# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | UNI CAL LABS PRIVATE LIMITED, PLOT NO. 362 HAL COLONY, GAJULARAMARAM, SHAHPUR NAGAR, HYDERABAD, TELANGANA, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
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| **Validity** | 03/12/2022 to 02/12/2024 | **Last Amended on** | 05/01/2023 |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| Permanent Facility | | | | | |
| 1 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | AC Current @ 50Hz | Using 6½ Digital Multimer by Direct Method | 10 µA to 10 mA | 0.96 % to 0.16 % |
| 2 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | AC Current @ 50Hz | Using 6½ Digital Multimer by Direct Method | 10 mA to 3 A | 0.16 % to 0.28 % |
| 3 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | AC Current @ 50Hz | Using 6½ Digital Multimer by Direct Method | 3 A to 10 A | 0.28 % to 0.53 % |
| 4 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | AC Voltage @ 50Hz | Using 6½ Digital Multimer by Direct Method | 10 mV to 2 V | 0.42 % to 0.24 % |
| 5 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | AC Voltage @ 50Hz | Using 6½ Digital Multimer by Direct Method | 2 V to 750 V | 0.24 % to 0.12 % |

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| 6 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | Using 6½ Digital Multimer by Direct Method | 10 µA to 10 mA | 0.059 % to 0.052 % |
| 7 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | Using 6½ Digital Multimer by Direct Method | 10 mA to 3 A | 0.052 % to 0.063 % |
| 8 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | Using 6½ Digital Multimer by Direct Method | 3 A to 10 A | 0.063 % to 0.28 % |
| 9 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | Using 6½ Digital Multimer by Direct Method | 1 mV to 10 V | 0.41 % to 0.0035 % |
| 10 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | Using 6½ Digital Multimer by Direct Method | 10 V to 200 V | 0.0035 % to 0.0085 % |
| 11 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | Using 6½ Digital Multimer by Direct Method | 200 V to 1000 V | 0.0085 % to 0.0055 % |

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| 12 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | Using 6½ Digital Multimer by Direct Method | 1 kohm to 1 Mohm | 0.0095 % to 0.012 % |
| 13 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | Using 6½ Digital Multimer by Direct Method | 1 Mohm to 20 Mohm | 0.012 % to 0.24 % |
| 14 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | Using 6½ Digital Multimer by Direct Method | 10 Ohm to 1 kohm | 0.012 % to 0.0094 % |
| 15 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | AC Current @ 50 Hz | Using Multi-function calibrator by Direct Method | 1 mA to 200 mA | 0.21 % to 0.16 % |
| 16 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | AC Current @ 50 Hz | Using Multi-function calibrator by Direct Method | 2 A to 15 A | 0.35 % to 0.31 % |
| 17 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | AC Current @ 50 Hz | Using Multi-function calibrator with Current coil by Direct Method | 20 A to 750 A | 6.24 % to 2.17 % |

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| 18 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | AC Current @ 50 Hz | Using Multi-function calibrator by Direct Method | 200 mA to 2 A | 0.28 % to 0.35 % |
| 19 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | AC Voltage @ 50 Hz | Using Multi-function calibrator by Direct Method | 10 V to 750 V | 1.04 % to 0.18 % |
| 20 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | AC Voltage @50 Hz | Using Multi-function calibrator by Direct Method | 1 mV to 200 mV | 5.28 % to 0.16 % |
| 21 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | AC Voltage @50 Hz | Using Multi-function calibrator by Direct Method | 200 mV to 10 V | 0.162 % to 1.04 % |
| 22 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multi-function calibrator by Direct Method | 1 mA to 200 mA | 0.21 % to 0.16 % |
| 23 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multi-function calibrator by Direct Method | 2 A to 20 A | 0.35 % to 0.16 % |

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| 24 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multi-function calibrator with Current coil by Direct Method | 20 A to 1000 A | 2.07 % to 1.52 % |
| 25 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multi-function calibrator by Direct Method | 200 mA to 2 A | 0.16 % to 0.35 % |
| 26 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage | Using Multi-function calibrator by Direct Method | 1 mV to 200 mV | 4.70 % to 0.058 % |
| 27 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage | Using Multi-function calibrator by Direct Method | 10 V to 1000 V | 0.081 % to 0.12 % |
| 28 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage | Using Multi-function calibrator by Direct Method | 200 mV to 10 V | 0.058 % to 0.081 % |
| 29 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance | Using Multi-function calibrator by Direct Method | (10,20,50,100,200) Ohm | 1.39 % to 0.25 % |

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| 30 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance | Using Multi-function calibrator by Direct Method | (200,500) Ohm, (1,2,5,10, 20,50,100,200,500) kohm, (1,2,5,10 & 20) Mohm | 0.24% |
| 31 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | B Type Thermocouple | Using Multi-function calibrator by Simulation Method | 100 °C to 1800 °C | 1.35°C |
| 32 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | E Type Thermocouple | Using Multi-function calibrator by Simulation Method | -200 °C to 1000 °C | 0.65°C |
| 33 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | J Type Thermocouple | Using Multi-function calibrator by Simulation Method | -200 °C to 1200 °C | 0.68°C |
| 34 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | K Type Thermocouple | Using Multi-function calibrator by Simulation Method | -200 °C to 1350 °C | 0.74°C |
| 35 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | N Type Thermocouple | Using Multi-function calibrator by Simulation Method | -200 °C to 1300 °C | 0.74°C |

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| 36 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | R Type Thermocouple | Using Multi-function calibrator by Simulation Method | 0 °C to 1750 °C | 1.12°C |
| 37 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | RTD | Using Multi-function calibrator by Simulation Method | -200 °C to 850 °C | 0.67°C |
| 38 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | S Type Thermocouple | Using Multi-function Calibrator by Simulation Method | 0 °C to 1750 °C | 1.0°C |
| 39 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | T Type Thermocouple | Using Multi-function calibrator by Simulation Method | -100 °C to 400 °C | 0.67°C |
| 40 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | R Type Thermocouple | Using Multi-function calibrator by Simulation Method | 0 °C to 1750 °C | 0.93°C |
| 41 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | RTD | Using Multi-function calibrator by Simulation Method | -200 °C to 850 °C | 0.41°C |

