# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** YORLAB LLP, PLOT NO. 42/2, SURVEY NO.83,150 FEET RING ROAD, VAVDI, RAJKOT, GUJARAT, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

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**Validity** 06/01/2025 to 05/01/2029 **Last Amended on** 10/01/2025

| 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 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz | Using 6½ Digit Precision Multimeter by Direct Method | 1 A to 10 A | 0.9 % to 0.327 % |
| 2 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz | Using 6½ Digit Precision Multimeter by Direct Method | 1 mA to 100 mA | 0.169 % |
| 3 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz | Using 6½ Digit Precision Multimeter by Direct Method | 100 mA to 1 A | 0.169 % to 0.9 % |
| 4 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC High Voltage @ 50 Hz | Using HV Probe with DMM by Direct Method | 1 kV to 5 kV | 9.57 % to 7.77 % |
| 5 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage 50 Hz | Using 6½ Digit Precision Multimeter by Direct Method | 10 V to 1000 V | 0.419 % to 0.099 % |
| 6 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage 50 Hz | Using 6½ Digit Precision Multimeter by Direct Method | 100 mV to 10 V | 0.285 % to 0.419 % |

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| 7 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz | Using 5½ Digit Multi Function Calibrator by Direct Method | 1 mA to 100 mA | 1.917 % to 0.270 % |
| 8 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz | Using 5½ Digit Multi Function Calibrator with Current Coil by Direct Method | 10 A to 100 A | 0.963 % to 2.017 % |
| 9 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz | Using 5½ Digit Multi Function Calibrator with Current Coil by Direct Method | 100 A to 900 A | 2.017 % to 1.484 % |
| 10 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @50 Hz | Using 5½ Digit Multi function Calibrator By Direct Method | 100 mA to 10 A | 0.27 % to 0.34 % |
| 11 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage 50 Hz | Using 5½ Digit Multi Function Calibrator by Direct Method | 1 V to 100 V | 0.24 % |
| 12 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage 50 Hz | Using 5½ Digit Multi Function Calibrator by Direct Method | 10 mV to 1 V | 0.77 % to 0.24 % |
| 13 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage 50 Hz | Using 5½ Digit Multi Function Calibrator by Direct Method | 100 V to 1000 V | 0.24 % to 0.224 % |

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| 14 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | Using 6½ Digit Precision Multimeter by Direct Method | 1 A to 10 A | 0.271 % to 0.199 % |
| 15 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | Using 6½ Digit Precision Multimeter by Direct Method | 1 mA to 100 mA | 0.479 % to 0.067 % |
| 16 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | Using 6½ Digit Precision Multimeter by Direct Method | 100 mA to 1 A | 0.067 % to 0.271 % |
| 17 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC High Voltage | Using HV Probe with DMM by Direct Method | 1 kV to 3 kV | 4.54 % to 7.19 % |
| 18 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | Using 6½ Digit Precision Multimeter by Direct Method | 10 V to 1000 V | 0.01 % to 0.057 % |
| 19 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | Using 6½ Digit Precision Multimeter by Direct Method | 100 mV to 10 V | 0.026 % to 0.01 % |
| 20 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (2 Wire) | Using 6½ Digit Precision Multimeter by Direct Method | 10 kohm to 1 Mohm | 0.018 % to 0.015 % |

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| 21 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (2 Wire) | Using 6½ Digit Precision Multimeter by Direct Method | 1 Mohm to 100 Mohm | 0.015 % to 0.940 % |
| 22 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 Wire) | Using 6½ Digit Precision Multimeter by Direct Method | 1 ohm to 100 ohm | 0.078 % to 0.059 % |
| 23 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 Wire) | Using 6½ Digit Precision Multimeter by Direct Method | 100 ohm to 10 kohm | 0.059 % to 0.018 % |
| 24 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using 5½ Digit Multi Function Calibrator by Direct Method | 1 mA to 100 mA | 0.722 % to 0.161 % |
| 25 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using 5½ Digit Multi Function Calibrator with Current Coil by Direct Method | 10 A to 100 A | 1.54 % to 1.32 % |
| 26 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using 5½ Digit Multi Function Calibrator with Current Coil by Direct Method | 100 A to 900 A | 1.32 % to 1.204 % |
| 27 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using 5½ Digit Multi Function Calibrator by Direct Method | 100 mA to 10 A | 0.161 % to 0.629 % |

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| 28 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage | Using 5½ Digit Multi Function Calibrator by Direct Method | 1 mV to 1 V | 1.54 % to 0.134 % |
| 29 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage | Using 5½ Digit Multi Function Calibrator by Direct Method | 1 V to 100 V | 0.134 % |
| 30 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage | Using 5½ Digit Multi Function Calibrator by Direct Method | 100 V to 1000 V | 0.134 % to 1.429 % |
| 31 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 Wire / 4 Wire) | Using Decade Resistance Box By Direct Method | 100 ohm to 10 kohm | 0.117 % |
| 32 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 Wire) | Using Decade Resistance Box by Direct Method | 10 kohm to 1 Mohm | 0.117 % to 2.248 % |
| 33 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 Wire) | Using Decade Resistance Box By Direct Method | 1 ohm to 100 ohm | 0.683 % to 0.117 % |
| 34 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance - 2 Wire(upto 1kV) | Using Decade Resistance Box by Direct Method | 1 Mohm to 1000 Mohm | 2.73 % to 2.30 % |

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| 35 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Conductivity Meter | Using Decade Resistance Box by Direct Method | 1 µs to 20.000 ms (50 ohm to 1 Mohm) | 1.1 % |
| 36 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | pH Meter | Using Multi function CalibratorBy Direct Method | 0 pH to 14 pH {(-) 440 mV to 440 mV} | 0.14 % |
| 37 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | TDS Meter | Using Decade Resistance Box by Direct Method | 0.5 ppm to 1000 ppm (500 ohm to 1 Mohm) | 1.5 % |
| 38 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | B-Type Thermocouple | Using Multi function Calibrator By Direct Method | 600 °C to 1800 °C | 1.17 °C |
| 39 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | E-Type Thermocouple | Using Multi function Calibrator By Direct Method | (-)200 °C to 1000 °C | 0.85 °C |
| 40 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | J-Type Thermocouple | Using Multi function Calibrator By Direct Method | (-)190 °C to 800 °C | 0.86 °C |
| 41 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | K-Type Thermocouple | Using Multi function Calibrator By Direct Method | 0 °C to 1300 °C | 1.19 °C |

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| 42 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | N-Type Thermocouple | Using Multi function Calibrator By Direct Method | (-)200 °C to 1200 °C | 0.88 °C |
| 43 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | RTD Type | Using Multi Function Calibrator by Direct Method | (-)100 °C to 800 °C | 0.80 °C |
| 44 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | T-Type Thermocouple | Using Multi function Calibrator By Direct Method | (-)190 °C to 390 °C | 0.89 °C |
| 45 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Thermocouple R-Type | Using Multi Function Calibrator by Direct Method | 250 °C to 1700 °C | 0.85 °C |
| 46 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Thermocouple S-Type | Using Multi Function Calibrator by Direct Method | 250 °C to 1700 °C | 0.85 °C |
| 47 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | B-Type Thermocouple | Using Multi Function Calibrator by Direct Method | 600 °C to 1800 °C | 1.26 °C |
| 48 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | E-Type Thermocouple | Using Multi function Calibrator By Direct Method | (-)200 °C to 950 °C | 0.81 °C |

