



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name PRISM CALIBRATION CENTRE, GF-101,F/101,101 A,B, TF-85 TO 101 RUDRAKSH COMPLEX-II, JASHODA NAGAR CROSS ROADS, PHASE-III GIDC, VATVA, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2480 Page No. : 1 / 68

Validity 26/11/2019 to 25/11/2021 Last Amended on 06/02/2020

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Current @ 50Hz	Using 6½ Digit Multimeter By Direct/Comparison Method	0.1 mA to 1 mA	1.0% to 0.3%
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Current @ 50Hz	Using 6½ Digit Multimeter By Direct/Comparison Method	1 A to 10 A	0.30% to 0.28%
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Current @ 50Hz	Using 6½ Digit Multimeter By Direct/Comparison Method	1 mA to 100 mA	0.3% to 0.19%
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Current @ 50Hz	Using 6½ Digit Multimeter By Direct/Comparison Method	100 mA to 1 A	0.19% to 0.30%
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C High Voltage @ 50 Hz	Using HV Probe with DMM By Direct Method	1 kV to 5 kV	7.4% to 4.4%



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6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Voltage @ 50Hz	Using 6½ Digit Multimeter By Direct/Comparison Method	1 V to 1000 V	0.12% to 0.11%
7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Voltage @ 50Hz	Using 6½ Digit Multimeter By Direct/Comparison Method	10 mV to 1 V	0.09% to 0.12%
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)	Using 3 Phase Power/Energy Calibrator By Direct Method	25 Wh to 3750 Wh	0.2% to 0.19%
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)	Using 3 Phase Power/Energy Calibrator By Direct Method	50 W to 3750 W	0.34% to 0.21%
10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	A.C Current @ 50Hz	Using Multifunction Calibrator By Direct Method	1 mA to 100 mA	0.68% to 0.61%



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11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	A.C Current @ 50Hz	Using Multifunction Calibrator With Current Coil By Direct Method	10 A to 800 A	1.55% to 1.27%
12	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	A.C Current @ 50Hz	Using Multifunction Calibrator By Direct Method	100 mA to 10 A	0.61% to 0.51%
13	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	A.C Voltage @ 50Hz	Using Multifunction Calibrator By Direct Method	10 mV to 100 mV	1.37 % to 0.52%
14	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	A.C Voltage @ 50Hz	Using Multifunction Calibrator By Direct Method	100 mV to 1000 V	0.51%
15	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Power Factor @ 50 Hz(50 to 250 V)(0.1 to 5A)	Using 3 Phase Power/Energy Calibrator By Direct Method	-0.5 pF to 0.5 pF	0.012pF
16	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C High Voltage	Using HV Probe with DMM By Direct Method	1 kV to 5 kV	4.6%



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17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Current	Using 6½ Digit Multimeter By Direct/Comparison Method	0.1 mA to 1 mA	1.01% to 0.06%
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Current	Using 6½ Digit Multimeter By Direct/Comparison Method	1 A to 10 A	0.04% to 0.19%
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Current	Using 6½ Digit Multimeter By Direct/Comparison Method	1 mA to 100 mA	0.06% to 0.07%
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Current	Using 6½ Digit Multimeter By Direct/Comparison Method	100 mA to 1 A	0.07% to 0.2%
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Voltage	Using 6½ Digit Multimeter By Direct/Comparison Method	1 mV to 100 mV	0.70% to 0.012%
22	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Voltage	Using 6½ Digit Multimeter By Direct/Comparison Method	1 V to 1000 V	0.20% to 0.041%
23	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Voltage	Using 6½ Digit Multimeter By Direct/Comparison Method	100 mV to 1 V	0.01% to 0.20%



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24	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digit Multimeter By Direct/Comparison Method	1 ohm to 1 Gohm	0.70% to 2.32%
25	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Current	Using Advance Modular Calibrator/Multifunction Calibrator By Direct Method	0.1 mA to 24 mA	0.80% to 0.024%
26	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Current	Using Multifunction Calibrator With Current Coil By Direct Method	10 A to 800 A	1.48% to 0.51%
27	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Current	Using Multifunction Calibrator By Direct Method	100 mA to 10 A	0.61% to 0.38%
28	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Current	Using Multifunction Calibrator By Direct Method	24 mA to 100 mA	0.68% to 0.61%
29	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	Using Discrete Standard Resistor By Direct Method	1 mohm	0.14 %
30	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	Using Discrete Standard Resistor By Direct Method	10 µohm	2.26 %
31	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	Using Discrete Standard Resistor By Direct Method	10 mohm	0.14 %



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32	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	Using Discrete Standard Resistor By Direct Method	100 µohm to	0.55 %
33	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	Using Discrete Standard Resistor By Direct Method	100 mohm	0.14 %
34	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	Using Discrete Standard Resistor By Direct Method	1000 mohm	0.12%
35	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	Using Discrete Standard Resistor By Direct Method	50 µohm	0.60 %
36	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Voltage	Using Multifunction Calibrator By Direct Method	10 mV to 100 mV	1.17% to 0.19%
37	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Voltage	Using Multifunction Calibrator By Direct Method	100 mV to 1000 V	0.19% to 0.12%
38	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box By Direct Method	1 ohm to 1 Gohm	1.40% to 2.65%
39	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig By Direct Method	1 Gohm to 100 Gohm	2.65% to 2.84%



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40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type thermocouple	Using Advance Modular Calibrator/Universal Calibrator By Direct Method	600 °C to 1800 °C	2.47°C to 1.47°C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type thermocouple	Using Advance Modular Calibrator/Universal Calibrator By Direct Method	-100 °C to 1200 °C	0.76°C to 0.80°C
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type thermocouple	Using Advance Modular Calibrator/Universal Calibrator By Direct Method	-50 °C to 1300 °C	0.76°C to 0.93°C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type thermocouple	Using Advance Modular Calibrator/Universal Calibrator By Direct Method	-50 °C to 1300 °C	0.60°C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type thermocouple	Using Advance Modular Calibrator/Universal Calibrator By Direct Method	360 °C to 1700 °C	1.46°C to 1.47°C



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



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



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54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method	300 °C to 1700 °C	1.46°C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method	-50 °C to 400 °C	0.76°C to 0.77°C
56	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Digital Timer,Time Totalizer,Digital Stopwatch,Totalizer,Programmable Timer.	Using Digital Time Interval Meter By Direct/Comparison Method	1 hr to 24 hr	1.30s to 5.18s
57	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Digital Timer,Time Totalizer,Digital Stopwatch,Totalizer,Programmable Timer.	Using Digital Time Interval Meter By Direct/Comparison Method	2 ms to 1 hr	0.013 s to 1.30s
58	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter By Direct/Comparison Method	10 Hz to 50 kHz	0.04% to 0.03%
59	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency	Using Advance Modular Calibrator By Direct Method	10 Hz to 50 kHz	0.58% to 0.02%



