Laboratory	**Phoenix Calibration Services, 313, Lotus Arcade, Gondal Road, Rajkot, Gujarat**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Discipline	**Mechanical Calibration**	**Issue Date**	**24.04.2015**
Certificate Number	**C-0889**	**Valid Until**	**23.04.2017**
Last Amended on	**05.06.2015**	**Page**	**1 of 4**

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
I DIMENSION			
1. CALIPER$ (Vernier / Dial / Digital)			
L.C:- 10 µm$^{\Phi}$	Upto 300 mm Upto 600 mm	15.5 µm 18.6 µm	Using Gauge Block Set & Long Slip Gauge by Comparison Method
2. DEPTH VERNIER CALIPER$ (Vernier / Dial / Digital)			
L.C:- 10 µm	Upto 300 mm	17.1 µm	Using Gauge Block Set & Long Slip Gauge by Comparison Method
3. HEIGHT GAUGE$ (Vernier / Dial / Digital)			
L.C:- 10 µm	Upto 300 mm Upto 600 mm	15.8 µm 18.6 µm	Using Gauge Block Set & Long Slip Gauge by Comparison Method
4. EXTERNAL MICROMETER$			
L.C:-1 µm	Upto 100 mm > 100 mm to150 mm	1.8 µm 3.6 µm	Using Gauge Block Set & Long Slip Gauge by Comparison Method
L.C:-10 µm	Upto 100 mm > 100 mm to 300 mm >300 mm to 600 mm	7.9 µm 11.7 µm 11.7 µm	
5. INTERNAL MICROMETER$			
L.C:- 10 µm	50 mm to 250 mm	13 µm	Using Gauge Block /Dial with Transfer Stand by Comparison Method

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Convenor

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Program Manager

	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
6.	**DEPTH MICROMETER$**			
	L.C:- 10 µm	Upto 300 mm	13.9 µm	Using Gauge Block Set & Long Slip Gauge by Comparison Method
7.	**DIAL GAUGE$**			
	(Plunger / Digital Type)			
	L.C:- 0.5 µm	Upto 1 mm	1.8 µm	Using Dial Calibration Tester by Comparison Method
	L.C:- 1.0 µm	Upto 25 mm	2.9 µm	
8.	**DIAL GAUGE$**			
	(Lever Type)			
	L.C:- 2.0 µm	upto 0.2 mm	2.9 µm	Using Dial Calibration Tester by Comparison Method
	L.C:- 10.0 µm	Upto 1.0 mm	6.8 µm	
9.	**BORE GAUGE WITH DIAL FOR TRANSMISSION ACCURACY$**			
	L.C:- 1.0 µm	upto 1 mm	3.6 µm	Using Dial Calibration Tester by Comparison Method
10.	**MICROMETER SETTING ROD/ SETTING PIECE$**	0 mm to 100 mm	2.1 µm	Using Gauge Block / Comparator with Probe
		>100 mm to 300 mm	5.6 µm	
		>300 mm to 600 mm	12.0 µm	
11.	**PLAIN PLUG GAUGE & SETTING MASTER$**	Upto 20 mm	2.9 µm	Using Gauge Block / Comparator with Probe by Comparison Method
		> 20 mm to 250 mm	4.5 µm	

	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
12.	**PLAIN RING GAUGE$**	25 mm to 250 mm	4.4 µm	Using ULM / Gauge Block Set /Long Slip Gauge / Bore Gauge /Probe by Comparison Method
13.	**SNAP GAUGE$**	Upto 100 mm >100 mm to 250 mm	2.9 µm 6.1 µm	Using Gauge Block Set by Comparison Method
14.	**MEASURING PIN$**	Upto 20 mm	2.9 µm	Using Gauge Block / Comparator with Probe by Comparison Method
15.	**THREAD PLUG GAUGE$ (For Effective Diameter)**	Upto 25 mm >25 mm to 150 mm	3.6 µm 3.6 µm	Using Thread Measuring Wires/ Digital External Micrometer by Comparison Method
16.	**DIAL CALIBRATION TESTER$ L.C:-1.0 µm**	Upto 25 mm	2.7 µm	Using Gauge Block / Comparator with Probe by Comparison Method
17.	**ELECTRONIC PROBE$ L.C:-1.0 µm**	upto 10 mm	0.8 µm	Using Gauge Block by Comparison Method
18.	**PISTOL CALIPER$ L.C:-10.0 µmΦ**	upto 50 mm	7.9 µm	Using Gauge Block by Comparison Method
19.	**FEELER GAUGE$**	Upto 1 mm	3.2 µm	Using Micrometer by Comparison Method

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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
20.	**INTERNAL DIAL CALIPER$** **L.C:- 10 µm**	Upto 100 mm	9.1 µm	Using Gauge Block Set by Comparison Method
21.	**COMPARATOR STAND$ (Flatness)**	Upto 300 mm	9.9 µm	Using Dial Indicator by Comparison Method
22.	**V- BLOCK$ (Parallelism, Squarness, Symmetry)**	Upto 300 mm	7.0 µm	Using Cylindrical Mandrel / Probe by Comparison Method
23.	**DIAL THICKNESS GAUGE$** **L.C:- 10 µm**	Upto 10 mm	7.9 µm	Using Gauge Block Set by Comparison Method
24.	**TEST SIEVE SET$ (Only Perforated Plate Type)**	> 1 mm to 125 mm	64 µm	Using Digital Caliper by Comparison Method
II.	**PRESSURE & VACCUM**			
1.	**PRESSURE GAUGE#**	0 to 700 bar	3.77 bar	Using Digital Pressure Gauge With hydraulic Comparator By Comparison Method

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

$Only in Permanent Laboratory

Φ 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.

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

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