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| 49 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | J-Type Thermocouple | Using Multi function calibrator By Direct Method | (-)190 °C to 800 °C | 0.75 °C |
| 50 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | K-Type Thermocouple | Using Multi function calibrator By Direct Method | 0 °C to 1300 °C | 0.88 °C |
| 51 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | N-Type Thermocouple | Using Multi function Calibrator By Direct Method | (-)200 °C to 1300 | 0.87 °C |
| 52 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | R-Type Thermocouple | Using Multi function calibrator By Direct Method | 300 °C to 1700 °C | 1.13 °C |
| 53 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | RTD PT - 100 | Using Multi function calibrator By Direct Method | (-)200 °C to 800 °C | 0.72 °C |
| 54 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | S-Type Thermocouple | Using Multi function calibrator By Direct Method | 300 °C to 1700 °C | 1.19 °C |
| 55 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | T-Type Thermocouple | Using Multi function calibrator By Direct Method | (-)190 °C to 390 °C | 0.79 °C |

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| 56 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Frequency | Using 6½ Digit Precision Multimeter by Direct Method | 10 Hz to 10 kHz | 0.1 % to 0.83 % |
| 57 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time | Using Digital Programmable Timer by Comparison Method | 1 min to 6 h | 0.7 s to 7.62 s |
| 58 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time | Using Digital Programmable Timer by Comparison Method | 10 s to 60 s | 0.5 s to 0.7 s |
| 59 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time | Using Digital Programmable Timer by Comparison Method | 6 h to 24 h | 7.62 s to 8.62 s |
| 60 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source) | Frequency | Using Multi Function Calibrator by Direct Method | 10 Hz to 10 kHz | 0.1 % to 0.83 % |
| 61 | FLUID FLOW-FLOW MEASURING DEVICES | Air Flow Meter, Rota Meter, Gas Flow Meter, Dry Gas Meter | Using Gas Flow Calibrator by Comparision Method | 0.5 lpm to 50 lpm | 4 % |
| 62 | FLUID FLOW-FLOW MEASURING DEVICES | Air Flow Meter, Rota Meter, Gas Flow Meter, Dry Gas Meter | Using Gas Flow Calibrator by Comparision Method | 50 lpm to 100 lpm | 5.7 % |
| 63 | MECHANICAL-ACCELERATION AND SPEED | Centrifuge (Non-Contact Type) | Using Digital Tachometer by Comparison Method. | 40 rpm to 500 rpm | 0.81 rpm |

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| 64 | MECHANICAL-ACCELERATION AND SPEED | Centrifuge (Non-Contact Type) | Using Digital Tachometer by Comparison Method. | 500 rpm to 50000 rpm | 14 rpm |
| 65 | MECHANICAL-ACCELERATION AND SPEED | RPM Meter of source (Non-Contact) | Using Digital Tachometer and RPM Generator by Comparison Method. | 40 rpm to 500 rpm | 0.81rpm |
| 66 | MECHANICAL-ACCELERATION AND SPEED | RPM Meter of source (Non-Contact) | Using Digital Tachometer and RPM Generator by Comparison Method. | 500 rpm to 50000 rpm | 14 rpm |
| 67 | MECHANICAL-ACCELERATION AND SPEED | Tachometer (Contact Type) | Using Digital Tachometer and RPM Generator by Comparison Method. | 40 rpm to 5000 rpm | 2.2 % rdg |
| 68 | MECHANICAL-ACCELERATION AND SPEED | Tachometer (Non Contact) | Using Digital Tachometer and RPM Generator by Comparison Method. | 40 rpm to 500 rpm | 0.81rpm |
| 69 | MECHANICAL-ACCELERATION AND SPEED | Tachometer (Non Contact) | Using Digital Tachometer and RPM Generator by Comparison Method. | 500 rpm to 50000 rpm | 14 rpm |
| 70 | MECHANICAL-ACOUSTICS | Sound Level Meter @ 1 kHz | Using Sound Level Calibrator Along With Meter by Comparison Method | 94 dB and 114 dB | 1.3 dB |
| 71 | MECHANICAL-DENSITY AND VISCOSITY | Hydrometer | Using Standard Hydrometer and Liquid of known Densities by Comparison Method as per IS 3104 Part 2: 1982 | 0.6 g/ml to 2 g/ml | 0.0035 g/ml |

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| 72 | MECHANICAL-DENSITY AND VISCOSITY | Viscosity Cups, Zahn Cups, Ford Cup | Using liquid of known Kinematic viscosity and Timer as per IS 3944: 1982 | 30 cst to 240 cst | 1.33 % |
| 73 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Coating Thickness Gauge / DFT Meter (L.C.: 0.1 / 1 µm) | Using Master Foils by Comparison Method | 11 µm to 1000 µm | 1.9 µm |
| 74 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Coating Thickness Gauge / DFT Meter (L.C.: 1 / 10 µm) | Using Master Foils by Comparison Method | 1 mm to 6 mm | 11.81 µm |
| 75 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Coating Thickness Gauge / DFT Meter (L.C.: 10 µm) | Using Master Foils by Comparison Method | 6 mm to 12 mm | 0.029 mm |
| 76 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Depth Micrometer (L.C.: 0.001 mm) | Using Slip Gauge Block Set by Comparison Method | 0 to 25 mm | 5.0 µm |
| 77 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Depth Micrometer (L.C.: 0.001 mm) | Using Slip Gauge Block Set by Comparison Method | 0 to 300 mm | 10.0 µm |

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| 78 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial Bore Gauge (L.C.: 1 µm) (Transmission error) | Using Digital Dial Calibration Tester by Comparison Method | 0 to 3 mm | 3.0 µm |
| 79 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial/Digital Thickness Gauge (L.C.: 0.001 mm) | Using Slip Gauge Set by Comparison Method | 0 to 1 mm | 1.0 µm |
| 80 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial/Digital Thickness Gauge (L.C.: 0.001 mm) | Using Slip Gauge Set by Comparison Method | 0 to 10 mm | 7.2 µm |
| 81 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Engineering Square/ Right Angle/ Try Square (Parallelism) | Using Surface Plate/ Granite Square & Dial Gauge by Comparison Method | Upto 300 mm | 8.0 µm |
| 82 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Engineering Square/ Right Angle/ Try Square (Squareness) | Using Surface Plate/ Granite Square & Dial Gauge by Comparison Method | Upto 300 mm | 9.0 µm |
| 83 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Engineering Square/ Right Angle/ Try Square (Straightness) | Using Surface Plate/ Granite Square & Dial Gauge by Comparison Method | Upto 300 mm | 8.41 µm |