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| 42 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time | Using Timer Interval Calibrator by comparison method | 1 s to 86400 s | 0.017 s to 14.22 s |
| 43 | MECHANICAL-ACCELERATION AND SPEED | RPM (Contact Type) Tachometers | Using Digital Tachometer, Tachometer Cal-Source by Comparison method | 10 rpm to 99.9 rpm | 0.8rpm |
| 44 | MECHANICAL-ACCELERATION AND SPEED | RPM (Contact Type) Tachometers | Using Digital Tachometer, Tachometer Cal-Source by Comparison method | 100 rpm to 999.9 rpm | 2.57rpm |
| 45 | MECHANICAL-ACCELERATION AND SPEED | RPM (Contact Type) Tachometers | Using Digital Tachometer, Tachometer Cal-Source by Comparison method | 1000 rpm to 8000 rpm | 5.8rpm |
| 46 | MECHANICAL-ACCELERATION AND SPEED | RPM (Non Contact Type) Tachometers | Using Digital Tachometer and Tachometer Cal-Source by Comparison method | 10 rpm to 99.99 rpm | 0.7rpm |
| 47 | MECHANICAL-ACCELERATION AND SPEED | RPM (Non Contact Type) Tachometers | Using Digital Tachometer and Tachometer Cal-Source by Comparison method | 100 rpm to 999.9 rpm | 2.6rpm |

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| 48 | MECHANICAL-ACCELERATION AND SPEED | RPM (Non Contact Type) Tachometers | Using Digital Tachometer and Tachometer Cal-Source by Comparison method | 1000 rpm to 90000 rpm | 27.7rpm |
| 49 | MECHANICAL-ACOUSTICS | Sound Level Meter @ 1000 Hz | Using Sound Level Calibrator by Direct Method | 94 dB | 0.22dB |
| 50 | MECHANICAL-ACOUSTICS | Sound Level Meter @ 1000 Hz | Using Sound Level Calibrator by Direct Method | 114 dB | 0.22dB |
| 51 | MECHANICAL-PRESSURE INDICATING DEVICES | Magnehelic Gauge, Differential Pressure Gauge, Differential Pressure Indicator, Manometer, Differential Pressure Transmitter, Differential Pressure Switch.(Pneumatic) | Using Screw Pump with Digital Manometer and digital multimeter as per DKD-R6-1 by Comparison method. | 0 Pa to 1960 Pa | 1.87Pa |
| 52 | MECHANICAL-PRESSURE INDICATING DEVICES | Magnehelic Gauge, Differential Pressure Gauge, Differential Pressure Indicator, Manometer, Differential Pressure Transmitter, Differential Pressure Switch.(Pneumatic) | Using Screw Pump with Digital Manometer and digital multimeter as per DKD-R6-1 by Comparison method. | 0 Pa to 4903 Pa | 2.01Pa |

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| 53 | MECHANICAL-PRESSURE INDICATING DEVICES | Magnehelic Gauge, Differential Pressure Gauge, Differential Pressure Indicator, Manometer, Differential Pressure Transmitter, Differential Pressure Switch.(Pneumatic) | Using Screw Pump with Digital Manometer and digital multimeter as per DKD-R6-1 by Comparison method. | -245 Pa to 245 Pa | 0.41Pa |
| 54 | MECHANICAL-PRESSURE INDICATING DEVICES | Magnehelic Gauge, Differential Pressure Gauge, Differential Pressure Indicator, Manometer, Differential Pressure Transmitter, Differential Pressure Switch.(Pneumatic) | Using Screw Pump with Digital Manometer and Digital multimeter as per DKD-R6-1 by Comparison method. | -9806 Pa to 9806 Pa | 9.86Pa |
| 55 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Indicator, Pressure Gauge, Pressure Transmitter, Pressure Switch (Hydraulic) | Using Hydraulic Comparator Pump with Digital Pressure Gauges per DKD R-6-1 by Comparison Method. | 0 bar to 1000 bar | 0.46bar |
| 56 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Indicator, Pressure Gauge, Pressure Transmitter, Pressure Switch (Hydraulic) | Using Hydraulic Comparator Pump with Digital Pressure Gauges per DKD R-6-1 by Comparison Method | 0 bar to 500 bar | 0.28bar |

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| 57 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Indicator, Pressure Gauge, Pressure Transmitter, Pressure Switch (Pneumatic) | Using Pneumatic Hand Pump with Digital Pressure Gauge and digital multimeter or multifunction calibratior as readout unit (for transmitter) as per DKD R6-1 By Comparison Method | 0 bar to 60 bar | 0.05bar |
| 58 | MECHANICAL-PRESSURE INDICATING DEVICES | Vacuum Gauge, Vacuum Indicators Pressure Gauge, Compound Gauge, Pressure Indicators, Vacuum Transmitter, Vacuum Switch (Pneumatic) | Using Pneumatic Hand Pump with Digital Pressure Gauge and digital multimeter or multifunction calibratior as readout unit (for transmitter) as per DKD R6-1 By Comparison Method. | 0 bar to -0.9 bar | 0.002bar |

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| 59 | MECHANICAL-PRESSURE INDICATING DEVICES | Vacuum Gauge, Vacuum Indicators Pressure Gauge, Compound Gauge, Pressure Indicators, Vacuum Transmitter, Vacuum Switch (Pneumatic) | Using Pneumatic Hand Pump with Digital Pressure Gauge and digital multimeter or multifunction calibratior as readout unit (for transmitter) as per DKD R6-1 By Comparison Method | 0 bar to 7 bar | 0.0077bar |
| 60 | MECHANICAL-VOLUME | Micropipette | Using Weighing balance 220 g with readability 0.01mg and distilled water of known density as per ISO 8655-6 | 10 µl to 100 µl | 0.5µl |
| 61 | MECHANICAL-VOLUME | Micropipettes | Using Weighing balance 220 g with readability 0.01mg and distilled water of known density as per ISO 8655-6 | 100 µl to 1000 µl | 1.87µl |
| 62 | MECHANICAL-VOLUME | Micropipettes | Using Weighing balance 220 g with readability 0.01mg and distilled water of known density as per ISO 8655-6 | 1000 µl to 5000 µl | 5.5µl |

