



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

CALIBER GAUGES AND INSTRUMENTS LABORATORY

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

S.NO. 14/1, DATTADIGAMBER COLONY B, PUNE, MAHARASHTRA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2656

Issue Date: 07/07/2020

Valid Until:

06/07/2022

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)

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



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| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|--------------------|--|---|---|---|--|
| Permanent Facility | | | | | |
| 1 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | Using 6 1/2 DMM By Direct Method | 1 mA to 3 A | 0.63 % to 0.94 % |
| 2 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC current | Using 5 1/2 Multifunction calibrator by Direct Method | 1 mA to 20 mA | 0.57 % to 0.22 % |
| 3 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC current | Using 5 1/2 Multifunction Calibrator With coil By Direct method | 10 A to 800 A | 2.53 % to 1.87 % |
| 4 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC current | Using 5 1/2 Multifunction calibrator by Direct Method | 2 A to 9 A | 0.64 % to 0.49 % |
| 5 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC current | Using 5 1/2 Multifunction calibrator by Direct Method | 20 mA to 200 mA | 0.22 % to 0.20 % |



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| 6 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC current | Using 5 1/2 Multifunction calibrator by Direct Method | 200 mA to 2 A | 0.20 % to 0.64 % |
| 7 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | AC Current 1KHz to 50Hz | Using 6 1/2 DMM By Direct Method | 1 mA to 3 A | 0.1 % to 0.36 % |
| 8 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | AC voltage 1KHz to 50Hz | Using 6 1/2 DMM By Direct Method | 10 mV to 100 mV | 1.69 % to 0.79 % |
| 9 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | AC voltage 1KHz to 50Hz | Using 6 1/2 DMM By Direct Method | 10 V to 700 V | 1.62 % to 0.79 % |
| 10 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | AC voltage 1KHz to 50Hz | Using 6 1/2 DMM By Direct Method | 100 mV to 10 V | 0.79 % to 1.62 % |
| 11 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Capacitance | Using LCR Meter By Direct Method | 1 nF to 10 µF | 2.39 % to 2.38 % |



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| 12 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | DC voltage | Using 6 1/2 DMM By Direct Method | 1 mV to 100 mV | 1.58 % to 0.02 % |
| 13 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | DC voltage | Using 6 1/2 DMM By Direct Method | 10 V to 1000 V | 0.06 % to 0.01 % |
| 14 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | DC voltage | Using 6 1/2 DMM By Direct Method | 100 mV to 10 V | 0.02 % to 0.06 % |
| 15 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Inductance | Using LCR Meter By Direct Method | 200 μ H to 10 H | 1.31 % to 2.4 % |
| 16 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Resistance | Using 6 1/2 DMM By Direct Method | 1 MOhm to 100 MOhm | 1.25 % to 1.06 % |
| 17 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Resistance | Using 6 1/2 DMM By Direct Method | 100 Ohm to 1 MOhm | 0.5 % to 1.25 % |



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|------|---|--|--|---|--|
| 18 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC current 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 1 mA to 20 mA | 0.63 % to 0.43 % |
| 19 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC current 50Hz | Using 5 1/2 Multifunction Calibrator With Current coil | 10 A to 800 A | 4.91 % to 1.26 % |
| 20 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC current 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 2 A to 9 A | 0.98 % to 0.52 % |
| 21 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC current 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 20 mA to 200 mA | 0.43 % to 0.43 % |
| 22 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC current 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 200 mA to 2 A | 0.43 % to 0.98 % |
| 23 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC voltage 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 2 V to 200 V | 0.36 % to 0.22 % |



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| 24 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC voltage 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 200 mV to 2 V | 0.25 % to 0.36 % |
| 25 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC voltage 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 200 V to 700 V | 0.22 % to 0.39 % |
| 26 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC voltage 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 5 mV to 200 mV | 2.29 % to 0.25 % |
| 27 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Capacitance @ 1kHz | Using Decade Capacitance Box By Direct Method | 10 pF to 10 µF | 1.26 % to 1.65 % |
| 28 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | DC Voltage | Using 5 1/2 Multifunction Calibrator by Direct Method | 1 mV to 200 mV | 0.8 % to 0.12 % |
| 29 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | DC Voltage | Using 5 1/2 Multifunction calibrator by Direct Method | 2 V to 20 V | 0.17 % to 0.25 % |



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| 30 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | DC Voltage | Using 5 1/2 Multifunction calibrator by Direct Method | 20 V to 200 V | 0.25 % to 0.20 % |
| 31 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | DC Voltage | Using 5 1/2 Multifunction calibrator by Direct Method | 200 mV to 2 V | 0.12 % to 0.17 % |
| 32 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | DC Voltage | Using 5 1/2 Multifunction calibrator by Direct Method | 200 V to 999 V | 0.20 % to 0.14 % |
| 33 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Inductance | Using Decade Inductance Box By Direct Method | 10 µH to 10 H | 2.31 % to 2.40 % |
| 34 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Resistance | Using Decade Resistance Box By Direct Method | 1 KOhm to 100 KOhm | 0.2 % to 0.6 % |
| 35 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Resistance | Using Decade Resistance Box by Direct Method | 1 mOhm to 100 mOhm | 0.6 % to 0.6 % |