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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.	Using Orifice Flow Meter By Comparison Method	50 LPM to 300 LPM	3.40%Rdg
61	FLUID FLOW- FLOW MEASURING DEVICES	Flow Rate Of Rota meter Calibrator/Sampling Pump,Digital Air Flow meter,	Using Laminar Flow Calibrator/ Air Flow Calibrator By Comparison Method	5 LPM to 50 LPM	1.00%Rdg
62	FLUID FLOW- FLOW MEASURING DEVICES	Flow Rate Of Rota meter Calibrator/Sampling Pump,Digital Air Flow meter.	Using Laminar Flow Calibrator/ Air Flow Calibrator By Comparison Method	0.5 LPM to 5 LPM	1.00%Rdg
63	FLUID FLOW- FLOW MEASURING DEVICES	Velocity/Pitot Tube/Anemometer	Using Air Velocity With Indicator	0.65 m/s to 3.0 m/s	7.3%Rdg
64	FLUID FLOW- FLOW MEASURING DEVICES	Velocity/Pitot Tube/Anemometer	Using Hot Wire Anemomter By Comparison Method	3.00 m/s to 20.00 m/s	1.9% Rdg
65	MECHANICAL- ACCELERATION AND SPEED	Tachometer, Calibrator,Centrifuge Machine (Contact Type)	Using Digital Tachometer & Tachometer Calibrato By Comparison Method	55.0 RPM to 2998 RPM	2.6RPM to 7.7RPM



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66	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Calibrator,Centrifuge Machine (Noncontact Type)	Using Digital Tachometer & Tachometer Calibrator By Comparison Method	1000 RPM to 50000 RPM	2.9RPM to 30.3RPM
67	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Calibrator,Centrifuge Machine (Noncontact Type)	Using Digital Tachometer & Tachometer Calibrator By Comparison Method	53 RPM to 1000 RPM	1.8RPM to 2.9RPM
68	MECHANICAL-ACOUSTICS	Sound level meter	Using Sound level calibrator along with meter	1 kHz , 94 dB to 114 dB	1.1dB
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier / Dial / Digital) L.C.10µm	Caliper Checker; Gauge Block Set & Length Bar , Comparison IS 3651	up to 600 mm	14.2 µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C: 0.001 mm	Using Master Foil	up to 1 mm	3.7 µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using ULM IS:11103	0.1 mm to 20 mm	2.0 µm



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72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge(Dial, Digital, VernierL.C. 0.02 mm	Using Slip Gauge Set, Holding Fixture and Surface Plate	up to 150 mm	14.0 µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial /Digital Gauge (Plunger Type) L.C. 1 µm	ULM Comparison IS 2092	up to 50 mm	1.4 µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge (Transmission Mechanism)	ULM JIS B 7515	up to 1 mm Transmission	3.2 µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Comparator L.C -1 µm	using ULM	up to 0.050 mm	1.2 µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Lever Type) L.C. 1 µm	ULM Comparison IS 11498	up to 1 mm	1.3 µm



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77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial/Digital Thickness gauge L.C. 1 µm	Gauge Block set	up to 25 mm	0.7 µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Angle Measuring Instrument/Bevel Protractor/Combination Set(L.C:- 5")	Using Angle Gauge Block By Comparison Method	0 ° to 90 ° (4 Quadrant)	87s
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.1µm	Mick Check Set & Gauge Block Comparison IS 2967	100 mm to 300 mm	3.7 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.1µm	Mick Check Set & Gauge Block Comparison IS 2967	up to 100 mm	1.4 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	ULM Comparison IS 3179	up to 1 mm	1.4 µm



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Laboratory Name PRISM CALIBRATION CENTRE, GF-101,F/101,101 A,B, TF-85 TO 101 RUDRAKSH COMPLEX-II, JASHODA NAGAR CROSS ROADS, PHASE-III GIDC, VATVA, AHMEDABAD, GUJARAT, INDIA

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



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87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale/ Taper Scale	Using Tape and Scale IS:1481	up to 1000 mm	290µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/ Pie Tape	Using Tape and Scale Calibrator IS:1269	up to 50 m	290 * sqrt (L)µm , where L is in metre
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C: 50 µm	Using Slip Gauge Set	up to 100 mm	29.3 µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	ULM & Gauge Block Comparison IS 3455	3 mm to 100 mm	2.3 µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	ULM & Gauge Block Comparison IS 3455	100 mm to 280 mm	3.5 µm



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92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	ULM & Master Ring Comparison IS 3455 , IS 7876	4 mm to 150 mm	2.4 µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rods	ULM & Long Slip Gauge	25 mm to 275 mm	3.8 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	ULM & Master Ring IS 7876	8 mm to 150 mm	2.8 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level L.C: 0.01 mm/m	Using Electronic Level IS: 5706	0.01 mm/m	11.2 µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level IS: 2285	up to 2000 x 2000 mm	3.5((L+W)/125) µm where L and W is in mm



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97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Vernier Caliper IS: 460 (Part I,II,III)	5 mm to 125 mm	28 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge Effective Diameter	ULM & Thread Measuring Wires, Gauge Block IS 10685, EURAMETcg10/V.01	3 mm to 150 mm	2.9 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Major Diameter	ULM & Thread Measuring Wires, Gauge Block IS 10685, EURAMET CG10/V-01	3 mm to 150 mm	3.5 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge Effective DiameterMinor Diameter	ULM & Master Ring Comparison IS 2334 ,EURAMET CG10/V-01	4 mm to 100 mm	2.7 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge	Using Slip Gauge Set	up to 300 mm	79 µm
102	MECHANICAL-DUROMETER	Shore Hardness Tester	Using Dial Calibration Tester	0 Shore to 100 Shore	1.5%



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103	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure/Vacuum Gauge,Transmitter,Switch (Analog/Digital)	Using Digital Pressure Calibrator/Digital Manometer & Low Pressure Pump as Per DKD R6-01	0 mbar to 24.50 mbar	0.083mbar
104	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital)	Using Digital Pressure Calibrator & Hydraulic Pressure Pump & Digital Multi meter as per DKD R6-01 IS:3624	0 bar to 1000 bar	0.9bar
105	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital)	Using Digital Pressure Gauge & Pneumatic Pressure Pump & Digital Multi meter as per DKD R6-01	2 bar to 20 bar	0.024bar
106	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital)	Using Digital Pressure Gauge & Pneumatic Pressure Pump & Digital Multi meter as per DKD R6-01	0 bar to 2 bar	0.0055bar
107	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital)	Using Digital Pressure Calibrator & Hydraulic Pressure Pump & Digital Multi meter as per DKD R6-01	20 bar to 340 bar	0.18bar



