National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : UNIQUE INSTRUMENTS, C-159, VIDHYUT NAGAR, JAIPUR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number CC-3736 **Page No** 1 of 11
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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.)	Bore Gauge - Transmission Error (L.C.: 1 µm & Coarser)	Using Universal Length Measuring Machine by Comparison Method	0 to 1 mm	1µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial (L.C.: 0.01 mm & Coarser)	Using Caliper Checker, Slip Gauge Set & Surface Plate as per IS 16491 Part-1 by Comparison Method	0 to 300 mm	12µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator with Stand - Flatness	Using Flatness Fixture with DRO as per IS 7599 Part I & Part II by Comparison Method	Upto 200 X 200 mm	3.3µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pins	Using Length Measuring Machine as per IS:11103 by Comparison Method	0.1 mm to 20 mm	0.7µm

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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm & Coarser)	Using Length Bar Set, Slip Gauge Set & Surface Plate as per IS 16491 Part-2 by Comparison Method	0 to 300 mm	13.8µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer - Analog / Digital (L.C.: 1 µm & Coarser)	Using Micrometer Check Set, Gauge Blocks & Surface Plate as per BS 6468 by Comparison Method	0 to 100 mm	4.1µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator Lever Type - Analog / Digital (L.C.: 1 µm & Coarser)	Using Universal Length Measuring Machine as per IS 11498 by Comparison Method	0 to 2 mm	1µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator Plunger Type - Analog / Digital (L.C.: 1 µm & Coarser)	Using Universal Length Measuring Machine as per IS 2092 by Comparison Method	0 to 50 mm	1.7µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 1 µm & Coarser)	Using Gauge Block Set by Comparison Method	0 to 25 mm	1.1µm

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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 1 µm & Coarser)	Using Gauge Blocks & Micrometer Check Set as per IS 2967 by Comparison Method	0 to 100 mm	1.2µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using ULM as per IS: 3179 by Comparison Method	0.03 mm to 1 mm	0.8µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Digital / Dial (L.C.: 0.01 mm & Coarser)	Using Caliper Checker & Surface Plate as per IS 2921 by Comparison Method	0 to 600 mm	12.7µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 1 mm)	Using Measuring Scale & Tape Calibration System as per IS 1269 Part 1 by Comparison Method	0 to 50 m	118* sqrt (L) µm, where L is in metre
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head - Analog / Digital (L.C.: 0.2 µm)	Using Electronic Probe with DRO as per IS 9483 by Comparison Method	0 to 25 mm	1.4µm

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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Universal Length Measuring Machine by Comparison Method	> 100 mm to 300 mm	4µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Universal Length Measuring Machine by Comparison Method	25 mm to 100 mm	1.2µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / OD Master	Using Universal Length Measuring Machine & Setting Master as per IS:3455, IS: 6137, IS: 6244, IS: 6246 by Comparison Method	0.5 mm to 100 mm	2.1µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / OD Master	Using Universal Length Measuring Machine & Setting Master IS:3455, IS: 6137, IS: 6244, IS: 6246 by Comparison Method	100 mm to 200 mm	1.6µm

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19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Universal Length Measuring Machine & Setting Master as per IS:7876, IS:3455, IS:3485 by Comparison Method	> 3 mm to 100 mm	2.2µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Universal Length Measuring Machine & Setting Master as per IS:7876, IS:3455, IS:3485 by Comparison Method	100 mm to 200 mm	2.8µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale / Steel Rule (L.C.: 0.5 mm & Coarser)	Using Measuring Scale & Tape Calibration System as per IS 1481 by Comparison Method	0 to 1000 mm	118µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level as per IS 7327, IS 2285 & IS 12937 by Comparison Method	upto 3000 X 3000 mm	1.9*(sqrt (L+W) / 125) µm, where L & W are in mm