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| 63 | MECHANICAL-VOLUME | Pipette, burette, Measuring Cylinder, Volumetric flask, conical flask, beaker | Using Weighing balance with readability 0.01g,and distilled water of known density As per ISO 4787 | 2 l to 4 l | 0.96ml |
| 64 | MECHANICAL-VOLUME | Pipette, burette, Measuring Cylinder, Volumetric flask, conical flask, beaker | Using Weighing balance with readability 0.1g,and distilled water of known density As per ISO 4787 | 5 l to 8 l | 2.2ml |
| 65 | MECHANICAL-VOLUME | Pipette, burette, Measuring Cylinder, Volumetric flask, conical flask, beaker, Glass Pipette | Using Weighing balance 220 g with readability 0.01mg, and distilled water of known density As per ISO 4787 | >1 ml to 10 ml | 0.008ml |
| 66 | MECHANICAL-VOLUME | Pipette, burette, Measuring Cylinder, Volumetric flask, conical flask, beaker, Glass Pipette | Using Weighing balance 220 g with readability 0.01mg, and distilled water of known density As per ISO 4787 | 1 ml | 0.008ml |
| 67 | MECHANICAL-VOLUME | Pipette, burette, Measuring Cylinder, Volumetric flask, conical flask, beaker, Glass Pipette | Using Weighing balance 220 g with readability 0.01mg and distilled water of known density As per ISO 4787 | 10 ml to 100 ml | 0.026ml |

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| 68 | MECHANICAL-VOLUME | Pipette, burette, Measuring Cylinder, Volumetric flask, conical flask, beaker, Glass Pipette | Using Weighing balance with readability 0.001g and distilled water of known density As per ISO 4787 | 100 ml to 1000 ml | 0.37ml |
| 69 | MECHANICAL-VOLUME | Pipette, burette, Measuring Cylinder, Volumetric flask, conical flask, beaker, Glass Pipette | Using Weighing balance with readability 0.001g,and distilled water of known density As per ISO 4787 | 1000 ml to 2000 ml | 0.51ml |
| 70 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing balance (d: 0.001 g) Class II & Coarser | Using E2 Class Standard Weights as per OIML R-76 | 1 g to 2 kg | 5.77mg |
| 71 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing balance (d: 0.001 mg) Class I and Coarser | Using E1 Class Standard Weights as per OIML R-76 | 1 mg to 5 g | 0.005mg |
| 72 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing balance (d: 0.01 g)- Class II & Coarser | Using E2 Class Standard Weights as per OIML R-76 | 10 g to 10 kg | 17.7mg |
| 73 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing balance (d: 0.01 mg) Class I and Coarser | Using E1 Class Standard Weights as per OIML R-76 | 1 mg to 200 g | 0.11mg |

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|---|---|---|---|---|---|
| 74 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing balance (d: 0.1 g)-Class III & Coarser | Using E2, Class Standard Weights as per OIML R-76 | 50 g to 20 kg | 0.2g |
| 75 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing balance (d: 50 g)-Class III & Coarser | Using E2, F1 Class Standard Weights as per OIML R-76 | >20 kg to 500 kg | 0.28kg |
| 76 | MECHANICAL-WEIGHTS | Weights ( E2 Class and coarser) | Using E1 Class Standard Weights and micro balance of Readability 0.001mg and ABBA Method based on OIML R 111-1 | 1 mg | 0.001mg |
| 77 | MECHANICAL-WEIGHTS | Weights (E2 Class and coarser) | Using E1 Class Standard Weights and micro balance of Readability 0.001mg and ABBA Method based on OIML R 111-1 | 1 g | 0.002mg |
| 78 | MECHANICAL-WEIGHTS | Weights (E2 Class and coarser) | Using E1 Class Standard Weights and semi micro balance of Readability 0.01mg and ABBA Method based on OIML R 111-1 | 10 g | 0.01mg |

# SCOPE OF ACCREDITATION

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|---|---|
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|---|---|---|---|---|---|
| 79 | MECHANICAL-WEIGHTS | Weights (E2 Class and coarser) | Using E1 Class Standard Weights and micro balance of Readability 0.001mg and ABBA Method based on OIML R 111-1 | 10 mg | 0.001mg |
| 80 | MECHANICAL-WEIGHTS | Weights (E2 Class and coarser) | Using E1 Class Standard Weights and semi micro balance of Readability 0.01mg and ABBA Method based on OIML R 111-1 | 100 g | 0.03mg |
| 81 | MECHANICAL-WEIGHTS | Weights (E2 Class and coarser) | Using E1 Class Standard Weights and micro balance of Readability 0.001mg and ABBA Method based on OIML R 111-1 | 100 mg | 0.001mg |
| 82 | MECHANICAL-WEIGHTS | Weights (E2 Class and coarser) | Using E1, E2, F1 Class Standard Weights and micro balance of Readability 0.001mg and ABBA Method based on OIML R 111-1 | 2 g | 0.002mg |

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|---|---|---|---|---|---|
| 83 | MECHANICAL-WEIGHTS | Weights (E2 Class and coarser) | Using E1 Class Standard Weights and micro balance of Readability 0.001mg and ABBA Method based on OIML R 111-1 | 2 mg | 0.001mg |
| 84 | MECHANICAL-WEIGHTS | Weights (E2 Class and coarser) | Using E1 Class Standard Weights and semi micro balance of Readability 0.01mg and ABBA Method based on OIML R 111-1 | 20 g | 0.01mg |
| 85 | MECHANICAL-WEIGHTS | Weights (E2 Class and coarser) | Using E1 Class Standard Weights and micro balance of Readability 0.001mg and ABBA Method based on OIML R 111-1 | 20 mg | 0.001mg |
| 86 | MECHANICAL-WEIGHTS | Weights (E2 Class and coarser) | Using E1 Class Standard Weights and semi micro balance of Readability 0.01mg and ABBA Method based on OIML R 111-1 | 200 g | 0.07mg |