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108	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge/ Switch / Transmitter (Analog/ Digital)	Using Digital Vacuum Gauge & Vacuum pump & Digital Multi meter as per DKD R6-02 ISO 3567	-0.9 bar to 0 bar	0.0011bar
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	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 , IS/ISO 6789-2003	2 Nm to 20 Nm	1.86%
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	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 , IS/ISO 6789-2003	20 Nm to 200 Nm	1.08%



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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	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 ,IS/ISO 6789-2003	200 Nm to 2000 Nm	0.75%
112	MECHANICAL-VOLUME	Glass Burette	Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461	1 ml to 10 ml	2.4µl
113	MECHANICAL-VOLUME	Glass Burette	Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461	10 ml to 100 ml	2.94µl
114	MECHANICAL-VOLUME	Glass Pipette (Graduated/Non Graduated)	Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461	0.1 ml to 1 ml	0.4µl
115	MECHANICAL-VOLUME	Glass Pipette (Graduated/Non Graduated)	Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461	1 ml to 10 ml	2.4µl



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



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121	MECHANICAL-VOLUME	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker	Using Digital Precision Balance and Distilled water of Known density as per ISO 4787 & ISO/TR 20461	5000 ml to 10000 ml	7ml
122	MECHANICAL-VOLUME	Piston Pipette / Micropipette	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	10 µl to 100 µl	0.23µl
123	MECHANICAL-VOLUME	Piston Pipette / Micropipette	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	100 µl to 500 µl	0.4µl
124	MECHANICAL-VOLUME	Piston Pipette / Micropipette	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	500 µl to 1000 µl	0.65µl



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125	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=0.01mg and coarser	E2 class std. weights & Calibration of Electronics Weighing Balance of class I and coarser as per OIML R-76-1	0 g to 100 g	0.076mg
126	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=0.1mg and coarser	E2 class std. weights & Calibration of Electronics Weighing Balance of class I and coarser as per OIML R-76-1	100 g to 220 g	0.095mg
127	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=100mg and coarser	F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1,	6 kg to 20 kg	79mg
128	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=10mg and coarser	F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1	1 kg to 6 kg	6mg
129	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=1mg and coarser	F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1	220 g to 1 kg	0.69mg



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130	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=50g and coarser	F1 class std. weights & Calibration of Electronics Weighing Balance of class III and coarser as per OIML R-76-1	100 kg to 300 kg	33g
131	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=5g/10g and coarser	F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1	20 kg to 100 kg	5.8g
132	MECHANICAL-WEIGHTS	Weights	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	1 kg	1.16mg
133	MECHANICAL-WEIGHTS	Weights	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	10 kg	90mg



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134	MECHANICAL-WEIGHTS	Weights	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	100 g	0.1mg
135	MECHANICAL-WEIGHTS	Weights	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	1mg, 2mg, 5mg, 10mg, 20mg, 50mg, 100 mg, 200mg, 500mg	0.01mg
136	MECHANICAL-WEIGHTS	Weights	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	2 kg	9mg



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137	MECHANICAL-WEIGHTS	Weights	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	20 kg	90mg
138	MECHANICAL-WEIGHTS	Weights	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	200 g	0.1mg
139	MECHANICAL-WEIGHTS	Weights	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	5 g	0.012mg



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140	MECHANICAL-WEIGHTS	Weights	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	5 kg	13mg
141	MECHANICAL-WEIGHTS	Weights	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	50 g	0.025mg
142	MECHANICAL-WEIGHTS	Weights	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	50 kg	4.1g



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143	MECHANICAL-WEIGHTS	Weights	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	500 g	0.91mg
144	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine -Patient Lead leakage Current (Mains On Patient Applied Part Isolation Test)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 μ A BF <10 μ A CF	5%
145	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine-Chasis Leakage	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 μ A NC <500 μ A	5.20%
146	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine-Ground Wire Resistance	Using Electrical Safety Analyzer ESA 615 By Direct Method	<0.3 ohm	2.60%
147	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine-Insulation Resistance (Optional 500V)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<2 MOHM	2%
148	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine-Patient Leakage	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 μ A B & BF <10 μ A CF	5%
149	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG unit-Amplitude	Using Vital Sign Simulator Prosim 4 By Direct Method	0.05 mV to 5.0 mV	4.30%



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150	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Unit-Heart Rate	Using Vital Sign Simulator Prosim 4 By Direct Method	10 bpm to 360 bpm	2.24%
151	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety(Chasis Leakage)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 µA NC < 500µA SFC	5.20%
152	MEDICAL DEVICES-MONITORING UNIT	(Patient Monitor)IABP	Using Vital Sign Simulator Prosim 4 By Direct Method	22 mmHg to 167 mmHg	11.30% - 2.22%
153	MEDICAL DEVICES-MONITORING UNIT	(Patient Monitor)Temperature	Using Vital Sign Simulator Prosim 4 by Direct Method	30 °C to 42 °C	1.40°C
154	MEDICAL DEVICES-MONITORING UNIT	Baby Weighing Scale	Using Standard Weight By Comparison Method	500 g to 15 kg	3.5g
155	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety(Patient Leakage)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 µA (AB & BF) <10 µA (CF)	5.20%
156	MEDICAL DEVICES-MONITORING UNIT	Electrical SafetyInsulation Resistance (Optional 500V)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<2 Mohm	2.25%
157	MEDICAL DEVICES-MONITORING UNIT	Electrical SafetyPatient Lead leakage Current, Mains On Patient Applied Part Isolation Test	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 µA BF <10 µACF	5.20%