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| 84 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Extensometer L.C. 1 µm | Using Fixture & Electronic Probe with DRO by Comparison Method | Upto 5 mm | 3.0 µm |
| 85 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | External Micrometer L.C. 0.001 mm | Using Slip Gauge Block Set and Long Slip Gauge Blocks by Comparison Method | 0 to 150 mm | 4.0 µm |
| 86 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | External Micrometer L.C. 0.01 mm | Using Slip Gauge Block Set and Long Slip Gauge Blocks by Comparison Method | 0 to 600 mm | 14.0 µm |
| 87 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | External Micrometer L.C. 0.01 mm | Using Slip Gauge Block Set and Long Slip Gauge Blocks by Comparison Method | 600 mm to 1500 mm | 20.2 µm |
| 88 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Feeler Gauge | Using Digital External Micrometer by Comparison Method | 0.01 mm to 1 mm | 4.23 µm |
| 89 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Height Gauge L.C. 0.01 mm | Using Long Slip Gauge Blocks and Surface Plate by Comparison Method | 0 to 1000 mm | 23.2 µm |

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| 90 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Height Gauge L.C. 0.01 mm | Using Caliper Checker and Surface Plate by Comparison Method | 0 to 600 mm | 22.7 µm |
| 91 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Inside Caliper / Groove Caliper (L.C. 0.005 mm) | Using Slip Gauge Set by Comparison Method | 5 mm to 150 mm | 5.1 µm |
| 92 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Inside Caliper L.C. 0.01 mm | Using Slip Gauge Set by Comparison Method | 2.5 mm to 80 mm | 8.0 µm |
| 93 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Internal Micrometer L.C. 0.01 mm | Using Slip Gauge Block Set & Slip Gauge Accessories Set by Comparison Method | 300 mm to 600 mm | 14.0 µm |
| 94 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Internal Micrometer L.C. 0.01 mm | Using Slip Gauge Block Set & Slip Gauge Accessories Set by Comparison Method | 5 mm to 250 mm | 9 µm |
| 95 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Internal Micrometer L.C. 0.01 mm | Using Slip Gauge Block Set & Slip Gauge Accessories Set by Comparison Method | 600 mm to 1500 mm | 27.3 µm |

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| 96 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Lever Dial Indicator L.C. 0.001 mm | Using Digital Dial Calibration Tester by Comparison Method | 0 to 0.2 mm | 2.2 µm |
| 97 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Lever Dial Indicator L.C. 0.01 mm | Using Digital Dial Calibration Tester by Comparison Method | 0 to 0.8 mm | 7.0 µm |
| 98 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | LVDT Probe with DRO L.C. 0.1 µm | Using Slip Gauge set by Comparison Method | 0 to 25 mm | 3.0 µm |
| 99 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Measuring Tape L.C. 1 mm | Using Tape & Scale Calibrator by Comparison Method | 0 to 50 m | 119xSqrt(L) µm, where L is in m |
| 100 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Micrometer Head L.C. 0.01 mm | Using Slip Gauge Set by Comparison Method | 0 to 50 mm | 4.0 µm |
| 101 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Micrometer Setting Rod | Using Slip Gauge Block Set & Electronic Probe by Comparison method | >300 mm to 600 mm | 12.0 µm |

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| 102 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Micrometer Setting Rod | Using Slip Gauge Block Set & Electronic Probe by Comparison Method | 25 mm to 300 mm | 7.0 µm |
| 103 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Microscope (Magnification) | Using Glass Scale and Slip Gauge Set By Comparison Method | Up to 1000X | 2 % |
| 104 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Outside Caliper L.C. 0.01 mm | Using Slip Gauge Set by Comparison Method | Up to 100 mm | 7.5 µm |
| 105 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Pi Tape | Using Tape and Scale calibrator By Comparison Method | Up to 50 m | 119.0 x sqrt L(Where L in m) µm |
| 106 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Pistol Caliper L.C. 0.1 mm | Using Slip Gauge Set by Comparison Method | 0 to 50 mm | 58.0 µm |
| 107 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain / Master / Air Ring Gauge | Using Universal Length Measuring Machine and Master Ring Gauge by Comparison Method | 3 mm to 100 mm | 2.2 µm |

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| 108 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain / Master Ring Gauge | Using Universal Length Measuring Machine and Master Ring Gauge By Comparison Method | 100 mm to 200 mm | 3.8 µm |
| 109 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain / Master Ring Gauge | Using Universal Length Measuring Machine and Master Ring Gauge By Comparison Method | 200 mm to 300 mm | 4.6 µm |
| 110 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain / Master Ring Gauge | Using Universal Length Measuring Machine and Master Ring Gauge By Comparison Method | 300 mm to 400 mm | 5 µm |
| 111 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Plug Gauge | Using Universal Length Measuring Machine and Slip Gauge Blocks By Comparison Method | >100 mm to 200 mm | 2.77 µm |
| 112 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Plug Gauge | Using Universal Length Measuring Machine by Comparison Method | 0 to 100 mm | 1.41 µm |
| 113 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plunger Dial Gauge L.C. 0.001 mm | Using Digital Dial Calibration Tester by Comparison Method | Up to 25 mm | 3.0 µm |

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| 114 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Snap Gauge & Dial Snap Gauge | Using Slip Gauge Set by Comparison Method | 3 mm to 150 mm | 3.0 µm |
| 115 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Spirit Level L.C. 0.02 mm/m | Using Electronic Level & Tilting Surface Plate by Comparison Method | Up to 200 mm | 14.0 µm/m |
| 116 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Standard Foils | Using Electronic Probe by Comparison method | 0.01 mm to 6 mm | 1.52 µm |
| 117 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Standard Foils | Using Electronic Probe by Comparison method | 6 mm to 12 mm | 4 µm |
| 118 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Steel Scale (L.C.: 0.5 mm / 1 mm) | Using Tape & Scale Calibrator by Comparison Method | 0 to 1500 mm | 119.0 x sqrt L µm, Where L in m |
| 119 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Straight Edge ( Parallelism) | Using Surface Plate & Dial Gauge by Comparison Method | Up to 600 mm | 9.0 µm |

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| 120 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Straight Edge (Straightness) | Using Slip Gauge Set, Surface Plate & Dial Gauge by Comparison Method | Up to 600 mm | 9.0 µm |
| 121 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Taper Plain Plug Gauge (Half Angle) | Using Universal Length Measuring Machine , Slip gauge and measuring pins by Comparison Method | 0 ° to 25 ° | 34 s |
| 122 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Taper Plain Plug Gauge (Major diameter ) | Using Universal Length Measuring Machine , Slip gauge and measuring pins by Comparison Method | 100 mm to 200 mm | 3.9 µm |
| 123 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Taper Plain Plug Gauge (Major diameter) | Using Universal Length Measuring Machine , Slip gauge and measuring pins by Comparison Method | 2 mm to 100 mm | 4.32 µm |
| 124 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Taper Plain Ring Gauge (Angle) | Using Universal Length Measuring Machine, setting ring gauge and slip gauge by Comparison Method | Up to 55° | 13.21 sec |
| 125 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Taper Plain Ring Gauge (Diameter) | Using Universal Length Measuring Machine, setting ring gauge and slip gauge by Comparison Method | 5 mm to 100 mm | 2.9 µm |