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|---|---|---|---|---|---|
| 87 | MECHANICAL-WEIGHTS | Weights (E2 Class and coarser) | Using E1 Class Standard Weights and micro balance of Readability 0.001mg and ABBA Method based on OIML R 111-1 | 200 mg | 0.001mg |
| 88 | MECHANICAL-WEIGHTS | Weights (E2 Class and coarser) | Using E1 Class Standard Weights and micro balance of Readability 0.001mg and ABBA Method based on OIML R 111-1 | 5 g | 0.003mg |
| 89 | MECHANICAL-WEIGHTS | Weights (E2 Class and coarser) | Using E1 Class Standard Weights and micro balance of Readability 0.001mg and ABBA Method based on OIML R 111-1 | 5 mg | 0.001mg |
| 90 | MECHANICAL-WEIGHTS | Weights (E2 Class and coarser) | Using E1 Class Standard Weights and semi micro balance of Readability 0.01mg and ABBA Method based on OIML R 111-1 | 50 g | 0.02mg |

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|---|---|---|---|---|---|
| 91 | MECHANICAL-WEIGHTS | Weights (E2 Class and coarser) | Using E1 Class Standard Weights and micro balance of Readability 0.001mg and ABBA Method based on OIML R 111-1 | 50 mg | 0.001mg |
| 92 | MECHANICAL-WEIGHTS | weights (E2 Class and coarser) | Using E1 Class Standard Weights and micro balance of Readability 0.001mg and ABBA Method based on OIML R 111-1 | 500 mg | 0.001mg |
| 93 | MECHANICAL-WEIGHTS | Weights (F1 Class and coarser) | Using E2 Class Standard Weights and Weighing Balance of Readability 0.01g and ABBA Method based on OIML R 111-1 | 10 kg | 9.2mg |
| 94 | MECHANICAL-WEIGHTS | Weights (F1 Class and coarser) | Using E2 Class Standard Weights and Weighing Balance of Readability 0.001g and ABBA Method based on OIML R 111-1 | 2 kg | 1.2mg |

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|---|---|---|---|---|---|
| 95 | MECHANICAL-WEIGHTS | Weights (F2 Class and coarser) | Using E2 Class Standard Weights and Weighing Balance of Readability 0.01g and ABBA Method based on OIML R 111-1 | 5 kg | 3mg |
| 96 | MECHANICAL-WEIGHTS | Weights (F2 Class and coarser) | Using E2 Class Standard Weights and Weighing Balance of Readability 0.001g and ABBA Method based on OIML R 111-1 | 500 g | 0.93mg |
| 97 | MECHANICAL-WEIGHTS | Weights (M1 Class and coarser) | Using E2 Class Standard Weights and Weighing Balance of Readability 0.001g and ABBA Method based on OIML R 111-1 | 1 kg | 6.23mg |
| 98 | MECHANICAL-WEIGHTS | Weights (M1 Class and coarser) | Using F1 Class Standard Weights and Weighing Balance of Readability 0.1g and ABBA Method based on OIML R 111-1 | 20 kg | 9.5mg |

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|---|---|---|---|---|---|
| 99 | THERMAL-SPECIFIC HEAT & HUMIDITY | Humidity Indicator with Sensor of Environment Chamber@ 25ºC | Using Temperature and Humidity Indicator with Sensor (Single Position) Calibration by Comparison Method | 20 %rh to 65 %rh | 0.56%rh |
| 100 | THERMAL-SPECIFIC HEAT & HUMIDITY | Humidity Indicator with Sensor of Environment Chamber@ 25ºC | Using Temperature and Humidity datalogger (Multi position) Calibration Mapping by Comparison Method | 20 %rh to 95 %rh | 4.05%rh |
| 101 | THERMAL-SPECIFIC HEAT & HUMIDITY | RH Chamber, Temperature and RH chamber@ 25ºC | Using Temperature and Humidity datalogger (Multi position) Calibration Mapping by Comparison Method | 20 %rh to 95 %rh | 4.05%rh |
| 102 | THERMAL-SPECIFIC HEAT & HUMIDITY | RH Chamber, Temperature and RH of the chamber@ 25ºC | Using Temperature and Humidity Indicator with Sensor (Single Position) Calibration by Comparison Method | 20 %rh to 95 %rh | 1.04%rh |

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|---|---|---|---|---|---|
| 103 | THERMAL-SPECIFIC HEAT & HUMIDITY | Thermo Hygrometer, Humidity Meters with External Sensor, Humidity Meters with Internal Sensor, Datalogger @ 25ºC | Using Temperature and Humidity Sensor with Indicator and Humidity generator by Comparison Method | 10 %rh to 95 %rh | 1.64%rh |
| 104 | THERMAL-SPECIFIC HEAT & HUMIDITY | Thermo Hygrometer, Humidity Meters with External Sensor, Humidity Meters with Internal Sensor, Datalogger @ 50%rh | Using Temperature and Humidity Sensor with Indicator and Humidity generator by Comparison Method | (10 °C to 50 °C) @ 50%rh | 1.61°C |
| 105 | THERMAL-TEMPERATURE | Incubator, Oven, Environmental Chamber, Baths, Autoclave (Non - Medical) at Multi position Mapping | Using 4 Wire RTD sensors with Multi channel Data logger by Comparison Method (Multi Position) | -80 °C to 250 °C | 1.42°C |
| 106 | THERMAL-TEMPERATURE | Indicator of Black Body Source @Emissitivity 0.95 | Using Infrared Thermometer by Comparison method | -20 °C to 50 °C | 1.5°C |
| 107 | THERMAL-TEMPERATURE | Indicator of Black Body Source @Emissitivity 0.95 | Using Infrared Thermometer by Comparison method | 50 °C to 500 °C | 1.7°C |
| 108 | THERMAL-TEMPERATURE | Indicator of Black Body Source @Emissitivity 0.98 | Using Infrared Thermometer by Comparison method | 500 °C to 1300 °C | 4°C |

