



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	24 K MECH LABORATORIES, T-BLOCK,PLOT NO-165/1/14,MIDC,BHOSARI, PUNE, MAHARASHTRA, INDIA	Page No	1 of 6
Accreditation Standard	ISO/IEC 17025:2017	Last Amended on	26/03/2022
Certificate Number	CC-3111		
Validity	14/02/2022 to 13/02/2024		

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.)	Bore Gauge Travel Up to 2 mm, L.C. 0.001 mm	Length Measuring Machine, Electronic Probe with DRO	upto 2 mm travel length	2.7µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers(Vernier,Dial ,Digital) L.C. 0.01 mm	Gauge Block Set '0' Grade,Caliper Checker, External Micrometer	0 mm to 600 mm	12.9µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Electronic Probe with Comparator Stand & Slip Gauge Box Grade 0, LMM 400, LC 0.1 microns	0.5 mm to 20.0 mm	2.3µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth caliper Gauge(Vernier,Dial, Digital) L.C. 0.01 mm	Gauge Block Set '0' Grade,Caliper Checker, Surface Plate & Mic. Check Set 0 Grade	0 mm to 300 mm	12µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C. 0.001 mm	Slip Gauge Box 0 Grade, Micrometer Check Set '0' Grade, Surface Plate	0 mm to 150 mm	5.9µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge	Slip Gauge Box '0' Grade , Electronic Probe with DRO	0 mm to 200 mm	2.2µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C. 0.001 mm)	Slip Gauge Box '0' Grade	0 mm to 10 mm	1.0µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C. 0.01 mm)	Slip Gauge Block 0 Grade & Mic. Check Set 0 Grade	200 mm to 300 mm	6.2µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C. 0.001 mm	Mic. Check Set '0' Grade & Slip Gauge Box '0' Grade	0 mm to 200 mm	1.6µm



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Comparator Stand with Electronic probe and DRO L.C. 0.0001 mm	0.03 mm to 1 mm	4.1µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge(Vernier,Dial, Digital) L.C. 0.01 mm	Caliper Checker, Surface Plate	0 mm to 600 mm	12µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C. 0.001 mm	LMM-400, LC 0.1 microns	0 mm to 250 mm	1.5µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C.0.001 mm	Length Measuring Machine (ULM-400)	0 to 0.2 mm	1.1 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C.0.01 mm	Length Measuring Machine (ULM-400)	0 to 1 mm	5.8 µm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard/Height Master	Comp. Stand With Electronic Probe with DRO	25 to 275 mm	2.3 µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C. 0.10 mm)	Slip Gauge Box;Mic Check Set "0" Grade	0 to 50 mm	70.2 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/Width Gauge/Setting Master	Comp. Stand With Electronic Probe OR ULM-400& Master Setting Disc	2 to 225 mm	2.2 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/Width Gauge/Setting Master	Comp. Stand With Electronic Probe OR ULM-400& Master Setting Disc	225 to 300 mm	4.3 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge/Setting Ring Gauge	Length Measuring Machine(ULM-400); Master Setting Ring Gauge	150 to 300 mm	2.50 µm



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge/Setting Ring Gauge	Length Measuring Machine(ULM-400); Master Setting Ring Gauge	3 to 150 mm	1.4 µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge L.C. 0.001 mm	Length Measuring Machine(ULM-400)	0 to 25 mm	1.1 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Length Measuring Machine(ULM-400); Master Setting Ring Gauge	200 to 300 mm	2.7 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Slip Gauge Box;Mic Check Set "0" Grade	3 to 200 mm	1.7 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Diameter; Effective/Pitch Diameter)	Wire Measuring Set;LMM-400 & OD Setting Master	100 to 250 mm	3.81 µm



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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Diameter;Effective/Pitch Diameter)	Wire Measuring Set;LMM-400	1.4 to 100 mm	2.2 µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective/Pitch Diameter)	Length Measuring Machine(ULM-400); Master Setting Ring Gauge	3 to 150 mm	2.1 µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective/Pitch Diameter)	Length Measuring Machine(ULM-400); Master Setting Ring Gauge	150 to 250 mm	2.50 µm

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