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158	MEDICAL DEVICES-MONITORING UNIT	Hematology Analyzer-Chasis Leakage	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100(NC)<500(SFC) µA	5.20%
159	MEDICAL DEVICES-MONITORING UNIT	Hematology Analyzer-Ground Wire Resistance	Using Electrical Safety Analyzer ESA 615 By Direct Method	<0.3 Ohm	2.90%
160	MEDICAL DEVICES-MONITORING UNIT	Hematology AnalyzerInsulation Test (Optional 500 V)	Using Electrical Safety Analyzer ESA 615 By Direct Method	< 2 Mohm	2.25%
161	MEDICAL DEVICES-MONITORING UNIT	NIBP Leak Test	Using Vital Sign Simulator Prosim 4 By Direct Method	0 mmHg to 15 mmHg	0.5mmHg
162	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor	Using Vital Sign Simulator Prosim 4 By Direct Method	35 % to 100%	4.5%
163	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor (Respiration Rate)	Using Vital Sign Simulator Prosim 4 By Direct Method	10 bpm to 150 bpm	8.17% to 6 %
164	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor (Temperature)	Using Vital Sign Simulator Prosim 4 By Direct Method:	30 °C to 42°C	1.40 °C
165	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor(Heart Rate)	Using Vital Sign Simulator Prosim 4 by Direct method	30 bpm to 300 bpm	2.9%
166	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor(NIBP (Dynamic))	Using Vital Sign Simulator Prosim 4 By Direct Method	22 mmHg to 167 mmHg	11.3 % to 5.8%



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167	MEDICAL DEVICES-MONITORING UNIT	Patient Weighing Scale	Using Standard Weight By Comparison Method	0 kg to 150 kg	7.0g
168	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	(Defibrillator) Output Energy	Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method	50 J to 270 J	3.4% to 4.9%
169	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	(Defibrillator)Discharge Time(positive/negative pulse width)	Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method	6.49 ms for +PW, 4.49 ms for (-)PW	1.29 ms
170	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	(Defibrillator)Heart Rate	Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method	10 bpm to 200 bpm	7.9% to 1.8%
171	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	(Defibrillator)Synchroni zation Test- charge time	Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method	1 s to 10 s	0.08 s to 0.58 s
172	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Autoclave -Pressure	Pressure Calibrator & Electrical Safety Analyzser By Comparion Method	0 bar to 2 bar	0.40%
173	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Autoclave - Temperature	Using Temperature Sensor,Logger & electrical Safety Analyzer By Comparison Method	110 °C to 135 °C	0.60°C



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174	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Current	Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method	1.00 mA to 100.0 mA	1.4%
175	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Electrical SafetyGround Wire Resistance	Using Electrical Safety Analyzer ESA 615 By Direct Method	< 0.3 ohm	2.9%
176	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Electronic / Mechanical Bed- Ground Wire Resistance	Using Electrical Safety Analyzer ESA 615 By Direct Method	<0.3 Ohm	2.90%
177	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Electronic / Mechanical Bed-Patient Lead leakage Current(Mains On Patient Applied Part Isolation Test)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 µA (BF) <10 µA (CF)	5.20%
178	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Electronic/Mechanical BedChasis Leakage	Using Electrical Safety Analyzer ESA 615 By Direct Method	< 100 (NC)<500 (SFC)	5.20%
179	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Electronic/Mechanical BedInsulation Resistance (Optional 500V)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<2 MOHM	2.25%



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180	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Electronic/Mechanical BedPatient Leakage	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100µA (B & BF<10 µA (CF)	5.20%
181	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	External Pacemaker(Pulse Rate)	Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method	30 ppm to 800 ppm	0.20% to 1.20%
182	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	External Pacemaker(Pulse Width-positive/negative)	Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method	5.00 ms to 100.0 ms	0.035%
183	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Hematology Analyzer-Patient Leakage	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 µA (B & BF) <10 µA CF	5.20%
184	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Insulation Resistance (Optional 500V)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<2 MOHM	2.25%
185	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Patient Leakage	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 µA (B & BF) <100µA (CF)	5.20%



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186	MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE	Patient Warmer - Temperature	Using Temperature Sensor with Logger & Electrical Safety Analyzer Comparison Method	32 °C to 42 °C	0.3°C
187	MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE	Radiant warmer(temperature)	Using Temperature Sensor,Data Logger & Safety Analyzer ESA615 By Comparison Method	0 °C to 135 °C	0.75°C
188	MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE	Tourniquet (Time Interval)	Using Vital Sign Simulator Prosim 4 By Direct Method & Digital Stop Watch By Direct Method	1 min to 60 min	0.75 min
189	MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE	Tourniquet(Pressure)	Using Vital Sign Simulator Prosim 4 By Direct Method & Digital Stop Watch By Direct Method	10 mmHg to 390 mmHg	4.20%
190	MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE	Tourniquet(Time Interval)	Using Vital Sign Simulator Prosim 4 & Digital stop watch By Direct Method	1 min to 60 min	0.75 min
191	THERMAL- SPECIFIC HEAT & HUMIDITY	Environment Chambers/Humidity Chamber/Generator/R H & Temp. Devices (Single Position)	Usind Digital Hygrometer & Portable Data Logger As Per DKD R5-7	15 °C to 50 °C@ 50% RH	0.42°C



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192	THERMAL- SPECIFIC HEAT & HUMIDITY	Environment Chambers/Humidity Chamber/Generator/RH & Temp. Devices (Single Position)	Usind Digital Hygrometer & Portable Data Logger As Per DKD R5-7	20 % RH to 95 %RH@ 25°C	0.53%RH
193	THERMAL- SPECIFIC HEAT & HUMIDITY	RH Sensor/RH Indicator with Sensor/Thermohygrometer/RH Transmitter/Portable Data Logger	Using Humidity Chamber and Digital Hygrometer	15 °C to 50 °C @ 50% RH	0.40°C @50% RH
194	THERMAL- SPECIFIC HEAT & HUMIDITY	RH Sensor/RH Indicator with Sensor/Thermohygrometer/RH Transmitter/Portable Data Logger	Using Humidity Chamber & Digital Hygrometer	20 % RH to 95 % RH @ 25°C	1.67% RH@ 25°C
195	THERMAL- TEMPERATURE	Indicator Of Freezer/Bath,Cold Chamber/Incubator/Water Bath/COD/Autoclave/Environment Chamber (Single Position)	Using SSPRT/RTD Sensor & Advance Modular Calibrator As Per DKD R5-7	-80 °C to 150 °C	0.26°C
196	THERMAL- TEMPERATURE	Indicator Of Oven/ETO/BOD/Furnace/Environment Chamber (Single Position)	Using SSPRT/Temperature Sensors & Advance Modular Calibrator As Per DKD R5-7.	150 °C to 600 °C	0.54°C



