Laboratory	**Hi-Tech Services Calibration Laboratory, 204 KH, E Ward, G-3 Sharda Chamber, New Shahupuri, Kolhapur, Gujarat**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**CC-2352**	**Page**	**1 of 3**
Validity	**18.08.2017 to 17.08.2019**	**Last Amended on**	**--**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	MECHANICAL CALIBRATION			
I.	**DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)**			
1.	Calipers[$] (Dial/Vernier/Digital) L.C. 10 µm	0 to 300 mm	20.0 µm	Using Caliper Checker by Comparison Method
2.	Depth Gauge[$] (Dial/Vernier/Digital) L.C. 20 µm	0 to 200 mm	18.0 µm	Using Slip Gauge & Surface Plate by Comparison Method
3.	Height Gauge[$] (Dial/Vernier/Digital) L.C. 10 µm	0 to 300 mm	23.0 µm	Using Caliper Checker & Surface Plate by Comparison Method
4.	External Micrometer [$] L.C.: 1 µm L.C.: 10 µm	0 to 50 mm 0 to 150 mm	2.8 µm 7.7 µm	Using Gauge Block Set by Comparison Method
5.	Micrometer Setting Rod[$]	0 to 125 mm	2.3 µm	Using Gauge Block Set & Dial Comparator with Stand by Comparison Method

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Certificate Number	**CC-2352**	**Page**	**2 of 3**	
Validity	**18.08.2017 to 17.08.2019**	**Last Amended on**	**--**	

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
6.	Dial Gauge[$] (Plunger Type) L.C.: 1 µm	0 to 10 mm	2.7 µm	Using Dial Calibration Tester by Comparison Method
7.	Dial Gauge[$] (Lever Type) L.C.: 1 µm	0 to 0.8mm	2.7 µm	Using Dial Calibration Tester by Comparison Method
8.	Bore Gauge with Dial (For Transmission Error)[$] L.C.: 1 µm	Up to 1.0mm	4.0 µm	Using Dial Calibration Tester by Comparison Method
9.	Plain Plug Gauge[$]	1mm to 150mm	2.6 µm	Using Gauge Block Set & Dial Comparator With Stand by Comparison Method
10.	Cylindrical Measuring Pin[$]	1mm to 20mm	2.6 µm	Using Gauge Block Set & Dial Comparator With Stand by Comparison Method
11.	Snap Gauge[$]	2mm to 200 mm	1.5 µm	Using Gauge Block Set by Comparison Method
12.	Feeler Gauge[$]	0 to 1.0mm	3.0 µm	Using Comparator With Electronic Probe by Comparison Method

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Certificate Number	**CC-2352**	**Page**	**3 of 3**
Validity	**18.08.2017 to 17.08.2019**	**Last Amended on**	**--**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
13.	Pistol Caliper[$] L.C.: 100 µm	Up to 50mm	70.0 µm	Using Gauge Block by Comparison Method
14.	Surface Plate [#]	1000 mm x 3000mm	$7.5\sqrt{\frac{L+W}{150}}$ µm (L&W in mm)	Using Spirit Level L.C 20 µm /mtr.by Comparison Method

*** Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%**
[$]Only in Permanent Laboratory
[#] The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

Abhinav Thakur
Convenor

Avijit Das
Program Director