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| 36 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Resistance | Using Decade Resistance Box By Direct Method | 1 MOhm to 900 MOhm | 1.43 % to 1.44 % |
| 37 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Resistance | Using Decade Resistance Box By Direct Method | 1 Ohm to 100 Ohm | 0.6 % to 0.2 % |
| 38 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Resistance | Using Decade Resistance Box By Direct Method | 100 KOhm to 1 MOhm | 0.6 % to 1.43 % |
| 39 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Resistance | Using Decade Resistance Box By Direct Method | 100 Ohm to 1 KOhm | 0.2 % to 0.2 % |
| 40 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation J- Type | Using 6 1/2 DMM By Direct Method | (-) 100 °C to 1200 °C | 0.79°C |
| 41 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation K- Type | Using 6 1/2 DMM By Direct Method | (-) 100 °C to 1370 °C | 0.79°C |



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| 42 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation R- Type | Using 6 1/2 DMM By Direct Method | (-) 40 °C to 1700 °C | 1.24°C |
| 43 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation RTD- Pt-100 | Using 6 1/2 DMM By Direct Method | (-) 100 °C to 600 °C | 2.5°C |
| 44 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation S- Type | Using 6 1/2 DMM By Direct Method | (-) 20 °C to 1700 °C | 1.24°C |
| 45 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation (Temperature controller & Indicator) J- Type | Using Temperature Calibrator Direct Method | (-) 200 °C to 1200 °C | 0.8°C |
| 46 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation (Temperature controller & Indicator) K- Type | Using Temperature Calibrator Direct Method | (-) 200 °C to 1370 °C | 2.15°C |
| 47 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation (Temperature controller & Indicator) N- Type | Using Temperature Calibrator Direct Method | (-) 100 °C to 1300 °C | 1.12°C |



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| 48 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation (Temperature controller & Indicator) R-Type | Using Temperature Calibrator Direct Method | (-) 40 °C to 1700 °C | 1.25°C |
| 49 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation (Temperature controller & Indicator) RTD- pt-100 | Using Temperature Calibrator Direct Method | (-) 200 °C to 650 °C | 2.4°C |
| 50 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation (Temperature controller & Indicator) S- Type | Using Temperature Calibrator Direct Method | (-) 20 °C to 1700 °C | 3.5°C |
| 51 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Timer & Stopwatch | Using Timer & Stop watch By comparison & Direct Method | 10 Sec to 9000 Sec | 1.5 Sec to 1.87 Sec |
| 52 | MECHANICAL-ACCELERATION AND SPEED | Digital Tachometer (Contact Type) | Using Digital Tachometer | 100 to 10000 rpm | 1.7% |
| 53 | MECHANICAL-ACCELERATION AND SPEED | Digital Tachometer (Non Contact) | Using Digital Tachometer | 60 to 99000 rpm | 1.7% |
| 54 | MECHANICAL-ACOUSTICS | Sound Level Meter | Using Sound Level Calibrator | 94 & 114 dB | 1.33dB |



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| 55 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Angle Gauge (Parameter-Angle) | Using Profile Projector / Video Measuring Machine by comparison Method | 0 ° to 180 ° | 6' |
| 56 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Angle Gauge Block | Using Sine Bar,Gauge Block | 0 ° to 90 ° | 1.3" |
| 57 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Angle Plate (Squareness,Parallelism,Flatness) | Using Square Master,Electronic Level Meter,Lever Dial | Up to 600 mm | 7.8µm |
| 58 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Bevel Protector / Inclinator / Degree Protector / Combination set L.C 0.01° | Using Angle Gauge Block | 0-90-0 ° | 3.1' |
| 59 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Bore Gauge (Transmission Accuracy only) L.C 0.001 mm | Using LMM | 0 to 2 mm | 3.5µm |



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| 60 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Calipers (Vernier/Dial/Digital) L.C 0.01 mm | Using caliper checker, Length bar, | 0 to 1000 mm | 22µm |
| 61 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Calipers (Vernier/Dial/Digital) L.C 0.01 mm | Using Caliper Checker , Length Bar | 0 to 600 mm | 16µm |
| 62 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | CD Checking Gauge | Using Electronic Height Gauge by Comparison Method | 0 to 300 mm | 8.7µm |
| 63 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Coating Thickness Gauge L.C. 0.001mm | Using Coating Thickness Foils by Comparison Method. | 0 to 2 mm | 7.5µm |
| 64 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Depth Caliper (Vernier/Dial/Digital) L.C. 0.01 mm | Using Gauge Block,Long Gauge Block, Surface Plate | 0 to 600 mm | 16µm |



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| 65 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Depth Micrometer L.C. 0.001mm | Using Gauge Block, Long Gauge Block | 0 to 300 mm | 4.2µm |
| 66 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial Snap Gauge(Parameter-Flatness,Parallism) | Using Optical Flat & Gauge Block | 0 to 200 mm | 2.5µm |
| 67 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial Thickness Gauge L.C. 0.001 mm | Using Gauge Block by Comparison Method | 0 to 100 mm | 5.9µm |
| 68 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Drill Gauge (Parameter-Diameter) | Using Profile Projector / VMM by Comparison Method. | 0 to 50 mm | 7.8µm |
| 69 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Engineering Parallel (Parallism) | Using Lever Dial, Surface Plate | 0 to 100 mm | 2µm |



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| 70 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Feeler Gauge / Paint Thickness Foil | Using LMM | 0.1 to 2 mm | 1.0µm |
| 71 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Height Gauge (Vernier/Dial/Digital) L.C. 0.01 mm | Using Caliper Checker,Length Bar,Surface Plate | 0 to 1000 mm | 22µm |
| 72 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Height Gauge (Vernier/Dial/Digital) L.C. 0.01 mm | Using Caliper Checker,Length Bar,Surface Plate | 0 to 600 mm | 11µm |
| 73 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Internal Caliper L.C. 0.01 mm | Using LMM | 0 to 150 mm | 6.0µm |
| 74 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Internal Micrometer Micrometer Head Extension Rod L.C. 0.001mm | Using LMM & Comparator Stand with long slip | 0 to 100 mm | 2µm |