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|---|---|---|---|---|---|
| 109 | THERMAL-TEMPERATURE | IR Thermometer, IR Sensors, Pyrometer, Non-contact thermometer ,Thermal Imager | Using Standard Infrared Thermometer and Block Body Source with emissivity of 0.950 by Comparison method | -20 °C to 50 °C | 1.5°C |
| 110 | THERMAL-TEMPERATURE | IR Thermometer, IR Sensors, Pyrometer, Non-contact thermometer, Thermal Imager | Using Standard Infrared Thermometer and Block Body Source with emissivity of 0.950 by Comparison method | 50 °C to 500 °C | 1.7°C |
| 111 | THERMAL-TEMPERATURE | IR Thermometer, IR Sensors, Pyrometer, Non-contact thermometer, Thermal Imager | Using Standard Infrared Thermometer and Block Body Source with emissivity of 0.98 by Comparison method | 500 °C to 1300 °C | 4°C |
| 112 | THERMAL-TEMPERATURE | Liquid in Glass Thermometer, Temperature Gauge | Using PRT Sensor with Digital Multimeter using Oil Bath by Comparison Method | >25 °C to 200 °C | 1°C |

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|---|---|---|---|---|---|
| 113 | THERMAL-TEMPERATURE | Liquid in Glass Thermometer, Temperature Gauge | Using PRT Sensor with Digital Multimeter and Low temperature Liquid Bath by Comparison Method | -80 °C to 25 °C | 1.5°C |
| 114 | THERMAL-TEMPERATURE | Muffle Furnace, Furnace, Temperature Bath (at Single Position) | Using S-Type thermocouple with Indicator by Comparison Method (Single Position) | 650 °C to 1200 °C | 1.65°C |
| 115 | THERMAL-TEMPERATURE | RTD, Thermocouple With or Without Indicator / Data logger with Sensor / Recorder, Digital Thermometer, Temperature switches / Thermostat, Temperature Transmitter with Sensor | Using PRT sensor with Digital Multimeter & Dry bath by Comparison method | >40 °C to 650 °C | 0.14°C |

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|---|---|---|---|---|---|
| 116 | THERMAL-TEMPERATURE | RTD, Thermocouple With or Without Indicator / Data logger with Sensor / Recorder, Digital Thermometer, Temperature switches / Thermostat, Temperature Transmitter with Sensor | Using PRT sensor with Digital Multimeter &Low Temperature Dry bath by Comparison method | -100 °C to 40 °C | 0.1°C |
| 117 | THERMAL-TEMPERATURE | Temperature Indicator of Industrial Freezer | Using 4 Wire RTD sensors with Multi channel Data logger by Comparison Method (Multi Position) | -80 °C to 25 °C | 1.42°C |
| 118 | THERMAL-TEMPERATURE | Temperature Indicator of industrial Freezer, Incubator, Oven, Environmental Chamber at Single Position | Using PRT with Digital Multimeter Indicator by Comparison Method (Single Position) | -100 °C to 40 °C | 0.35°C |

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|---|---|---|---|---|---|
| 119 | THERMAL-TEMPERATURE | Temperature Indicator of Industrial Freezer, Incubator, ovens, Environmental Chamber, Baths at Multi Position (Mapping) | Using RTD sensors with Multi channel Data logger by Comparison Method (Multi Position) | -80 °C to 250 °C | 1.42°C |
| 120 | THERMAL-TEMPERATURE | Temperature Indicator of Industrial Freezer, Incubator, ovens, Environmental Chamber, Baths at Single Position | Using RTD sensors with Multi channel Data logger by Comparison Method (Multi Points) | -80 °C to 250 °C | 1.4°C |
| 121 | THERMAL-TEMPERATURE | Temperature Indicator of Oven, Furnace, Temperature Bath at Single Position | Using PRT with Digital Multimeter Indicator and S-Type thermocouple with Indicator by Comparison Method (Single Position) | 25 °C to 650 °C | 0.59°C |
| 122 | THERMAL-TEMPERATURE | Temperature Indicator of Oven, Muffle Furnace, Furnace, Temperature Bath at Single Position | Using PRT with Digital multimeter Indicator by Comparison Method (Single Position) | >40 °C to 650 °C | 0.47°C |

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|---|---|---|---|---|---|
| 123 | THERMAL-TEMPERATURE | Thermocouple With or Without Indicator / Data logger with Sensor / Recorder, Digital Thermometer, Temperature switches / Thermostat, Temperature Transmitter with Sensor | Using S-Type Thermocouple with Indicator & high temperature bath by Comparison method | 650 °C to 1200 °C | 1.8°C |

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|---|---|---|---|---|---|
| Site Facility | | | | | |
| 1 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | AC Current @ 50Hz | Using 6½ Digital Multimer by Direct Method | 10 µA to 10 mA | 0.96 % to 0.16 % |
| 2 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | AC Current @ 50Hz | Using 6½ Digital Multimer by Direct Method | 10 mA to 3 A | 0.16 % to 0.28 % |
| 3 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | AC Current @ 50Hz | Using 6½ Digital Multimer by Direct Method | 3 A to 10 A | 0.28 % to 0.53 % |
| 4 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | AC Voltage @ 50Hz | Using 6½ Digital Multimer by Direct Method | 10 mV to 2 V | 0.42 % to 0.24 % |
| 5 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | AC Voltage @ 50Hz | Using 6½ Digital Multimer by Direct Method | 2 V to 750 V | 0.24 % to 0.12 % |

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|---|---|---|---|---|---|
| 6 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | Using 6½ Digital Multimer by Direct Method | 10 µA to 10 mA | 0.059 % to 0.052 % |
| 7 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | Using 6½ Digital Multimer by Direct Method | 10 mA to 3 A | 0.052 % to 0.063 % |
| 8 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | Using 6½ Digital Multimer by Direct Method | 3 A to 10 A | 0.063 % to 0.28 % |
| 9 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | Using 6½ Digital Multimer by Direct Method | 1 mV to 10 V | 0.41 % to 0.0035 % |
| 10 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | Using 6½ Digital Multimer by Direct Method | 10 V to 200 V | 0.0035 % to 0.0085 % |
| 11 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | Using 6½ Digital Multimer by Direct Method | 200 V to 1000 V | 0.0085 % to 0.0055 % |

