

Laboratory	Mikronix Calibration Centre, Plot No. 12, CIDCO Service Industrial Zone, API Corner, Aurangabad, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Calibration	Issue Date	08.10.2015
Certificate Number	C-0241	Valid Until	07.10.2017
Last Amended on	17.11.2015	Page	1 of 5

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
I. DIMENSION			
1. Slip Gauges ^{\$} (Tungsten Carbide)	Upto 25 mm.	0.10 μ m	Using Gauge Block Calibrator& Gauge Blocks
	Over 25 mm to 50 mm	0.12 μ m	
	Over 50 mm to 75 mm	0.14 μ m	
	Over 75 mm to 100 mm	0.17 μ m	Long Series
	100 mm to 250 mm	0.40 μ m	
Steel Slip Gauges ^{\$} (Rectangular/Square)	Upto 25 mm	0.12 μ m	Using Gauge Block Calibrator & Gauge Blocks
	Over 25 mm to 50 mm	0.16 μ m	
	Over 50 mm to 75 mm	0.17 μ m	
	Over 75 mm to 100 mm	0.27 μ m	
2. Steel Slip Gauge/ Length Bars ^{\$}	Over 100 mm to 200 mm	1.1 μ m	Using Gauge Block Calibrator (Long Series) & Length Bars
	Over 200 mm to 300 mm	1.6 μ m	
	Over 300 mm to 400 mm	1.7 μ m	
	Over 400 mm to 500 mm	1.9 μ m	
3. Slip Gauge Accessories ^{\$}	0 to 25 mm	0.8 μ m	Using Gr "0" Slip Gauge, Comparator Stand L.C. 0.1 μ m
4. Caliper Checker/Step Gauge/Depth Checker ^{\$}	Upto 300 mm	3.7 μ m	Using Gr "0" Slip Gauges
	Upto 600 mm	3.9 μ m	
5 Outside Micrometer ^{\$} L.C. 0.001 mm L.C. 0.01 mm	0 to 200 mm	2.6 μ m	Using Gr "0" Slip Gauges/ULM
	0 to 500 mm	7.4 μ m	
6. Micrometer Setting Rod ^{\$}	Upto 500 mm	4.07 μ m	Using LMM
7. Inside Micrometer ^{\$} (Two Point)	5 mm to 500 mm	3.8 μ m	Using LMM OR Slip gauge accessories with slip gauges
8. Three Point Micrometer ^{\$} L.C. 0.005	Upto 100 mm	4.2 μ m	Master Ring Gauges

Ram Ashray
Convenor

Avijit Das
Program Manager

Laboratory	Mikronix Calibration Centre, Plot No. 12, CIDCO Service Industrial Zone, API Corner, Aurangabad, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Calibration	Issue Date	08.10.2015
Certificate Number	C-0241	Valid Until	07.10.2017
Last Amended on	17.11.2015	Page	2 of 5

Quantity Measured/ Instrument		Range / Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
9.	Depth Micrometer ^{\$} L.C. 0.01 mm	Upto 300 mm	8.5 μ m	Using Depth Micro checker
10.	Vernier Calipers ^{\$} L.C. 0.01 mm	Upto 300 mm Upto 600 mm Upto 1000 mm	8.6 μ m 8.7 μ m 9.9 μ m	Using Caliper Checker/Length Bar
	L.C. 0.02 mm	Upto 2000 mm	16.4 μ m	Using Length Bar
	L.C. 0.05 mm	Up to 2000 mm	31.0 μ m	
11.	Depth Vernier/Gauge ^{\$} L.C. 0.01 mm	Upto 300 mm	9.7 μ m	Using Depth Checker
12.	Dial Calibration Tester ^{\$} L.C. 0.0001 mm	Upto 25 mm	0.34 μ m	Using Ele. Probe L.C. 0.1 μ m
13.	Electronic Height Gauge ^{\$}	Upto 600 mm	2.2 μ m	Using Slip Gauges (In-house Use)
14.	Dial Indicator Plunger type ^{\$} L.C. 0.0005 mm	Upto 50 mm	0.67 μ m	Using LMM + Attachment
15.	Dial Gauge lever Type ^{\$} L.C. 0.001 mm	$\pm$ 2.0 mm	0.7 μ m	Using LMM
16.	Bore Dial Gauge ^{\$}	Upto 1 mm Transmission	2.6 μ m	Using LMM + Attachment
17.	Thread Plug Gauge ^{\$} Effective diameter Major diameter	0 to 100 mm 100 mm to 200 mm	1.6 μ m 2.8 μ m	Using LMM
18.	Thread Ring Gauge ^{\$} Effective diameter Minor diameter	$\varnothing$ 3 to $\varnothing$ 180	2.5 μ m	Using LMM + T-Stylus

