

Laboratory **Bharti Automation Private Limited, 48-49, Vasundhra Nagar, Bhiwadi, Distt. Alwar, Rajasthan**

Accreditation Standard **ISO/IEC 17025:2005**

Discipline **Mechanical Calibration** **Issue Date** **24.04.2015**

Certificate Number **C-0678** **Valid Until** **23.04.2017**

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability (\pm)	Remarks
I. DIMENSION			
1. CALIPER^{\$} L.C. 0.01 mm^Φ	0 to 600 mm	16 μ m	Using Caliper Checker
2. HEIGHT GAUGE^{\$} L.C. 0.01 mm^Φ	0 to 600 mm	18.6 μ m	Using Caliper Checker
3. EXTERNAL MICROMETER^{\$} L.C. 0.001 mm^Φ	0 to 150 mm	3.8 μ m	Using Slip gauge set
4. DIAL GAUGE^{\$} L.C. 0.001 mm^Φ	0 to 10 mm	2.0 μ m	Using Comparator Stand+ Slip gauge set
5. LEVER DIAL GAUGE^{\$} L.C. 0.001 mm^Φ	0 to 1 mm	2.5 μ m	Using Comparator Stand + Slip gauge set
6. PLAIN PLUG GAUGE^{\$}	Upto 100 mm	2.5 μ m	Using Comparator Stand + Slip gauge set + Dial Gauge
7. FEELER GAUGE^{\$}	Upto 1 mm	4.0 μ m	Using Digital Micrometer
8. DEPTH MICROMETER^{\$} L.C. 0.01 mm	0 to 300 mm	14.0 μ m	Using Slip gauge set + caliper checker
9. COATING THICKNESS GAUGE^{\$}	Up to 1mm	4.0 μ m	Standard Foils
10. DIAL THICKNESS GAUGE^{\$} L.C 10 μm	Up to 50mm	6.0 μ m	Using slip gauge set

Vishal Shukla
Convenor

Avijit Das
Program Manager

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11. V-BLOCK \$ (Squareness, Flatness & V Parallelism)	Up to 6"	5 μ m	Using Master cylinder + dial gauge + cylindrical mandrel
12. SNAP GAUGE\$	1mm to 150mm	3.1 μ m	Using slip gauge set
13. MEASURING PIN\$	Up to 25 mm	2.4 μ m	Using digital micrometer
14. STANDARD FOIL\$	Up to 2 mm	3.0 μ m	Using digital micrometer
15. DEPTH GAUGE \$ (L.C 0.02mm)	Up to 150 mm	16.0 μ m	Using Slip gauge set
II. MASS			
1. Weights\$ (Accuracy Class M3 Weights only)	1 g	0.6 mg	Using F1 Class standard weight
	2 g	0.9 mg	
	5 g	0.9 mg	
	10 g	0.9 mg	
	20 g	0.9 mg	
	50 g	0.9 mg	
	100 g	0.9 mg	
	200 g	0.9 mg	
	500 g	0.9 g	Using M1 Class Standard weight
	1 kg	0.9 g	
	2 kg	0.9 g	
	5 kg	0.9 g	
	10 kg	0.9 g	
	20 kg	1.5g	
	35 kg	1.5 g	

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2. WEIGHING BALANCE[#]			
(Accuracy Class III And Coarser)			
Readability 0.001 g	1 mg to 5 g	0.001 g	Using (F1 & M1) Class standard weight
	5 g to 50 g	0.002 g	
	50 g to 200 g	0.003 g	
Readability 1 g	200 g to 500	0.65 g	
	500 g to 5 kg	0.75 g	
	5 kg to 10 kg	1.0 g	
	10 kg to 35 kg	2.1 g	
III. VOLUME			
1. VOLUME GLASSWARES^{\$}			
(Pipette, Burette, Measuring Cylinder & Flaks Etc)	1 ml to 10 ml	0.50 ml	Using (F1 & M1) Class standard weights & Distilled water of known density
	>10 to 100 ml	0.55 ml	
	> 100 to 200 ml	0.7 ml	
	> 200 to 500 ml	0.8 ml	
	>500 to 1000 ml	3.4 ml	
	>1000 to 10000 ml	4.4 ml	

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IV. PRESSURE & VACUUM			
1. PNEUMATIC & HYDRAULIC INDUSTRIAL PRESSURE GAUGE DIGITAL ANALOG PNEUMATIC HYDRAULIC[#]	1 bar to 3 bar	0.02 bar	Using Precision Pressure gauge and Compensates
	0 bar to 35 bar	0.17 bar	
	0 bar to 700 bar	2.47 bar	
VACUUM GAUGES[#]	(-)0.95 bar to (-)0.1 bar	0.01 bar	

* 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.

^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.

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