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

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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)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 A to 10 A	0.3 % to 0.4 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 mA to 100 mA	0.4 % to 0.34 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mA to 1 A	0.34 % to 0.3 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 5 kV	1.9 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 mV to 10 mV	4.7 % to 0.66 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 V to 1000 V	0.1 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.66 % to 0.15 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mV to 1 V	0.15 % to 0.1 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase AC Power @ 50 Hz (40 V to 600 V, 0.01 A to 20 A, 0.5 PF Lag/Lead to UPF)	Using Multiproduct Calibrator by Direct Method	20 W to 4800 W	1 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3 Phase Energy @ 50 Hz (50 V to 300 V, 1 A to 6 A, (0.5 PF Lead/Lag to UPF)	Using 3 Phase Power/Energy Calibrator by Direct Method	25 Wh to 900 Wh	1 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3 Phase Power @ 50 Hz (50 V to 300 V, 1 A to 6 A, 0.5 PF Lead/Lag to UPF)	Using 3 Phase Power/Energy Calibrator by Direct Method	75 W to 5400 W	0.34 % to 0.4 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	1 A to 20 A	0.1 % to 0.24 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	100 µA to 100 mA	0.27 % to 0.08 %

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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	100 mA to 1 A	0.08 % to 0.1 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with Current Coil by Direct Method	20 A to 1000 A	2.4 % to 1.6 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	30 µA to 100 µA	0.62 % to 0.27 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	1 mV to 10 mV	2.8 % to 0.36 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	1 V to 10 V	0.2 % to 0.13 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	10 mV to 100 mV	0.36 % to 0.08 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	10 V to 100 V	0.13 % to 0.07 %

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21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	100 mV to 1 V	0.08 % to 0.2 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	100 V to 1000 V	0.07 % to 0.08 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	1 nF to 100 µF	1.2 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	1.2 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (50 V to 250 V, 1 A to 5 A)	Using 3 Phase Power/Energy Calibrator by Direct Method	0.5 PF (Lag/Lead) to UPF	0.012 PF
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	1 µA to 100 µA	3.6 % to 0.3 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	1 A to 10 A	0.1 % to 0.25 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	1 mA to 100 mA	0.08 % to 0.07 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 µA to 1 mA	0.3 % to 0.08 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 mA to 1 A	0.07 % to 0.1 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 5 kV	1.3 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 mV	0.4 % to 0.012 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 V to 1000 V	0.1 % to 0.01 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 mV to 1 V	0.012 % to 0.1 %

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35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct method	1 ohm to 1 Gohm	0.7 % to 3.06 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	1 µA to 10 µA	3.3 % to 0.28 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	1 A to 20 A	0.12 % to 0.08 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	10 µA to 100 µA	0.28 % to 0.06 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	10 mA to 100 mA	0.024 % to 0.039 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	100 µA to 10 mA	0.06 % to 0.024 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	100 mA to 1 A	0.039 % to 0.12 %

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42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.05 % to 1.05 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance (4 Wire) Discrete	Using 4 Wire Low Resistance Standard by Direct Method	1 mohm	0.24 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance (4 Wire) Discrete	Using 4 Wire Low Resistance Standard by Direct Method	10 mohm	0.17 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance (4 Wire) Discrete	Using 4 Wire Low Resistance Standard by Direct Method	10 µohm	5.78 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance (4 Wire) Discrete	Using 4 Wire Low Resistance Standard by Direct Method	100 mohm	0.16 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance (4 Wire) Discrete	Using 4 Wire Low Resistance Standard by Direct Method	100 µohm	0.6 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance (4 Wire) Discrete	Using 4 Wire Low Resistance Standard by Direct Method	1000 mohm	0.14 %

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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance (4 Wire) Discrete	Using 4 Wire Low Resistance Standard by Direct Method	50 µohm	1.26 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (1 V to 1000 V, 1 A to 20 A)	Using Multiproduct Calibrator by Direct Method	1 W to 20000 W	4.5 % to 1 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct Calibrator by Direct Method	1 kohm to 100 kohm	0.23 % to 0.02 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct Calibrator by Direct Method	1 Mohm to 100 Mohm	0.2 % to 0.58 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct Calibrator by Direct Method	1 ohm to 100 ohm	0.84 % to 0.02 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct Calibrator by Direct Method	100 kohm to 1 Mohm	0.02 % to 0.2 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct Calibrator by Direct Method	100 Mohm to 1000 Mohm	0.58 % to 1.73 %

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56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct Calibrator by Direct Method	100 ohm to 1 kohm	0.02 % to 0.23 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	1 mV to 10 mV	0.5 % to 0.08 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	1 V to 10 V	0.04 % to 0.032 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	10 mV to 100 mV	0.08 % to 0.03 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	10 V to 100 V	0.032 % to 0.047 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	100 mV to 1 V	0.03 % to 0.04 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	100 V to 1000 V	0.047 % to 0.036 %

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63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ Up to 5000 V	Using High Resistance Jig by Direct Method	100 Gohm	9.8 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ Up to 5000 V	Using High Resistance Jig by Direct Method	1000 Gohm	9.8 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ Up to 5000 V	Using High Resistance Jig by Direct Method	500 Gohm	9.8 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ Up to 1000 V (2 Wire)	Using High Resistance Jig by Direct Method	1 Gohm to 100 Gohm	1.73 % to 8.25 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ Up to 1000 V (2 Wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 1000 Mohm	5.8 % to 1.73 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ Up to 5000 V (2 Wire)	Using High Resistance Jig by Direct Method	10 Gohm	8.25 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ Up to 5000 V (2 Wire)	Using High Resistance Jig by Direct Method	5 Mohm	4.7 %