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| 75 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Internal Micrometer Micrometer Head Extension Rod L.C. 0.001mm | Using LMM & Comparator Stand with long slip | 0 to 1000 mm | 9.5µm |
| 76 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Internal Micrometer Micrometer Head Extension Rod L.C. 0.001mm | Using LMM & Comparator Stand with long slip | 0 to 400 mm | 4.0µm |
| 77 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Lever Dial L.C. 0.0001mm | Using LMM,ULM,Laser interferometer | 0 to 2 mm | 0.08µm |
| 78 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Lever Dial L.C. 0.01mm | Using LMM,ULM,Laser Interferometer | 0 to 2 mm | 3.0µm |
| 79 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Measuring Pin | Using LMM | 0.1 to 20 mm | 0.8µm |



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| 80 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Measuring Scale L.C. 1 mm | Using Tape & Scale Measuring Machine | 0 to 2000 mm | (80 x Sq. root L) μm Where L in m |
| 81 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Measuring Tape L.C. 1 mm | Using Tape & Scale Measuring Machine | 0 to 50000 mm | (80 x Sq. root L) μm Where L in m |
| 82 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Outside Micrometer L.C. 0.001 mm | Using Gauge Block, Long Gauge Block, Length Bar, Micrometer Stand | 0 to 100 mm | 2.0 μm |
| 83 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Outside Micrometer L.C. 0.001 mm | Using Gauge Block, Long Gauge Block, Length Bar, Micrometer Stand | 100 to 300 mm | 2.8 μm |
| 84 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Outside Micrometer L.C. 0.001 mm | Using Gauge Block, Long Gauge Block, Length Bar, Micrometer Stand | 300 to 500 mm | 7.4 μm |



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| 85 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Outside Micrometer L.C. 0.01 mm | Using Gauge Block, Long Gauge Block, Length Bar, Micrometer | 500 to 1000 mm | 14.5µm |
| 86 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | PCD Gauge | Using Electronic Height Gauge by Comparison Method | 0 to 300 mm | 8.7µm |
| 87 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Pistol Caliper L.C. 0.1 mm | Using Gauge Block by Comparison Method | 0 to 100 mm | 60µm |
| 88 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Mandrel(Diametrical Variation, Total RunOut) | Using Sine Center, Dial Snap Gauge | 0 to 300 mm | 4.2µm |
| 89 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Plug Gauge / Width / Depth / Flush Pin Gauge (Diameter / Width / Depth) | Using Electronic Probe & Gauge Block | 0.1 to 100 mm | 1.3µm |



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| 90 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Plug Gauge / Width / Depth / Flush Pin Gauge (Diameter / Width / Depth) | Using Electronic Probe & Gauge Block | 100 to 300 mm | 3.0µm |
| 91 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Plug Gauge / Width / Depth / Flush Pin Gauge (Diameter / Width / Depth) | Using Electronic Probe & Gauge Block | 300 to 500 mm | 5.0µm |
| 92 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain taper plug gauge (Angular) | LMM, Measuring pin | 0 to 100 mm | 24" |
| 93 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Taper Plug Gauge (Major,Minor,Diameter,Angle,Step) | Using LMM | 0 to 100 mm | 3µm |
| 94 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Taper Ring Gauge (Angle) | LMM | 0 to 100 mm | 24" |



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| 95 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Taper Ring Gauge (Major, Minor, Diameter, Angle, Step) | Using LMM | 0 to 100 mm | 3µm |
| 96 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain/Setting Ring Gauge | Using LMM | 1 to 100 mm | 1.7µm |
| 97 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain/Setting Ring Gauge | Using LMM | 100 to 300 mm | 2.6µm |
| 98 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plunger Dial (Digital/Analogue) L.C. 0.0001mm | Using LMM, ULM, Laser Interferometer | 0 to 25 mm | 0.08µm |
| 99 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plunger Dial (Digital/Analogue) L.C. 0.01mm | Using LMM, ULM, Laser Interferometer | 0 to 50 mm | 4.2µm |



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| 100 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Radius Gauge (Parameter- Radius) | Using Profile Projector / Video Measuring Machine | 0 to 30 mm | 5.0µm |
| 101 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Right Angle / Square Master (Parameter - Squareness) | Using Square Master,Gauge Block | 0 to 600 mm | 7.8µm |
| 102 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Rivet Gauge (Parameter-Rivet , Length) | Using Profile Projector / VMM by comparison method | 0 to 50 mm | 7.8µm |
| 103 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Sin Center/Sine Bar (Center distance,Angular accuracy,Parallism,C o-aciality) | Using Long Slip,Angular Slip,Electronic Height Gauge | 0 to 200 mm | 2µm |
| 104 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Snap Gauge | Using Gauge Block | 100 mm to 500 mm | 5.3 µm |



