



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name PRISM CALIBRATION CENTRE, GF-101,F/101,101 A,B, TF-85 TO101 RUDRAKSH COMPLEX-II,, AHMEDABAD, --SELECT DISTRICT--, GUJARAT , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2480 Page No. : 1 / 60

Validity 26/11/2019 to 25/11/2021 Last Amended on 05/12/2019

| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|---------------------------|---|-------------------------------|-------------------|---|---|
| Permanent Facility | | | | | |
| 1 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | A.C Current @ 50Hz | 0.1 mA to 1 mA | 1.0% to 0.3% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 2 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | A.C Current @ 50Hz | 1 A to 10 A | 0.30% to 0.28% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 3 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | A.C Current @ 50Hz | 1 mA to 100 mA | 0.3% to 0.19% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 4 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | A.C Current @ 50Hz | 100 mA to 1 A | 0.19% to 0.30% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 5 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | A.C High Voltage @ 50 Hz | 1 kV to 5 kV | 7.4% to 4.4% | Using HV Probe with DMM By Direct Method |
| 6 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | A.C Voltage @ 50Hz | 1 V to 1000 V | 0.12% to 0.11% | Using 6½ Digit Multimeter By Direct/Comparison Method |



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|------|---|---|-------------------|---|---|
| 7 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | A.C Voltage @ 50Hz | 10 mV to 1 V | 0.09% to 0.12% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 8 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | 1 Phase/3 Phase Energy@ 50 Hz(50 to 250 V)(1A to 5A) (-0.5 to 0.5 pF) | 50 Wh to 3750 Wh | 0.11% to 0.44% | Using 3 Phase Power/Energy Calibrator By Direct Method |
| 9 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | 1 Phase/3 Phase Power@ 50 Hz(50 to 250 V)(1A to 5A) (-0.5 to 0.5 pF) | 50 W to 3750 W | 0.34% to 0.21% | Using 3 Phase Power/Energy Calibrator By Direct Method |
| 10 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | A.C Current @ 50Hz | 1 mA to 100 mA | 0.68% to 0.61% | Using Multifunction Calibrator By Direct Method |
| 11 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | A.C Current @ 50Hz | 10 A to 800 A | 1.55% to 1.27% | Using Multifunction Calibrator With Current Coil By Direct Method |
| 12 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | A.C Current @ 50Hz | 100 mA to 10 A | 0.61% to 0.51% | Using Multifunction Calibrator By Direct Method |



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|------|--|--|-------------------|---|--|
| 13 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | A.C Voltage @ 50Hz | 10 mV to 100 mV | 1.37 % to 0.52% | Using Multifunction Calibrator By Direct Method |
| 14 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | A.C Voltage @ 50Hz | 100 mV to 1000 V | 0.51% to 0.51% | Using Multifunction Calibrator By Direct Method |
| 15 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | Power Factor @ 50 Hz(50 to 250 V)(0.1 to 5A) | -0.5 pF to 0.5 pF | 0.012pF to 0.012pF | Using 3 Phase Power/Energy Calibrator By Direct Method |
| 16 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C High Voltage | 1 kV to 5 kV | 4.6% to 4.6% | Using HV Probe with DMM By Direct Method |
| 17 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C Current | 0.1 mA to 1 mA | 1.01% to 0.06% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 18 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C Current | 1 A to 10 A | 0.04% to 0.19% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 19 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C Current | 1 mA to 100 mA | 0.06% to 0.07% | Using 6½ Digit Multimeter By Direct/Comparison Method |



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|------|---|-------------------------------|-------------------|---|--|
| 20 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C Current | 100 mA to 1 A | 0.07% to 0.2% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 21 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C Voltage | 1 mV to 100 mV | 0.70% to 0.012% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 22 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C Voltage | 1 V to 1000 V | 0.20% to 0.041% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 23 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C Voltage | 100 mV to 1 V | 0.01% to 0.20% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 24 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | DC Resistance | 1 to 1 | 0.70% to 2.32% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 25 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Current | 0.1 mA to 24 mA | 0.80% to 0.024% | Using Advance Modular Calibrator/Multifunction Calibrator By Direct Method |
| 26 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Current | 10 A to 800 A | 1.48% to 0.51% | Using Multifunction Calibrator With Current Coil By Direct Method |
| 27 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Current | 100 mA to 10 A | 0.61% to 0.38% | Using Multifunction Calibrator By Direct Method |



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|------|--|-------------------------------|-------------------|---|---|
| 28 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Current | 24 mA to 100 mA | 0.68% to 0.61% | Using Multifunction Calibrator By Direct Method |
| 29 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Resistance (Discrete) | to 100 mohm | 0.14% | Using Discrete Standard Resistor By Direct Method |
| 30 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Resistance (Discrete) | to 1000 mohm | 0.12% | Using Discrete Standard Resistor By Direct Method |
| 31 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Resistance (Discrete) | to 10 mohm | 0.14% | Using Discrete Standard Resistor By Direct Method |
| 32 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Resistance (Discrete) | to 1 mohm | to 0.14% | Using Discrete Standard Resistor By Direct Method |
| 33 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Resistance (Discrete) | to 10 μ ohm | to 2.26% | Using Discrete Standard Resistor By Direct Method |
| 34 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Resistance (Discrete) | to 50 μ ohm | to 0.60 % | Using Discrete Standard Resistor By Direct Method |
| 35 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Resistance (Discrete) | to 100 μ ohm | to 0.55% | Using Discrete Standard Resistor By Direct Method |
| 36 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Voltage | 10 mV to 100 mV | 1.17% to 0.19% | Using Multifunction Calibrator By Direct Method |



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|------|---|-------------------------------|--------------------|---|--|
| 37 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Voltage | 100 mV to 1000 V | 0.19% to 0.12% | Using Multifunction Calibrator By Direct Method |
| 38 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | DC Resistance | 1 to 1 | 1.40% to 2.65% | Using Decade Resistance Box By Direct Method |
| 39 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | Resistance | 1 to 100 | 2.65% to 2.84% | Using High Resistance Jig By Direct Method |
| 40 | ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Measure) | B Type thermocouple | 600 °C to 1800 °C | 2.47°C to 1.47°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |
| 41 | ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Measure) | J Type thermocouple | -100 °C to 1200 °C | 0.76°C to 0.80°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |
| 42 | ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Measure) | K Type thermocouple | -50 °C to 1300 °C | 0.76°C to 0.93°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |
| 43 | ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Measure) | N Type thermocouple | -50 °C to 1300 °C | 0.60°C to 0.60°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |



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|------|--|-------------------------------|--------------------|---|---|
| 44 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | R Type thermocouple | 360 °C to 1700 °C | 1.46°C to 1.47°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |
| 45 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | RTD type | -200 °C to 800 °C | 0.16°C to 0.33°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |
| 46 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | S Type thermocouple | 300 °C to 1700 °C | 1.95°C to 1.47°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |
| 47 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | T Type thermocouple | -50 °C to 400 °C | 0.76°C to 0.77°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |
| 48 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | B Type Thermocouple | 600 °C to 1800 °C | 2.47°C to 2.48°C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |
| 49 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | J Type Thermocouple | -100 °C to 1200 °C | 0.77°C to 0.77°C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |



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|------|--|----------------------------------|----------------------|---|--|
| 50 | ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source) | K Type Thermocouple | -50 °C to 1300 °C | 0.77°C to 0.59°C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |
| 51 | ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source) | N Type Thermocouple | -50 °C to 1300 °C | 0.60°C to 0.60°C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |
| 52 | ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source) | R Type Thermocouple | 360 °C to 1700 °C | 1.46°C to 1.46°C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |
| 53 | ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source) | RTD Type | -200 °C to 800 °C | 0.28°C to 0.57°C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |
| 54 | ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source) | S Type Thermocouple | 300 °C to 1700 °C | 1.46°C to 1.46 °C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |



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|------|---|--|-------------------|---|---|
| 55 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | T Type Thermocouple | -50 °C to 400 °C | 0.76°C to 0.77°C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |
| 56 | ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure) | Digital Timer,Time Totalizer,Digital Stopwatch,Totalizer,Programmable Timer. | 1 hr to 24 hr | 1.30Sec to 5.18Sec | Using Digital Time Interval Meter By Direct/Comparison Method |
| 57 | ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure) | Digital Timer,Time Totalizer,Digital Stopwatch,Totalizer,Programmable Timer. | 2 mSec to 1 hr | 0.013 Sec to 1.30Sec | Using Digital Time Interval Meter By Direct/Comparison Method |
| 58 | ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure) | Frequency | 10 Hz to 50 kHz | 0.04% to 0.03% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 59 | ELECTRO-TECHNICAL- TIME & FREQUENCY (Source) | Frequency | 10 Hz to 50 kHz | 0.58% to 0.02% | Using Advance Modular Calibrator By Direct Method |
| 60 | FLUID FLOW- FLOW MEASURING DEVICES | All Flow Rate Metering Devices such as Digital Flow Meter, Air Flow Meter, Laminar Flow Meter/Element,Dry Gas Meter,Flow Data Logger. Mass Flow Controller, Rotameter. | 50 LPM to 300 LPM | 3.40%Rdg to 3.40%Rdg | Using Orifice Flow Meter By Comparison Method |