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| 126 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Taper Thread Plug Gauge (Effective diameter at gauge plane) | Using Universal Length Measuring Machine , thread measuring wires by Comparison Method | 100 mm to 200 mm | 4.9 µm |
| 127 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Taper Thread Plug Gauge (Effective diameter at gauge plane) | Using Universal Length Measuring Machine, Thread measuring wires by Comparison Method | 3 mm to 100 mm | 2.4 µm |
| 128 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Taper Thread Ring Gauge ( Effective Diameter at gauge plane) | Using Universal Length Measuring Machine, Setting ring gauge by Comparison Method | 5 mm to 100 mm | 3.89 µm |
| 129 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Test Sieves | Using Digital Vernier Caliper by Comparison Method | 30 mm to 125 mm | 67 µm |
| 130 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Test Sieves | Using Digital Vernier Caliper by Comparison Method | 4 mm to 30 mm | 18 µm |
| 131 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Plug Gauge (Major Dia , Effective Dia) | Using Universal Length Measuring Machine and Thread Measuring Wire by Comparison Method | 100 mm to 200 mm | 2.97 µm |

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| 132 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Plug Gauge (Major Dia , Effective Dia) | Using Universal Length Measuring Machine and Thread Measuring Wire by Comparison Method | 200 mm to 300 mm | 3.58 µm |
| 133 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Plug Gauge (Major Dia , Effective Dia) | Using Universal Length Measuring Machine and Thread Measuring Wire by Comparison Method | 3 mm to 100 mm | 2.92 µm |
| 134 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Ring Gauge (Effective Dia) | Using Universal Length Measuring Machine and Master Ring Gauge by Comparison Method | 100 mm to 200 mm | 2.6 µm |
| 135 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Ring Gauge (Effective Dia) | Using Universal Length Measuring Machine and Master Ring Gauge by Comparison Method | 200 mm to 300 mm | 3.10 µm |
| 136 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Ring Gauge (Effective Dia) | Using Universal Length Measuring Machine and Master Ring Gauge by Comparison Method | 3 mm to 100 mm | 2.51 µm |
| 137 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Ultrasonic Thickness Gauge (L.C.: 0.01 mm) | Using Solid Slip Gauge Set By Comparison Method | Up to 100 mm | 58 µm |

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| 138 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | V Block Parallelism | Using Parallel Mandrel & Dial Gauge by Comparison Method | Up to 200 mm | 9.0 µm |
| 139 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | V Block Squareness | Using Surface Plate, Slip Gauge Set, Granite Square by Comparison Method | Up to 200 mm | 7.0 µm |
| 140 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | V Block Symmetricity | Using Parallel Mandrel, Surface Plate & Dial Gauge by Comparison Method | Up to 200 mm | 9.82 µm |
| 141 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Vernier Caliper (L.C. 0.01 mm) | Using Long Slip Gauge Blocks Comparison Method | 0 to 1500 mm | 18.5 µm |
| 142 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Vernier Caliper (L.C. 0.01mm) | Using Caliper Checker by Comparison Method | Up to 600 mm | 17.0 µm |
| 143 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Vernier Depth Gauge L.C. 0.01 mm | Using Slip Gauge Block Set by Comparison Method | Up to 300 mm | 11.6 µm |

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| 144 | MECHANICAL-DUROMETER | Shore A Hardness Tester | Using Dial Calibration Tester by indentation depth method based on ISO 48-9: 2018. | upto 100 Shore A | 1.50 Shore A |
| 145 | MECHANICAL-DUROMETER | Shore D Hardness Tester | Using Dial Calibration Tester by Indentation Depth Method based on ISO 48-9:2018. | upto 100 Shore D | 1.40 Shore D |
| 146 | MECHANICAL-PRESSURE INDICATING DEVICES | Hydraulic Pressure: Digital / Analog Pressure Gauges/ Transmitter/ Pressure Switch | Using Digital Pressure Gauge and Digital Multimeter as per DKD-R-6-1 by Comparison Method | 0 to 350 bar | 0.64 bar |
| 147 | MECHANICAL-PRESSURE INDICATING DEVICES | Hydraulic Pressure: Digital / Analog Pressure Gauges/ Transmitter/ Pressure Switch | Using Digital Pressure Gauge and Digital Multimeter as per DKD-R-6-1 by Comparison Method | 0 to 70 bar | 0.15 bar |
| 148 | MECHANICAL-PRESSURE INDICATING DEVICES | Hydraulic Pressure: Digital / Analog Pressure Gauges/ Transmitter/ Pressure Switch | Digital Pressure Gauge and Digital Multimeter as per DKD-R-6-1 by Comparison Method | 0 to 700 bar | 0.84 bar |
| 149 | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Pressure: Digital / Analog Pressure Gauges/ Transmitter/ Pressure Switch | Using Digital Pressure Calibrator and Digital Multimeter as per DKD-R-6-1 by Comparison Method | 0 to 20 bar | 0.07 bar |
| 150 | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Pressure: Digital / Analog Pressure Gauges/ Transmitter/ Pressure Switch | Using Digital Pressure Gauge and Digital Multimeter as per DKD-R-6-1 by Comparison Method | 0 to 3 bar | 0.01 bar |

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| 151 | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Pressure: Digital / Analog Vacuum Gauges/ Transmitter | Using Digital Pressure/Vacuum Calibrator and Digital Multimeter as per DKD-R-6-1 by Comparison Method | (-)0.9 bar to 0 | 0.013 bar |
| 152 | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Pressure: Manometer / Low Pressure Gauge/ Magnehelic Gauge | Using Digital Manometer as per DKD-R-6-1 by Comparision Method | (-)20 kPa to 20 kPa | 0.72 kPa |
| 153 | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Pressure: Manometer, Low Pressure Gauge, Magnehelic Gauge, Pressure Transmitter, Pressure Switch | Using Digital Manometer and Digital Multimeter as per DKD-R-6-1 by Comparison Method | (-) 20 mbar to 20 mbar | 1.2 % |
| 154 | MECHANICAL-TORQUE GENERATING DEVICES | Torque Wrench - Type I (Class A,B,C,D,E), Type II (Class A,B,C,D,E,F,G). | Using Torque Wrench Calibration System with Torque Sensors and Digital Torque Indicator as per ISO 6789-1: 2017 and ISO 6789-2: 2017 | 0.1 Nm to 1000 Nm | 1.42 % |
| 155 | MECHANICAL-VOLUME | Glass Burette | Using Digital Weighing Balance of Readability: 0.1 mg and distilled water of known density as per ISO 4787: 2021 & ISO/TR 20461: 2023. | 1 ml to 10 ml | 0.02 ml |

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| 156 | MECHANICAL-VOLUME | Glass Burette | Using Digital Weighing Balance of Readability: 0.1 mg and distilled water of known density as per ISO 4787: 2021 & ISO/TR 20461: 2023. | 10 ml to 50 ml | 0.24ml |
| 157 | MECHANICAL-VOLUME | Glass Pipette (Graduated/ Non Graduated) | Using Digital Weighing Balance of Readability: 0.1 mg and distilled water of known density as per ISO 4787: 2021 & ISO/TR 20461: 2023. | 1 ml to 10 ml | 0.02 ml |
| 158 | MECHANICAL-VOLUME | Glass Pipette (Graduated/ Non Graduated) | Using Digital Weighing Balance of Readability: 0.1 mg and distilled water of known density as per ISO 4787: 2021 & ISO/TR 20461: 2023. | 10 ml to 25 ml | 0.24ml |
| 159 | MECHANICAL-VOLUME | Measuring Cylinder/ Volumetric Flask/ Conical Flask/ Beaker | Using Digital Weighing Balance of Readability: 0.1 mg and distilled water of known density as per ISO 4787: 2021 & ISO/TR 20461: 2023. | 1 ml to 200 ml | 0.25 ml |