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197	THERMAL-TEMPERATURE	Indicator Of Oven/Furnace (Single Position)	Using SSPRT Master R/S Type Thermocouple Sensor & Advance Modular Calibrator As Per DKD-R5-7	600 °C to 1200 °C	2.30°C
198	THERMAL-TEMPERATURE	Infrared Thermometer/Pyrometer/Thermal Imager/IR Sensor With Indicator.	Using Black Body Source & Infrared Thermometer As Per MSL Technical Guide 22 & VDI/VDE 3511 Part 4.3	100 °C to 500 °C	3.41 °C
199	THERMAL-TEMPERATURE	Infrared Thermometer/Pyrometer/Thermal Imager/IR Sensor With Indicator.	Using Black Body Source and Infrared Thermometer By Comparison Method As Per MSL Technical Guide 22 & VDI/VDE 3511 part 4.3	50 °C to 100 °C	2.51°C
200	THERMAL-TEMPERATURE	Infrared Thermometer/Pyrometer/Thermal Imager/IR Sensor With Indicator.	Using Black Body Source & Infrared Thermometer By Comparison Method As per MSL Technical Guide 22 & VDI/VDE 3511 Part 4.3	500 °C to 1200 °C	4.31°C



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201	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT With Advance Modular Calibrator & Liquid Oil Bath	123 °C to 300 °C	0.94 °C
202	THERMAL-TEMPERATURE	Liquid in Glass Thermometer/Wet & Dry Thermometer.	Using Master SSPRT with Advance Modular Calibrator & Liquid Temperature Bath As Per IS-6274	-30 °C to 123 °C	0.64°C
203	THERMAL-TEMPERATURE	Mapping Of DHS/Sterilizer/Oven/Water Bath/ETO/COD/BOD/Autoclave (Multi Position)	Using RTD Sensor & Multi Channel Data Logger & Portable Data Loggers As Per IEC 60068 (Part 3-6),Part 11,DKD R5-7	200 °C to 600 °C	2.50°C
204	THERMAL-TEMPERATURE	Mapping Of Freezer/Bath/Cold Chamber/Refrigerator/ DHS/Sterilizer/Oven/Water Bath/ETO/COD/BOD/Autoclave (Multi Position)	Using RTD Sensor & Multi Channel Data Logger & Portable Data Loggers As Per IEC 60068 (Part 3-6),Part 11,DKD R5-7	-80 °C to 200 °C	2.11°C
205	THERMAL-TEMPERATURE	Mapping Of Oven/Muffle Furnace (Multi Position)	Using Thermocouple Sensors with Multi Channel Data Logger As per IEC 60068(Part-3-6),Part-11 DKD R5-7.	600 °C to 1200 °C	3.99°C



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206	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	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.	123 °C to 300 °C	0.31°C
207	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	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	300 °C to 600 °C	0.45°C



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208	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	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	600 °C to 1200 °C	3.64°C
209	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	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.	-80 °C to 123 °C	0.23°C



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Site Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Current @ 50Hz	Using 6½ Digit Multimeter By Direct/Comparison Method	0.1 mA to 1 mA	1.0% to 0.3%
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Current @ 50Hz	Using 6½ Digit Multimeter By Direct/Comparison Method	1 A to 10 A	0.30% to 0.28%
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Current @ 50Hz	Using 6½ Digit Multimeter By Direct/Comparison Method	1 mA to 100 mA	0.3% to 0.19%
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Current @ 50Hz	Using 6½ Digit Multimeter By Direct/Comparison Method	100 mA to 1 A	0.19% to 0.30%
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C High Voltage @ 50 Hz	Using HV Probe with DMM By Direct Method	1 kV to 40 kV	7.4% to 4.2%



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Site Facility					
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Voltage @ 50Hz	Using 6½ Digit Multimeter By Direct/Comparison Method	1 V to 1000 V	0.12% to 0.11%
7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Voltage @ 50Hz	Using 6½ Digit Multimeter By Direct/Comparison Method	10 mV to 1 V	0.09% to 0.12%
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)	Using 3 Phase Power/Energy Calibrator By Direct Method	25 Wh to 3750 Wh	0.2% to 0.19%
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)	Using 3 Phase Power/Energy Calibrator By Direct Method	50 W to 3750 W	0.34% to 0.21%
10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	A.C Current @ 50Hz	Using Multifunction Calibrator By Direct Method	1 mA to 100 mA	0.68% to 0.61%



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Site Facility					
11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	A.C Current @ 50Hz	Using Multifunction Calibrator With Current Coil By Direct Method	10 A to 800 A	1.55% to 1.27%
12	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	A.C Current @ 50Hz	Using Multifunction Calibrator By Direct Method	100 mA to 10 A	0.61% to 0.51%
13	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	A.C Voltage @ 50Hz	Using Multifunction Calibrator By Direct Method	10 mV to 100 mV	1.37 % to 0.52%
14	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	A.C Voltage @ 50Hz	Using Multifunction Calibrator By Direct Method	100 mV to 1000 V	0.51%
15	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Power Factor @ 50 Hz(50 to 250 V)(0.1 to 5A)	Using 3 Phase Power/Energy Calibrator By Direct Method	-0.5 pF to 0.5 pF	0.012pF



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Site Facility					
16	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C High Voltage	Using HV Probe with DMM By Direct Method	1 kV to 40 kV	4.6% to 4.3%
17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Current	Using 6½ Digit Multimeter By Direct/Comparison Method	0.1 mA to 1 mA	1.01% to 0.06%
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Current	Using 6½ Digit Multimeter By Direct/Comparison Method	1 A to 10 A	0.04% to 0.19%
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Current	Using 6½ Digit Multimeter By Direct/Comparison Method	1 mA to 100 mA	0.06% to 0.07%
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Current	Using 6½ Digit Multimeter By Direct/Comparison Method	100 mA to 1 A	0.07% to 0.2%
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Voltage	Using 6½ Digit Multimeter By Direct/Comparison Method	1 mV to 100 mV	0.70% to 0.012%



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Site Facility					
22	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Voltage	Using 6½ Digit Multimeter By Direct/Comparison Method	1 V to 1000 V	0.20% to 0.041%
23	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Voltage	Using 6½ Digit Multimeter By Direct/Comparison Method	100 mV to 1 V	0.01% to 0.20%
24	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digit Multimeter By Direct/Comparison Method	1 ohm to 1 Gohm	0.70% to 2.32%
25	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Current	Using Advance Modular Calibrator/Multifunction Calibrator By Direct Method	0.1 mA to 24 mA	0.80% to 0.024%
26	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Current	Using Multifunction Calibrator With Current Coil By Direct Method	10 A to 800 A	1.48% to 0.51%
27	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Current	Using Multifunction Calibrator By Direct Method	100 mA to 10 A	0.61% to 0.38%
28	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Current	Using Multifunction Calibrator By Direct Method	24 mA to 100 mA	0.68% to 0.61%