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70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter (1 µS to 10000 µS)	Using Decade Resistance Box by Simulation Method	100 ohm to 1 Mohm	2 %
71	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Amplitude)	Using Multiproduct Calibrator with Scope Option by Direct Method	1 mVDC to 33 VDC	9.2 % to 1.3 %
72	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Bandwidth)	Using Multiproduct Calibrator by Direct Method	50 kHz to 300 MHz	6.9 %
73	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Horizontal Deflection (Time Base)	Using Multiproduct Calibrator by Direct Method	10 ns to 1 s	0.92 %
74	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Vertical Deflection (Square Wave @ 1 kHz & DC Function)	Using Multiproduct Calibrator by Direct Method	5 mV to 55 V	4 % to 2.13 %
75	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter (0 to 14 pH)	Using Advance Modular Calibrator by Direct Method	(-) 440 mV to 440 mV	1.8 %
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Multiproduct Calibrator by Direct Method	600 °C to 1800 °C	0.74 °C

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77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.63 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.7 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	L Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 900 °C	0.7 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.72 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Multiproduct Calibrator by Direct Method	100 °C to 1750 °C	0.85 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using 6½ Digital Multimeter by Direct Method	(-) 200 °C to 600 °C	0.27 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multiproduct Calibrator by Direct Method	100 °C to 1750 °C	0.76 °C

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84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 400 °C	0.9 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Multiproduct Calibrator by Direct Method	600 °C to 1800 °C	0.8 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.63 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.7 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	L Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 900 °C	0.7 °C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.72 °C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multiproduct Calibrator by Direct Method	0 °C to 1700 °C	0.86 °C

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91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 800 °C	0.28 °C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Multiproduct Calibrator by Direct Method	0 °C to 1750 °C	0.76 °C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 400 °C	0.9 °C
94	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	10 Hz to 100 kHz	0.03 % to 0.2 %
95	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency @ 100 mV	Using 6½ Digital Multimeter by Direct Method	100 kHz to 1 MHz	0.2 % to 0.1 %
96	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	1 hr to 24 hr	0.44 s to 25 s
97	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	1 s to 1 hr	0.35 s to 0.44 s

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98	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	10 Hz to 100 kHz	0.2 % to 0.07 %
99	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency @ 100 mV	Using Multiproduct Calibrator by Direct Method	100 kHz to 1 MHz	0.2 % to 2 %
100	FLUID FLOW-FLOW MEASURING DEVICES	Anemometer, Air Velocity Meter, Velocity Transmitter	Using Wind Tunnel and Hot Wire Anemometer by Comparison Method	1 m/s to 3 m/s	6.7 %rdg
101	FLUID FLOW-FLOW MEASURING DEVICES	Anemometer, Air Velocity Meter, Velocity Transmitter	Using Wind Tunnel and Hot Wire Anemometer by Comparison Method	3 m/s to 20 m/s	5.9 %rdg
102	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate Of Analog/Digital Rotameter, Air Flow Calibrator, Digital Air Flow Meter/Dry Gas Meter/Flow of Data Logger	Using LFE Gas Flow Calibrator by Comparison Method	>5 LPM to 50 LPM	3.3 %rdg
103	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate of Analog/Digital Rotameter, Air Flow Calibrator, Digital Air Flow Meter/Dry Gas Meter/Flow of Data Logger	Using LFE Gas Flow Calibrator by Comparison Method	0.5 LPM to 5 LPM	4 %rdg

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104	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate of Analog/Digital Rotameter, Air Flow Calibrator, Digital Air Flow Meter/Dry Gas Meter/Flow of Data Logger	Using Orifice Flow Calibrator by Comparison Method	50 LPM to 100 LPM	4.39 %rdg
105	FLUID FLOW-FLOW MEASURING DEVICES	Orifice Manometer Flow Rate of HVS/Respirable Dust Sampler	Using Top Load Calibrator by Comparison Method	0.9 m^3/minute to 1.4 m^3/minute	5 %rdg
106	FLUID FLOW-FLOW MEASURING DEVICES	Pitot Tube	Using L Type Pitot Tube with Digital Manometer by Comparison Method	3.3 m/s to 20 m/s	3.7 %rdg
107	MECHANICAL-ACCELERATION AND SPEED	Stirrer/RPM Source/Centrifuge Machine	Using Digital Tachometer by Direct Method	>1000 RPM to 5000 RPM	0.19 %
108	MECHANICAL-ACCELERATION AND SPEED	Stirrer/RPM Source/Centrifuge Machine	Using Digital Tachometer by Direct Method	>5000 RPM to 20000 RPM	0.31 %
109	MECHANICAL-ACCELERATION AND SPEED	Stirrer/RPM Source/Centrifuge Machine	Using Digital Tachometer by Direct Method	50 RPM to 1000 RPM	5.8 %
110	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	>100 RPM to 1000 RPM	0.43 %
111	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	>1000 RPM to 5000 RPM	0.25 %

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112	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	20 RPM to 100 RPM	5.3 %
113	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	>100 RPM to 1000 RPM	0.43 %
114	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	>1000 RPM to 5000 RPM	0.2 %
115	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	>5000 RPM to 90000 RPM	0.17 %
116	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	20 RPM to 100 RPM	5.2 %
117	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	114 dB	0.72 dB
118	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB	0.72 dB
119	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer/Specific Gravity Hydrometer	Using Reference Density Hydrometer by Comparison Method as per IS 3104 (Part 2)	0.6 g/ml to 1.1 g/ml	0.003 g/ml