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| 61 | FLUID FLOW- FLOW MEASURING DEVICES | Flow Rate Of Rota meter Calibrator/Sampling Pump,Digital Air Flow meter, | 5 LPM to 50 LPM | 1.00%Rdg to 1.1%Rdg | Using Laminar Flow Calibrator/ Air Flow Calibrator By Comparison Method |
| 62 | FLUID FLOW- FLOW MEASURING DEVICES | Flow Rate Of Rota meter Calibrator/Sampling Pump,Digital Air Flow meter. | 0.5 LPM to 5 LPM | 1.00%Rdg to 1.00%Rdg | Using Laminar Flow Calibrator/ Air Flow Calibrator By Comparison Method |
| 63 | FLUID FLOW- FLOW MEASURING DEVICES | Velocity/Pitot Tube/Anemometer | 0.65 m/s to 3.0 m/s | 7.3%Rdg to 7.3%Rdg | Using Air Velocity With Indicator |
| 64 | FLUID FLOW- FLOW MEASURING DEVICES | Velocity/Pitot Tube/Anemometer | 3.00 m/s to 20.00 m/s | 1.9% Rdg to 1.9%Rdg | Using Hot Wire Anemomter By Comparison Method |
| 65 | MECHANICAL- ACCELERATION AND SPEED | Tachometer, Calibrator,Centrifuge Machine (Contact Type) | 55.0 RPM to 2998 RPM | 2.6RPM to 7.7RPM | Using Digital Tachometer & Tachometer Calibrato By Comparison Method |
| 66 | MECHANICAL- ACCELERATION AND SPEED | Tachometer, Calibrator,Centrifuge Machine (Noncontact Type) | 1000 RPM to 50000 RPM | 2.9RPM to 30.3RPM | Using Digital Tachometer & Tachometer Calibrator By Comparison Method |
| 67 | MECHANICAL- ACCELERATION AND SPEED | Tachometer, Calibrator,Centrifuge Machine (Noncontact Type) | 53 RPM to 1000 RPM | 1.8RPM to 2.9RPM | Using Digital Tachometer & Tachometer Calibrator By Comparison Method |
| 68 | MECHANICAL- ACOUSTICS | Sound level meter | 1 kHz , 94 dB to 114 dB | 1.1dB | Using Sound level calibrator along with meter |



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| 69 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Caliper (Vernier / Dial / Digital) L.C.10µm | up to 600 mm | 14.2µm | Caliper Checker; Gauge Block Set & Length Bar , Comparison IS 3651 |
| 70 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Coating Thickness Gauge L.C: 0.001 mm | up to 1 mm | 3.7µm | Using Master Foil |
| 71 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Cylindrical Measuring Pin | 0.1 mm to 20 mm | 2.0µm | Using ULM IS:11103 |
| 72 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Depth Gauge(Dial, Digital, VernierL.C. 0.02 mm | up to 150 mm | 14.0µm | Using Slip Gauge Set, Holding Fixture and Surface Plate |
| 73 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial /Digital Gauge (Plunger Type) L.C. 1 µm | up to 50 mm | 1.4µm | ULM Comparison IS 2092 |
| 74 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial Bore Gauge (Transmission Mechanism) | up to 1 mmTransmission | 3.2µm | ULM JIS B 7515 |



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| 75 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial Comparator L.C -1 µm | up to 0.050 mm | 1.2um | using ULM |
| 76 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial Gauge (Lever Type) L.C. 1 µm | up to 1 mm | 1.3um | ULM Comparison IS 11498 |
| 77 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial/Digital Thickness gauge L.C. 1 µm | up to 25 mm | 0.7um | Gauge Block set |
| 78 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Digital Angle Measuring Instrument/Bevel Protractor/Combination Set(L.C:- 5") | 0 ° to 90 ° (4 Quadrant) | 87Sec | Using Angle Gauge Block By Comparison Method |
| 79 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | External Micrometer L.C.1µm | 100 mm to 300 mm | 3.7um | Mick Check Set & Gauge Block Comparison IS 2967 |
| 80 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | External Micrometer L.C.1µm | up to 100 mm | 1.4um | Mick Check Set & Gauge Block Comparison IS 2967 |



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| 81 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Feeler Gauge | up to 1 mm | 1.4um | ULM Comparison IS 3179 |
| 82 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Foils | 0.003 mm to 12 mm | 1.4um | using ULM |
| 83 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Height Gauge (Vernier / Dial / Digital) L.C. 10µm | up to 600 mm | 15.6um | Caliper Checker & Length Bar Comparison IS 2921 |
| 84 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Internal Micrometer 2- points Travel of Micrometer Head L.C. 0.01 mm | 25 mm to 32 mm | 3.4um | ULM & Long Slip Gauge Comparison IS 2966 |
| 85 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Internal Micrometer 2- points Basic Travel of Micrometer Head L.C. 10µm | 50 mm to 63 mm | 3.4um | ULM & Long Slip Gauge Comparison IS 2966 |
| 86 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Internal Micrometer 2- points Travel of Micrometer Head with Extension Rod (Interchangeable) L.C. 0.01 mm | 10 mm to 250 mm | 4.4um | ULM & Long Slip Gauge Comparison IS 2966 |



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|------|--|-----------------------------------|-------------------|---|--|
| 87 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Measuring Scale/ Taper Scale | up to 1000 mm | 290um | Using Tape and Scale IS:1481 |
| 88 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Measuring Tape/ Pie Tape | up to 50 meter | $290 * \sqrt{L}$ um , where L is in metre | Using Tape and Scale Calibrator IS:1269 |
| 89 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Pistol Caliper L.C: 50 μ m | up to 100 mm | 29.3um | Using Slip Gauge Set |
| 90 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Plug Gauge | 3 mm to 100 mm | 2.3um | ULM & Gauge Block Comparison IS 3455 |
| 91 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Plug Gauge | 100 mm to 280 mm | 3.5um | ULM & Gauge Block Comparison IS 3455 |
| 92 | MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Ring Gauge | 4 mm to 150 mm | 2.4um | ULM & Master Ring Comparison IS 3455 , IS 7876 |



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|------|---|--------------------------------------|----------------------|---|--|
| 93 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Setting Rods | 25 mm to 275 mm | 3.8um | ULM & Long Slip Gauge |
| 94 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Snap Gauge | 8 mm to 150 mm | 2.8um | ULM & Master Ring IS 7876 |
| 95 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Spirit Level L.C: 0.01 mm/m | 0.01 mm/m | 11.2um | Using Electronic Level IS: 5706 |
| 96 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Surface Plate | up to 2000 x 2000 mm | 3.5((L+W)/125) umwhere L and W is in mm | Using Electronic Level IS: 2285 |
| 97 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Test Sieve | 5 mm to 125 mm | 28um | Using Digital Vernier Caliper IS: 460 (Part I,II,III) |
| 98 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Plug Gauge Effective Diameter | 3 mm to 150 mm | 2.9µm | ULM & Thread Measuring Wires, Gauge Block IS 10685,EURAMETcg10/ V.01 |



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|------|---|--|----------------------|---|--|
| 99 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Plug Gauge - Major Diameter | 3 mm to 150 mm | 3.5µm | ULM & Thread Measuring Wires, Gauge Block IS 10685, EURAMET CG10/V-01 |
| 100 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Ring Gauge Effective Diameter Minor Diameter | 4 mm to 100 mm | ,2.7µm | ULM & Master Ring Comparison IS 2334 ,EURAMET CG10/V-01 |
| 101 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Ultrasonic Thickness Gauge | up to 300 mm | 79µm | Using Slip Gauge Set |
| 102 | MECHANICAL-DUROMETER | Shore Hardness Tester | 0 Shore to 100 Shore | 1.5% to 1.5% | Using Dial Calibration Tester |
| 103 | MECHANICAL-PRESSURE INDICATING DEVICES | Low Pressure/Vacuum Gauge, Transmitter, Switch (Analog/Digital) | 0 mbar to 24.50 mbar | 0.083mbar | Using Digital Pressure Calibrator/Digital Manometer & Low Pressure Pump as Per DKD R6-01 |
| 104 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital) | 2 bar to 20 bar | 0.024bar | Using Digital Pressure Gauge & Pneumatic Pressure Pump & Digital Multi meter as per DKD R6-01 |
| 105 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital) | 700 bar to 1000 bar | 0.9bar | Using Digital Pressure Calibrator & Hydraulic Pressure Pump & Digital Multi meter as per DKD R6-01 IS:3624 |



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|------|--|--|-------------------|---|--|
| 106 | MECHANICAL- PRESSURE INDICATING DEVICES | Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital) | 0 bar to 2 bar | 0.0055bar | Using Digital Pressure Gauge & Pneumatic Pressure Pump & Digital Multi meter as per DKD R6-01 |
| 107 | MECHANICAL- PRESSURE INDICATING DEVICES | Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital) | 20 bar to 340 bar | 0.18bar | Using Digital Pressure Calibrator & Hydraulic Pressure Pump & Digital Multi meter as per DKD R6-01 |
| 108 | MECHANICAL- PRESSURE INDICATING DEVICES | Vacuum Gauge/ Switch / Transmitter (Analog/ Digital) | -0.9 bar to 0 bar | 0.0011bar | Using Digital Vacuum Gauge & Vacuum pump & Digital Multi meter as per DKD R6- 02 ISO 3567 |
| 109 | MECHANICAL- TORQUE GENERATING DEVICES | Torque Tools of Type 1 and 2 Of Type 1 Class B,C,D & E Type 2 Class A,B,D,E | 2 Nm to 20 Nm | 1.86% | Using Three Calibrated Torque Transducer of 20,200 and 2000 N.m Capacity Along with peak holding facility digital indicator in torque wrench calibrating machine , ISO 6789-2003 |
| 110 | MECHANICAL- TORQUE GENERATING DEVICES | Torque Tools of Type 1 and 2 Of Type 1 Class B,C,D & E Type 2 Class A,B,D,E | 20 Nm to 200 Nm | 1.08% | Using Three Calibrated Torque Transducer of 20,200 and 2000 N.m Capacity Along with peak holding facility digital indicator in torque wrench calibrating machine , ISO 6789-2003 |