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Site Facility					
29	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	Using Discrete Standard Resistor By Direct Method	1 mohm	0.14 %
30	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	Using Discrete Standard Resistor By Direct Method	10 µohm	2.26 %
31	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	Using Discrete Standard Resistor By Direct Method	10 mohm	0.14 %
32	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	Using Discrete Standard Resistor By Direct Method	100 µohm to	0.55 %
33	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	Using Discrete Standard Resistor By Direct Method	100 mohm	0.14 %
34	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	Using Discrete Standard Resistor By Direct Method	1000 mohm	0.12%
35	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	Using Discrete Standard Resistor By Direct Method	50 µohm	0.60 %
36	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Voltage	Using Multifunction Calibrator By Direct Method	10 mV to 100 mV	1.17% to 0.19%



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



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Site Facility					
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type thermocouple	Using Advance Modular Calibrator/Universal Calibrator By Direct Method	-50 °C to 1300 °C	0.60°C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type thermocouple	Using Advance Modular Calibrator/Universal Calibrator By Direct Method	360 °C to 1700 °C	1.46°C to 1.47°C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD type	Using Advance Modular Calibrator/Universal Calibrator By Direct Method	-200 °C to 800 °C	0.16°C to 0.33°C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type thermocouple	Using Advance Modular Calibrator/Universal Calibrator By Direct Method	300 °C to 1700 °C	1.95°C to 1.47°C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type thermocouple	Using Advance Modular Calibrator/Universal Calibrator By Direct Method	-50 °C to 400 °C	0.76°C to 0.77°C



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Site Facility					
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method	600 °C to 1800 °C	2.47°C to 2.48°C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method	-100 °C to 1200 °C	0.77°C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method	-50 °C to 1300 °C	0.77°C to 0.59°C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method	-50 °C to 1300 °C	0.60°C



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Site Facility					
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method	360 °C to 1700 °C	1.46°C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Type	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method	-200 °C to 800 °C	0.28°C to 0.57°C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method	300 °C to 1700 °C	1.46°C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method	-50 °C to 400 °C	0.76°C to 0.77°C



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Site Facility					
56	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Digital Timer,Time Totalizer,Digital Stopwatch,Totalizer,Programmable Timer.	Using Digital Time Interval Meter By Direct/Comparison Method	1 hr to 24 hr	1.30s to 5.18s
57	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Digital Timer,Time Totalizer,Digital Stopwatch,Totalizer,Programmable Timer.	Using Digital Time Interval Meter By Direct/Comparison Method	2 ms to 1 hr	0.013 s to 1.30s
58	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter By Direct/Comparison Method	10 Hz to 50 kHz	0.04% to 0.03%
59	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency	Using Advance Modular Calibrator By Direct Method	10 Hz to 50 kHz	0.58% to 0.02%
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.	Using Orifice Flow Meter By Comparison Method	50 LPM to 300 LPM	3.40%Rdg



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Site Facility					
61	FLUID FLOW- FLOW MEASURING DEVICES	Flow Rate Of Rota meter Calibrator/Sampling Pump,Digital Air Flow meter,	Using Laminar Flow Calibrator/ Air Flow Calibrator By Comparison Method	5 LPM to 50 LPM	1.00%Rdg
62	FLUID FLOW- FLOW MEASURING DEVICES	Flow Rate Of Rota meter Calibrator/Sampling Pump,Digital Air Flow meter.	Using Laminar Flow Calibrator/ Air Flow Calibrator By Comparison Method	0.5 LPM to 5 LPM	1.00%Rdg
63	FLUID FLOW- FLOW MEASURING DEVICES	Volume Flow Rate(Medium : Liquid)	Using Ultrasonic Flow Meter by Comparison Method	1 m ³ /hr to 360 m ³ /hr	1.50%Rdg
64	MECHANICAL- ACCELERATION AND SPEED	Tachometer, Calibrator,Centrifuge Machine (Contact Type)	Using Digital Tachometer & Tachometer Calibrato By Comparison Method	55.0 RPM to 2998 RPM	2.6RPM to 7.7RPM
65	MECHANICAL- ACCELERATION AND SPEED	Tachometer, Calibrator,Centrifuge Machine (Noncontact Type)	Using Digital Tachometer & Tachometer Calibrator By Comparison Method	1000 RPM to 50000 RPM	2.9RPM to 30.3RPM
66	MECHANICAL- ACCELERATION AND SPEED	Tachometer, Calibrator,Centrifuge Machine (Noncontact Type)	Using Digital Tachometer & Tachometer Calibrator By Comparison Method	53 RPM to 1000 RPM	1.8RPM to 2.9RPM



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Site Facility					
67	MECHANICAL-ACOUSTICS	Sound level meter	Using Sound level calibrator along with meter	1 kHz , 94 dB to 114 dB	1.1dB
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level IS: 2285	up to 2000 x 2000 mm	3.5((L+W)/125) µm where L and W is in mm
69	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Testing Machines	Using Brinell Hardness Standard Blocks IS 1500-2:2013	HBW 10/3000	1.07%
70	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Testing Machines	Using Brinell Hardness Standard Blocks IS 1500-2:2013	HBW 2.5/187.5	1.12%
71	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Testing Machines	Using Brinell Hardness Standard Blocks IS 1500-2:2013	HBW 5/750	1.13%
72	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Testing Machines	Using Rockwell Hardness Standard Blocks IS 1586-2:2012	HRBW	1.19HRBW
73	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Testing Machines	Using Rockwell Hardness Standard Blocks IS 1586-2:2012	HRC	1HRC



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Site Facility					
74	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure/Vacuum Gauge,Transmitter,Switch (Analog/Digital)	Using Digital Pressure Calibrator/Digital Manometer & Low Pressure Pump as Per DKD R6-01	0 mbar to 24.50 mbar	0.083mbar
75	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital)	Using Digital Pressure Calibrator & Hydraulic Pressure Pump & Digital Multi meter as per DKD R6-01 IS:3624	0 bar to 1000 bar	0.9bar
76	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital)	Using Digital Pressure Gauge & Pneumatic Pressure Pump & Digital Multi meter as per DKD R6-01	2 bar to 20 bar	0.024bar
77	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital)	Using Digital Pressure Gauge & Pneumatic Pressure Pump & Digital Multi meter as per DKD R6-01	0 bar to 2 bar	0.0055bar
78	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge/ Pressure Switch/ Pressure Transmitter (Analog/Digital)	Using Digital Pressure Calibrator & Hydraulic Pressure Pump & Digital Multi meter as per DKD R6-01	20 bar to 340 bar	0.18bar