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| 160 | MECHANICAL-VOLUME | Measuring Cylinder/ Volumetric Flask/ Conical Flask/ Beaker | Using Digital Weighing Balance of Readability: 1 mg and distilled water of known density as per ISO 4787: 2021 & ISO/TR 20461: 2023. | 100 ml to 1000 ml | 0.33 ml |
| 161 | MECHANICAL-VOLUME | Measuring Cylinder/ Volumetric Flask/ Conical Flask/ Beaker | Using Digital Weighing Balance of Readability: 1 mg and distilled water of known density as per ISO 4787: 2021 & ISO/TR 20461: 2023. | 1000 ml to 2000 ml | 0.33 ml |
| 162 | MECHANICAL-VOLUME | Micro Pipette | Using Digital Weighing Balance of Readability: 0.01 mg and distilled water of known density as per ISO 8655-6: 2022 & ISO/TR 20461: 2023. | 10 µl to 100 µl | 1.56 µl |
| 163 | MECHANICAL-VOLUME | Micro Pipette | Using Digital Weighing Balance of Readability: 0.01 mg and distilled water of known density as per ISO 8655-6: 2022 & ISO/TR 20461: 2023. | 100 µl to 1000 µl | 1.64 µl |
| 164 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (L.C. 0.05 g) Class III Weighing Balances and coarser | Using E2 & F1 Class Standard Weights as per OIML R-76 | 0 to 5 kg | 0.55 g |

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| 165 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (L.C. 0.1 g) Class II Weighing Balances and coarser | Using E2 & F1 Class Standard Weights as per OIML R-76 | 0 to 10 kg | 0.43 g |
| 166 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (L.C. 0.1 mg) class I Weighing Balances and Coarser | Using E1 Class Standard Weights as per OIML R-76 | 0 to 30 g | 0.2 mg |
| 167 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (L.C. 0.2 g) Class III Weighing Balances and coarser | Using E2 & F1 Class Standard Weights as per OIML R-76 | 0 to 20 kg | 0.7 g |
| 168 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (LC 0.01 g) Class I Weighing Balances and coarser | Using E1 & E2 Class Standard Weights as per OIML R-76 | 0 to 1 kg | 0.024 g |
| 169 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (LC 0.01 mg) class I Weighing Balances and Coarser | Using E1 Class Standard Weights as per OIML R-76 | 0 to 30 g | 0.1 mg |
| 170 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (LC 0.1 g) Class II Weighing Balances and coarser | Using E2 & F1 Class Standard Weights as per OIML R-76 | 0 to 5 kg | 0.62 g |
| 171 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (LC 0.1 mg) class I Weighing Balances and Coarser | Using E1 Class Standard Weights as per OIML R-76 | 0 to 200 g | 0.25 mg |

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|---|---|---|---|---|---|
| 172 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (LC 0.5 g) Class II Weighing Balances and coarser | Using F1 Class Standard Weights as per OIML R-76 | 0 to 10 kg | 0.5 g |
| 173 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance(L.C. 0.001 mg) class I Weighing Balances and Coarser | Using E1 Class Standard Weights as per OIML R-76 | 0 to 5 g | 0.008 mg |
| 174 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 1 g | 0.04 mg |
| 175 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using F1 Class Standard Weights & Digital Weighing Balance (Readability: 1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 1 kg | 2.5 mg |
| 176 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 1 mg | 0.02 mg |

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|---|---|---|---|---|---|
| 177 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 10 g | 0.06 mg |
| 178 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 10 mg | 0.02 mg |
| 179 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 100 g | 0.3 mg |
| 180 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 100 mg | 0.03 mg |

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|---|---|---|---|---|---|
| 181 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 2 g | 0.05 mg |
| 182 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using F1 Class Standard Weights & Digital Weighing Balance (Readability: 1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 2 kg | 3.5 mg |
| 183 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 2 mg | 0.02 mg |
| 184 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 20 g | 0.1 mg |

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|---|---|---|---|---|---|
| 185 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 20 mg | 0.02 mg |
| 186 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 200 g | 0.46 mg |
| 187 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 200 mg | 0.04 mg |
| 188 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 5 g | 0.07 mg |

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|---|---|---|---|---|---|
| 189 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 5 mg | 0.02 mg |
| 190 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 50 g | 0.27 mg |
| 191 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 50 mg | 0.02 mg |
| 192 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using F1 Class Standard Weights & Digital Weighing Balance (Readability: 1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 500 g | 1.5 mg |

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|---|---|---|---|---|---|
| 193 | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser | Using E1 Class Standard Weights & Digital Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111 | 500 mg | 0.04 mg |
| 194 | MECHANICAL-WEIGHTS | Accuracy class M1 & coarser | Using F1 Class Standard Weights & Digital Weighing Balance (Readability: 0.2 g) by Substitution Method (ABBA Cycle) as per OIML R-111 | 20 kg | 256 mg |
| 195 | MECHANICAL-WEIGHTS | Accuracy class M2 & coarser | Using F1 Class Standard Weights & Digital Weighing Balance (Readability: 0.2 g) by Substitution Method (ABBA Cycle) as per OIML R-111 | 10 kg | 256 mg |
| 196 | MECHANICAL-WEIGHTS | Accuracy class M2 & coarser | Using F1 Class Standard Weights & Digital Weighing Balance (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R-111 | 5 kg | 204 mg |

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|---|---|---|---|---|---|
| 197 | THERMAL-SPECIFIC HEAT & HUMIDITY | Sensor with Indicator of Humidty Chamber (Single Position) | Using Digital Thermo Hygrometer by Comparison Method | 10 °C to 50 °C @50%rh | 1.65 °C |
| 198 | THERMAL-SPECIFIC HEAT & HUMIDITY | Sensor with Indicator of Humidty Chamber (Single Position) | Using Thermo Hygrometer by Comparison Method | 20 %rh to 90 %rh @25 °C | 2.35 %rh |
| 199 | THERMAL-SPECIFIC HEAT & HUMIDITY | Thermo Hygrometer | Using Digital Thermo Hygrometer & Humidity Chamber by Comparison Method | 10 °C to 50 °C @50 %rh | 1.34 °C |
| 200 | THERMAL-SPECIFIC HEAT & HUMIDITY | Thermo Hygrometer | Using Digital Thermo Hygrometer & Humidity Chamber by Comparison Method | 20 %rh to 90 %rh @25°C | 2.35 %rh |
| 201 | THERMAL-TEMPERATURE | RTD/ Thermocouple Sensor with or without Indicator, Temperature Gauge, Temperature Transmitter | Using RTD Sensor with Indicator, Digital Multimeter Indicator & Dry Block Calibrator by Comparison Method | 30 °C to 400 °C | 1.82 °C |
| 202 | THERMAL-TEMPERATURE | Indicator with Sensor of Oven (Single Position) | Using RTD Sensor with Indicator by Comparison Method | 0 °C to 200 °C | 2 °C |
| 203 | THERMAL-TEMPERATURE | Liquid In Glass Thermometer | Using RTD Sensor with Indicator & Oil Bath Calibrator By Comparison Method | 30 °C to 150 °C | 1.53 °C |

