Up to 25 mm	4.2 $\mu$ m	Using Video Measuring Machine
35.	Thread Pitch Gauge <sup>§</sup> Angle Pitch	55 & 60 ° 0.3 mm to 6.0 mm	4.5 min. 4.5 $\mu$ m	Using Video Measuring Machine
36.	Height Block <sup>§</sup>	0 to 100 mm	0.8 $\mu$ m	Using Comparator Stand
37.	Test Sieve <sup>§</sup>	20 $\mu$ m to 3000 $\mu$ m	3.9 $\mu$ m	Using Video Measuring Machine

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38.	V-Block <sup>§</sup>	Up to 100 mm	5.2 $\mu$ m	Using Electronic Height Gauge
39.	LMM <sup>§</sup> (Horizontal Metroscope)	0 to 100 mm 100 mm to 500 mm	0.15 $\mu$ m 2.6 $\mu$ m	Using Gr "K" Slip Gauges
40.	Surface Plate <sup>*</sup>	L x W	$1.4 \times \left( \sqrt{\frac{L+W}{120}} \right) \mu\text{m}$	Using Electronic Level (Wyler)
41.	Electronic Height Gauge <sup>*</sup> L.C. 0.0001 mm	0 to 600 mm 0 to 1000 mm	3.8 $\mu$ m 5.3 $\mu$ m	Using Length Bars
42.	Profile Projector <sup>*</sup> For X/Y Axis For Angular Scale For Magnification	0 to 100 mm 0 to 360 ° Up to 130 X	1.6 $\mu$ m 1.0 min. 0.2%	Using Slip Gauge, Glass Scale and Angle Gauge Block

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

<sup>§</sup>Only in Permanent Laboratory

<sup>\*</sup>Only for Site Calibration

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