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Site Facility					
79	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge/ Switch / Transmitter (Analog/ Digital)	Using Digital Vacuum Gauge & Vacuum pump & Digital Multi meter as per DKD R6-02 ISO 3567	-0.9 bar to 0 bar	0.0011bar
80	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machines Tension, Compression	Using Force Proving Instruments (Load cell) of class 0.5 , IS 1828 (Part 1)2015	Tension 25 N to 50 kN	0.4%
81	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machines , Compression	Using Force Proving Instruments (Load cell) of class 0.5 IS 1828 (Part 1)2015	Compression 25 N to 1000 kN	0.4%
82	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=0.01mg and coarser	E2 class std. weights & Calibration of Electronics Weighing Balance of class I and coarser as per OIML R-76-1	0 g to 100 g	0.076mg
83	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=0.1mg and coarser	E2 class std. weights & Calibration of Electronics Weighing Balance of class I and coarser as per OIML R-76-1	100 g to 220 g	0.095mg



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Site Facility					
84	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=100mg and coarser	F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1,	6 kg to 20 kg	79mg
85	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=10mg and coarser	F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1	1 kg to 6 kg	6mg
86	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=1mg and coarser	F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1	220 g to 1 kg	0.69mg
87	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=50g and coarser	F1 class std. weights & Calibration of Electronics Weighing Balance of class III and coarser as per OIML R-76-1	100 kg to 300 kg	33g
88	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=5g/10g and coarser	F1 class std. weights & Calibration of Electronics Weighing Balance and coarser as per OIML R-76-1	20 kg to 100 kg	5.8g



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Site Facility					
89	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine -Patient Lead leakage Current (Mains On Patient Applied Part Isolation Test)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 µA BF <10 µA CF	5%
90	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine-Chasis Leakage	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 µA NC <500 µA	5.20%
91	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine-Ground Wire Resistance	Using Electrical Safety Analyzer ESA 615 By Direct Method	<0.3 ohm	2.60%
92	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine-Insulation Resistance (Optional 500V)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<2 MOHM	2%
93	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine-Patient Leakage	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 µA B & BF <10 µA CF	5%
94	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG unit-Amplitude	Using Vital Sign Simulator Prosim 4 By Direct Method	0.05 mV to 5.0 mV	4.30%
95	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Unit-Heart Rate	Using Vital Sign Simulator Prosim 4 By Direct Method	10 bpm to 360 bpm	2.24%
96	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety(Chasis Leakage)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 µA NC < 500µA SFC	5.20%



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Site Facility					
97	MEDICAL DEVICES-MONITORING UNIT	(Patient Monitor)IABP	Using Vital Sign Simulator Prosim 4 By Direct Method	22 mmHg to 167 mmHg	11.30% - 2.22%
98	MEDICAL DEVICES-MONITORING UNIT	(Patient Monitor)Temperature	Using Vital Sign Simulator Prosim 4 by Direct Method	30 °C to 42 °C	1.40°C
99	MEDICAL DEVICES-MONITORING UNIT	Baby Weighing Scale	Using Standard Weight By Comparison Method	500 g to 15 kg	3.5g
100	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety(Patient Leakage)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 µA (AB & BF) <10 µA (CF)	5.20%
101	MEDICAL DEVICES-MONITORING UNIT	Electrical SafetyInsulation Resistance (Optional 500V)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<2 Mohm	2.25%
102	MEDICAL DEVICES-MONITORING UNIT	Electrical SafetyPatient Lead leakage Current, Mains On Patient Applied Part Isolation Test	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 µA BF <10 µACF	5.20%
103	MEDICAL DEVICES-MONITORING UNIT	Hematology Analyzer-Chasis Leakage	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100(NC)<500(SFC) µA	5.20%
104	MEDICAL DEVICES-MONITORING UNIT	Hematology Analyzer-Ground Wire Resistance	Using Electrical Safety Analyzer ESA 615 By Direct Method	<0.3 Ohm	2.90%



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Site Facility					
105	MEDICAL DEVICES-MONITORING UNIT	NIBP Leak Test	Using Vital Sign Simulator Prosim 4 By Direct Method	0 mmHg to 15 mmHg	0.5mmHg
106	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor (Respiration Rate)	Using Vital Sign Simulator Prosim 4 By Direct Method	10 bpm to 150 bpm	8.17% to 6 %
107	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor(Heart Rate)	Using Vital Sign Simulator Prosim 4 by Direct method	30 bpm to 300 bpm	2.9%
108	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor(NIBP (Dynamic))	Using Vital Sign Simulator Prosim 4 By Direct Method	22 mmHg to 167 mmHg	11.3 % to 5.8%
109	MEDICAL DEVICES-MONITORING UNIT	Patient Weighing Scale	Using Standard Weight By Comparison Method	0 kg to 150 kg	7.0g
110	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	(Defibrillator) Output Energy	Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method	50 J to 270 J	3.4% to 4.9%
111	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	(Defibrillator)Discharge Time(positive/negative pulse width)	Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method	6.49 ms for +PW, 4.49 ms for (-)PW	1.29 ms
112	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	(Defibrillator)Heart Rate	Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method	10 bpm to 200 bpm	7.9% to 1.8%



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Site Facility					
113	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	(Defibrillator)Synchroni zation Test- charge time	Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method	1 s to 10 s	0.08 s to 0.58 s
114	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Autoclave -Pressure	Pressure Calibrator & Electrical Safety Analyzser By Comparion Method	0 bar to 2 bar	0.40%
115	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Autoclave - Temperature	Using Temperature Sensor,Logger & electrical Safety Analyzer By Comparison Method	110 °C to 135 °C	0.60°C
116	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Current	Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method	1.00 mA to 100.0 mA	1.4%
117	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Electrical SafetyGround Wire Resistance	Using Electrical Safety Analyzer ESA 615 By Direct Method	< 0.3 ohm	2.9%
118	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Electronic / Mechanical Bed- Ground Wire Resistance	Using Electrical Safety Analyzer ESA 615 By Direct Method	<0.3 Ohm	2.90%



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Site Facility					
119	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Electronic / Mechanical Bed-Patient Lead leakage Current(Mains On Patient Applied Part Isolation Test)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 µA (BF) <10 µA (CF)	5.20%
120	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Electronic/Mechanical BedChasis Leakage	Using Electrical Safety Analyzer ESA 615 By Direct Method	< 100 (NC)<500 (SFC)	5.20%
121	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Electronic/Mechanical BedInsulation Resistance (Optional 500V)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<2 MOHM	2.25%
122	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	Electronic/Mechanical BedPatient Leakage	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100µA (B & BF<10 µA (CF)	5.20%
123	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	External Pacemaker(Pulse Rate)	Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method	30 ppm to 800 ppm	0.20% to 1.20%
124	MEDICAL DEVICES-PATIENT CONDITIONING/ MAINTENANCE	External Pacemaker(Pulse Width-positive/negative)	Using Defibrillator or Analyzer Impulse 7000 DP By Direct Method	5.00 ms to 100.0 ms	0.035%