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120	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer/Specific Gravity Hydrometer	Using Reference Density Hydrometer by Comparison Method as per IS 3104 (Part 2)	1.5 g/ml to 1.6 g/ml	0.003 g/ml
121	MECHANICAL-DENSITY AND VISCOSITY	Ford Cup, Viscosity Cup, Shell Cup, ISO Cup, Iwata Cup	Using Newtonian Liquids of known Kinematic Viscosity by Comparison Method as per IS 3944: 1982	20 cSt to 100 cSt	1 %
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge (Plate Type)/Chamfer Gauge (Angle)	Using Video Measuring Machine by Comparison Method	0° to 360°	5.62 minute of arc
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector (Analog/Digital) (L.C.: 5 minute of arc)	Using Angle Gauge Block Set by Comparison Method	0° to 360°	5.65 minute of arc
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) (L.C.: 0.01 mm)	Using Caliper Checker, Gauge Block Set and Surface Plate by Comparison Method	0 to 1000 mm	19.8 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) (L.C.: 0.02 mm)	Using Caliper Checker, Gauge Block Set and Surface Plate by Comparison Method	0 to 1000 mm	19.86 µm

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126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Chamfer Gauge (Linear)	Using Video Measuring Machine by Comparison Method	0 to 150 mm	8.72 µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.1 µm)	Using Master Foils by Comparison Method	23 µm to 3000 µm	3.6 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set (L.C.: 1°)	Using Angle Gauge Block Set by Comparison Method	0° to 180°	5 minute of arc
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Angle)	Using Video Measuring Machine by Comparison Method	0° to 45°	5.65 minute of arc
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Pitch)	Using Video Measuring Machine by Comparison Method	0.5 mm to 5 mm	8.75 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using ULM by Direct Method	0.1 mm to 20 mm	1.1 µm

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132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Standard (Runout)	Using Electronic Probe with DRO and FCDM by Direct Method	3 mm to 100 mm	3.3 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Standards (Diameter)	Using ULM and Slip Gauge Set by Comparison Method	3 mm to 100 mm	1.5 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Degree Protractor/Angle Protractor (L.C.: 0.01°)	Using Angle Gauge Block Set by Comparison Method	0° to 360°	5 minute of arc
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (Digital/Analog) (L.C.: 0.001 mm)	Using Depth Holding Fixture and Slip Gauge Set by Comparison Method	0 to 200 mm	3.5 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge/Bore Gauge (Transmission Mechanism) (L.C.: 0.001 mm)	Using ULM by Comparison Method	0 to 2 mm	1.3 µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Plunger Type) (L.C.: 0.0005 mm)	Using ULM by Comparison Method	0 to 0.05 mm	1.2 µm

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138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Plunger Type) (L.C.: 0.001 mm)	Using ULM by Comparison Method	0 to 5 mm	1.4 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Plunger Type) (L.C.: 0.01 mm)	Using ULM by Comparison Method	0 to 50 mm	5.9 µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial/Digital Thickness Gauge (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	0 to 25 mm	0.8 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Indicator (Plunger Type) (L.C.: 0.001 mm)	Using ULM by Comparison Method	0 to 50 mm	1.4 µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Parallel, Parallel Block (Parallelism)	Using Electronic Probe With DRO, Slip Gauge Set and Surface Plate by Comparison Method	0 to 300 mm	7 µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Parallel, Parallel Block (Thickness)	Using Electronic Probe With DRO, Slip Gauge Set and Comparator Stand by Comparison Method	0 to 10 mm	7 µm

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144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Micrometer Check Set and Gauge Block by Comparison Method	0 to 100 mm	2.1 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Micrometer Check Set and Gauge Block by Comparison Method	100 mm to 300 mm	3.95 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Micrometer Check Set and Gauge Block by Comparison Method	300 mm to 500 mm	7.5 µm
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using ULM by Direct Method	0.03 mm to 1 mm	1.1 µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foils	Using ULM by Direct Method	0.009 mm to 12 mm	1.2 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Form Gauge (Angle)	Using Video Measuring Machine by Comparison Method	0° to 360°	5.62 minute of arc

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150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Form Gauge (Linear)	Using Video Measuring Machine by Comparison Method	0 to 150 mm	8.75 µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Granite/Cast Iron Comparator Base/Stand (Flatness)	Using Electronic Probe with DRO and Surface Plate by Direct Method	Up to 400 mm	3.8 µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Electronic Probe with DRO by Comparison Method	0 to 100 µm	2.2 µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) (L.C.: 0.02 mm)	Using Caliper Checker, Gauge Block Set and Surface Plate by Comparison Method	0 to 1000 mm	19.86 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) (L.C.: 0.01 mm)	Using Caliper Checker, Gauge Block Set and Surface Plate by Comparison Method	0 to 1000 mm	17.2 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer (L.C.: 0.01°)	Using Angle Gauge Block Set by Comparison Method	0° to 90°	5 minute of arc

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156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper Gauge (L.C.: 0.01 mm)	Using Slip Gauge Set and Slip Gauge Accessories by Comparison Method	0 to 100 mm	7.08 µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inspection Jig and Fixture (Linear)	Using Video Measuring Machine by Comparison Method	0 to 150 mm	12.1 µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer/Stick Micrometer (Extension Rod)	Using ULM and Gauge Block Set by Comparison Method	5 mm to 250 mm	6.7 µm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer/Stick Micrometer (Micrometer Head) Deviation of Traverse over 25 mm	Using ULM and Gauge Block Set by Comparison Method	25 mm to 125 mm	6.4 µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C.: 0.001 mm)	Using ULM by Comparison Method	0 to 0.14 mm	1.2 µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C.: 0.002 mm)	Using ULM by Comparison Method	0 to 0.2 mm	1.6 µm