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|------|--------------------------------------|---|-------------------|---|--|
| 111 | MECHANICAL-TORQUE GENERATING DEVICES | Torque Tools of Type 1 and 2 Of Type 1 Class B,C,D & E Type 2 Class A,B,D,E | 200 Nm to 2000 Nm | 0.75% | Using Three Calibrated Torque Transducer of 20,200 and 2000 N.m Capacity Along with peak holding facility digital indicator in torque wrench calibrating machine , ISO 6789-2003 |
| 112 | MECHANICAL-VOLUME | Glass Burette | 1 ml to 10 ml | 2.4µl | Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461 |
| 113 | MECHANICAL-VOLUME | Glass Burette | 10 ml to 50 ml | 8.1µl | Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461 |
| 114 | MECHANICAL-VOLUME | Glass Burette | 50 ml to 100 ml | 2.94µl | Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461 |
| 115 | MECHANICAL-VOLUME | Glass Pipette (Graduated/Non Graduated) | 0.1 ml to 1 ml | 0.4µl | Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461 |



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|------|-----------------------|---|--------------------|---|---|
| 116 | MECHANICAL- VOLUME | Glass Pipette (Graduated/Non Graduated) | 1 ml to 10 ml | 2.4µl | Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461 |
| 117 | MECHANICAL- VOLUME | Glass Pipette (Graduated/Non Graduated) | 10 ml to 50 ml | 9.44µl | Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461 |
| 118 | MECHANICAL- VOLUME | Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker | 1 ml to 50 ml | 0.80µl | Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461 |
| 119 | MECHANICAL- VOLUME | Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker | 100 ml to 1000 ml | 0.24ml | Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461 |
| 120 | MECHANICAL- VOLUME | Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker | 1000 ml to 5000 ml | 1.2ml | Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461 |
| 121 | MECHANICAL- VOLUME | Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker | 50 ml to 100 ml | 1.1µl | Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461 |



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|------|--|---|---------------------|---|---|
| 122 | MECHANICAL- VOLUME | Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker | 5000 ml to 10000 ml | 7mlml | Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461 |
| 123 | MECHANICAL- VOLUME | Piston Pipette / Micropipette | 10 µl to 100 µl | 0.23µl | Using Digital Weighing balances upto 100g/200g readability 0.01mg/0.1mg and distilled water of known density as per IS 8655- 6 & ISO/TR 20461 |
| 124 | MECHANICAL- VOLUME | Piston Pipette / Micropipette | 100 µl to 500 µl | 0.4µl | Using Digital Weighing balances upto 100g/200g readability 0.01mg/0.1mg and distilled water of known density as per IS 8655- 6 & ISO/TR 20461 |
| 125 | MECHANICAL- VOLUME | Piston Pipette / Micropipette | 500 µl to 1000 µl | 0.65µl | Using Digital Weighing balances upto 100g/200g readability 0.01mg/0.1mg and distilled water of known density as per IS 8655- 6 & ISO/TR 20461 |
| 126 | MECHANICAL- WEIGHING SCALE AND BALANCE | Weighing Balance d=0.01mg and coarser | 0 g to 100 g | 0.076mg | E2 class std. weights & Calibration of Electronics Weighing Balance of class I and coarser as per OIML R- 76-1 |



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|------|---------------------------------------|--|-------------------|---|---|
| 127 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing Balance d=0.1mg and coarser | 100 g to 220 g | 0.095mg | E2 class std. weights & Calibration of Electronics Weighing Balance of class I and coarser as per OIML R-76-1 |
| 128 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing Balance d=100mg and coarser | 6 kg to 20 kg | 79mg | F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1, |
| 129 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing Balance d=10mg and coarser | 1 kg to 6 kg | 6mg | F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1 |
| 130 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing Balance d=1mg and coarser | 220 g to 1 kg | 0.69mg | F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1 |
| 131 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing Balance d=50g and coarser | 100 kg to 300 kg | 33g | F1 class std. weights & Calibration of Electronics Weighing Balance of class III and coarser as per OIML R-76-1 |
| 132 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing Balance d=5g/10g and coarser | 20 kg to 100 kg | 5.8g | F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1 |



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|------|--------------------|-------------------------------|-------------------|---|---|
| 133 | MECHANICAL-WEIGHTS | Weights | 1 kg | 1.16mg | Using F1 Class Standard Weights and Precision Balance of Readability: 1 mg up to 1 kg and ABBA Weighing Cycle Procedure based on OIML R 111 |
| 134 | MECHANICAL-WEIGHTS | Weights | 10 kg | 90mg | Using F1 Class Standard Weights and Precision Balance of Readability: 100 mg up to 20 kg and ABBA Weighing Cycle Procedure based on OIML R 111 |
| 135 | MECHANICAL-WEIGHTS | Weights | 100 g | 0.1g | Using E2 Class Standard Weights and Precision Balance of Readability: 0.01 mg up to 80 g and Readability: 0.1 mg up to 220 g by substitution method of Weighing and ABBA Weighing Cycle Procedure based on OIML R 111 |



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|------|--------------------|-------------------------------|-------------------|---|---|
| 136 | MECHANICAL-WEIGHTS | Weights | 2 kg | 9mg | Using F1 Class Standard Weights and Precision Balance of Readability: 10 mg up to 6 kg and ABBA Weighing Cycle Procedure based on OIML R 111 |
| 137 | MECHANICAL-WEIGHTS | Weights | 20 kg | 90mg | Using F1 Class Standard Weights and Precision Balance of Readability: 100 mg up to 20 kg and ABBA Weighing Cycle Procedure based on OIML R 111 |
| 138 | MECHANICAL-WEIGHTS | Weights | 200 g | 0.1g | Using E2 Class Standard Weights and Precision Balance of Readability: 0.01 mg up to 80 g and Readability: 0.1 mg up to 220 g by substitution method of Weighing and ABBA Weighing Cycle Procedure based on OIML R 111 |



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|------|--------------------|-------------------------------|-------------------|---|---|
| 139 | MECHANICAL-WEIGHTS | Weights | 5 g | 0.012mg | Using E2 Class Standard Weights and Precision Balance of Readability: 0.01 mg up to 80 g and Readability: 0.1 mg up to 220 g by substitution method of Weighing and ABBA Weighing Cycle Procedure based on OIML R 111 |
| 140 | MECHANICAL-WEIGHTS | Weights | 5 kg | 13mg | Using F1 Class Standard Weights and Precision Balance of Readability: 10 mg up to 6 kg and ABBA Weighing Cycle Procedure based on OIML R 111 |
| 141 | MECHANICAL-WEIGHTS | Weights | 50 g | 0.025mg | Using E2 Class Standard Weights and Precision Balance of Readability: 0.01 mg up to 80 g and Readability: 0.1 mg up to 220 g by substitution method of Weighing and ABBA Weighing Cycle Procedure based on OIML R 111 |



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|------|----------------------------------|-------------------------------|-------------------|---|--|
| 142 | MECHANICAL-WEIGHTS | Weights | 50 kg | 4.1g | Using F1 Class Standard Weights and Precision Balance of Readability: 5g/10g up to 100 kg and ABBA Weighing Cycle Procedure based on OIML R 111 |
| 143 | MECHANICAL-WEIGHTS | Weights | 500 g | 0.91mg | Using F1 Class Standard Weights and Precision Balance of Readability: 1 mg up to 1 kg and ABBA Weighing Cycle Procedure based on OIML R 111 |
| 144 | MECHANICAL-WEIGHTS | Weights | 500 mg | 0.01mg | Using E2 Class Standard Weights and Precision Balance of Readability: 0.01 mg up to 100 g and Readability: 0.1 mg up to 220 g by substitution method of Weighing and ABBA Weighing Cycle Procedure based on OIML R 111 |
| 145 | MEDICAL DEVICES-IMAGING/PLOTTERS | Amplitude | 0.05 mV to 5.0 mV | 4.30% to 4.30% | Using Vital Sign Simulator Prosim 4 By Direct Method |
| 146 | MEDICAL DEVICES-IMAGING/PLOTTERS | Chasis Leakage | | 5.0%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |