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|---|---|---|---|---|---|
| 12 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | Using 6½ Digital Multimer by Direct Method | 1 kohm to 1 Mohm | 0.0095 % to 0.012 % |
| 13 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | Using 6½ Digital Multimer by Direct Method | 1 Mohm to 20 Mohm | 0.012 % to 0.24 % |
| 14 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | Using 6½ Digital Multimer by Direct Method | 10 Ohm to 1 kohm | 0.012 % to 0.0094 % |
| 15 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | AC Current @ 50 Hz | Using Multi-function calibrator by Direct Method | 1 mA to 200 mA | 0.21 % to 0.16 % |
| 16 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | AC Current @ 50 Hz | Using Multi-function calibrator by Direct Method | 2 A to 15 A | 0.35 % to 0.31 % |
| 17 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | AC Current @ 50 Hz | Using Multi-function calibrator with Current coil by Direct Method | 20 A to 750 A | 6.24 % to 2.17 % |

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|---|---|---|---|---|---|
| 18 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | AC Current @ 50 Hz | Using Multi-function calibrator by Direct Method | 200 mA to 2 A | 0.28 % to 0.35 % |
| 19 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | AC Voltage @ 50 Hz | Using Multi-function calibrator by Direct Method | 10 V to 750 V | 1.04 % to 0.18 % |
| 20 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | AC Voltage @50 Hz | Using Multi-function calibrator by Direct Method | 1 mV to 200 mV | 5.28 % to 0.16 % |
| 21 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | AC Voltage @50 Hz | Using Multi-function calibrator by Direct Method | 200 mV to 10 V | 0.162 % to 1.04 % |
| 22 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multi-function calibrator by Direct Method | 1 mA to 200 mA | 0.21 % to 0.16 % |
| 23 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multi-function calibrator by Direct Method | 2 A to 20 A | 0.35 % to 0.16 % |

# SCOPE OF ACCREDITATION

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|---|---|---|---|---|---|
| 24 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multi-function calibrator with Current coil by Direct Method | 20 A to 1000 A | 2.07 % to 1.52 % |
| 25 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multi-function calibrator by Direct Method | 200 mA to 2 A | 0.16 % to 0.35 % |
| 26 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage | Using Multi-function calibrator by Direct Method | 1 mV to 200 mV | 4.70 % to 0.058 % |
| 27 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage | Using Multi-function calibrator by Direct Method | 10 V to 1000 V | 0.081 % to 0.12 % |
| 28 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage | Using Multi-function calibrator by Direct Method | 200 mV to 10 V | 0.058 % to 0.081 % |
| 29 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance | Using Multi-function calibrator by Direct Method | (10,20,50,100,200) Ohm | 1.39 % to 0.25 % |

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|---|---|---|---|---|---|
| 30 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance | Using Multi-function calibrator by Direct Method | (200,500) Ohm, (1,2,5,10, 20,50,100,200,500) kohm, (1,2,5,10 & 20) Mohm | 0.24% |
| 31 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | B Type Thermocouple | Using Multi-function calibrator by Simulation Method | 100 °C to 1800 °C | 1.35°C |
| 32 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | E Type Thermocouple | Using Multi-function calibrator by Simulation Method | -200 °C to 1000 °C | 0.65°C |
| 33 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | J Type Thermocouple | Using Multi-function calibrator by Simulation Method | -200 °C to 1200 °C | 0.68°C |
| 34 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | K Type Thermocouple | Using Multi-function calibrator by Simulation Method | -200 °C to 1350 °C | 0.74°C |
| 35 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | N Type Thermocouple | Using Multi-function calibrator by Simulation Method | -200 °C to 1300 °C | 0.74°C |

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|---|---|---|---|---|---|
| 36 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | R Type Thermocouple | Using Multi-function calibrator by Simulation Method | 0 °C to 1750 °C | 1.12°C |
| 37 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | RTD | Using Multi-function calibrator by Simulation Method | -200 °C to 850 °C | 0.67°C |
| 38 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | S Type Thermocouple | Using Multi-function Calibrator by Simulation Method | 0 °C to 1750 °C | 1.0°C |
| 39 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | T Type Thermocouple | Using Multi-function calibrator by Simulation Method | -100 °C to 400 °C | 0.67°C |
| 40 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | R Type Thermocouple | Using Multi-function calibrator by Simulation Method | 0 °C to 1750 °C | 0.93°C |
| 41 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | RTD | Using Multi-function calibrator by Simulation Method | -200 °C to 850 °C | 0.41°C |

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|---|---|---|---|---|---|
| 42 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time | Using Timer Interval Calibrator by comparison method | 1 s to 86400 s | 0.017 s to 14.22 s |
| 43 | MECHANICAL-ACCELERATION AND SPEED | RPM (Contact Type) Tachometers | Using Digital Tachometer, Tachometer Cal-Source by Comparison method | 10 rpm to 99.9 rpm | 0.8rpm |
| 44 | MECHANICAL-ACCELERATION AND SPEED | RPM (Contact Type) Tachometers | Using Digital Tachometer, Tachometer Cal-Source by Comparison method | 100 rpm to 999.9 rpm | 2.57rpm |
| 45 | MECHANICAL-ACCELERATION AND SPEED | RPM (Contact Type) Tachometers | Using Digital Tachometer, Tachometer Cal-Source by Comparison method | 1000 rpm to 8000 rpm | 5.8rpm |
| 46 | MECHANICAL-ACCELERATION AND SPEED | RPM (Non Contact Type) Tachometers | Using Digital Tachometer and Tachometer Cal-Source by Comparison method | 10 rpm to 99.99 rpm | 0.7rpm |
| 47 | MECHANICAL-ACCELERATION AND SPEED | RPM (Non Contact Type) Tachometers | Using Digital Tachometer and Tachometer Cal-Source by Comparison method | 100 rpm to 999.9 rpm | 2.6rpm |