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162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C.: 0.01 mm)	Using ULM by Comparison Method	0 to 1 mm	5.9 µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale/Metric Steel Scale (L.C.: 0.5 mm)	Using Tape and Scale Calibrator by Comparison Method	0 to 1000 mm	120xSQRT(L) µm, where L in m
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale/Metric Steel Scale (L.C.: 1 mm)	Using Tape and Scale Calibrator by Comparison Method	>1000 mm to 2000 mm	120xSQRT(L) µm, where L in m
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (Steel, Metallic, Woven, Fiber) (L.C.: 1 mm)	Using Tape and Scale Calibrator by Comparison Method	0 to 50 m	232xSQRT (L) µm, where L in m
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mould (Cube Mould/Rectangular Mould/Cylindrical Mould /Container) (Linear)	Using Digital Vernier by Comparison Method	0 to 300 mm	50 µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer (L.C.: 0.1 mm)	Using Standard Slip Gauge Block Set by Comparison Method	0 to 40 mm	56 µm

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168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape (Steel, Metallic) (L.C.: 0.1 mm)	Using Tape and Scale Calibrator by Comparison Method	0 to 5 m	62xSQRT(L) µm, where L in m
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 50 µm)	Using Slip Gauge by Comparison Method	0 to 100 mm	29 µm
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ULM and Gauge Block by Comparison Method	1 mm to 100 mm	1.6 µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ULM and Gauge Block by Comparison Method	100 mm to 280 mm	3.7 µm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM, T Shaped Stylus and Master Ring by Comparison Method	4 mm to 100 mm	2.8 µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Video Measuring Machine by Comparison Method	0.25 mm to 40 mm	15 µm

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174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod	Using Electronic Probe with DRO, Slip Gauge Blocks and Long Gauge Blocks by Comparison Method	25 mm to 275 mm	5.7 µm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod	Using Comparator Stand, Electronic Probe with DRO, Gauge Block and Long Gauge Block by Comparison Method	275 mm to 475 mm	6.9 µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone (Diameter/Height)	Using Digital Vernier Caliper by Comparison Method	0 to 300 mm	116 µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using ULM and Ring Gauge by Comparison Method	6 mm to 150 mm	2.8 µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level (L.C.: 0.01 mm/m)	Using Electronic Level and Tilting Table by Comparison Method	(±) 0.2 mm/m	12 µm
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness)	Using Electronic Probe with DRO by Comparison Method	0 to 1000 mm	15 µm

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180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge-Parallelism	Using Electronic Probe With DRO by Comparison Method	0 to 1000 mm	15 µm
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale/Taper Bore Gauge (Linear) (L.C.: 0.1 mm)	Using Video Measuring Machine by Comparison Method	1 mm to 60 mm	8.52 µm
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Diameter)	Using FCDM, Cylindrical Setting Master and Thread Measuring Wire by Comparison Method	7 mm to 100 mm	3.7 µm
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve/Flakiness Sieve	Using Video Measuring Machine by Comparison Method	1 mm to 4 mm	11.9 µm
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve/Flakiness Sieve	Using Digital Vernier Caliper by Comparison Method	4.75 mm to 300 mm	40.3 µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve/Flakiness Sieve	Using Video Measuring Machine by Comparison Method	45 µm to 800 µm	11.9 µm

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186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using ULM Machine by Direct Method	0.17 mm to 6.35 mm	1.2 µm
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angle)	Using Video Measuring Machine by Comparison Method	55° & 60°	10.6 minute of arc
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Video Measuring Machine by Comparison Method	0.25 mm to 10 mm	12.7 µm
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter)	Using ULM, Gauge Block Set and Thread Measuring Wire by Comparison Method	2.5 mm to 150 mm	2.6 µm
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Diameter)	Using ULM and Gauge Block Set by Comparison Method	2.5 mm to 150 mm	2.6 µm
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	Using ULM, T Shaped Stylus and Master Ring by Comparison Method	4 mm to 100 mm	2.9 µm

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192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.01 mm)	Using Slip Gauge Set by Comparison Method	0 to 500 mm	59 µm
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Flatness)	Using Electronic Probe with DRO and Surface Plate by Comparison Method	0 to 300 mm	10.5 µm
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Parallelism)	Using Test Mandrel, Electronic Probe with DRO and Surface Plate by Comparison Method	0 to 300 mm	10.5 µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Symmetricity)	Using Test Mandrel, Electronic Probe with DRO and Surface Plate by Comparison Method	0 to 300 mm	11.2 µm
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Depth Gauge (L.C.: 0.01 mm)	Using Slip Gauge Set, Holding Fixture and Surface Plate by Comparison Method	0 to 300 mm	13.5 µm
197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge/Hi-Lo Gauge/Bridge Cam Gauge/Limit Gauge/Inspection Jig and Fixture (Angle)	Using Video Measuring Machine by Comparison Method	0° to 360°	10.7 minute of arc

