Laboratory	**German Calibration Lab, 1st Floor, Office No. 2, Gondal Road, Rajkot, Gujarat**			
Accreditation Standard	**ISO/IEC 17025: 2005**			
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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	MECHANICAL CALIBRATION			
I.	**DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)**			
1.	Caliper[$] (Vernier/ Dial/ Digital) L.C. 10 µm	0 to 600 mm 0 to 1000 mm	13 µm 20 µm	Using Caliper Checker by Comparison Method
2.	Depth Gauge[$] (Vernier/ Dial/ Digital) L.C. 10 µm	0 to 300 mm	15 µm	Using Gauge Block Set by Comparison Method
3.	Height Gauge [$] (Vernier/ Dial/ Digital) L.C. 10 µm	0 to 1000 mm	15 µm	Using Caliper Checker by Comparison Method
4.	External Micrometer[$] L.C. 1 µm L.C. 10 µm	0 to 300 mm 300 mm to 800 mm	5 µm 11.7 µm	Using Gauge Block Set by Comparison Method
5.	Micrometer Setting Rod[$]	25mm to 275 mm 275mm to 775 mm	6.5 µm 13.5 µm	Using Gauge Block Set by Comparison Method
6.	Plunger Type Dial[$] L.C. 0.5 µm	Up to 25mm	1.4 µm	Using EDCT by Comparison Method

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Convenor

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
7.	Lever Type Dial$ L.C. 1 µm L.C. 10 µm	 0 to 0.140 Upto 1 mm	 1.6 µm 6.0 µm	Using EDCT by Comparison Method
8.	Depth Micrometer $ L.C. 10 µm	Up to 300 mm	12 µm	Using Gauge Block Set by Comparison Method
9.	Spline Plug Gauge$	1mm to 100 mm	3.7 µm	Using ULM, Measuring Pin by Comparison Method
10.	Bore Dial Gauge$	Up to1 mm	1.5 µm	Using EDCT by Comparison Method
11.	Dial Snap Gauge$	25mm to 200 mm	3.0 µm	Using Gauge Block Set by Comparison Method
12.	Spline Ring Gauge$	3 mm to 100 mm	3.8 µm	Using ULM, Measuring Pin by Comparison Method
13.	Plain Snap Gauge $	1 mm to 300 mm	4.0 µm	Using Gauge Block Set by Comparison Method
14.	Plain Plug Gauge Width/Depth/ Flush Pin Gauge$	0.10 to 100 mm 100mm to 200 mm	1.5 µm 2.5 µm	Using ULM by Comparison Method
15.	Pistol Caliper$ L.C. 100 µm	0 to 50 mm	30 µm	Using Gauge Block Set by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
16.	Dial Thickness Gauge $ L.C. 10 µm	0 to 10 mm	4.8 µm	Using Gauge Block Set by Comparison Method
17.	Measuring Pin / Thread Measuring Wire$	0.010 to 20 mm	1.8 µm	Using ULM by Comparison Method
18.	Surface Plate #	2000mm x 2000 mm	$2.1\sqrt{\frac{L+W}{125}}$	Using Electronic Level By Comparison Method
19.	Plain Ring Gauge$	3 mm to 100 mm 100 mm to 300 mm	1.7 µm 2.9 µm	Using ULM by Comparison Method
20.	Thread Plug Gauge$	1mm to 100 mm 100mm to 200 mm	2.0 µm 3.6 µm	Using ULM by Comparison Method
21.	Thread Ring Gauge$	3mm to 100 mm 100mm to 200 mm	1.7 µm 4.5 µm	Using ULM & Master ring by comparison method
22.	Taper Thread Plug Gauge$	10 mm to 100 mm 100mm to 200 mm	3.0 µm 5.1 µm	Using ULM & Cylindrical setting master by comparison method
23.	Taper Thread Ring Gauge$	10 mm to 100 mm 100mm to 200 mm	3.0 µm 6.1 µm	Using ULM & Master ring by comparison method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
24.	Electronic Height Gauge[#] L.C. 1 µm	0 to 600 mm	5.4 µm	Using Gauge Block, Long Gauge Block by Comparison Method
II.	**DIMENSION (PRECISION INSTRUMENTS)**			
1.	Caliper Checker[$]	0 to 600 mm	6.4 µm	Using Long gauge block by comparison method
2.	Surface Roughness Tester[$] **(Portable)**	Ra 10 µm	11.5%	Using Surface Roughness master
3.	Surface Roughness Master[$]	Ra 350 µm	10%	Using Surface Roughness Tester

*** Measurement Capability is expressed as an uncertainty (±) 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.

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