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|---|---|---|---|---|---|
| 48 | MECHANICAL-ACCELERATION AND SPEED | RPM (Non Contact Type) Tachometers | Using Digital Tachometer and Tachometer Cal-Source by Comparison method | 1000 rpm to 90000 rpm | 27.7rpm |
| 49 | MECHANICAL-ACOUSTICS | Sound Level Meter @ 1000 Hz | Using Sound Level Calibrator by Direct Method | 94 dB | 0.22dB |
| 50 | MECHANICAL-ACOUSTICS | Sound Level Meter @ 1000 Hz | Using Sound Level Calibrator by Direct Method | 114 dB | 0.22dB |
| 51 | MECHANICAL-PRESSURE INDICATING DEVICES | Magnehelic Gauge, Differential Pressure Gauge, Differential Pressure Indicator, Manometer, Differential Pressure Transmitter, Differential Pressure Switch.(Pneumatic) | Using Screw Pump with Digital Manometer and digital multimeter as per DKD-R6-1 by Comparison method. | 0 Pa to 1960 Pa | 1.87Pa |
| 52 | MECHANICAL-PRESSURE INDICATING DEVICES | Magnehelic Gauge, Differential Pressure Gauge, Differential Pressure Indicator, Manometer, Differential Pressure Transmitter, Differential Pressure Switch.(Pneumatic) | Using Screw Pump with Digital Manometer and digital multimeter as per DKD-R6-1 by Comparison method. | 0 Pa to 4903 Pa | 2.01Pa |

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|---|---|---|---|---|---|
| 53 | MECHANICAL-PRESSURE INDICATING DEVICES | Magnehelic Gauge, Differential Pressure Gauge, Differential Pressure Indicator, Manometer, Differential Pressure Transmitter, Differential Pressure Switch.(Pneumatic) | Using Screw Pump with Digital Manometer and digital multimeter as per DKD-R6-1 by Comparison method. | -245 Pa to 245 Pa | 0.41Pa |
| 54 | MECHANICAL-PRESSURE INDICATING DEVICES | Magnehelic Gauge, Differential Pressure Gauge, Differential Pressure Indicator, Manometer, Differential Pressure Transmitter, Differential Pressure Switch.(Pneumatic) | Using Screw Pump with Digital Manometer and Digital multimeter as per DKD-R6-1 by Comparison method. | -9806 Pa to 9806 Pa | 9.86Pa |
| 55 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Indicator, Pressure Gauge, Pressure Transmitter, Pressure Switch (Hydraulic) | Using Hydraulic Comparator Pump with Digital Pressure Gauges per DKD R-6-1 by Comparison Method. | 0 bar to 1000 bar | 0.46bar |
| 56 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Indicator, Pressure Gauge, Pressure Transmitter, Pressure Switch (Hydraulic) | Using Hydraulic Comparator Pump with Digital Pressure Gauges per DKD R-6-1 by Comparison Method | 0 bar to 500 bar | 0.28bar |

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|---|---|---|---|---|---|
| 57 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Indicator, Pressure Gauge, Pressure Transmitter, Pressure Switch (Pneumatic) | Using Pneumatic Hand Pump with Digital Pressure Gauge and digital multimeter or multifunction calibratior as readout unit (for transmitter) as per DKD R6-1 By Comparison Method | 0 bar to 60 bar | 0.05bar |
| 58 | MECHANICAL-PRESSURE INDICATING DEVICES | Vacuum Gauge, Vacuum Indicators Pressure Gauge, Compound Gauge, Pressure Indicators, Vacuum Transmitter, Vacuum Switch (Pneumatic) | Using Pneumatic Hand Pump with Digital Pressure Gauge and digital multimeter or multifunction calibratior as readout unit (for transmitter) as per DKD R6-1 By Comparison Method. | 0 bar to -0.9 bar | 0.002bar |

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| 59 | MECHANICAL-PRESSURE INDICATING DEVICES | Vacuum Gauge, Vacuum Indicators Pressure Gauge, Compound Gauge, Pressure Indicators, Vacuum Transmitter, Vacuum Switch (Pneumatic) | Using Pneumatic Hand Pump with Digital Pressure Gauge and digital multimeter or multifunction calibratior as readout unit (for transmitter) as per DKD R6-1 By Comparison Method | 0 bar to 7 bar | 0.0077bar |
| 60 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing balance (d: 0.001 g) Class II & Coarser | Using E2 Class Standard Weights as per OIML R-76 | 1 g to 2 kg | 5.77mg |
| 61 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing balance (d: 0.001 mg) Class I and Coarser | Using E1 Class Standard Weights as per OIML R-76 | 1 mg to 5 g | 0.005mg |
| 62 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing balance (d: 0.01 g)- Class II & Coarser | Using E2 Class Standard Weights as per OIML R-76 | 10 g to 10 kg | 17.7mg |
| 63 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing balance (d: 0.01 mg) Class I and Coarser | Using E1 Class Standard Weights as per OIML R-76 | 1 mg to 200 g | 0.11mg |

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|---|---|---|---|---|---|
| 64 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing balance (d: 0.1 g)-Class III & Coarser | Using E2, Class Standard Weights as per OIML R-76 | 50 g to 20 kg | 0.2g |
| 65 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing balance (d: 50 g)-Class III & Coarser | Using E2, F1 Class Standard Weights as per OIML R-76 | >20 kg to 500 kg | 0.28kg |
| 66 | THERMAL-SPECIFIC HEAT & HUMIDITY | Humidity Indicator with Sensor of Environment Chamber@ 25ºC | Using Temperature and Humidity Indicator with Sensor (Single Position) Calibration by Comparison Method | 20 %rh to 65 %rh | 0.56%rh |
| 67 | THERMAL-SPECIFIC HEAT & HUMIDITY | Humidity Indicator with Sensor of Environment Chamber@ 25ºC | Using Temperature and Humidity datalogger (Multi position) Calibration Mapping by Comparison Method | 20 %rh to 95 %rh | 4.05%rh |
| 68 | THERMAL-SPECIFIC HEAT & HUMIDITY | RH Chamber, Temperature and RH chamber@ 25ºC | Using Temperature and Humidity datalogger (Multi position) Calibration Mapping by Comparison Method | 20 %rh to 95 %rh | 4.05%rh |