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|---|---|---|---|---|---|
| 204 | THERMAL-TEMPERATURE | Temperature Indicator with Sensor of Freezer, Refrigerator, Water Bath, Oven, Autoclave, Incubator(Non Medical Purpose), Muffle Furnace (Single Position) | Using RTD Sensor with Indicator by Comparison Method | (-)20 °C to 400 °C | 3.70 °C |
| 205 | THERMAL-TEMPERATURE | Temperature Indicator with Sensor of Muffle Furnace (Single Position) | Using Thermocouple Sensor with indicator by Comparison Method | 400 °C to 1200 °C | 6.1 °C |
| 206 | THERMAL-TEMPERATURE | Thermocouple Sensor with or without Indicator, Temperature Gauge, Temperature Transmitter | Using R Type Thermocouple Sensor with indicator, Digital Multimeter & Dry Block Calibrator By Comparison Method | 400 °C to 600 °C | 3.12 °C |
| 207 | THERMAL-TEMPERATURE | Thermocouple with/without Indicator | Using R Type Thermocouple Sensor with indicator, Digital Multimeter & Dry Block Calibrator By Comparison Method | 600 °C to 1200 °C | 3.97 °C |

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|---|---|---|---|---|---|
| Site Facility | | | | | |
| 1 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | Using Multi Function Calibrator by Direct Method | 4 mA to 90 mA | 0.189 % to 0.041 % |
| 2 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC High Voltage | Using HV Probe with DMM by Direct Method | 1 kV to 3 kV | 4.54 % to 7.19 % |
| 3 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | Using Multi Function Calibrator by Direct Method | 1 V to 50 V | 0.182 % to 0.036 % |
| 4 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multi function Calibrator by Direct Method: | 2 mA to 24 mA | 0.131 % to 0.302 % |
| 5 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage | Using Multi Function Calibrator by Direct Method | 1 V to 10 V | 0.068 % to 0.065 % |
| 6 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 Wire / 4 Wire) | Using Decade Resistance Box By Direct Method | 100 ohm to 10 kohm | 0.117 % |
| 7 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 Wire) | Using Decade Resistance Box by Direct Method | 10 kohm to 1 Mohm | 0.117 % to 2.248 % |

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| 8 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 Wire) | Using Decade Resistance Box By Direct Method | 1 ohm to 100 ohm | 0.683 % to 0.117 % |
| 9 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance - 2 Wire(upto 1kV) | Using Decade Resistance Box by Direct Method | 1 Mohm to 1000 Mohm | 2.73 % to 2.30 % |
| 10 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Conductivity Meter | Using Decade Resistance Box by Direct Method | 1 µs to 20.000 ms (50 ohm to 1 Mohm) | 1.1 % |
| 11 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | pH Meter | Using Multi function CalibratorBy Direct Method | 0 pH to 14 pH {(-) 440 mV to 440 mV} | 0.14 % |
| 12 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | TDS Meter | Using Decade Resistance Box by Direct Method | 0.5 ppm to 1000 ppm (500 ohm to 1 Mohm) | 1.5 % |
| 13 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | B-Type Thermocouple | Using Multi function Calibrator By Direct Method | 600 °C to 1800 °C | 1.17 °C |
| 14 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | E-Type Thermocouple | Using Multi function Calibrator By Direct Method | (-)200 °C to 1000 °C | 0.85 °C |

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|---|---|---|---|---|---|
| 15 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | J-Type Thermocouple | Using Multi function Calibrator By Direct Method | (-)190 °C to 800 °C | 0.86 °C |
| 16 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | K-Type Thermocouple | Using Multi function Calibrator By Direct Method | 0 °C to 1300 °C | 1.19 °C |
| 17 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | N-Type Thermocouple | Using Multi function Calibrator By Direct Method | (-)200 °C to 1200 °C | 0.88 °C |
| 18 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | RTD Type | Using Multi Function Calibrator by Direct Method | (-)100 °C to 800 °C | 0.80 °C |
| 19 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | T-Type Thermocouple | Using Multi function Calibrator By Direct Method | (-)190 °C to 390 °C | 0.89 °C |
| 20 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Thermocouple R-Type | Using Multi Function Calibrator by Direct Method | 250 °C to 1700 °C | 0.85 °C |
| 21 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Thermocouple S-Type | Using Multi Function Calibrator by Direct Method | 250 °C to 1700 °C | 0.85 °C |

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|---|---|---|---|---|---|
| 22 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | B-Type Thermocouple | Using Multi Function Calibrator by Direct Method | 600 °C to 1800 °C | 1.26 °C |
| 23 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | E-Type Thermocouple | Using Multi function Calibrator By Direct Method | (-)200 °C to 950 °C | 0.81 °C |
| 24 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | J-Type Thermocouple | Using Multi function calibrator By Direct Method | (-)190 °C to 800 °C | 0.75 °C |
| 25 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | K-Type Thermocouple | Using Multi function calibrator By Direct Method | 0 °C to 1300 °C | 0.88 °C |
| 26 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | N-Type Thermocouple | Using Multi function Calibrator By Direct Method | (-)200 °C to 1300 | 0.87 °C |
| 27 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | R-Type Thermocouple | Using Multi function calibrator By Direct Method | 300 °C to 1700 °C | 1.13 °C |
| 28 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | RTD PT - 100 | Using Multi function calibrator By Direct Method | (-)200 °C to 800 °C | 0.72 °C |

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|---|---|---|---|---|---|
| 29 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | S-Type Thermocouple | Using Multi function calibrator By Direct Method | 300 °C to 1700 °C | 1.19 °C |
| 30 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | T-Type Thermocouple | Using Multi function calibrator By Direct Method | (-)190 °C to 390 °C | 0.79 °C |
| 31 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time | Using Digital Programmable Timer by Comparison Method | 1 min to 6 h | 0.7 s to 7.62 s |
| 32 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time | Using Digital Programmable Timer by Comparison Method | 10 s to 60 s | 0.5 s to 0.7 s |
| 33 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time | Using Digital Programmable Timer by Comparison Method | 6 h to 24 h | 7.62 s to 8.62 s |
| 34 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source) | Frequency | Using Multi Function Calibrator by Direct Method | 10 Hz to 10 kHz | 0.1 % to 0.83 % |
| 35 | FLUID FLOW-FLOW MEASURING DEVICES | Air Flow Meter, Rota Meter, Gas Flow Meter, Dry Gas Meter | Using Gas Flow Calibrator by Comparision Method | 0.5 lpm to 50 lpm | 4 % |