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|------|--------------------------------------|--|-----------------------------|---|---|
| 147 | MEDICAL DEVICES- IMAGING/PLOTTERS | Ground Wire Resistance | <0.3 OHM | 2.60% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 148 | MEDICAL DEVICES- IMAGING/PLOTTERS | Heart Rate | 30 bpm to 300 bpm | 2.24% to 2.24% | Using Vital Sign Simulator Prosim 4 By Direct Method |
| 149 | MEDICAL DEVICES- IMAGING/PLOTTERS | Insulation Resistance (Optional 500V) | <2 MOHM | 2% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 150 | MEDICAL DEVICES- IMAGING/PLOTTERS | Patient Lead leakage Current (Mains On Patient Applied Part Isolation Test) | <100 BF <10 CF | 5% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 151 | MEDICAL DEVICES- IMAGING/PLOTTERS | Patient Leakage | <100 (AB & BF) <10 (CF) | 5%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 152 | MEDICAL DEVICES- MONITORING UNIT | Baby Weighing Scale | 500 g to 15 kg | 3.5g to 3.5g | Using Standard Weight By Comparison Method |
| 153 | MEDICAL DEVICES- MONITORING UNIT | Chasis Leakage | <100(NC) <500(SFC) µA | 5.20%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 154 | MEDICAL DEVICES- MONITORING UNIT | Ground Wire Resistance | <0.3 OHM | 2.90% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 155 | MEDICAL DEVICES- MONITORING UNIT | Heart Rate | 30 bpm to 300 bpm | 2.9% to 2.9% | Using Vital Sign Simulator Prosim 4 by Direct method |
| 156 | MEDICAL DEVICES- MONITORING UNIT | IABP | 22 mmHg to 167 mmHg | 1.5% to 1.5% | Using Vital Sign Simulator Prosim 4 By Direct Method |



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|------|---------------------------------|---|-----------------------------------|---|---|
| 157 | MEDICAL DEVICES-MONITORING UNIT | Insulation Resistance (Optional 500V) | <2 MOHM | 2.25% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 158 | MEDICAL DEVICES-MONITORING UNIT | NIBP (Dynamic) | 22 mmHg to 167 mmHg | 5.8% to 5.8% | Using Vital Sign Simulator Prosim 4 By Direct Method |
| 159 | MEDICAL DEVICES-MONITORING UNIT | NIBP Leak Test | 22 mmHg to 167 mmHg | 0.5mmHg to 0.5mmHg | Using Vital Sign Simulator Prosim 4 By Direct Method |
| 160 | MEDICAL DEVICES-MONITORING UNIT | Patient Lead leakage Current (Mains On Patient Applied Part Isolation Test) | <100 BF <10 CF µA | 5.20% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 161 | MEDICAL DEVICES-MONITORING UNIT | Patient Leakage | <100 (AB & BF) <100 (CF) µA | 5.20% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 162 | MEDICAL DEVICES-MONITORING UNIT | Patient Weighing Scale | 15 kg to 150 kg | 7.0g to 7.0g | Using Standard Weight By Comparison Method |
| 163 | MEDICAL DEVICES-MONITORING UNIT | Pulse OxymeterHeart Rate | 30 bpm to 300 bpm | 3.00% to 3.00% | Using SpO2 SPOT Light Meter |
| 164 | MEDICAL DEVICES-MONITORING UNIT | Pulse OxymeterSpO2 | 70 % to 100 % | 4.00% to 4.00% | Using SpO2 SPOT Light Meter |
| 165 | MEDICAL DEVICES-MONITORING UNIT | Respiration Rate | 10 bpm to 150 bpm | 6.0% to 6.0 % | Using Vital Sign Simulator Prosim 4 By Direct Method |
| 166 | MEDICAL DEVICES-MONITORING UNIT | SpO2 | 70 % to 100 % | 4.5% to 4.5% | Using Vital Sign Simulator Prosim 4 & SPOT Light Meter by Direct method |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|---|--|-----------------------------|---|--|
| 167 | MEDICAL DEVICES-MONITORING UNIT | Temperature | 30 °C to 42 °C | 1.40°C to 1.40°C | Using Temperature bath and Master Sensor with Indicator by Comparison Method |
| 168 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Chasis Leakage | <100 NC <500 SFC µA | 5.20% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 169 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Current | 1.00 mA to 100.0 mA | 1.4% to 1.4% | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 170 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Discharge Time | 0.1 Sec to 100.0 Sec | 0.10Sec to 0.10Sec | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 171 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Electronic/Mechanical BedChasis Leakage | < 100 (NC) <500 (SFC) | 5.20%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 172 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Electronic/Mechanical BedGround Wire Resistance | <0.3 OHM to | 2.90%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 173 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Electronic/Mechanical BedInsulation Resistance (Optional 500V) | <2 MOHM | 2.25%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 174 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Electronic/Mechanical BedPatient Leakage | <100 (AB & BF) <10 (CF) | 5.20%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|---|---|-------------------------|---|--|
| 175 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Ground Wire Resistance | <0.3 OHM | 2.90% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 176 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Heart Rate | 10 bpm to 200 bpm | 7.9% to 1.8% | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 177 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Insulation Resistance (Optional 500V) | <2 MOHM | 2.25% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 178 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Output Energy | 2 J to 400 J | 3.4% to 4.9% | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 179 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Pacer Output | 10 mA to 100 mA | 0.15% to 1.20% | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 180 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Pacer Rate | 5 ppm to 800 ppm | 1.40% to 1.40% | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 181 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Patient Lead leakage Current (Mains On Patient Applied Part Isolation Test) | <100 BF <10 CF µA | 5.20% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 182 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Patient Lead leakage Current(Mains On Patient Applied Part Isolation Test) | <100 (BF) <10 (CF) | 5.20% | Using Electrical Safety Analyzer ESA 615 By Direct Method |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|---|-------------------------------|-----------------------------------|---|--|
| 183 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Patient Leakage | <100 Ab & BF <10 CF μA | 5.20%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 184 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Patient Leakage | <100 (AB & BF) <100 (CF) μA | 5.20% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 185 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Pressure | 0 bar to 2 bar | 0.40% to 0.40% | Pressure Calibrator & Electrical Safety Analyzser By Comparion Method |
| 186 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Pressure | 10 mmHg to 390 mmHg | 4.20% to 4.20% | Using Vital Sign Simulator Prosim 4 By Direct Method & Digital Stop Watch By Direct Method |
| 187 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Pulse Rate | 30 ppm to 800 ppm | 0.20% to 1.20% | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 188 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Pulse Width | 5.00 ms to 100.0 ms | 0.035% to 0.035% | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 189 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Synchronization Test | 120 msec to 380 msec | 1.35 msec to 1.35msec | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(\pm) | Remarks |
|------|---|---|------------------------|---|--|
| 190 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Temperature | 0 °C to 100 °C | 0.75°C to 0.75°C | Using Temperature Sensor,Data Logger & Safety Analyzer ESA615 By Comparison Method |
| 191 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Temperature | 110 °C to 135 °C | 0.60°C to 0.60°C | Using Temperature Sensor,Logger & electrical Safety Analyzer By Comparison Method |
| 192 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Temperature | 2 °C to 37 °C | 0.3°C to 0.3°C | Using Temperature Sensor With Logger & electrical Safety Analyzer Comparison Method |
| 193 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Temperature | 32 °C to 42 °C | 0.3°C to 0.3°C | Using Temperature Sensor with Logger & Electrical Safety Analyzer Comparison Method |
| 194 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Time Interval | 1 Min to 60 Min | 0.75Min to 0.75Min | Using Vital Sign Simulator Prosim 4 By Direct Method & Digital Stop Watch By Direct Method |
| 195 | THERMAL- SPECIFIC HEAT & HUMIDITY | Environment Chambers/Humidity Chamber/Generator/R H & Temp. Devices (Single Position) | 15 °C to 50 °C@ 50% RH | 0.42°C to 0.42°C@50% RH | Usind Digital Hygrometer & Portable Data Logger As Per DKD R5-7 |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|-----------------------------------|---|---------------------------|---|---|
| 196 | THERMAL- SPECIFIC HEAT & HUMIDITY | Environment Chambers/Humidity Chamber/Generator/R H & Temp. Devices (Single Position) | 20 % RH to 95 %RH@ 25°C | 0.53%RH to 0.53%RH@ 25°C | Usind Digital Hygrometer & Portable Data Logger As Per DKD R5-7 |
| 197 | THERMAL- SPECIFIC HEAT & HUMIDITY | RH Sensor/RH Indicator with Sensor/Thermohygrometer/RH Transmitter/Portable Data Logger | 15 °C to 50 °C @ 50% RH | 0.40°C to 0.40°C @ 50% RH | Using Humidity Chamber and Digital Hygrometer |
| 198 | THERMAL- SPECIFIC HEAT & HUMIDITY | RH Sensor/RH Indicator with Sensor/Thermohygrometer/RH Transmitter/Portable Data Logger | 20 % RH to 95 % RH @ 25°C | 1.67% RH to 1.67% RH @ 25°C | Using Humidity Chamber & Digital Hygrometer |
| 199 | THERMAL- TEMPERATURE | Indicator Of Freezer/Bath,Cold Chamber/Incubator/Wa ter Bath/COD/Autoclave/E nvironment Chamber (Single Position) | -80 °C to 150 °C | 0.26°C to 0.26°C | Using SSPRT/RTD Sensor & Advance Modular Calibrator As Per DKD R5-7 |
| 200 | THERMAL- TEMPERATURE | Indicator Of Oven/ETO/BOD/Furna ce/Environment Chamber (Single Position) | 150 °C to 600 °C | 0.54°C to 0.54°C | Using SSPRT/Temperature Sensors & Advance Modular Calibrator As Per DKD R5-7. |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|---------------------|---|-------------------|---|---|
| 201 | THERMAL-TEMPERATURE | Indicator Of Oven/Furnace (Single Position) | 600 °C to 1200 °C | 2.30°C to 2.30°C | Using SSPRT Master R/S Type Thermocouple Sensor & Advance Modular Calibrator As Per DKD-R5-7 |
| 202 | THERMAL-TEMPERATURE | Infrared Thermometer/Pyrometer/Thermal Imager/IR Sensor With Indicator. | 100 °C to 500 °C | 2.96°C to 2.96°C | Using Black Body Source & Infrared Thermometer As Per MSL Technical Guide 22 & VDI/VDE 3511 Part 4.3 |
| 203 | THERMAL-TEMPERATURE | Infrared Thermometer/Pyrometer/Thermal Imager/IR Sensor With Indicator. | 50 °C to 100 °C | 2.17°C to 2.17°C | Using Black Body Source and Infrared Thermometer By Comparison Method As Per MSL Technical Guide 22 & VDI/VDE 3511 part 4.3 |
| 204 | THERMAL-TEMPERATURE | Infrared Thermometer/Pyrometer/Thermal Imager/IR Sensor With Indicator. | 500 °C to 1200 °C | 4.07°C to 4.07°C | Using Black Body Source & Infrared Thermometer By Comparison Method As per MSL Technical Guide 22 & VDI/VDE 3511 Part 4.3 |
| 205 | THERMAL-TEMPERATURE | Liquid in Glass Thermometer/Wet & Dry Thermometer. | 123 °C to 300 °C | 0.72°C to 0.72°C | Using SSPRT With Advance Modular Calibrator & Liquid Oil Bath |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|-------------------------|---|----------------------|---|--|
| 206 | THERMAL- TEMPERATURE | Liquid in Glass Thermometer/Wet & Dry Thermometer. | -30 °C to 123 °C | 0.59°C to 0.59°C | Using Master SSPRT with Advance Modular Calibrator & Liquid Temperature Bath As Per IS-6274 |
| 207 | THERMAL- TEMPERATURE | Mapping Of DHS/Sterilizer/Oven/W ater Bath/ETO/COD/BOD/A utoclave (Multi Position) | 200 °C to 600 °C | 2.50°C to 2.50°C | Using RTD Sensor & Multi Channel Data Logger & Portable Data Loggers As Per IEC 60068 (Part 3-6),Part 11,DKD R5-7 |
| 208 | THERMAL- TEMPERATURE | Mapping Of Freezer/Bath/Cold Chamber/Refrigerator/ DHS/Sterilizer/Oven/W ater Bath/ETO/COD/BOD/A utoclave (Multi Position) | -80 °C to 200 °C | 1.46°C to 1.46°C | Using RTD Sensor & Multi Channel Data Logger & Portable Data Loggers As Per IEC 60068 (Part 3-6),Part 11,DKD R5-7 |
| 209 | THERMAL- TEMPERATURE | Mapping Of Oven/Muffle Furnace (Multi Position) | 600 °C to 1200 °C | 3.79°C to 3.79°C | Using Thermocouple Sensors with Multi Channel Data Logger As per IEC 60068(Part- 3-6),Part-11 DKD R5-7. |