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| 69 | THERMAL-SPECIFIC HEAT & HUMIDITY | RH Chamber, Temperature and RH of the chamber@ 25ºC | Using Temperature and Humidity Indicator with Sensor (Single Position) Calibration by Comparison Method | 20 %rh to 95 %rh | 1.04%rh |
| 70 | THERMAL-SPECIFIC HEAT & HUMIDITY | Thermo Hygrometer, Humidity Meters with External Sensor, Humidity Meters with Internal Sensor, Datalogger @ 25ºC | Using Temperature and Humidity Sensor with Indicator and Humidity generator by Comparison Method | 10 %rh to 95 %rh | 1.64%rh |
| 71 | THERMAL-SPECIFIC HEAT & HUMIDITY | Thermo Hygrometer, Humidity Meters with External Sensor, Humidity Meters with Internal Sensor, Datalogger @ 50%rh | Using Temperature and Humidity Sensor with Indicator and Humidity generator by Comparison Method | (10 °C to 50 °C) @ 50%rh | 1.61°C |
| 72 | THERMAL-TEMPERATURE | Incubator, Oven, Environmental Chamber, Baths, Autoclave (Non - Medical) at Multi position Mapping | Using 4 Wire RTD sensors with Multi channel Data logger by Comparison Method (Multi Position) | -80 °C to 250 °C | 1.42°C |
| 73 | THERMAL-TEMPERATURE | Indicator of Black Body Source @Emissitivity 0.95 | Using Infrared Thermometer by Comparison method | -20 °C to 50 °C | 1.5°C |

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| 74 | THERMAL-TEMPERATURE | Indicator of Black Body Source @Emissitivity 0.95 | Using Infrared Thermometer by Comparison method | 50 °C to 500 °C | 1.7°C |
| 75 | THERMAL-TEMPERATURE | Indicator of Black Body Source @Emissitivity 0.98 | Using Infrared Thermometer by Comparison method | 500 °C to 1300 °C | 4°C |
| 76 | THERMAL-TEMPERATURE | IR Thermometer, IR Sensors, Pyrometer, Non-contact thermometer ,Thermal Imager | Using Standard Infrared Thermometer and Block Body Source with emissivity of 0.950 by Comparison method | -20 °C to 50 °C | 1.5°C |
| 77 | THERMAL-TEMPERATURE | IR Thermometer, IR Sensors, Pyrometer, Non-contact thermometer, Thermal Imager | Using Standard Infrared Thermometer and Block Body Source with emissivity of 0.950 by Comparison method | 50 °C to 500 °C | 1.7°C |
| 78 | THERMAL-TEMPERATURE | IR Thermometer, IR Sensors, Pyrometer, Non-contact thermometer, Thermal Imager | Using Standard Infrared Thermometer and Block Body Source with emissivity of 0.98 by Comparison method | 500 °C to 1300 °C | 4°C |

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|---|---|---|---|---|---|
| 79 | THERMAL-TEMPERATURE | Muffle Furnace, Furnace, Temperature Bath (at Single Position) | Using S-Type thermocouple with Indicator by Comparison Method (Single Position) | 650 °C to 1200 °C | 1.65°C |
| 80 | THERMAL-TEMPERATURE | RTD, Thermocouple With or Without Indicator / Data logger with Sensor / Recorder, Digital Thermometer, Temperature switches / Thermostat, Temperature Transmitter with Sensor | Using PRT sensor with Digital Multimeter & Dry bath by Comparison method | >40 °C to 650 °C | 0.14°C |
| 81 | THERMAL-TEMPERATURE | RTD, Thermocouple With or Without Indicator / Data logger with Sensor / Recorder, Digital Thermometer, Temperature switches / Thermostat, Temperature Transmitter with Sensor | Using PRT sensor with Digital Multimeter &Low Temperature Dry bath by Comparison method | -100 °C to 40 °C | 0.1°C |

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|---|---|---|---|---|---|
| 82 | THERMAL-TEMPERATURE | Temperature Indicator of Industrial Freezer | Using 4 Wire RTD sensors with Multi channel Data logger by Comparison Method (Multi Position) | -80 °C to 25 °C | 1.42°C |
| 83 | THERMAL-TEMPERATURE | Temperature Indicator of industrial Freezer, Incubator, Oven, Environmental Chamber at Single Position | Using PRT with Digital Multimeter Indicator by Comparison Method (Single Position) | -100 °C to 40 °C | 0.35°C |
| 84 | THERMAL-TEMPERATURE | Temperature Indicator of Industrial Freezer, Incubator, ovens, Environmental Chamber, Baths at Multi Position (Mapping) | Using RTD sensors with Multi channel Data logger by Comparison Method (Multi Position) | -80 °C to 250 °C | 1.42°C |
| 85 | THERMAL-TEMPERATURE | Temperature Indicator of Industrial Freezer, Incubator, ovens, Environmental Chamber, Baths at Single Position | Using RTD sensors with Multi channel Data logger by Comparison Method (Multi Points) | -80 °C to 250 °C | 1.4°C |

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| 86 | THERMAL-TEMPERATURE | Temperature Indicator of Oven, Furnace, Temperature Bath at Single Position | Using PRT with Digital Multimeter Indicator and S-Type thermocouple with Indicator by Comparison Method (Single Position) | 25 °C to 650 °C | 0.59°C |
| 87 | THERMAL-TEMPERATURE | Temperature Indicator of Oven, Muffle Furnace, Furnace, Temperature Bath at Single Position | Using PRT with Digital multimeter Indicator by Comparison Method (Single Position) | >40 °C to 650 °C | 0.47°C |
| 88 | THERMAL-TEMPERATURE | Thermocouple With or Without Indicator / Data logger with Sensor / Recorder, Digital Thermometer, Temperature switches / Thermostat, Temperature Transmitter with Sensor | Using S-Type Thermocouple with Indicator & high temperature bath by Comparison method | 650 °C to 1200 °C | 1.8°C |

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