

Laboratory Karnataka Material Testing And Research Centre, Mechanical Calibration Division, Shed No. G4-G5, Industrial Estate, Gokul Road, Hubli, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2096 **Page** 1 of 3

Validity 29.12.2018 to 28.12.2020 **Last Amended on** -

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)				
1.	Caliper (Vernier / Dial / Digital) [§] LC 10 μ m	0 to 300 mm	39 μ m	Using Caliper Checker
2.	External Micrometer [§] LC 1 μ m	0 to 100 mm	3.7 μ m	Using ULM & Gauge Block Set Gr.'0" Carbide
3.	Micrometer Setting Standard [§]	Upto 75 mm	3.1 μ m	Using ULM
4.	Depth Micrometer [§] LC 10 μ m	Upto 150 mm	11.3 μ m	Using Gauges Block Sets Gr. '0' Carbide & Surface Plate

Mohit Kaushik
Convenor

Avijit Das
Program Manager

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
5.	Internal Micrometer [§] 2-points Basic Travel Accuracy LC 10 μ m & Overall Length Accuracy with Extension Rod (Stick)	50 mm to 63 mm	7.0 μ m	Using ULM by Comparison Method
6.	Plunger Dial Gauge [§] LC 1 μ m LC 10 μ m	Upto 1 mm Upto 10 mm	3.2 μ m 10.5 μ m	Using ULM
7.	Lever Dial Gauge [§] LC 2.0 μ m LC 10 μ m	Upto 0.18 mm Upto 0.8 mm	4.0 μ m 10.5 μ m	Using ULM
8.	Plain Plug Gauge [§]	Upto 100 mm	3.1 μ m	Using ULM
9.	Plain Ring Gauge [§]	12 mm to 55 mm	4.9 μ m	Using ULM & Master Ring
10.	Snap Gauge [§]	5 mm to 100 mm	3.2 μ m	Using Gauges Block Sets Gr. '0' Carbide
11.	Thread Plug Gauge [§] Effective Diameter	Upto 100	4.7 μ m	Using ULM & Thread Measuring Wires
12.	Thread Ring Gauge [§] Effective Diameter	5 mm to 50mm	5.0 μ m	Using ULM & Master Ring

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
13.	Length Measuring Machine ^{\$} LC: 0.1 μ m	Upto 100	2.1 μ m	Using Gauges Block Sets Gr. '0' Carbide
14.	Vernier Height Gauge ^{\$} LC: 0.01	Upto 300mm	37.0 μ m	Using Gauges Block Sets Gr. '0' Carbide & Surface Plate
15.	Depth Vernier Caliper ^{\$} LC: 0.02 mm	Upto 300mm	37.0 μ m	Using Gauges Block Sets Caliper Checker & Surface Plate
16.	Surface Table / Plate [#]	1000 x 1000 mm	$3.3 \sqrt{\frac{L+W}{90}}$	Using Spirit Level (Electronic Level)

* 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.

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