



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
Validity 20/10/2023 to 19/10/2025

Page No 1 of 11
Last Amended on 01/11/2023

| 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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| Accreditation Standard | ISO/IEC 17025:2017 | | |
| Certificate Number | CC-3736 | Page No | 2 of 11 |
| Validity | 20/10/2023 to 19/10/2025 | Last Amended on | 01/11/2023 |

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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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Certificate Number CC-3736
Validity 20/10/2023 to 19/10/2025

Page No 3 of 11
Last Amended on 01/11/2023

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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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Certificate Number CC-3736
Validity 20/10/2023 to 19/10/2025

Page No 4 of 11
Last Amended on 01/11/2023

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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 | 4 μ m |
| 16 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Micrometer Setting Rod | Using Universal Length Measuring Machine by Comparison Method | 25 mm to 100 mm | 1.2 μ m |
| 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 | 2.1 μ m |
| 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 | 1.6 μ m |



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Accreditation Standard ISO/IEC 17025:2017
Certificate Number CC-3736 **Page No** 5 of 11
Validity 20/10/2023 to 19/10/2025 **Last Amended on** 01/11/2023

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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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Certificate Number CC-3736
Validity 20/10/2023 to 19/10/2025

Page No 6 of 11
Last Amended on 01/11/2023

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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 | 0.7 μ m |
| 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 | 2.1 μ m |
| 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 | 1.7 μ m |
| 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 | 2.2 μ m |



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Certificate Number CC-3736
Validity 20/10/2023 to 19/10/2025

Page No 7 of 11
Last Amended on 01/11/2023

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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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Certificate Number CC-3736
Validity 20/10/2023 to 19/10/2025

Page No 8 of 11
Last Amended on 01/11/2023

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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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Page No 9 of 11
Last Amended on 01/11/2023

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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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| Certificate Number | CC-3736 | Page No | 10 of 11 |
| Validity | 20/10/2023 to 19/10/2025 | Last Amended on | 01/11/2023 |

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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 | $1.9 \cdot (\sqrt{L+W}) / 125$ 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 | 8.1 μm |
| 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 | 12 μm |
| 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 | 7 μm |
| 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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Page No 11 of 11
Last Amended on 01/11/2023

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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.