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198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Fillet Gauge/Template/Weld Gauge/Hi-Lo Gauge/Bridge Cam Gauge/Limit Gauge/CD Gauge/PCD Gauge/Flakiness Gauge/Elongation Gauge/Receiver Gauge	Using Video Measuring Machine by Comparison Method	0 to 150 mm	12.1 µm
199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness Gauge (Linear)	Using Video Measuring Machine by Comparison Method	25 µm to 3000 µm	8.72 µm
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Plug Gauge (Linear)	Using ULM and Gauge Block by Comparison Method	1 mm to 100 mm	1.6 µm
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge (Linear)	Using Video Measuring Machine by Comparison Method	0.15 mm to 10 mm	8.72 µm
202	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Comparator/Indicator with Probe/LVDT (L.C.: 0.0001 mm)	Using ULM by Comparison Method	0 to 25 mm	1.5 µm
203	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope (Linear Axis Movement) (L.C.: 0.01 mm)	Using Glass Scale by Comparison Method	0 to 200 mm	9 µm

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204	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope (Magnification)	Using Glass Scale and Gauge Block by Comparison Method	10 X to 100 X	2 %
205	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Portable) (Ra)	Using Surface Roughness Specimen by Direct Method	0.05 µm to 3.2 µm	16.2 %
206	MECHANICAL-DUROMETER	Shore/Rubber Hardness Tester (Type A)	Using Dial Calibration Tester by Indentation Depth Method as per ISO 18898: 2013, ASTM D2240	0 to 100 Shore	2.5 %rdg
207	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Pressure Gauge, Pressure Transmitter/Transducer, Differential Pressure Gauge/Transmitter, Pressure Switch, Manometer, Magnehelic Gauge	Using Digital Pressure Gauge/Digital Manometer, Pneumatic Pressure Pump and Digital Multimeter by Comparison Method	0 to 200 mbar	0.35 mbar
208	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Pressure Gauge, Pressure Transmitter/Transducer, Differential Pressure Gauge/Transmitter, Pressure Switch, Manometer, Magnehelic Gauge	Using Digital Pressure Gauge/Digital Manometer, Pneumatic Pressure Pump and Digital Multimeter by Comparison Method	0 to 25 mbar	0.045 mbar

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209	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Pressure Gauge, Pressure Transmitter/Transducer, Differential Pressure Gauge/Transmitter, Pressure Switch, Pressure Recorder	Using Digital Pressure Gauge, Pneumatic Pressure Pump and Digital Multimeter by Comparison Method	0 to 2 bar	0.0035 bar
210	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Pressure Gauge, Pressure Transmitter/Transducer, Pressure Switch, Pressure Recorder	Using Digital Pressure Gauge/Calibrator, Hydraulic Comparator Pump and Digital Multimeter by Comparison Method	0 to 1000 bar	1.66 bar
211	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Pressure Gauge, Pressure Transmitter/Transducer, Pressure Switch, Pressure Recorder	Using Digital Pressure Gauge, Pneumatic Pressure Pump and Digital Multimeter by Comparison Method	0 to 20 bar	0.048 bar
212	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Pressure Gauge, Pressure Transmitter/Transducer, Pressure Switch, Pressure Recorder	Using Digital Pressure Gauge/Calibrator, Hydraulic Comparator Pump and Digital Multimeter by Comparison Method	0 to 340 bar	0.22 bar

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213	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Pressure Gauge, Pressure Transmitter/Transducer, Pressure Switch, Pressure Recorder	Using Digital Pressure Gauge/Calibrator, Hydraulic Comparator Pump and Digital Multimeter by Comparison Method	0 to 686 bar	0.81 bar
214	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Vacuum Gauge, Vacuum Transmitter/Transducer, Vacuum Switch, Manometer	Using Digital Vacuum Gauge, Vacuum Pump and Digital Multimeter by Comparison Method	(-) 0.9 bar to 0 bar	0.0035 bar
215	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure Gauge/Pressure Transmitter/Barometer	Using Absolute Digital Pressure Gauge and Pneumatic Pump by Comparison Method	0 to 6 bar (abs)	0.05 bar (abs)
216	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Torque Driver, Type-I Class (B,C,D,E), Type II Class (A,B,D,E)	Using Torque Generating Machine and Torque Sensor With Indicator by Comparison Method as per ISO 6789: 2017	>20 Nm to 200 Nm	1.4 %rdg
217	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Torque Driver, Type-I Class (B,C,D,E), Type II Class (A,B,D,E)	Using Torque Generating Machine and Torque Sensor with Indicator by Comparison Method as per ISO 6789: 2017	>200 Nm to 2000 Nm	1.91 %rdg

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218	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Torque Driver, Type-I Class (B,C,D,E), Type II Class (A,B,D,E)	Using Torque Generating Machine and Torque Sensor with Indicator by Comparison Method as per ISO 6789: 2017	2 Nm to 20 Nm	1.99 %rdg
219	MECHANICAL-VOLUME	(Glass/Plastic) Measuring Cylinder/Jar/Jug/Can/ Volumetric Flask/Conical Flask/Specific Gravity Bottle/Beaker/Pycnometer	Using Digital Weighing Balance (1 g to 1000 g) Readability: 1 mg and Distilled Water by Gravimetric Method as per ISO 4787: 2021	>100 ml to 500 ml	0.25 ml
220	MECHANICAL-VOLUME	(Glass/Plastic) Measuring Cylinder/Jar/Jug/Can/ Volumetric Flask/Conical Flask/Specific Gravity Bottle/Beaker/Pycnometer	Using Digital Weighing Balance (1 mg to 220 g) Readability: 0.01 mg and Distilled Water by Gravimetric Method as per ISO 4787: 2021	>50 ml to 100 ml	15.2 µl
221	MECHANICAL-VOLUME	(Glass/Plastic) Measuring Cylinder/Jar/Jug/Can/ Volumetric Flask/Conical Flask/Specific Gravity Bottle/Beaker/Pycnometer	Using Digital Weighing Balance (1 mg to 220 g) Readability: 0.01 mg) and Distilled Water by Gravimetric Method as per ISO 4787: 2021	1 ml to 50 ml	4.5 µl