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|------|-------------------------|--|-------------------|---|--|
| 210 | THERMAL- TEMPERATURE | Temperature Sensor RTD/Thermocouple with or Without Indicator/Temperature Calibrator/Bath/Black Body/Thermometer with Sensor/Temperature Gauge/Recorder/Trans mitter with Sensor/Temperature Switch/Digit | 123 °C to 300 °C | 0.31°C to 0.31°C | Using Master SSPRT,Master R/S type Thermocouple with Advance Modular Calibrator,Digital Multimeter & Dry Block Temperature Bath & Oil Bath. As Per DKD R5- 1. |
| 211 | THERMAL- TEMPERATURE | Temperature Sensor RTD/Thermocouple with or Without Indicator/Temperature Calibrator/Bath/Black Body/Thermometer with Sensor/Temperature Gauge/Recorder/Trans mitter with Sensor/Temperature Switch/Digit | 300 °C to 600 °C | 0.45°C to 0.45 °C | Using Master SSPRT,Master R/S type Thermocouple with Advance Modular Calibrator,Digital Multimeter & Dry Block Temperature Bath & Oil Bath. As Per DKD R5-1 & Euramet Cg-8 |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|-------------------------|--|-------------------|---|--|
| 212 | THERMAL- TEMPERATURE | Temperature Sensor RTD/Thermocouple with or Without Indicator/Temperature Calibrator/Bath/Black Body/Thermometer with Sensor/Temperature Gauge/Recorder/Trans mitter with Sensor/Temperature Switch/Digit | 600 °C to 1200 °C | 3.64°C to 3.64°C | Using Master SSPRT,Master R/S type Thermocouple with Advance Modular Calibrator,Digital Multimeter & Dry Block Temperature Bath & Oil Bath. As Per DKD R5-1 & Euramet Cg-8 |
| 213 | THERMAL- TEMPERATURE | Temperature Sensor RTD/Thermocouple with or Without Indicator/Temperature Calibrator/Bath/Black Body/Thermometer with Sensor/Temperature Gauge/Recorder/Trans mitter with Sensor/Temperature Switch/Digit | -80 °C to 123 °C | 0.17°C to 0.17°C | Using Master SSPRT,Master R/S type Thermocouple with Advance Modular Calibrator,Digital Multimeter & Dry Block Temperature Bath & Oil Bath As Per DKD R5-1. |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|---------------|---|-------------------------------|-------------------|---|---|
| Site Facility | | | | | |
| 1 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | A.C Current @ 50Hz | 0.1 mA to 1 mA | 1.0% to 0.3% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 2 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | A.C Current @ 50Hz | 1 A to 10 A | 0.30% to 0.28% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 3 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | A.C Current @ 50Hz | 1 mA to 100 mA | 0.3% to 0.19% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 4 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | A.C Current @ 50Hz | 100 mA to 1 A | 0.19% to 0.30% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 5 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | A.C High Voltage @ 50 Hz | 1 kV to 40 kv | 7.4% to 4.2% | Using HV Probe with DMM By Direct Method |
| 6 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | A.C Voltage @ 50Hz | 1 V to 1000 V | 0.12% to 0.11% | Using 6½ Digit Multimeter By Direct/Comparison Method |



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|------|---|--|-------------------|---|---|
| 7 | ELECTRO- TECHNICAL- ALTERNATING CURRENT (< 1 GHZ) (Measure) | A.C Voltage @ 50Hz | 10 mV to 1 V | 0.09% to 0.12% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 8 | ELECTRO- TECHNICAL- ALTERNATING CURRENT (< 1 GHZ) (Source) | 1 Phase/3 Phase Energy@ 50 Hz(50 to 250 V)(1A to 5A) (-0.5 to 0.5 pF) | 50 Wh to 3750 Wh | 0.11% to 0.44% | Using 3 Phase Power/Energy Calibrator By Direct Method |
| 9 | ELECTRO- TECHNICAL- ALTERNATING CURRENT (< 1 GHZ) (Source) | 1 Phase/3 Phase Power@ 50 Hz(50 to 250 V)(1A to 5A) (-0.5 to 0.5 pF) | 50 W to 3750 W | 0.34% to 0.21% | Using 3 Phase Power/Energy Calibrator By Direct Method |
| 10 | ELECTRO- TECHNICAL- ALTERNATING CURRENT (< 1 GHZ) (Source) | A.C Current @ 50Hz | 1 mA to 100 mA | 0.68% to 0.61% | Using Multifunction Calibrator By Direct Method |
| 11 | ELECTRO- TECHNICAL- ALTERNATING CURRENT (< 1 GHZ) (Source) | A.C Current @ 50Hz | 10 A to 800 A | 1.55% to 1.27% | Using Multifunction Calibrator With Current Coil By Direct Method |
| 12 | ELECTRO- TECHNICAL- ALTERNATING CURRENT (< 1 GHZ) (Source) | A.C Current @ 50Hz | 100 mA to 10 A | 0.61% to 0.51% | Using Multifunction Calibrator By Direct Method |



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|------|--|--|-------------------|---|--|
| 13 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | A.C Voltage @ 50Hz | 10 mV to 100 mV | 1.37 % to 0.52% | Using Multifunction Calibrator By Direct Method |
| 14 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | A.C Voltage @ 50Hz | 100 mV to 1000 V | 0.51% to 0.51% | Using Multifunction Calibrator By Direct Method |
| 15 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | Power Factor @ 50 Hz(50 to 250 V)(0.1 to 5A) | -0.5 pF to 0.5 pF | 0.012pF to 0.012pF | Using 3 Phase Power/Energy Calibrator By Direct Method |
| 16 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C High Voltage | 1 kV to 40 kV | 4.6% to 4.3% | Using HV Probe with DMM By Direct Method |
| 17 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C Current | 0.1 mA to 1 mA | 1.01% to 0.06% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 18 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C Current | 1 A to 10 A | 0.04% to 0.19% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 19 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C Current | 1 mA to 100 mA | 0.06% to 0.07% | Using 6½ Digit Multimeter By Direct/Comparison Method |



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|------|---|-------------------------------|-------------------|---|--|
| 20 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C Current | 100 mA to 1 A | 0.07% to 0.2% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 21 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C Voltage | 1 mV to 100 mV | 0.70% to 0.012% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 22 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C Voltage | 1 V to 1000 V | 0.20% to 0.041% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 23 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | D.C Voltage | 100 mV to 1 V | 0.01% to 0.20% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 24 | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure) | DC Resistance | 1 to 1 | 0.70% to 2.32% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 25 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Current | 0.1 mA to 24 mA | 0.80% to 0.024% | Using Advance Modular Calibrator/Multifunction Calibrator By Direct Method |
| 26 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Current | 10 A to 800 A | 1.48% to 0.51% | Using Multifunction Calibrator With Current Coil By Direct Method |
| 27 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Current | 100 mA to 10 A | 0.61% to 0.38% | Using Multifunction Calibrator By Direct Method |