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|---|---|---|---|---|---|
| 36 | FLUID FLOW-FLOW MEASURING DEVICES | Air Flow Meter, Rota Meter, Gas Flow Meter, Dry Gas Meter | Using Gas Flow Calibrator by Comparision Method | 50 lpm to 100 lpm | 5.7 % |
| 37 | FLUID FLOW-FLOW MEASURING DEVICES | Digital / Analog Water Flow Meter | Using Ultrasonic hand held flow meter by Comparison Method | 1.6 $m^3$/hr to 100 $m^3$/hr | 3 % |
| 38 | FLUID FLOW-FLOW MEASURING DEVICES | Digital / Analog Water Flow Meter | Using Ultrasonic Flow meter by Comparison Method | 100 $m^3$/hr to 360 $m^3$/hr | 2.5 % |
| 39 | MECHANICAL-ACCELERATION AND SPEED | Centrifuge (Non-Contact Type) | Using Digital Tachometer by Comparison Method. | 40 rpm to 500 rpm | 0.81 rpm |
| 40 | MECHANICAL-ACCELERATION AND SPEED | Centrifuge (Non-Contact Type) | Using Digital Tachometer by Comparison Method. | 500 rpm to 50000 rpm | 14 rpm |
| 41 | MECHANICAL-ACCELERATION AND SPEED | RPM Meter of source (Non-Contact) | Using Digital Tachometer and RPM Generator by Comparison Method. | 40 rpm to 500 rpm | 0.81rpm |
| 42 | MECHANICAL-ACCELERATION AND SPEED | RPM Meter of source (Non-Contact) | Using Digital Tachometer and RPM Generator by Comparison Method. | 500 rpm to 50000 rpm | 14 rpm |
| 43 | MECHANICAL-ACCELERATION AND SPEED | Tachometer (Contact Type) | Using Digital Tachometer and RPM Generator by Comparison Method. | 40 rpm to 5000 rpm | 2.2 % rdg |
| 44 | MECHANICAL-ACCELERATION AND SPEED | Tachometer (Non Contact) | Using Digital Tachometer and RPM Generator by Comparison Method. | 40 rpm to 500 rpm | 0.81rpm |

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|---|---|---|---|---|---|
| 45 | MECHANICAL-ACCELERATION AND SPEED | Tachometer (Non Contact) | Using Digital Tachometer and RPM Generator by Comparison Method. | 500 rpm to 50000 rpm | 14 rpm |
| 46 | MECHANICAL-ACOUSTICS | Sound Level Meter @ 1 kHz | Using Sound Level Calibrator Along With Meter by Comparison Method | 94 dB and 114 dB | 1.3 dB |
| 47 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Extensometer L.C. 1 µm | Using Fixture & Electronic Probe with DRO by Comparison Method | Upto 5 mm | 3.0 µm |
| 48 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Microscope (Magnification) | Using Glass Scale and Slip Gauge Set By Comparison Method | Up to 1000X | 2 % |
| 49 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Surface Plate | Using Electronic Level by Comparison Method | 3000X2000 mm | 1.68 x SRQT ((L+W)/100) µm, where L & W in mm |
| 50 | MECHANICAL-HARDNESS TESTING MACHINES | Brinell Hardness Testing Machine | Using Standardized Hardness Block As per IS 1500(Part 2): 2021, ISO 6506-2: 2017, ASTM E10: 2018 | HBW 10/3000 | 1.01 % |

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|---|---|---|---|---|---|
| 51 | MECHANICAL-HARDNESS TESTING MACHINES | Brinell Hardness Testing Machine | Using Standardized Hardness Block as per IS 1500(Part 2): 2021, ISO 6506-2: 2017, ASTM E10: 2018 | HBW 5/750 | 1.62 % |
| 52 | MECHANICAL-HARDNESS TESTING MACHINES | Rockwell Hardness Testing Machine | Using Standard Hardness Block As Per IS 1586(Part 2): 2018, ISO 6508-2: 2015, ASTM E18: 2022 | HRBW | 0.93 HRBW |
| 53 | MECHANICAL-HARDNESS TESTING MACHINES | Rockwell Hardness Testing Machine | Using Standard Hardness Block As Per IS 1586(Part 2): 2018, ISO 6508-2: 2015, ASTM E18: 2022 | HRC | 0.83 HRC |
| 54 | MECHANICAL-HARDNESS TESTING MACHINES | Verification of Micro-Vickers Hardness Testing Machine | Using Standard Hardness Blocks as per IS 1501-2: 2020, ISO 6507-2: 2018 & ASTM E-384: 2022 | HV 0.3 | 6.74 % |
| 55 | MECHANICAL-HARDNESS TESTING MACHINES | Verification of Micro-Vickers Hardness Testing Machine | Using Standard Hardness Blocks as per IS 1501-2: 2020, ISO 6507-2: 2018 & ASTM E-384: 2022 | HV 1 | 4.52 % |
| 56 | MECHANICAL-HARDNESS TESTING MACHINES | Verification of Vickers Hardness Testing Machine | Using Standard Hardness Blocks as per IS 1501-2: 2020, ISO 6507-2: 2018 & ASTM E-92: 2017 | HV 10 | 1.8 % |

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|---|---|---|---|---|---|
| 57 | MECHANICAL-HARDNESS TESTING MACHINES | Verification of Vickers Hardness Testing Machine | Using Standard Hardness Blocks as per IS 1501-2: 2020, ISO 6507-2: 2018 & ASTM E-92: 2017 | HV 30 | 1.8 % |
| 58 | MECHANICAL-HARDNESS TESTING MACHINES | Verification of Vickers Hardness Testing Machine | Using Standard Hardness Blocks as per IS 1501-2: 2020, ISO 6507-2: 2018 & ASTM E-92: 2017 | HV 5 | 3.43 % |
| 59 | MECHANICAL-IMPACT TESTING MACHINE | Charpy Impact Testing Machine | Using Impact Testing Kit by Direct Method as per ISO 148-2: 2016, ASTM E-23: 2024 | 0 to 300 J | 1.4 % |
| 60 | MECHANICAL-IMPACT TESTING MACHINE | Charpy Impact Testing Machine | Using Impact Testing Kit by Indirect Method as per ISO 148-2: 2016, ASTM E-23: 2024 | 0 to 300 J | 8.78 % |
| 61 | MECHANICAL-IMPACT TESTING MACHINE | Izod Impact Testing Machine | Using Impact Testing Kit by Direct Method as per BS-131 (Part 4): 1972 | 0 to 170 J | 3.88 % |
| 62 | MECHANICAL-PRESSURE INDICATING DEVICES | Hydraulic Pressure: Digital / Analog Pressure Gauges/ Transmitter/ Pressure Switch | Using Digital Pressure Gauge and Digital Multimeter as per DKD-R-6-1 by Comparison Method | 0 to 350 bar | 0.64 bar |
| 63 | MECHANICAL-PRESSURE INDICATING DEVICES | Hydraulic Pressure: Digital / Analog Pressure Gauges/ Transmitter/ Pressure Switch | Using Digital Pressure Gauge and Digital Multimeter as per DKD-R-6-1 by Comparison Method | 0 to 70 bar | 0.15 bar |