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222	MECHANICAL-VOLUME	(Glass/Plastic) Measuring Cylinder/Jar/Jug/Can/ Volumetric Flask/Conical Flask/Specific Gravity Bottle/Beaker/Pycnometer	Using Digital Weighing Balance (5 g to 6000 g) Readability: 10 mg and Distilled Water by Gravimetric Method as per ISO 4787: 2021	1000 ml to 5000 ml	1.42 ml
223	MECHANICAL-VOLUME	Glass Burette	Using Digital Weighing Balance (1 mg to 220 g) Readability: 0.01 mg and Distilled Water by Gravimetric Method as per ISO 4787: 2021	>10 ml to 100 ml	15.2 µl
224	MECHANICAL-VOLUME	Glass Burette	Using Digital Weighing Balance (1 mg to 220 g) Readability: 0.01 mg and Distilled Water by Gravimetric Method as per ISO 4787: 2021	1 ml to 10 ml	3.2 µl
225	MECHANICAL-VOLUME	Glass Pipette (Graduated/Non Graduated)	Using Digital Weighing Balance (1 mg to 220 g) Readability: 0.01 mg and Distilled Water by Gravimetric Method as per ISO 4787: 2021	>1 ml to 10 ml	3.2 µl

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226	MECHANICAL-VOLUME	Glass Pipette (Graduated/Non Graduated)	Using Digital Weighing Balance (1 mg to 220 g) Readability: 0.01 mg and Distilled Water by Gravimetric Method as per ISO 4787: 2021	>10 ml to 50 ml	4.5 µl
227	MECHANICAL-VOLUME	Glass Pipette (Graduated/Non Graduated)	Using Digital Weighing Balance (1 mg to 220 g) Readability: 0.01 mg and Distilled Water by Gravimetric Method as per ISO 4787: 2021	0.1 ml to 1 ml	0.4 µl
228	MECHANICAL-VOLUME	Piston Pipette/Micropipette/ Syringe (Non Medical Purpose Only)/Dilutor/Burette / Positive Displacement Pipette/Dispenser	Using Digital Weighing Balance (1 mg to 220 g) Readability: 0.01 mg and Distilled Water by Gravimetric Method as per ISO 8655: 2022	>1000 µl to 5000 µl	3.2 µl
229	MECHANICAL-VOLUME	Piston Pipette/Micropipette/ Syringe (Non Medical Purpose Only)/Dilutor/Burette /Positive Displacement Pipette/Dispenser	Using Digital Weighing Balance (1 mg to 220 g) Readability: 0.01 mg and Distilled Water by Gravimetric Method as per ISO 8655: 2022	>100 µl to 500 µl	0.5 µl

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230	MECHANICAL-VOLUME	Piston Pipette/Micropipette/ Syringe (Non Medical Purpose Only)/Dilutor/Burette /Positive Displacement Pipette/Dispenser	Using Digital Weighing Balance (1 mg to 220 g) Readability: 0.01 mg and Distilled Water by Gravimetric Method as per ISO 8655: 2022	>500 µl to 1000 µl	0.7 µl
231	MECHANICAL-VOLUME	Piston Pipette/Micropipette/ Syringe (Non Medical Purpose Only)/Dilutor/Burette /Positive Displacement Pipette/Dispenser	Using Digital Weighing Balance (1 mg to 220 g) Readability: 0.01 mg and Distilled Water by Gravimetric Method as per ISO 8655: 2022	20 µl to 100 µl	0.5 µl
232	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (L.C.: 10 g and Coarser)	Using F1 Class Weight by Comparison Method as per OIML R 76-1	1 kg to 100 kg	290 g
233	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 10 mg and Coarser (Class II and Coarser)	Using E2 Class Weight by Comparison Method as per OIML R 76-1	1 kg to 6 kg	8 mg
234	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 0.01 mg and Coarser (Class I and Coarser)	Using E1 Class Weight by Comparison Method as per OIML R 76-1	1 mg to 100 g	0.06 mg
235	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 0.001 mg and Coarser (Class I and Coarser)	Using E1 Class Weight by Comparison Method as per OIML R 76-1	1 mg to 5 g	0.01 mg

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236	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 0.01 mg and Coarser (Class I and Coarser)	Using E1 Class Weight by Comparison Method as per OIML R 76-1	>100 g to 220 g	0.1 mg
237	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 1 g and Coarser (Class III and Coarser)	Using F1 Class Weight by Comparison Method as per OIML R 76-1	20 kg to 100 kg	7 g
238	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 1 mg and Coarser (Class II and Coarser)	Using E2 Class Weight by Comparison Method as per OIML R 76-1	220 g to 1 kg	0.8 mg
239	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 100 mg and Coarser (Class II and Coarser)	Using E2 Class Weight by Comparison Method as per OIML R 76-1	6 kg to 20 kg	100 mg
240	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 20 g and Coarser (Class III and Coarser)	Using F1 Class Weight by Comparison Method as per OIML R 76-1	100 kg to 500 kg	66 g
241	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 50 g and Coarser (Class III and Coarser)	Using F1 Class Weight by Comparison Method as per OIML R 76-1	500 kg to 1000 kg	100 g
242	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	1 g	0.02 mg

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243	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	10 g	0.02 mg
244	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	100 g	0.1 mg
245	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	100 mg	0.01 mg
246	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	2 g	0.02 mg
247	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	20 g	0.02 mg
248	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	20 mg	0.01 mg

