

**Laboratory** The Hi-Tech Gears Ltd., A-588 & 589, Industrial Complex, Bhiwadi, Alwar, Rajasthan

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

**Certificate Number** CC-2901 **Page** 1 of 2

**Validity** 03.12.2018 to 02.12.2020 **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
<b><u>MECHANICAL CALIBRATION</u></b>				
<b>I. DIMENSION (PRECISION INSTRUMENTS)</b>				
1.	Surface Roughness Specimen <sup>§</sup>	Up to 5 $\mu$ m	8.4 %	Using Surface Roughness Tester & Specimen by Comparison Method
<b>II. DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>				
1.	Dial Gauges <sup>§</sup> (Plunger Type) L.C.: 0.001 mm <sup>φ</sup>	Up to 25 mm	2.20 $\mu$ m	Using Dial Calibration Tester
2.	Dial Gauges <sup>§</sup> (Lever Type) L.C.: 0.01 mm L.C.: 0.001 mm	Up to 0.8 mm Up to 0.14 mm	6.0 $\mu$ m 2.1 $\mu$ m	Using Dial Calibration Tester
3.	Bore Gauge <sup>§</sup> (Transfer Accuracy) L.C.: 0.001 mm	Up to 2 mm	3.6 $\mu$ m	Using Dial Calibration Tester by Comparison Method
4.	External Micrometer <sup>§</sup> L.C.: 0.001 mm <sup>φ</sup>	0 to 25 mm 0 to 100 mm	1.20 $\mu$ m 2.90 $\mu$ m	Using Gauge Blocks & Micrometer Check Set
5.	Vernier Caliper <sup>§</sup> L.C.: 0.01 mm <sup>φ</sup>	0 to 300 mm	9.5 $\mu$ m	Using Caliper Checker
6.	Height Gauge <sup>§</sup> L.C.: 0.01 mm	0 to 300 mm	11.4 $\mu$ m	Using Digital Height Master & Lever Dial Gauge

**Sangeeta Kunwar**  
Convenor

**Avijit Das**  
Program Manager

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
7.	Plain Plug Gauge <sup>§</sup>	0.5 mm to 150 mm	3.5 $\mu$ m	Using Dial Gauge with Comparator & Gauge Blocks
8.	Snap Gauge <sup>§</sup>	1 mm to 100 mm 100 mm to 200 mm 200 mm to 300 mm	2.8 $\mu$ m 5.2 $\mu$ m 8.0 $\mu$ m	Using Gauge Blocks
9.	Plain Width Gauge <sup>§</sup>	0 to 100 mm	5.50 $\mu$ m	Using Dial Gauge with Comparator & Slip Gauges by Comparison Method
10.	Plain Ring Gauge <sup>§</sup>	3 mm to 100 mm	3.8 $\mu$ m	Using Co-ordinate Measuring Machine by Comparison Method
11.	Flush Pin Gauge <sup>§</sup>	0.05 mm to 3 mm	5.50 $\mu$ m	Using Dial Gauge with Comparator & Slip Gauges by Comparison Method

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

<sup>§</sup> Only in Permanent Laboratory

<sup>¶</sup> 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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