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| 105 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Snap Gauge | Using Gauge Block | 2 to 100 mm | 2.1µm |
| 106 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Spirit Level (Type-Flat,Vee,Frame) L.C. 0.01 mm/m | Using Electronic Level Meter using Tilting Fixture | 0 to 0.120 mm/m | 10µm/m |
| 107 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Spirit Level (Type-Flat,Vee,Frame) L.C. 0.02 mm/m | Using Electronic Level Meter using tilting Fixture | 0 to 0.120 mm/m | 18µm/m |
| 108 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Straight Edge (Parameter-Straightness) | Using (Electronic Level width more than 40 mm) , (Lever Dial, Surface Plate width less than 40 mm) | 0 to 2000 mm | 1.7 x Sq. root L/125 µm Where L in mm |
| 109 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Surface Plate (Parameter-Flatness) | Using Electronic Level Meter | 1000x1000 mm to 1000x1000 mm | (0.9 x Sq. root L+W/125) µm Where L& W in mm |



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| 110 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Taper Scale | Using VMM by comparison Method | Up to 50 mm | 7.8µm |
| 111 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Taper Thread Plug Gauge (Parameter-Effective Dia./Step) | Using Floating Carriage Micrometer as per ANSI/ASME B1.20.5 | 0 to 100 mm | 4.0µm |
| 112 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Taper Thread Ring Gauge (Parameter-Effective Dia./Step) | Using LMM as per ANSI/ASME B 1.20.5 | 1 to 100 mm | 4.0µm |
| 113 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Template (Parameter - Length, Diameter, Radius, Center distance, angle) | Using video measuring machine comparison method | 0 to 300 mm | 4.5µm and 1 Min for Angle |
| 114 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Test Sieves (Aperture Size) | Using video measuring machine | 0 to 100 mm | 3.9µm |



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| 115 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Measuring Wire | Using LMM | 0.1 to 6.35 mm | 0.3µm |
| 116 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Pitch Gauge (Parameter- Pitch Length / Angle) | Using Profile Projector/ Video measuring machine | 0 to 10 mm to 55° & 60° | 7.3 um & 1 min |
| 117 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Plug Gauge (Parameter- Effective & Major Diameter) | Using LMM / Floating carriage micrometer as per Euramet Cg 1 | 1 to 100 mm | 3.0µm |
| 118 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Plug Gauge (Parameter- Effective & Major Diameter) | Using LMM as per cg 1 | 100 to 300 mm | 3.5µm |
| 119 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Ring Gauge (Parameter- Effective & Minor Diameter) | Using LMM as per Euramet cg 1 | 1 to 100 mm | 1.8µm |



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| 120 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Ring Gauge (Parameter- Effective & Minor Diameter) | Using LMM as per Euramet cg1 | 100 to 300 mm | 2.8µm |
| 121 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Three Point Internal Micrometer L.C. 0.001mm | Using Plain Ring Gauge at step of 2mm | 0 mm to 100 mm | 6.5µm |
| 122 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Ultrasonic Thickness Gauge L.C. 0.01 mm | Using Gauge Block by Comparison Method | 0 to 200 mm | 20µm |
| 123 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | V Block (Symetricity, Parallis m, Squareness) | Using Square Master, Mandrel, Level Dial | 0 to 250 mm | 7.5 , 7.2 , 7.0µm |
| 124 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Weld Fillet Gauge (Parameter- Radius) | Using Profile Projector by comparison method | 0 to 25 mm | 7.8µm |



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| 125 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Wire Gauge (Parameter-Diameter) | Using Profile Projector / Video Measuring System by Comparison Method | 0 to 50 mm | 7.8µm |
| 126 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Angular Scale | Video Measuring Machine / Profile projector Comparison Method | 0 ° to 360 ° | 7" |
| 127 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Caliper Checker | Using Digital Lever Dial,Long Gauge Block | 0 mm to 630 mm | 4.1µm |
| 128 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Caliper checker / Step Gauge | Using Laser interferometer by comparison method | 0 mm to 1000 mm | 0.08+0.64 L µm (Where L in m) |
| 129 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Comparator Base (Parameter - Flatness) | Using Optical Flat | 0 mm to 100 mm | 0.7µm |
| 130 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Comparator Base (Parameter - Flatness) | Using Electronic Probe,Surface Plate | 0 mm to 200 mm | 1.2µm |



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| 131 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Cylindrical Setting Master / Cylindrical Disc (Parameter-Diameter,Concentricity) | Using Electronic Probe, Gauge Block | 100 mm to 200 mm | 1.5µm |
| 132 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Cylindrical Setting Master/Cylindrical Disc (Parameter-Diameter,Concentricity) | Using Electronic Probe,Gauge Block | 0 mm to 100 mm | 0.91µm |
| 133 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Dial Calibration Tester L.C. 0.0001mm | Using Electronic Probe By comparison method | 0 mm to 25 mm | 0.8µm |
| 134 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Electronic Probe L.C. 0.0001mm | Using Gauge Block by comparison method | 0 mm to 25 mm | 0.3µm |
| 135 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Electronic Probe L.C. 0.0001mm | Using Gauge Block | 0 mm to 1 mm | 0.27µm |
| 136 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Floating Carriage Micrometer L.C. 0.0001mm (Overall Accuracy,Micrometer Head Error, Flatness, Parallism of Faces) | Using Cylindrical Setting Master,Mandrel,Gauge Block,Optical Flat as per MOY/SCMI/9 | 100 mm to 200 mm | 2.0µm |