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249	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	200 g	0.11 mg
250	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	200 mg	0.01 mg
251	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	5 g	0.02 mg
252	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	50 g	0.02 mg
253	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	50 mg	0.01 mg
254	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	500 mg	0.01 mg

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255	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	1 kg	0.9 mg
256	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	1 mg	0.01 mg
257	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	10 kg	94 mg
258	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	10 mg	0.01 mg
259	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	2 kg	8.3 mg
260	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	2 mg	0.01 mg

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261	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	20 kg	82 mg
262	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	5 kg	8.3 mg
263	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	5 mg	0.01 mg
264	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	500 g	0.9 mg
265	MECHANICAL-WEIGHTS	Accuracy Class M2-3 & Coarser	Using F1 Class Weights by Substitution Method based on ABBA Cycle as per OIML R 111-1	50 kg	4.1 g
266	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (Flow Rate)	Using Gas Flow Analyzer by Direct Method	1 LPM to 50 LPM	2.66 %

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267	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Analogue/Digital Suction Pump (Vacuum Pressure)	Using Gas Flow Analyzer by Direct Method	(-) 600 mmHg to 0 mmHg	14.27 %
268	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.65 %
269	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
270	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
271	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
272	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (Inspiratory Time and Expiratory Time)	Using Gas Flow Analyzer by Direct Method	1 s to 10 s	2.3 %
273	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (Oxygen Percentage)	Using Gas Flow Analyzer by Direct Method	20 % to 90 %	2.5 %

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274	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (PEEP)	Using Gas Flow Analyzer by Direct Method	1 cmH2O to 30 cmH2O	2.75 %
275	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (PIP Pressure Accuracy)	Using Gas Flow Analyzer by Direct Method	1 cmH2O to 30 cmH2O	2.75 %
276	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (Respiration Rate)	Using Gas Flow Analyzer by Direct Method	6 BPM to 120 BPM	2.5 %
277	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (Volume Accuracy)	Using Gas Flow Analyzer by Direct Method	50 ml to 1000 ml	4.78 %
278	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
279	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP Machine (EPAP)	Using Gas Flow Analyzer by Direct Method	1 cmH2O to 30 cmH2O	7.78 %
280	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP Machine (IPAP)	Using Gas Flow Analyzer by Direct Method	1 cmH2O to 30 cmH2O	7.78 %

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281	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP Machine (RR)	Using Gas Flow Analyzer by Direct Method	6 BPM to 120 BPM	2.5 %
282	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP Machine (Ti)	Using Gas Flow Analyzer by Direct Method	1 s to 10 s	2.3 %
283	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BP Apparatus (Mercury, Aneroid and Digital) Sphygmomanometer (Pressure)	Using Vital Sign Simulator by Direct Method	10 mmHg to 300 mmHg	14.27 % to 1.63 %
284	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Flow Meter with Humidifier/Flowmeter/Oxygen Concentrator (Flow Rate)	Using Gas Flow Analyzer by Direct Method	1 LPM to 20 LPM	10.8 % to 2.7 %
285	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Medical Infusion Pump (Liquid Flow)	Using Infusion Device Analyser by Direct Method	10 ml/hr to 960 ml/hr	2.5 %
286	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Medical Infusion Pump (Liquid Volume)	Using Infusion Device Analyser by Direct Method	5 ml to 400 ml	2.7 %
287	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Medical Infusion Pump (Occlusion)	Using Infusion Device Analyser by Direct Method	1 Psi to 40 Psi	0.7 Psi

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288	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Medical Syringe Pump (Liquid Flow)	Using Infusion Device Analyser by Direct Method	10 ml/hr to 960 ml/hr	2.5 %
289	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Medical Syringe Pump (Liquid Volume)	Using Infusion Device Analyser by Direct Method	5 ml to 60 ml	2.7 %
290	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Medical Syringe Pump (Occlusion)	Using Infusion Device Analyser by Direct Method	1 Psi to 40 Psi	0.7 Psi
291	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Nebulizer Machine (Flow Rate)	Using Gas Flow Analyzer by Direct Method	5 LPM to 20 LPM	10.8 % to 1.08 %
292	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pressure Gauge of Oxygen Cylinder, Oxygen Gauge (Pressure)	Using Digital Pressure Gauge and Pneumatic Test Pressure Pump by Comparison Method	0 to 200 bar	2.9 %
293	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pulse Oxymeter (Heart Rate)	Using SpO2 Functional Tester by Direct Method	30 BPM to 180 BPM	5.65 %
294	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pulse Oxymeter (SpO2)	Using SpO2 Analyzer by Direct Method	70 % to 100 %	4.5 %

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295	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine (Amplitude)	Using Vital Sign Simulator by Direct Method	0.1 mV to 1.2 mV	5.8 %
296	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine (Heart Rate)	Using Vital Sign Simulator by Direct Method	30 BPM to 300 BPM	2.25 % to 1.17 %
297	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
298	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.42 %
299	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
300	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 240 V	2.5 %
301	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
302	MEDICAL DEVICES-IMAGING/PLOTTERS	EEG Machine Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	9.5 %
303	MEDICAL DEVICES-IMAGING/PLOTTERS	EEG Machine Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.65 %

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304	MEDICAL DEVICES-IMAGING/PLOTTERS	EEG Machine Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
305	MEDICAL DEVICES-IMAGING/PLOTTERS	EEG Machine Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
306	MEDICAL DEVICES-IMAGING/PLOTTERS	EEG Machine Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
307	MEDICAL DEVICES-IMAGING/PLOTTERS	Fetal Doppler Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
308	MEDICAL DEVICES-IMAGING/PLOTTERS	Fetal Doppler Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	2.5 %
309	MEDICAL DEVICES-IMAGING/PLOTTERS	Fetal Doppler Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
310	MEDICAL DEVICES-IMAGING/PLOTTERS	Fetal Doppler Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
311	MEDICAL DEVICES-IMAGING/PLOTTERS	Fetal Doppler Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
312	MEDICAL DEVICES-MONITORING UNIT	Baby Weighing Scale (Weight) (Readability: 1 g and Coarser)	Using F1 Class Standard Weights by Comparison Method	500 g to 15 kg	3.5 g

