



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name SWAROOP CALIBRATION LAB (A UNIT OF SWAROOP AUTOTECHNOLOGIES PVT. LTD), PLOT NO.H-10,FIT,SECTOR-57, FARIDABAD, HARYANA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2263 Page No. : 1 / 4

Validity 11/10/2019 to 10/10/2021 Last Amended on -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument	Measurement range and additional parameters where applicable(Range and Frequency)	Calibration and Measurement Capability(CMC)(±)	Calibration or Measurement Method or procedure)
Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit	-0.040 mm to +0.040 mm	2.7 µm	Using Master Ring Set of Three Rings by Comparison Method
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper L.C.0.01mm	0 mm to 300 mm	13.2 µm	Using Gauge Blocks by comparison method
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge L.C. 0.001mm	0 mm to 1 mm	1.7 µm	Using LMM by Comparison Method
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital/Dial/Vernier Caliper L.C.0.01mm,	up to 600 mm	12.9 µm	Using Gauge Block and Caliper Checker by Comparison Method
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.0.001 mm	up to 300 mm	2.7 µm	Using Gauge Block by Comparison Method



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6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C.0.001mm	0 mm to 600 mm	6.2 µm	Using Caliper Checker and Surface Plate by Comparison Method
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Gauge	up to 400 mm	2.8 µm	Using LMM by Comparison Method
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.0.001mm	0 mm to 2 mm	2.7 µm	Using LMM & Dial Holder by Comparison Method
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	0 mm to 400 mm	3.3 µm	Using LMM by Comparison Method
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	6 mm to 400 mm	3.1 µm	Using LMM & Master Ring Gauge by Comparison Method



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11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C.0.001 mm	0 mm to 25.4 mm	2.0 µm	Using LMM & Dial Holder by Comparison Method
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C.0.01 mm	0 mm to 50 mm	6.0 µm	Using LMM & Dial Holder by Comparison Method



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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit	-0.040 mm to +0.040 mm	2.7 µm	Using Master Ring Set of Three Rings by Comparison Method
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper L.C.0.01mm	0 mm to 300 mm	13.2 µm	Using Gauge Blocks by comparison method
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital/Dial/Vernier Caliper L.C.0.01mm,	up to 600 mm	12.9 µm	Using Gauge Block and Caliper Checker by Comparison Method
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.0.001 mm	up to 300 mm	2.7 µm	Using Gauge Block by Comparison Method