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| 137 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Floating Carriage Micrometer L.C. 0.0001mm (Parameter -Overall Accuracy, Micrometer Head Error, Flatness, Parallism of Faces) | Using Cylindrical Setting Master,Mandrel,Gauge Block,Optical Flat as per MOY/SCMI/9 | 0 mm to 100 mm | 1.2µm |
| 138 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Glass Scale / Glass Graticule L.C. 0.01 mm & 0.1 mm | Using UMM | 0 mm to 300 mm | 2.2µm |
| 139 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Glass Scale / Glass Graticule L.C. 0.01 mm & 0.1 mm | Using laser interferometer & UMM | 0 mm to 400 mm | 0.08 + 0.84 L µm (Where L in m) |
| 140 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Glass Scale / Glass Graticule / Microscope Glass eye piece L.C. 0.01 mm | Using UMM | 0 mm to 10 mm | 2.0µm |
| 141 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Length Bar | Using Digital Lever Dial,Long Gauge Block | 0 mm to 600 mm | 2.9µm |
| 142 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Length Bar / Long Slip Gauge | Using Digital Lever Dial, Laser Interferometer | 0 mm to 1000 mm mm | 0.17 + 0.64 Lµm (Where L in meter) |



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| 143 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Length Measuring Machine (Vertical & Horizontal Axis) L.C. 0.00001mm | Using Laser Interferometer By Comparison Method | 0 mm to 1000 mm | 0.08+0.3 L μm (Where L in m) |
| 144 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Micrometer Setting Rod | Using Electronic Probe,Gauge Block | 200 mm to 500 mm | 5.2μm |
| 145 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Micrometer Setting Rod | Using Electronic Probe,Gauge Block | 25 mm to 200 mm | 2.0μm |
| 146 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Micrometer Setting Rod | Using Electronic Probe,Gauge Block | 500 mm to 1000 mm | 4.5μm |
| 147 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector / Video Measuring Machine (Paraeter - Angular) | Angular Scale | 0 ° to 360 ° | 3" |
| 148 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector / Video Measuring Machine (Paraeter - Linear) | Using laser interferometer | 0 mm, to 1000 mm | 0.08+ 0.84 L |
| 149 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector / Video Measuring Machine (Paraeter - linear) L..C 0.00001 mm | Using Glass Scale | 0 mm to 300 mm | 4.7μm |



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| 150 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector / Video Measuring Machine (Paraeter - Magnification) | Using Glass Scale, Digital vernier caliper | 10 X to 100 X | 1.8% |
| 151 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Slip Gauge (Carbide) | Using Gauge Block Calibrator & K Grade Gauge Block | 0.5 mm to 25 mm | 0.12µm |
| 152 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Slip Gauge (Carbide) | Using Gauge Block Calibrator & K Grade Gauge Block | 25 mm to 75 mm | 0.14µm |
| 153 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Slip Gauge (Carbide) | Using Gauge Block Calibrator & K Grade Gauge Block | 75 mm to 100 mm | 0.18µm |
| 154 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Slip Gauge (Steel) | Using Gauge Block Calibrator & K Grade Gauge Block | 0.5 mm to 25 mm | 0.12µm |
| 155 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Slip Gauge (Steel) | Using Gauge Block Calibrator & K Grade Gauge Block | 25 mm to 75 mm | 0.14µm |
| 156 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Slip Gauge (Steel) | Using Gauge Block Calibrator & K Grade Gauge Block | 75 mm to 100 mm | 0.20µm |



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|------|--|--|---|---|--|
| 157 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Surface Roughness Master | Using Surface Roughness Tester & Master | Ra to Ra | 6.0% |
| 158 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Surface Roughness Tester L.C. 0.000001mm | Using Surface Roughness Master | Ra to Ra | 6.0% |
| 159 | MECHANICAL-DUROMETER | Durometer Shore A | Rubber Hardness Tester A/ Spring Force Calibration and indentation With (Load cell & DCT)Based on D2240 / ISO 18898 | Shore A | 0.8Shore A |
| 160 | MECHANICAL-DUROMETER | Durometer Shore D | Rubber Hardness Tester A/ Spring Force Calibration and indentation With (Load cell & DCT)Based on D2240 / ISO 18898 | Shore D | 0.7Shore D |
| 161 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Gauge' Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic) | Using Digital Pressure Indicator as per DKD R-6-1 | 0 bar to 10 bar | 0.2bar |



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| 162 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Gauge' Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic) | using Digital Pressure Indicator as per DKD R-6-1 | 0 bar to 350 bar | 0.9bar |
| 163 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Gauge' Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic) | Using Digital Pressure Indicator as per DKD R-6-1 | 0 bar to 700 bar | 0.89bar |
| 164 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Gauge' Pressure Transmitter, Pressure Transducers & Pressure Switch (Pneumatic) | Using Digital Pressure Indicator as per DKD R-6-1 | 0 bar to 10 bar | 0.2bar |
| 165 | MECHANICAL-PRESSURE INDICATING DEVICES | Vacuum Gauge | Using Digital Indicator as per ISO 3576 and ISO 27893 | (-)0.8 bar to 0 bar | 0.62bar |
| 166 | MECHANICAL-TORQUE GENERATING DEVICES | Torque Wrench Type I-Class B & C & Type II-Class A & B | Based on as per IS 16906-2018 | 2 Nm to 20 Nm | 0.9% rdg |