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23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wires	Using Universal Length Measuring Machine as per IS:6311 by Comparison Method	0.17 mm to 6.35 mm	0.7µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Effective Diameter	Using Universal Length Measuring Machine & Setting Master as per IS:10685, EURAMETcg10/ V.01 by Comparison Method	100 mm to 200 mm	2.1µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Effective Diameter	Using Universal Length Measuring Machine, Thread Measuring Wire & Setting Master as per IS:10685, EURAMETcg10/ V.01 by Comparison Method	2 mm to 100 mm	1.7µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge - Effective Diameter	Using Universal Length Measuring Machine & Setting Master as per IS:2334, EURAMETcg10/ V.01 by Comparison Method	> 3 mm to 100 mm	2.2µm

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27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge - Effective Diameter	Using Universal Length Measuring Machine & Setting Master as per IS:2334, EURAMETcg10/ V.01 by Comparison Method	100 mm to 200 mm	2.8µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 1 µm & Coarser)	Using Gauge Blocks by Comparison Method	1 mm to 100 mm	7µm
29	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge - Digital - Linear (L.C.: 0.1 µm & Coarser)	Using Length Bar Set as per IS 2921 by Comparison Method	0 to 600 mm	8.1µm
30	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge - Digital - Squareness (L.C.: 0.1 µm & Coarser)	Using Cylindrical Square & Lever Type Dial Indicator as per IS 2921 by Comparison Method	0 to 600 mm	12µm
31	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using 2D Height Gauge & Surface Plate by Comparison Method	0 to 600 mm	6µm

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32	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester - Analog / Digital (L.C: 0.1 µm & Coarser)	Using Electronic Probe with Indicator by Comparison Method	0 to 25 mm	1.3µm
33	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO (L.C.: 0.1 µm & Coarser)	Using Length Measuring Machine by Comparison Method	0 to 25 mm	0.7µm
34	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar	Using Universal Length Measuring Machine by Comparison Method	25 mm to 100 mm	1.2µm
35	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Long Slip Gauge	Using Universal Length Measuring Machine and Length Bar by Comparison Method	100 mm to 300 mm	4µm
36	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine - Single Axis (L.C.: 0.1 µm & Coarser)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	1µm
37	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge - Analog / Digital	Using Digital Pressure Gauge & Hydraulic Comparator Pump as per DKD-R 6-1 by Comparison Method	0 to 700 bar	0.285%rdg

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38	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge - Analog / Digital	Using Digital Pressure Gauge & Pneumatic Comparator Pump as per DKD-R 6-1 by Comparison Method	0 to 30 bar	0.683%rdg
39	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge - Analog / Digital	Using Digital Pressure Gauge & Pneumatic Comparator Pump as per DKD-R 6-1 by Comparison Method	0 to 7 bar	0.367%rdg

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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level as per IS 7327, IS 2285 & IS 12937 by Comparison Method	Upto 3000 X 3000 mm	1.9*(sqrt (L+W) / 125) µm, where L & W are in mm
2	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge - Digital - Linear (L.C.: 0.1 µm & Coarser)	Using Length Bar Set as per IS 2921 by Comparison Method	0 to 600 mm	8.1µm
3	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge - Digital - Squareness (L.C.: 0.1 µm & Coarser)	Using Cylindrical Square & Lever Type Dial Indicator as per IS 2921 by Comparison Method	0 to 600 mm	12µm
4	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring System - Angular (L.C.: 1" & Coarser)	Using Angle Gauge Blocks as per JIS B 7184 by Comparison Method	0 to 90 °	10second of arc
5	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring System - Linear (L.C.: 1 µm & Coarser)	Using Linear Glass Scale as per JIS B 7184 by Comparison Method	0 to 300 mm	7µm
6	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring System - Magnification	Using Linear Glass Scale & Digital Caliper as per JIS B 7184 by Comparison Method	10 X to 100 X	0.3%

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7	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge - Analog / Digital	Using Digital Pressure Gauge & Hydraulic Comparator Pump as per DKD-R 6-1 by Comparison Method	0 to 700 bar	0.285%rdg
8	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge - Analog / Digital	Using Digital Pressure Gauge & Pneumatic Comparator Pump as per DKD-R 6-1 by Comparison Method	0 to 30 bar	0.683%rdg
9	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge - Analog / Digital	Using Digital Pressure Gauge & Pneumatic Comparator Pump as per DKD-R 6-1 by Comparison Method	0 to 7 bar	0.367%rdg

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