Ram Ashray
Convenor

Avijit Das
Program Manager

Laboratory	Mikronix Calibration Centre, Plot No. 12, CIDCO Service Industrial Zone, API Corner, Aurangabad, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Calibration	Issue Date	08.10.2015
Certificate Number	C-0241	Valid Until	07.10.2017
Last Amended on	17.11.2015	Page	3 of 5

Quantity Measured/ Instrument		Range / Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
19.	Plain Plug/ Cylindrical Pin Gauge ^{\$}	Upto 20 mm 20 mm to 100 mm Over 100 mm to 250 mm	0.6 μ m 0.8 μ m 2.7 μ m	Using LMM
20.	Plain Ring Gauge ^{\$}	Over 3 mm to 100 mm 100 mm to 250 mm	1.0 μ m 2.9 μ m	Using LMM
21.	Snap Gauges ^{\$}	Upto 200 mm	1.0 μ m	Slip Gauge
22.	Feeler Gauge ^{\$}	Upto 1 mm	0.6 μ m	Using LMM
23.	All Types of V-Block ^{\$} Parallelism Squareness Symmetricity	Upto 100 mm	5.2 μ m	Using Electronic Height Gauge
24.	Dial Thickness Gauge ^{\$} L.C. 0.001 mm	Upto 50 mm	0.9 μ m	Using Slip Gauges
25.	Try Square ^{\$} Squareness Parallelism	Upto 200 mm	2.7 μ m	Using Electronic Height Gauge
26.	External Taper ^{\$} Length Diameter Angle ⁰	100 mm 100 mm Upto 10 ⁰	12.6" Of Arcs	Using LMM
27.	Electronic Level/ Spirit Level ^{\$} L.C. 5 μ m/m	10 mm/m	4.9 μ m/m	Using LMM

Ram Ashray
Convenor

Avijit Das
Program Manager

Laboratory	Mikronix Calibration Centre, Plot No. 12, CIDCO Service Industrial Zone, API Corner, Aurangabad, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Calibration	Issue Date	08.10.2015
Certificate Number	C-0241	Valid Until	07.10.2017
Last Amended on	17.11.2015	Page	4 of 5

	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
28.	LMM ^{\$} (Horizontal Metroscope)	0 to 100 mm 100 mm to 500 mm	0.15 μ m 2.57 μ m	Using Sine Bar & Electronic Probe. Using Slip Gauges
29.	Electronic Probe ^{\$} L.C. 0.1 μm	Upto 25 mm	0.2 μ m	Using Slip Gauges
30	Comparator Stand With Electronic Probe ^{\$} L.C. 0.1 μm	Upto 500 mm	0.20 μ m	Using Slip Gauges
31.	Height Gauge ^{\$} (Vernier, Dial, Digital) L.C. 0.01 μm	0 to 600 mm 0 to 1000 mm	9.2 μ m 12.0 μ m	Using Caliper Checker Using Length Bars
32.	Radius Gauge ^{\$}	Upto 25 mm	4.2 μ m	Using Video Measuring Machine
33.	Thread Pitch Gauge ^{\$} (Angle) (Pitch)	55, 60 ⁰ 0.3 mm to 6.0 mm	4.5 min 4.5 μ m	Using Video Measuring Machine
34.	Glass Scale ^{\$}	0 to 10 mm	7.0 μ m	Using Video Measuring Machine
35.	Test Sieves ^{\$}	20 μ m to 3000 μ m	3.9 μ m	Using Video Measuring Machine

Ram Ashray
Convenor

Avijit Das
Program Manager

Laboratory	Mikronix Calibration Centre, Plot No. 12, CIDCO Service Industrial Zone, API Corner, Aurangabad, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Calibration	Issue Date	08.10.2015
Certificate Number	C-0241	Valid Until	07.10.2017
Last Amended on	17.11.2015	Page	5 of 5

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
36. LMM * (Horizontal Metroscope)	Upto 100 mm	0.15 μm	Using Slip Gauges
37. Electronic Height Gauge* L.C. 0.0001 mm	100 to 500 mm	2.6 μm	Using Length Bars
	0 to 600 mm	3.8 μm	
	Upto 1000 mm	5.3 μm	
38. Surface Plate *	2500 mm x 2500 mm	$1.3 \times \left(\sqrt{\frac{L+W}{120}} \right) \mu\text{m}$	Using Electronic Level (Wyler)

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

\$ Only in Permanent Laboratory

*Only for Site Calibration

Ram Ashray
Convenor

Avijit Das
Program Manager