



National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**DEPARTMENT OF METROLOGY & CALIBRATION  
LABORATORY, INSTITUTE FOR AUTO PARTS & HAND  
TOOLS TECHNOLOGY**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at

A9, PHASE-V, FOCAL POINT, LUDHIANA, PUNJAB, INDIA

in the field of

**CALIBRATION**

Certificate Number: CC-2308

Issue Date: 07/08/2019

Valid Until:

06/08/2021\*

\*The validity is extended for one year up to 06.08.2022

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.  
(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Identity : DEPARTMENT OF METROLOGY & CALIBRATION LABORATORY, INSTITUTE  
FOR AUTO PARTS & HAND TOOLS TECHNOLOGY

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer



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## SCOPE OF ACCREDITATION

**Laboratory Name :**

DEPARTMENT OF METROLOGY & CALIBRATION LABORATORY, INSTITUTE FOR AUTO PARTS & HAND TOOLS TECHNOLOGY, A9, PHASE-V, FOCAL POINT, LUDHIANA, PUNJAB, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

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**Validity**

07/08/2019 to 06/08/2021\*

**Last Amended on**

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers(Vernier/Dial /Digital) L.C. 0.01/0.020 mm	Using slip gauges	0 to 450 mm	17µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier/Dial/Digital) L.C. 0.01mm	Using Slip Gauges	0 to 300 mm	17µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Lever Type) L.C. 0.001mm & L.C. 0.010mm	Using ULM	0 to 10 mm	1.90 µm (L.C. 0.001 mm) 6.0 µm (L.C. 0.010 mm)
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauges (Plunger Type) L.C. 0.001mm	Using ULM	0 to 10 mm	1.90 µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometers L.C. 0.001/0.010mm	Using Slip Gauges	0 to 100 mm	3.6 µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using ULM	0 to 1 mm	2.1 µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauges Block Steel	Using Comparator Block , Gauges Blocks	0.5 to 100 mm	0.30 µm to 0.66 µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height gauges (Vernier/Dial/Digital) L.C. 0.01/0.020 mm	Using slip Gauges	0 to 450 mm	18.1 µm





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9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using ULM	0 to 75 mm	2.7 µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ULM	3 to 100 mm	3.0 µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM	20 to 100 mm	7.7 µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauges	Using Slip Gauges	5 to 100 mm	3.0 µm



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13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Diameter & Effective Diameter)	Using ULM ,Thread measuring Wires	5 to 100 mm	2.91 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Minor Diameter & Effective Diameter)	Using ULM	20 to 100 mm	5.90 µm



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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Grade 0,1,2,3)	Using Electronic Leveler	100 to 2500 mm	2.0 Sq.root (L+W)/125,L&W in mm

\* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.