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|------|--|-------------------------------|-------------------|---|---|
| 28 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Current | 24 mA to 100 mA | 0.68% to 0.61% | Using Multifunction Calibrator By Direct Method |
| 29 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Resistance (Discrete) | to 100 mohm | 0.14% | Using Discrete Standard Resistor By Direct Method |
| 30 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Resistance (Discrete) | to 1000 mohm | 0.12% | Using Discrete Standard Resistor By Direct Method |
| 31 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Resistance (Discrete) | to 10 mohm | 0.14% | Using Discrete Standard Resistor By Direct Method |
| 32 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Resistance (Discrete) | to 1 mohm | to 0.14% | Using Discrete Standard Resistor By Direct Method |
| 33 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Resistance (Discrete) | to 10 μ ohm | to 2.26% | Using Discrete Standard Resistor By Direct Method |
| 34 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Resistance (Discrete) | to 50 μ ohm | to 0.60 % | Using Discrete Standard Resistor By Direct Method |
| 35 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Resistance (Discrete) | to 100 μ ohm | to 0.55% | Using Discrete Standard Resistor By Direct Method |
| 36 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Voltage | 10 mV to 100 mV | 1.17% to 0.19% | Using Multifunction Calibrator By Direct Method |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|---|-------------------------------|--------------------|---|--|
| 37 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | D.C Voltage | 100 mV to 1000 V | 0.19% to 0.12% | Using Multifunction Calibrator By Direct Method |
| 38 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | DC Resistance | 1 to 1 | 1.40% to 2.65% | Using Decade Resistance Box By Direct Method |
| 39 | ELECTRO-TECHNICAL- DIRECT CURRENT (Source) | Resistance | 1 to 100 | 2.65% to 2.84% | Using High Resistance Jig By Direct Method |
| 40 | ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Measure) | B Type thermocouple | 600 °C to 1800 °C | 2.47°C to 1.47°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |
| 41 | ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Measure) | J Type thermocouple | -100 °C to 1200 °C | 0.76°C to 0.80°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |
| 42 | ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Measure) | K Type thermocouple | -50 °C to 1300 °C | 0.76°C to 0.93°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |
| 43 | ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Measure) | N Type thermocouple | -50 °C to 1300 °C | 0.60°C to 0.60°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|--|----------------------------------|----------------------|---|--|
| 44 | ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure) | R Type thermocouple | 360 °C to 1700 °C | 1.46°C to 1.47°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |
| 45 | ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure) | RTD type | -200 °C to 800 °C | 0.16°C to 0.33°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |
| 46 | ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure) | S Type thermocouple | 300 °C to 1700 °C | 1.95°C to 1.47°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |
| 47 | ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure) | T Type thermocouple | -50 °C to 400 °C | 0.76°C to 0.77°C | Using Advance Modular Calibrator/Universal Calibrator By Direct Method |
| 48 | ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source) | B Type Thermocouple | 600 °C to 1800 °C | 2.47°C to 2.48°C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |
| 49 | ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source) | J Type Thermocouple | -100 °C to 1200 °C | 0.77°C to 0.77°C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |



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|------|---|-------------------------------|-------------------|---|---|
| 50 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | K Type Thermocouple | -50 °C to 1300 °C | 0.77°C to 0.59°C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |
| 51 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | N Type Thermocouple | -50 °C to 1300 °C | 0.60°C to 0.60°C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |
| 52 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | R Type Thermocouple | 360 °C to 1700 °C | 1.46°C to 1.46°C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |
| 53 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | RTD Type | -200 °C to 800 °C | 0.28°C to 0.57°C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |
| 54 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | S Type Thermocouple | 300 °C to 1700 °C | 1.46°C to 1.46 °C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|---|--|-------------------|---|---|
| 55 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | T Type Thermocouple | -50 °C to 400 °C | 0.76°C to 0.77°C | Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method |
| 56 | ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure) | Digital Timer,Time Totalizer,Digital Stopwatch,Totalizer,Programmable Timer. | 1 hr to 24 hr | 1.30Sec to 5.18Sec | Using Digital Time Interval Meter By Direct/Comparison Method |
| 57 | ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure) | Digital Timer,Time Totalizer,Digital Stopwatch,Totalizer,Programmable Timer. | 2 mSec to 1 hr | 0.013 Sec to 1.30Sec | Using Digital Time Interval Meter By Direct/Comparison Method |
| 58 | ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure) | Frequency | 10 Hz to 50 kHz | 0.04% to 0.03% | Using 6½ Digit Multimeter By Direct/Comparison Method |
| 59 | ELECTRO-TECHNICAL- TIME & FREQUENCY (Source) | Frequency | 10 Hz to 50 kHz | 0.58% to 0.02% | Using Advance Modular Calibrator By Direct Method |
| 60 | FLUID FLOW- FLOW MEASURING DEVICES | All Flow Rate Metering Devices such as Digital Flow Meter, Air Flow Meter, Laminar Flow Meter/Element,Dry Gas Meter,Flow Data Logger. Mass Flow Controller, Rotameter. | 50 LPM to 300 LPM | 3.40%Rdg to 3.40%Rdg | Using Orifice Flow Meter By Comparison Method |



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|------|--|--|----------------------------|---|--|
| 61 | FLUID FLOW- FLOW MEASURING DEVICES | Flow Rate Of Rota meter Calibrator/Sampling Pump,Digital Air Flow meter, | 5 LPM to 50 LPM | 1.00%Rdg to 1.1%Rdg | Using Laminar Flow Calibrator/ Air Flow Calibrator By Comparison Method |
| 62 | FLUID FLOW- FLOW MEASURING DEVICES | Flow Rate Of Rota meter Calibrator/Sampling Pump,Digital Air Flow meter. | 0.5 LPM to 5 LPM | 1.00%Rdg to 1.00%Rdg | Using Laminar Flow Calibrator/ Air Flow Calibrator By Comparison Method |
| 63 | FLUID FLOW- FLOW MEASURING DEVICES | Volume Flow Rate(Medium : Liquid) | 1 m3/hr to 360 m3/hr | 1.50%Rdg to 1.50%Rdg | Using Ultrasonic Flow Meter by Comparison Method |
| 64 | MECHANICAL- ACCELERATION AND SPEED | Tachometer, Calibrator,Centrifuge Machine (Contact Type) | 55.0 RPM to 2998 RPM | 2.6RPM to 7.7RPM | Using Digital Tachometer & Tachometer Calibrato By Comparison Method |
| 65 | MECHANICAL- ACCELERATION AND SPEED | Tachometer, Calibrator,Centrifuge Machine (Noncontact Type) | 1000 RPM to 50000 RPM | 2.9RPM to 30.3RPM | Using Digital Tachometer & Tachometer Calibrator By Comparison Method |
| 66 | MECHANICAL- ACCELERATION AND SPEED | Tachometer, Calibrator,Centrifuge Machine (Noncontact Type) | 53 RPM to 1000 RPM | 1.8RPM to 2.9RPM | Using Digital Tachometer & Tachometer Calibrator By Comparison Method |
| 67 | MECHANICAL- ACOUSTICS | Sound level meter | 1 kHz , 94 dB to 114 dB | 1.1dB | Using Sound level calibrator along with meter |



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|------|---|--|----------------------|--|---|
| 68 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Surface Plate | up to 2000 x 2000 mm | 3.5((L+W)/125) umwhere L and W is in mm | Using Electronic Level IS: 2285 |
| 69 | MECHANICAL-HARDNESS TESTING MACHINES | Verification of Brinell Hardness Testing Machines | HBW 10/3000 | 1.07% | Using Brinell Hardness Standard Blocks IS 1500-2:2013 |
| 70 | MECHANICAL-HARDNESS TESTING MACHINES | Verification of Brinell Hardness Testing Machines | HBW 2.5/187.5 | 1.12% | Using Brinell Hardness Standard Blocks IS 1500-2:2013 |
| 71 | MECHANICAL-HARDNESS TESTING MACHINES | Verification of Brinell Hardness Testing Machines | HBW 5/750 | 1.13% | Using Brinell Hardness Standard Blocks IS 1500-2:2013 |
| 72 | MECHANICAL-HARDNESS TESTING MACHINES | Verification of Rockwell Hardness Testing Machines | HRBW | 1.19HRBW | Using Rockwell Hardness Standard Blocks IS 1586-2:2012 |
| 73 | MECHANICAL-HARDNESS TESTING MACHINES | Verification of Rockwell Hardness Testing Machines | HRC | 1HRC | Using Rockwell Hardness Standard Blocks IS 1586-2:2012 |
| 74 | MECHANICAL-PRESSURE INDICATING DEVICES | Low Pressure/Vacuum Gauge, Transmitter, Switch (Analog/Digital) | 0 mbar to 24.50 mbar | 0.083mbar | Using Digital Pressure Calibrator/Digital Manometer & Low Pressure Pump as Per DKD R6-01 |
| 75 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital) | 2 bar to 20 bar | 0.024bar | Using Digital Pressure Gauge & Pneumatic Pressure Pump & Digital Multi meter as per DKD R6-01 |