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|------|--------------------------------------|---|---|---|--|
| 167 | MECHANICAL-TORQUE GENERATING DEVICES | Torque Wrench Type I-Class B & C & Type II-Class A & B | Based on as per IS 16906-2018 | 20 Nm to 200 Nm | 0.9% rdg |
| 168 | MECHANICAL-TORQUE GENERATING DEVICES | Torque Wrench Type I-Class B & C & Type II-Class A & B | Based on as per IS 16906-2018 | 200 Nm to 2000 Nm | 2.0% rdg |
| 169 | THERMAL-SPECIFIC HEAT & HUMIDITY | Digital & Analog Hygrometer, RH Sensor with Indicator/Data Logger @25°C | Using Temp. & RH Sensor with indicator, Temp/Humidity Generator/Chamber | 30 %rh to 90 % rh | 5% rh |
| 170 | THERMAL-SPECIFIC HEAT & HUMIDITY | Digital & Analog Hygrometer, RH Sensor with Indicator/Data Logger @50%rh | Using Temp. RTD Sensor, 6.5 DMM , Temp/Humidity Generator/Chamber by comparison method. | 15 °C to 45 °C | 0.4°C |
| 171 | THERMAL-SPECIFIC HEAT & HUMIDITY | Humidity Indicator of Chamber, Environmental Oven @25°C | Using Temp/Humidity Meter with Probe | 30 %rh to 90 %rh | 5% rh |
| 172 | THERMAL-SPECIFIC HEAT & HUMIDITY | Humidity Indicator of Chamber, Environmental Oven @50% rh | Using RTD sensor and DMM by comparison method. | 15°C °C to 45 °C | 0.4°C |



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|------|---------------------|--|---|---|--|
| 173 | THERMAL-TEMPERATURE | Glass Thermometer | Using RTD PT-100 / 61/2 DMM and liquid bath by Comparison Method | 0 °C to 250 °C | 1.3°C |
| 174 | THERMAL-TEMPERATURE | Temperature Transmitter, RTD, Thermocouple with indicator & without indicator/Data Logger/Recorder & Temperature Gauge, | Using RTD PT-100 sensor, 61/2 DMM and temp bath by Comparison Method | -15 °C to 110 °C | 0.45°C |
| 175 | THERMAL-TEMPERATURE | Temperature Transmitter,RTD,The rmocouple with indicator & without indicator/Data Logger/Recorder & Temperature Gauge,Digital Thermometer, | Using RTD PT-100,'S' Type Thermocouple , 61/2 DMM & temp furnace by Comparison Method | 250 °C to 1200 °C | 3.94°C |
| 176 | THERMAL-TEMPERATURE | Temperature Transmitter,RTD,The rmocouple with indicator & without indicator/Data Logger/Recorder & Temperature Gauge,Digital Thermometer. | Using RTD PT-100 sensor, 61/2 DMM & temp. bath by Comparison Method | 50 °C to 250 °C | 0.63°C |



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|---------------|--|---|---|---|--|
| Site Facility | | | | | |
| 1 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | Using 6 1/2 DMM By Direct Method | 1 mA to 3 A | 0.63 % to 0.94 % |
| 2 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC current | Using 5 1/2 Multifunction calibrator by Direct Method | 1 mA to 20 mA | 0.57 % to 0.22 % |
| 3 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC current | Using 5 1/2 Multifunction Calibrator With coil By Direct method | 10 A to 800 A | 2.53 % to 1.87 % |
| 4 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC current | Using 5 1/2 Multifunction calibrator by Direct Method | 2 A to 9 A | 0.64 % to 0.49 % |
| 5 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC current | Using 5 1/2 Multifunction calibrator by Direct Method | 20 mA to 200 mA | 0.22 % to 0.20 % |



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| 6 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC current | Using 5 1/2 Multifunction calibrator by Direct Method | 200 mA to 2 A | 0.20 % to 0.64 % |
| 7 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | AC Current 1KHz to 50Hz | Using 6 1/2 DMM By Direct Method | 1 mA to 3 A | 0.1 % to 0.36 % |
| 8 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | AC voltage 1KHz to 50Hz | Using 6 1/2 DMM By Direct Method | 10 mV to 100 mV | 1.69 % to 0.79 % |
| 9 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | AC voltage 1KHz to 50Hz | Using 6 1/2 DMM By Direct Method | 10 V to 700 V | 1.62 % to 0.79 % |
| 10 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | AC voltage 1KHz to 50Hz | Using 6 1/2 DMM By Direct Method | 100 mV to 10 V | 0.79 % to 1.62 % |
| 11 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Capacitance | Using LCR Meter By Direct Method | 1 nF to 10 µF | 2.39 % to 2.38 % |



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| 12 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | DC voltage | Using 6 1/2 DMM By Direct Method | 1 mV to 100 mV | 1.58 % to 0.02 % |
| 13 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | DC voltage | Using 6 1/2 DMM By Direct Method | 10 V to 1000 V | 0.06 % to 0.01 % |
| 14 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | DC voltage | Using 6 1/2 DMM By Direct Method | 100 mV to 10 V | 0.02 % to 0.06 % |
| 15 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Inductance | Using LCR Meter By Direct Method | 200 μ H to 10 H | 1.31 % to 2.4 % |
| 16 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Resistance | Using 6 1/2 DMM By Direct Method | 1 MOhm to 100 MOhm | 1.25 % to 1.06 % |
| 17 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Resistance | Using 6 1/2 DMM By Direct Method | 100 Ohm to 1 MOhm | 0.5 % to 1.25 % |



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| 18 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC current 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 1 mA to 20 mA | 0.63 % to 0.43 % |
| 19 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC current 50Hz | Using 5 1/2 Multifunction Calibrator With Current coil | 10 A to 800 A | 4.91 % to 1.26 % |
| 20 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC current 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 2 A to 9 A | 0.98 % to 0.52 % |
| 21 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC current 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 20 mA to 200 mA | 0.43 % to 0.43 % |
| 22 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC current 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 200 mA to 2 A | 0.43 % to 0.98 % |
| 23 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC voltage 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 2 V to 200 V | 0.36 % to 0.22 % |