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Site Facility					
125	MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE	Hematology Analyzer- Patient Leakage	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 µA (B & BF) <10 µA CF	5.20%
126	MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE	Insulation Resistance (Optional 500V)	Using Electrical Safety Analyzer ESA 615 By Direct Method	<2 MOHM	2.25%
127	MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE	Patient Leakage	Using Electrical Safety Analyzer ESA 615 By Direct Method	<100 µA (B & BF) <100µA (CF)	5.20%
128	MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE	Patient Warmer - Temperature	Using Temperature Sensor with Logger & Electrical Safety Analyzer Comparison Method	32 °C to 42 °C	0.3°C
129	MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE	Radiant warmer(temperature)	Using Temperature Sensor,Data Logger & Safety Analyzer ESA615 By Comparison Method	0 °C to 135 °C	0.75°C
130	MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE	Tourniquet (Time Interval)	Using Vital Sign Simulator Prosim 4 By Direct Method & Digital Stop Watch By Direct Method	1 min to 60 min	0.75 min



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Site Facility					
131	MEDICAL DEVICES- PATIENT CONDITIONING/ MAINTENANCE	Tourniquet(Pressure)	Using Vital Sign Simulator Prosim 4 By Direct Method & Digital Stop Watch By Direct Method	10 mmHg to 390 mmHg	4.20%
132	THERMAL- SPECIFIC HEAT & HUMIDITY	Environment Chambers/Humidity Chamber/Generator/R H & Temp. Devices (Single Position)	Usind Digital Hygrometer & Portable Data Logger As Per DKD R5-7	15 °C to 50 °C@ 50% RH	0.42°C
133	THERMAL- SPECIFIC HEAT & HUMIDITY	Environment Chambers/Humidity Chamber/Generator/R H & Temp. Devices (Single Position)	Usind Digital Hygrometer & Portable Data Logger As Per DKD R5-7	20 % RH to 95 %RH@ 25°C	0.53%RH
134	THERMAL- SPECIFIC HEAT & HUMIDITY	RH Sensor/RH Indicator with Sensor/Thermohygrometer/RH Transmitter/Portable Data Logger	Using Humidity Chamber and Digital Hygrometer	15 °C to 50 °C @ 50% RH	0.40°C @50% RH
135	THERMAL- SPECIFIC HEAT & HUMIDITY	RH Sensor/RH Indicator with Sensor/Thermohygrometer/RH Transmitter/Portable Data Logger	Using Humidity Chamber & Digital Hygrometer	20 % RH to 95 % RH @ 25°C	1.67% RH@ 25°C



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Site Facility					
136	THERMAL-TEMPERATURE	Indicator Of Freezer/Bath,Cold Chamber/Incubator/Water Bath/COD/Autoclave/Environment Chamber (Single Position)	Using SSPRT/RTD Sensor & Advance Modular Calibrator As Per DKD R5-7	-80 °C to 150 °C	0.26°C
137	THERMAL-TEMPERATURE	Indicator Of Oven/ETO/BOD/Furnace/Environment Chamber (Single Position)	Using SSPRT/Temperature Sensors & Advance Modular Calibrator As Per DKD R5-7.	150 °C to 600 °C	0.54°C
138	THERMAL-TEMPERATURE	Indicator Of Oven/Furnace (Single Position)	Using SSPRT Master R/S Type Thermocouple Sensor & Advance Modular Calibrator As Per DKD-R5-7	600 °C to 1200 °C	2.30°C
139	THERMAL-TEMPERATURE	Infrared Thermometer/Pyrometer/Thermal Imager/IR Sensor With Indicator.	Using Black Body Source & Infrared Thermometer As Per MSL Technical Guide 22 & VDI/VDE 3511 Part 4.3	100 °C to 500 °C	3.41 °C



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Site Facility					
140	THERMAL-TEMPERATURE	Infrared Thermometer/Pyrometer/Thermal Imager/IR Sensor With Indicator.	Using Black Body Source and Infrared Thermometer By Comparison Method As Per MSL Technical Guide 22 & VDI/VDE 3511 part 4.3	50 °C to 100 °C	2.51°C
141	THERMAL-TEMPERATURE	Infrared Thermometer/Pyrometer/Thermal Imager/IR Sensor With Indicator.	Using Black Body Source & Infrared Thermometer By Comparison Method As per MSL Technical Guide 22 & VDI/VDE 3511 Part 4.3	500 °C to 1200 °C	4.31°C
142	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT With Advance Modular Calibrator & Liquid Oil Bath	123 °C to 300 °C	0.94 °C
143	THERMAL-TEMPERATURE	Liquid in Glass Thermometer/Wet & Dry Thermometer.	Using Master SSPRT with Advance Modular Calibrator & Liquid Temperature Bath As Per IS-6274	-30 °C to 123 °C	0.64°C



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Site Facility					
144	THERMAL-TEMPERATURE	Mapping Of DHS/Sterilizer/Oven/Water Bath/ETO/COD/BOD/Autoclave (Multi Position)	Using RTD Sensor & Multi Channel Data Logger & Portable Data Loggers As Per IEC 60068 (Part 3-6),Part 11,DKD R5-7	200 °C to 600 °C	2.50°C
145	THERMAL-TEMPERATURE	Mapping Of Freezer/Bath/Cold Chamber/Refrigerator/ DHS/Sterilizer/Oven/Water Bath/ETO/COD/BOD/Autoclave (Multi Position)	Using RTD Sensor & Multi Channel Data Logger & Portable Data Loggers As Per IEC 60068 (Part 3-6),Part 11,DKD R5-7	-80 °C to 200 °C	2.11°C
146	THERMAL-TEMPERATURE	Mapping Of Oven/Muffle Furnace (Multi Position)	Using Thermocouple Sensors with Multi Channel Data Logger As per IEC 60068(Part-3-6),Part-11 DKD R5-7.	600 °C to 1200 °C	3.99°C



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Site Facility					
147	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	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.	123 °C to 300 °C	0.31°C
148	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	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	300 °C to 600 °C	0.45°C



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Site Facility					
149	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	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	600 °C to 1200 °C	3.64°C
150	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	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.	-80 °C to 123 °C	0.23°C

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