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|------|--|--|-----------------------------|---|--|
| 76 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital) | 700 bar to 1000 bar | 0.9bar | Using Digital Pressure Calibrator & Hydraulic Pressure Pump & Digital Multi meter as per DKD R6-01 IS:3624 |
| 77 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital) | 0 bar to 2 bar | 0.0055bar | Using Digital Pressure Gauge & Pneumatic Pressure Pump & Digital Multi meter as per DKD R6-01 |
| 78 | MECHANICAL-PRESSURE INDICATING DEVICES | Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital) | 20 bar to 340 bar | 0.18bar | Using Digital Pressure Calibrator & Hydraulic Pressure Pump & Digital Multi meter as per DKD R6-01 |
| 79 | MECHANICAL-PRESSURE INDICATING DEVICES | Vacuum Gauge/ Switch / Transmitter (Analog/ Digital) | -0.9 bar to 0 bar | 0.0011bar | Using Digital Vacuum Gauge & Vacuum pump & Digital Multi meter as per DKD R6-02 ISO 3567 |
| 80 | MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE | Uniaxial Static Testing Machines Tension, Compression | Tension 25 N to 50 kN | 0.4% | Using Force Proving Instruments (Load cell) of class 0.5 , IS 1828 (Part 1)2015 |
| 81 | MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE | Uniaxial Static Testing Machines , Compression | Compression 25 N to 1000 kN | 0.4% | Using Force Proving Instruments (Load cell) of class 0.5 IS 1828 (Part 1)2015 |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(\pm) | Remarks |
|------|--|--|-------------------|---|---|
| 82 | MECHANICAL- WEIGHING SCALE AND BALANCE | Weighing Balance d=0.01mg and coarser | 0 g to 100 g | 0.076mg | E2 class std. weights & Calibration of Electronics Weighing Balance of class I and coarser as per OIML R- 76-1 |
| 83 | MECHANICAL- WEIGHING SCALE AND BALANCE | Weighing Balance d=0.1mg and coarser | 100 g to 220 g | 0.095mg | E2 class std. weights & Calibration of Electronics Weighing Balance of class I and coarser as per OIML R- 76-1 |
| 84 | MECHANICAL- WEIGHING SCALE AND BALANCE | Weighing Balance d=100mg and coarser | 6 kg to 20 kg | 79mg | F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1, |
| 85 | MECHANICAL- WEIGHING SCALE AND BALANCE | Weighing Balance d=10mg and coarser | 1 kg to 6 kg | 6mg | F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1 |
| 86 | MECHANICAL- WEIGHING SCALE AND BALANCE | Weighing Balance d=1mg and coarser | 220 g to 1 kg | 0.69mg | F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1 |
| 87 | MECHANICAL- WEIGHING SCALE AND BALANCE | Weighing Balance d=50g and coarser | 100 kg to 300 kg | 33g | F1 class std. weights & Calibration of Electronics Weighing Balance of class III and coarser as per OIML R- 76-1 |



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|------|---------------------------------------|---|----------------------------|---|--|
| 88 | MECHANICAL-WEIGHING SCALE AND BALANCE | Weighing Balance d=5g/10g and coarser | 20 kg to 100 kg | 5.8g | F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1 |
| 89 | MEDICAL DEVICES-IMAGING/PLOTTERS | Amplitude | 0.05 mV to 5.0 mV | 4.30% to 4.30% | Using Vital Sign Simulator Prosim 4 By Direct Method |
| 90 | MEDICAL DEVICES-IMAGING/PLOTTERS | Chasis Leakage | | 5.0%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 91 | MEDICAL DEVICES-IMAGING/PLOTTERS | Ground Wire Resistance | <0.3 OHM | 2.60% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 92 | MEDICAL DEVICES-IMAGING/PLOTTERS | Heart Rate | 30 bpm to 300 bpm | 2.24% to 2.24% | Using Vital Sign Simulator Prosim 4 By Direct Method |
| 93 | MEDICAL DEVICES-IMAGING/PLOTTERS | Insulation Resistance (Optional 500V) | <2 MOHM | 2% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 94 | MEDICAL DEVICES-IMAGING/PLOTTERS | Patient Lead leakage Current (Mains On Patient Applied Part Isolation Test) | <100 BF <10 CF | 5% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 95 | MEDICAL DEVICES-IMAGING/PLOTTERS | Patient Leakage | <100 (AB & BF) <10 (CF) | 5%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 96 | MEDICAL DEVICES-MONITORING UNIT | Baby Weighing Scale | 500 g to 15 kg | 3.5g to 3.5g | Using Standard Weight By Comparison Method |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|---------------------------------|---|-----------------------------------|---|---|
| 97 | MEDICAL DEVICES-MONITORING UNIT | Chasis Leakage | <100(NC) <500(SFC) μA | 5.20%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 98 | MEDICAL DEVICES-MONITORING UNIT | Ground Wire Resistance | <0.3 OHM | 2.90% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 99 | MEDICAL DEVICES-MONITORING UNIT | Heart Rate | 30 bpm to 300 bpm | 2.9% to 2.9% | Using Vital Sign Simulator Prosim 4 by Direct method |
| 100 | MEDICAL DEVICES-MONITORING UNIT | IABP | 22 mmHg to 167 mmHg | 1.5% to 1.5% | Using Vital Sign Simulator Prosim 4 By Direct Method |
| 101 | MEDICAL DEVICES-MONITORING UNIT | Insulation Resistance (Optional 500V) | <2 MOHM | 2.25% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 102 | MEDICAL DEVICES-MONITORING UNIT | NIBP (Dynamic) | 22 mmHg to 167 mmHg | 5.8% to 5.8% | Using Vital Sign Simulator Prosim 4 By Direct Method |
| 103 | MEDICAL DEVICES-MONITORING UNIT | NIBP Leak Test | 22 mmHg to 167 mmHg | 0.5mmHg to 0.5mmHg | Using Vital Sign Simulator Prosim 4 By Direct Method |
| 104 | MEDICAL DEVICES-MONITORING UNIT | Patient Lead leakage Current (Mains On Patient Applied Part Isolation Test) | <100 BF <10 CF μA | 5.20% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 105 | MEDICAL DEVICES-MONITORING UNIT | Patient Leakage | <100 (AB & BF) <100 (CF) μA | 5.20% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 106 | MEDICAL DEVICES-MONITORING UNIT | Patient Weighing Scale | 15 kg to 150 kg | 7.0g to 7.0g | Using Standard Weight By Comparison Method |



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|------|---|---|--------------------------|---|--|
| 107 | MEDICAL DEVICES-MONITORING UNIT | Pulse OxymeterHeart Rate | 30 bpm to 300 bpm | 3.00% to 3.00% | Using SpO2 SPOT Light Meter |
| 108 | MEDICAL DEVICES-MONITORING UNIT | Pulse OxymeterSpO2 | 70 % to 100 % | 4.00% to 4.00% | Using SpO2 SPOT Light Meter |
| 109 | MEDICAL DEVICES-MONITORING UNIT | Respiration Rate | 10 bpm to 150 bpm | 6.0% to 6.0 % | Using Vital Sign Simulator Prosim 4 By Direct Method |
| 110 | MEDICAL DEVICES-MONITORING UNIT | SpO2 | 70 % to 100 % | 4.5% to 4.5% | Using Vital Sign Simulator Prosim 4 & SPOT Light Meter by Direct method |
| 111 | MEDICAL DEVICES-MONITORING UNIT | Temperature | 30 °C to 42 °C | 1.40°C to 1.40°C | Using Temperature bath and Master Sensor with Indicator by Comparison Method |
| 112 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Chasis Leakage | <100 NC <500 SFC µA | 5.20% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 113 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Current | 1.00 mA to 100.0 mA | 1.4% to 1.4% | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 114 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Discharge Time | 0.1 Sec to 100.0 Sec | 0.10Sec to 0.10Sec | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 115 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Electronic/Mechanical BedChasis Leakage | < 100 (NC) <500 (SFC) | 5.20%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |



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|------|---|---|-----------------------------|---|--|
| 116 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Electronic/Mechanical BedGround Wire Resistance | <0.3 OHM to | 2.90%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 117 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Electronic/Mechanical BedInsulation Resistance (Optional 500V) | <2 MOHM | 2.25%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 118 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Electronic/Mechanical BedPatient Leakage | <100 (AB & BF) <10 (CF) | 5.20%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 119 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Ground Wire Resistance | <0.3 OHM | 2.90% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 120 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Heart Rate | 10 bpm to 200 bpm | 7.9% to 1.8% | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 121 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Insulation Resistance (Optional 500V) | <2 MOHM | 2.25% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 122 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Output Energy | 2 J to 400 J | 3.4% to 4.9% | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 123 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Pacer Output | 10 mA to 100 mA | 0.15% to 1.20% | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |



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Laboratory Name PRISM CALIBRATION CENTRE, GF-101,F/101,101 A,B, TF-85 TO101 RUDRAKSH COMPLEX-II,, AHMEDABAD, --SELECT DISTRICT--, GUJARAT , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2480 Page No. : 54 / 60