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|------|---|---|---|---|--|
| 24 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC voltage 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 200 mV to 2 V | 0.25 % to 0.36 % |
| 25 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC voltage 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 200 V to 700 V | 0.22 % to 0.39 % |
| 26 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | AC voltage 50Hz | Using 5 1/2 Multifunction calibrator by Direct Method | 5 mV to 200 mV | 2.29 % to 0.25 % |
| 27 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Capacitance @ 1kHz | Using Decade Capacitance Box By Direct Method | 10 pF to 10 µF | 1.26 % to 1.65 % |
| 28 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | DC Voltage | Using 5 1/2 Multifunction Calibrator by Direct Method | 1 mV to 200 mV | 0.8 % to 0.12 % |
| 29 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | DC Voltage | Using 5 1/2 Multifunction calibrator by Direct Method | 2 V to 20 V | 0.17 % to 0.25 % |



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| 30 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | DC Voltage | Using 5 1/2 Multifunction calibrator by Direct Method | 20 V to 200 V | 0.25 % to 0.20 % |
| 31 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | DC Voltage | Using 5 1/2 Multifunction calibrator by Direct Method | 200 mV to 2 V | 0.12 % to 0.17 % |
| 32 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | DC Voltage | Using 5 1/2 Multifunction calibrator by Direct Method | 200 V to 999 V | 0.20 % to 0.14 % |
| 33 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Inductance | Using Decade Inductance Box By Direct Method | 10 µH to 10 H | 2.31 % to 2.40 % |
| 34 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Resistance | Using Decade Resistance Box By Direct Method | 1 KOhm to 100 KOhm | 0.2 % to 0.6 % |
| 35 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Resistance | Using Decade Resistance Box by Direct Method | 1 mOhm to 100 mOhm | 0.6 % to 0.6 % |



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| 36 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Resistance | Using Decade Resistance Box By Direct Method | 1 MOhm to 900 MOhm | 1.43 % to 1.44 % |
| 37 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Resistance | Using Decade Resistance Box By Direct Method | 1 Ohm to 100 Ohm | 0.6 % to 0.2 % |
| 38 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Resistance | Using Decade Resistance Box By Direct Method | 100 KOhm to 1 MOhm | 0.6 % to 1.43 % |
| 39 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Resistance | Using Decade Resistance Box By Direct Method | 100 Ohm to 1 KOhm | 0.2 % to 0.2 % |
| 40 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation J- Type | Using 6 1/2 DMM By Direct Method | (-) 100 °C to 1200 °C | 0.79°C |
| 41 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation K- Type | Using 6 1/2 DMM By Direct Method | (-) 100 °C to 1370 °C | 0.79°C |



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| 42 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation R- Type | Using 6 1/2 DMM By Direct Method | (-) 40 °C to 1700 °C | 1.24°C |
| 43 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation RTD- Pt-100 | Using 6 1/2 DMM By Direct Method | (-) 100 °C to 600 °C | 2.5°C |
| 44 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation S- Type | Using 6 1/2 DMM By Direct Method | (-) 20 °C to 1700 °C | 1.24°C |
| 45 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation (Temperature controller & Indicator) J- Type | Using Temperature Calibrator Direct Method | (-) 200 °C to 1200 °C | 0.8°C |
| 46 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation (Temperature controller & Indicator) K- Type | Using Temperature Calibrator Direct Method | (-) 200 °C to 1370 °C | 2.15°C |
| 47 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation (Temperature controller & Indicator) N- Type | Using Temperature Calibrator Direct Method | (-) 100 °C to 1300 °C | 1.12°C |



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|------|---|---|--|---|--|
| 48 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation (Temperature controller & Indicator) R-Type | Using Temperature Calibrator Direct Method | (-) 40 °C to 1700 °C | 1.25°C |
| 49 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation (Temperature controller & Indicator) RTD- pt-100 | Using Temperature Calibrator Direct Method | (-) 200 °C to 650 °C | 2.4°C |
| 50 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation (Temperature controller & Indicator) S- Type | Using Temperature Calibrator Direct Method | (-) 20 °C to 1700 °C | 3.5°C |
| 51 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Timer & Stopwatch | Using Timer & Stop watch By comparison & Direct Method | 10 Sec to 9000 Sec | 1.5 Sec to 1.87 Sec |
| 52 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Straight Edge (Parameter-Straightness) | Using (Electronic Level width more than 40 mm) , (Lever Dial, Surface Plate width less than 40 mm) | 0 to 2000 mm | 1.7 x Sq. root L/125 μm Where L in mm |



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|------|---|---|---|---|--|
| 53 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Surface Plate Flatness | Using Electronic Level Meter | 200 x 200 to 5000x5000 mm | (0.9 x Sq. root L+W/125) μm Where L in mm |
| 54 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Bench Center Co-Axiality | Using Plain Mandrel,Lever Dial | 0 mm to 300 mm | 4.5μm |
| 55 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | CNC Machine/ Machine Tool (Positioning Accuracy) | Using Laser Interferometer | 0 mm to 10000 mm | (2.9+1 L) μm (Where L in m) |
| 56 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Electronic Height Gauge (Parameter - Linear / Squareness) L.C. 0.0001mm | Using Long Gauge Block, Square Master by Comparison Method | 0 mm to 1000 mm | 5.2μm |
| 57 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Floating Carriage Micrometer L.C. 0.0001mm (Overall Accuracy,Micrometer Head Error, Flatness, Parallism of Faces) | Using Cylindrical Setting Master,Mandrel,Gauge Block,Optical Flat as per MOY/SCMI/9 | 100 mm to 200 mm | 2.0μm |