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| 64 | MECHANICAL-PRESSURE INDICATING DEVICES | Hydraulic Pressure: Digital / Analog Pressure Gauges/ Transmitter/ Pressure Switch | Digital Pressure Gauge and Digital Multimeter as per DKD-R-6-1 by Comparison Method | 0 to 700 bar | 0.84 bar |
| 65 | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Pressure: Digital / Analog Pressure Gauges/ Transmitter/ Pressure Switch | Using Digital Pressure Calibrator and Digital Multimeter as per DKD-R-6-1 by Comparison Method | 0 to 20 bar | 0.07 bar |
| 66 | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Pressure: Digital / Analog Pressure Gauges/ Transmitter/ Pressure Switch | Using Digital Pressure Gauge and Digital Multimeter as per DKD-R-6-1 by Comparison Method | 0 to 3 bar | 0.01 bar |
| 67 | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Pressure: Digital / Analog Vacuum Gauges/ Transmitter | Using Digital Pressure/Vacuum Calibrator and Digital Multimeter as per DKD-R-6-1 by Comparison Method | (-)0.9 bar to 0 | 0.013 bar |
| 68 | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Pressure: Manometer / Low Pressure Gauge/ Magnehelic Gauge | Using Digital Manometer as per DKD-R-6-1 by Comparision Method | (-)20 kPa to 20 kPa | 0.72 kPa |
| 69 | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Pressure: Manometer, Low Pressure Gauge, Magnehelic Gauge, Pressure Transmitter, Pressure Switch | Using Digital Manometer and Digital Multimeter as per DKD-R-6-1 by Comparison Method | (-) 20 mbar to 20 mbar | 1.2 % |

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|---|---|---|---|---|---|
| 70 | MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE | Universal Testing Machine - Compression | Using Precision Load cell with Digital Indicator and Force Proving Instrument as per IS 1828:2022 and ISO 7500:2018 | 1 kN to 1000 kN | 0.72 % |
| 71 | MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE | Universal Testing Machine - Tension | Using Precision Load cell and Digital Indicator as per IS 1828:2022 | 1 kN to 20 kN | 0.66 % |
| 72 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (L.C. 0.05 g) Class III Weighing Balances and coarser | Using E2 & F1 Class Standard Weights as per OIML R-76 | 0 to 5 kg | 0.55 g |
| 73 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (L.C. 0.1 g) Class II Weighing Balances and coarser | Using E2 & F1 Class Standard Weights as per OIML R-76 | 0 to 10 kg | 0.43 g |
| 74 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (L.C. 0.1 mg) class I Weighing Balances and Coarser | Using E1 Class Standard Weights as per OIML R-76 | 0 to 30 g | 0.2 mg |
| 75 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (L.C. 0.2 g) Class III Weighing Balances and coarser | Using E2 & F1 Class Standard Weights as per OIML R-76 | 0 to 20 kg | 0.7 g |
| 76 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (L.C. 1 g) - Class III and coarser | Using F1 Class Standard Weights as per OIML R-76 | 0 to 100 kg | 20 g |

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|---|---|---|---|---|---|
| 77 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (L.C. 50 g) Class III and coarser | Using F1 & M1 Class Standard Weights as per OIML R-76 | 0 to 200 kg | 65 g |
| 78 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (L.C. 50 g) Class III and coarser | Using F1 & M1 Class Standard Weights as per OIML R-76 | 0 to 500 kg | 68 g |
| 79 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (LC 0.01 g) Class I Weighing Balances and coarser | Using E1 & E2 Class Standard Weights as per OIML R-76 | 0 to 1 kg | 0.024 g |
| 80 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (LC 0.01 mg) class I Weighing Balances and Coarser | Using E1 Class Standard Weights as per OIML R-76 | 0 to 30 g | 0.1 mg |
| 81 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (LC 0.1 g) Class II Weighing Balances and coarser | Using E2 & F1 Class Standard Weights as per OIML R-76 | 0 to 5 kg | 0.62 g |
| 82 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (LC 0.1 mg) class I Weighing Balances and Coarser | Using E1 Class Standard Weights as per OIML R-76 | 0 to 200 g | 0.25 mg |
| 83 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance (LC 0.5 g) Class II Weighing Balances and coarser | Using F1 Class Standard Weights as per OIML R-76 | 0 to 10 kg | 0.5 g |

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| 84 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance(L.C. 0.001 mg) class I Weighing Balances and Coarser | Using E1 Class Standard Weights as per OIML R-76 | 0 to 5 g | 0.008 mg |
| 85 | THERMAL-SPECIFIC HEAT & HUMIDITY | Sensor with Indicator of Humidty Chamber (Single Position) | Using Digital Thermo Hygrometer by Comparison Method | 10 °C to 50 °C @50%rh | 1.65 °C |
| 86 | THERMAL-SPECIFIC HEAT & HUMIDITY | Sensor with Indicator of Humidty Chamber (Single Position) | Using Thermo Hygrometer by Comparison Method | 20 %rh to 90 %rh @25 °C | 2.35 %rh |
| 87 | THERMAL-TEMPERATURE | RTD/ Thermocouple Sensor with or without Indicator, Temperature Gauge, Temperature Transmitter | Using RTD Sensor with Indicator, Digital Multimeter Indicator & Dry Block Calibrator by Comparison Method | 30 °C to 400 °C | 1.82 °C |
| 88 | THERMAL-TEMPERATURE | Indicator with Sensor of Oven (Single Position) | Using RTD Sensor with Indicator by Comparison Method | 0 °C to 200 °C | 2 °C |
| 89 | THERMAL-TEMPERATURE | Oven, Furnace | Using Temperature Data Logger with Minimum Nine N-Type Thermocouple Sensors by Multiposition Calibration Method | 300 °C to 1200 °C | 8.54 °C |
| 90 | THERMAL-TEMPERATURE | Oven, Furnace, Incubator (Non Medical Purpose) | Using Temperature Data Logger with Minimum Nine RTD Sensors by Multiposition Calibration Method | 30 °C to 300 °C | 3.5 °C |

# National Accreditation Board for Testing and Calibration Laboratories

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| 91 | THERMAL-TEMPERATURE | Temperature Indicator with Sensor of Freezer, Refrigerator, Water Bath, Oven, Autoclave, Incubator(Non Medical Purpose), Muffle Furnace (Single Position) | Using RTD Sensor with Indicator by Comparison Method | (-)20 °C to 400 °C | 3.70 °C |
| 92 | THERMAL-TEMPERATURE | Temperature Indicator with Sensor of Muffle Furnace (Single Position) | Using Thermocouple Sensor with indicator by Comparison Method | 400 °C to 1200 °C | 6.1 °C |
| 93 | THERMAL-TEMPERATURE | Thermocouple Sensor with or without Indicator, Temperature Gauge, Temperature Transmitter | Using R Type Thermocouple Sensor with indicator, Digital Multimeter & Dry Block Calibrator By Comparison Method | 400 °C to 600 °C | 3.12 °C |
| 94 | THERMAL-TEMPERATURE | Thermocouple with/without Indicator | Using R Type Thermocouple Sensor with indicator, Digital Multimeter & Dry Block Calibrator By Comparison Method | 600 °C to 1200 °C | 3.97 °C |

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