Validity 26/11/2019 to 25/11/2021 Last Amended on 05/12/2019

| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|---|---|-----------------------------------|---|--|
| 124 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Pacer Rate | 5 ppm to 800 ppm | 1.40% to 1.40% | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 125 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Patient Lead leakage Current (Mains On Patient Applied Part Isolation Test) | <100 BF <10 CF μA | 5.20% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 126 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Patient Lead leakage Current(Mains On Patient Applied Part Isolation Test) | <100 (BF) <10 (CF) | 5.20% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 127 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Patient Leakage | <100 Ab & BF <10 CF μA | 5.20%% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 128 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Patient Leakage | <100 (AB & BF) <100 (CF) μA | 5.20% | Using Electrical Safety Analyzer ESA 615 By Direct Method |
| 129 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Pressure | 0 bar to 2 bar | 0.40% to 0.40% | Pressure Calibrator & Electrical Safety Analyzser By Comparion Method |
| 130 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Pressure | 10 mmHg to 390 mmHg | 4.20% to 4.20% | Using Vital Sign Simulator Prosim 4 By Direct Method & Digital Stop Watch By Direct Method |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|---|-------------------------------|----------------------|---|---|
| 131 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Pulse Rate | 30 ppm to 800 ppm | 0.20% to 1.20% | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 132 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Pulse Width | 5.00 ms to 100.0 ms | 0.035% to 0.035% | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 133 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Synchronization Test | 120 msec to 380 msec | 1.35 msec to 1.35msec | Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method |
| 134 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Temperature | 0 °C to 100 °C | 0.75°C to 0.75°C | Using Temperature Sensor,Data Logger & Safety Analyzer ESA615 By Comparison Method |
| 135 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Temperature | 110 °C to 135 °C | 0.60°C to 0.60°C | Using Temperature Sensor,Logger & electrical Safety Analyzer By Comparison Method |
| 136 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Temperature | 2 °C to 37 °C | 0.3°C to 0.3°C | Using Temperature Sensor With Logger & electrical Safety Analyzer Comparison Method |
| 137 | MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE | Temperature | 32 °C to 42 °C | 0.3°C to 0.3°C | Using Temperature Sensor with Logger & Electrical Safety Analyzer Comparison Method |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|---|--|---------------------------------|---|--|
| 138 | MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE | Time Interval | 1 Min to 60 Min | 0.75Min to 0.75Min | Using Vital Sign Simulator Prosim 4 By Direct Method & Digital Stop Watch By Direct Method |
| 139 | THERMAL- SPECIFIC HEAT & HUMIDITY | Environment Chambers/Humidity Chamber/Generator/R H & Temp. Devices (Single Position) | 15 °C to 50 °C@ 50% RH | 0.42°C to 0.42°C@50% RH | Usind Digital Hygrometer & Portable Data Logger As Per DKD R5-7 |
| 140 | THERMAL- SPECIFIC HEAT & HUMIDITY | Environment Chambers/Humidity Chamber/Generator/R H & Temp. Devices (Single Position) | 20 % RH to 95 %RH@ 25°C | 0.53%RH to 0.53%RH@ 25°C | Usind Digital Hygrometer & Portable Data Logger As Per DKD R5-7 |
| 141 | THERMAL- SPECIFIC HEAT & HUMIDITY | RH Sensor/RH Indicator with Sensor/Thermohygro- meter/RH Transmitter/Portable Data Logger | 15 °C to 50 °C @ 50% RH | 0.40°C to 0.40°C @ 50% RH | Using Humidity Chamber and Digital Hygrometer |
| 142 | THERMAL- SPECIFIC HEAT & HUMIDITY | RH Sensor/RH Indicator with Sensor/Thermohygro- meter/RH Transmitter/Portable Data Logger | 20 % RH to 95 % RH @ 25°C | 1.67% RH to 1.67% RH @ 25°C | Using Humidity Chamber & Digital Hygrometer |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|---------------------|---|-------------------|---|---|
| 143 | THERMAL-TEMPERATURE | Indicator Of Freezer/Bath,Cold Chamber/Incubator/Water Bath/COD/Autoclave/Environment Chamber (Single Position) | -80 °C to 150 °C | 0.26°C to 0.26°C | Using SSPRT/RTD Sensor & Advance Modular Calibrator As Per DKD R5-7 |
| 144 | THERMAL-TEMPERATURE | Indicator Of Oven/ETO/BOD/Furnace/Environment Chamber (Single Position) | 150 °C to 600 °C | 0.54°C to 0.54°C | Using SSPRT/Temperature Sensors & Advance Modular Calibrator As Per DKD R5-7. |
| 145 | THERMAL-TEMPERATURE | Indicator Of Oven/Furnace (Single Position) | 600 °C to 1200 °C | 2.30°C to 2.30°C | Using SSPRT Master R/S Type Thermocouple Sensor & Advance Modular Calibrator As Per DKD-R5-7 |
| 146 | THERMAL-TEMPERATURE | Infrared Thermometer/Pyrometer/Thermal Imager/IR Sensor With Indicator. | 100 °C to 500 °C | 2.96°C to 2.96°C | Using Black Body Source & Infrared Thermometer As Per MSL Technical Guide 22 & VDI/VDE 3511 Part 4.3 |
| 147 | THERMAL-TEMPERATURE | Infrared Thermometer/Pyrometer/Thermal Imager/IR Sensor With Indicator. | 50 °C to 100 °C | 2.17°C to 2.17°C | Using Black Body Source and Infrared Thermometer By Comparison Method As Per MSL Technical Guide 22 & VDI/VDE 3511 part 4.3 |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|---------------------|--|-------------------|---|---|
| 148 | THERMAL-TEMPERATURE | Infrared Thermometer/Pyrometer/Thermal Imager/IR Sensor With Indicator. | 500 °C to 1200 °C | 4.07°C to 4.07°C | Using Black Body Source & Infrared Thermometer By Comparison Method As per MSL Technical Guide 22 & VDI/VDE 3511 Part 4.3 |
| 149 | THERMAL-TEMPERATURE | Liquid in Glass Thermometer/Wet & Dry Thermometer. | 123 °C to 300 °C | 0.72°C to 0.72°C | Using SSPRT With Advance Modular Calibrator & Liquid Oil Bath |
| 150 | THERMAL-TEMPERATURE | Liquid in Glass Thermometer/Wet & Dry Thermometer. | -30 °C to 123 °C | 0.59°C to 0.59°C | Using Master SSPRT with Advance Modular Calibrator & Liquid Temperature Bath As Per IS-6274 |
| 151 | THERMAL-TEMPERATURE | Mapping Of DHS/Sterilizer/Oven/Water Bath/ETO/COD/BOD/Autoclave (Multi Position) | 200 °C to 600 °C | 2.50°C to 2.50°C | Using RTD Sensor & Multi Channel Data Logger & Portable Data Loggers As Per IEC 60068 (Part 3-6),Part 11,DKD R5-7 |
| 152 | THERMAL-TEMPERATURE | Mapping Of Freezer/Bath/Cold Chamber/Refrigerator/ DHS/Sterilizer/Oven/Water Bath/ETO/COD/BOD/Autoclave (Multi Position) | -80 °C to 200 °C | 1.46°C to 1.46°C | Using RTD Sensor & Multi Channel Data Logger & Portable Data Loggers As Per IEC 60068 (Part 3-6),Part 11,DKD R5-7 |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(\pm) | Remarks |
|------|---------------------|--|-------------------|---|--|
| 153 | THERMAL-TEMPERATURE | Mapping Of Oven/Muffle Furnace (Multi Position) | 600 °C to 1200 °C | 3.79°C to 3.79°C | Using Thermocouple Sensors with Multi Channel Data Logger As per IEC 60068(Part-3-6),Part-11 DKD R5-7. |
| 154 | THERMAL-TEMPERATURE | Temperature Sensor RTD/Thermocouple with or Without Indicator/Temperature Calibrator/Bath/Black Body/Thermometer with Sensor/Temperature Gauge/Recorder/Transmitter with Sensor/Temperature Switch/Digit | 123 °C to 300 °C | 0.31°C to 0.31°C | Using Master SSPRT,Master R/S type Thermocouple with Advance Modular Calibrator,Digital Multimeter & Dry Block Temperature Bath & Oil Bath. As Per DKD R5-1. |
| 155 | THERMAL-TEMPERATURE | Temperature Sensor RTD/Thermocouple with or Without Indicator/Temperature Calibrator/Bath/Black Body/Thermometer with Sensor/Temperature Gauge/Recorder/Transmitter with Sensor/Temperature Switch/Digit | 300 °C to 600 °C | 0.45°C to 0.45 °C | Using Master SSPRT,Master R/S type Thermocouple with Advance Modular Calibrator,Digital Multimeter & Dry Block Temperature Bath & Oil Bath. As Per DKD R5-1 & Euramet Cg-8 |



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| S.No | Discipline / Group | Quantity Measured/ Instrument | Range / Frequency | * Calibration Measurement Capability(±) | Remarks |
|------|-------------------------|--|-------------------|---|--|
| 156 | THERMAL- TEMPERATURE | Temperature Sensor RTD/Thermocouple with or Without Indicator/Temperature Calibrator/Bath/Black Body/Thermometer with Sensor/Temperature Gauge/Recorder/Trans mitter with Sensor/Temperature Switch/Digit | 600 °C to 1200 °C | 3.64°C to 3.64°C | Using Master SSPRT,Master R/S type Thermocouple with Advance Modular Calibrator,Digital Multimeter & Dry Block Temperature Bath & Oil Bath. As Per DKD R5-1 & Euramet Cg-8 |
| 157 | THERMAL- TEMPERATURE | Temperature Sensor RTD/Thermocouple with or Without Indicator/Temperature Calibrator/Bath/Black Body/Thermometer with Sensor/Temperature Gauge/Recorder/Trans mitter with Sensor/Temperature Switch/Digit | -80 °C to 123 °C | 0.17°C to 0.17°C | Using Master SSPRT,Master R/S type Thermocouple with Advance Modular Calibrator,Digital Multimeter & Dry Block Temperature Bath & Oil Bath As Per DKD R5-1. |