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| 58 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Floating Carriage Micrometer L.C. 0.0001mm (Parameter -Overall Accuracy, Micrometer Head Error, Flatness, Parallism of Faces) | Using Cylindrical Setting Master,Mandrel,Gauge Block,Optical Flat as per MOY/SCMI/9 | 0 mm to 100 mm | 1.2µm |
| 59 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Length Measuring Machine (Vertical & Horizontal Axis) L.C. 0.00001mm | Using Laser Interferometer By Comparision Method | 0 mm to 10000 mm | 0.08+0.3 L µm (Where L in m) |
| 60 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Length Measuring Machine (Vertical & Horizontal Axis) L.C. 0.00001mm | Using Laser Interferometer By Comparision Method | 0 mm to 1000 mm | 0.08+0.3 L µm (Where L in m) |
| 61 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector / Video Measuring Machine (Paraeter - Angular) | Angular Scale | 0 ° to 360 ° | 3" |
| 62 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector / Video Measuring Machine (Paraeter - Linear) | Using laser interferometer | 0 mm, to 1000 mm | 0.08+ 0.84 L |
| 63 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector / Video Measuring Machine (Paraeter - linear) L..C 0.00001 mm | Using Glass Scale | 0 mm to 300 mm | 4.7µm |



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| 64 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector / Video Measuring Machine (Paraeter - Magnification) | Using Glass Scale, Digital vernier caliper | 10 X to 100 X | 1.8% |
| 65 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Straight Edge Straightness | Using Electronic Level Meter | 0 mm to 3500 mm | (0.9 x Sq. root L+W/125) μm (Where L& W in mm) |
| 66 | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Tape & Scale Measuring Machine L.C. 0.0001mm | Using Laser Interferometer By Comparision Method | 0 mm to 5000 mm | (0.7+0.64 L) μm (Where L in m) |
| 67 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Gauge' Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic) | Using Digital Pressure Indicator as per DKD R-6-1 | 0 bar to 10 bar | 0.2bar |
| 68 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Gauge' Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic) | using Digital Pressure Indicator as per DKD R-6-1 | 0 bar to 350 bar | 0.9bar |



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|------|--|---|--|---|--|
| 69 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Gauge' Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic) | Using Digital Pressure Indicator as per DKD R-6-1 | 0 bar to 700 bar | 0.89bar |
| 70 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Gauge' Pressure Transmitter, Pressure Transducers & Pressure Switch (Pneumatic) | Using Digital Pressure Indicator as per DKD R-6-1 | 0 bar to 10 bar | 0.2bar |
| 71 | THERMAL-SPECIFIC HEAT & HUMIDITY | Humidity Indicator of Chamber, Environmental Oven @25°C | Using Temp/Humidity Meter with Probe | 30 %rh to 90 %rh | 5% rh |
| 72 | THERMAL-SPECIFIC HEAT & HUMIDITY | Humidity Indicator of Chamber, Environmental Oven @50% rh | Using RTD sensor and DMM by comparison method. | 15°C °C to 45 °C | 0.4°C |
| 73 | THERMAL-TEMPERATURE | Glass Thermometer | Using RTD PT-100 / 61/2 DMM and liquid bath by Comparison Method | 0 °C to 250 °C | 1.3°C |



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| 74 | THERMAL-TEMPERATURE | Temperature Indicator with Sensor of cold chamber ,Freezer,Oven Furnace and cold and hot chamber ,Freezer,Oven | Using RTD PT-100sensor , 61/2 DMM and data logger with sensors 9 nos. by Comparison and mapping Method | -15 °C to 110 °C | 0.9°C |
| 75 | THERMAL-TEMPERATURE | Temperature Indicator with Sensor of Oven Furnace | Using RTD PT-100/'S' Type Thermocouple, 61/2 DMM by Comparison Method | 250 °C to 1200 °C | 3.4°C |
| 76 | THERMAL-TEMPERATURE | Temperature Indicator with Sensor of thermal chamber ,Oven, Furnace and thermal chamber,Oven Furnace | Using RTD PT-100 sensor, 61/2 DMM and data logger with sensor 09 nos by Comparison and mapping Method as per DKD R 5-7 | 50 °C to 250 °C | 2.06°C |
| 77 | THERMAL-TEMPERATURE | Temperature Transmitter, RTD, Thermocouple with indicator & without indicator/Data Logger/Recorder & Temperature Gauge, | Using RTD PT-100 sensor, 61/2 DMM and temp bath by Comparison Method | -15 °C to 110 °C | 0.45°C |



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| 78 | THERMAL-TEMPERATURE | Temperature Transmitter,RTD,The rmocouple with indicator & without indicator/Data Logger/Recorder & Temperature Gauge,Digital Thermometer, | Using RTD PT-100,'S' Type Thermocouple , 61/2 DMM & temp furnace by Comparison Method | 250 °C to 1200 °C | 3.94°C |
| 79 | THERMAL-TEMPERATURE | Temperature Transmitter,RTD,The rmocouple with indicator & without indicator/Data Logger/Recorder & Temperature Gauge,Digital Thermometer. | Using RTD PT-100 sensor, 61/2 DMM & temp. bath by Comparison Method | 50 °C to 250 °C | 0.63°C |

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