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313	MEDICAL DEVICES-MONITORING UNIT	Fetal Monitor Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
314	MEDICAL DEVICES-MONITORING UNIT	Fetal Monitor Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
315	MEDICAL DEVICES-MONITORING UNIT	Fetal Monitor Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.65 %
316	MEDICAL DEVICES-MONITORING UNIT	Fetal Monitor Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
317	MEDICAL DEVICES-MONITORING UNIT	Fetal Monitor Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
318	MEDICAL DEVICES-MONITORING UNIT	Hematology Analyser Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.47 % to 4.1 %
319	MEDICAL DEVICES-MONITORING UNIT	Hematology Analyser Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
320	MEDICAL DEVICES-MONITORING UNIT	Hematology Analyser Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method.	0.5 Mohm to 100 Mohm	3.65 %
321	MEDICAL DEVICES-MONITORING UNIT	Hematology Analyser Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method.	10 µA to 15 mA	16.17 % to 5 %

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322	MEDICAL DEVICES-MONITORING UNIT	Hematology Analyser Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
323	MEDICAL DEVICES-MONITORING UNIT	NIBP Leak Test (Pressure)	Using Vital Sign Simulator by Direct Method	0 to 15 mmHg/min	0.5 mmHg/min
324	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor (Heart Rate)	Using Vital Sign Simulator by Direct Method	30 BPM to 300 BPM	2.3 % to 1.17 %
325	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor (IBP)	Using Vital Sign Simulator by Direct Method	22 mmHg to 167 mmHg	8.1 % to 4.51 %
326	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor (NIBP Dynamic)	Using Vital Sign Simulator by Direct Method	22 mmHg to 167 mmHg	7.05 % to 1.89 %
327	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor (Respiration Rate)	Using Vital Sign Simulator by Direct Method	10 BPM to 150 BPM	8.25 % to 5.93 %
328	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor (SpO2)	Using SpO2 Functional Tester by Direct Method	70 % to 100 %	4.5 %
329	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor (Temperature)	Using Temperature Sensor with Indicator by Comparison Method	20 °C to 50 °C	0.75 °C
330	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %

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331	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
332	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	2.5 %
333	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
334	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
335	MEDICAL DEVICES-MONITORING UNIT	Patient Weighing Scale (Weight) (Readability: 10 g and Coarser)	Using F1 Class Standard Weights by Comparison Method	0 to 200 kg	7 g
336	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electro Surgical Unit/Diathermy Machine/Cautery Machine Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
337	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Autoclave (Pressure)	Using Digital Pressure Gauge and Pneumatic Hand Pump by Comparison Method	0 to 2 bar	0.34 %

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338	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Autoclave (Temperature)	Using Temperature Sensor and Data Logger by Comparison Method	110 °C to 135 °C	0.5 °C
339	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
340	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Machine (Discharge Time)	Using Defibrillator Analyzer by Direct Method	1 s to 90 s	0.59 s
341	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Machine (Heart Rate)	Using Defibrillator Analyzer by Direct Method	60 BPM to 300 BPM	1.52 % to 1.19 %
342	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Machine Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	9.5 %
343	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Machine Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.65 %

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

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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)(±)
344	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Machine Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
345	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Machine Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
346	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Machine, AED Machine (Output Energy)	Using Defibrillator Analyzer by Direct Method	10 J to 300 J	6.82 % to 2.99 %
347	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electro Surgical Unit/Diathermy Machine/Cautery Machine Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
348	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electro Surgical Unit/Diathermy Machine/Cautery Machine Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.65 %
349	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electro Surgical Unit/Diathermy Machine/Cautery Machine Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %

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

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350	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electronic Tourniquet (Pressure)	Using Vital Sign Simulator by Direct Method	10 mmHg to 390 mmHg	4.2 %
351	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electronic Tourniquet (Time)	Using Time Interval Meter by Comparison Method	1 minute to 60 minute	0.1 minute
352	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker/Dialysis Machine/Heart Lung Machine/Phototherapy Unit/Blood Gas Analyser/Electronic/ Mechanical Bed/Other Medical Device Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
353	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker/Dialysis Machine/Heart Lung Machine/Phototherapy Unit/Blood Gas Analyser/Electronic/ Mechanical Bed/Other Medical Device Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.65 %

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354	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker/Dialysis Machine/Heart Lung Machine/Phototherapy Unit/Blood Gas Analyser/Electronic/Mechanical Bed/Other Medical Device Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
355	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker/Dialysis Machine/Heart Lung Machine/Phototherapy Unit/Blood Gas Analyser/Electronic/Mechanical Bed/Other Medical Device Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
356	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker/Dialysis Machine/Heart Lung Machine/Phototherapy Unit/Blood Gas Analyser/Electronic/Mechanical Bed/Other Medical Device Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %

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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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357	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	OT Table Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
358	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	OT Table Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.65 %
359	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	OT Table Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
360	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	OT Table Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
361	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	OT Table Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
362	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Patient Warmer (Temperature)	Using Temperature Sensor with Indicator by Comparison Method	25 °C to 50 °C	0.5 °C

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363	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Radiant Warmer (Airflow)	Using Anemometer by Direct Method	0.3 m/s to 1 m/s	0.036 m/s
364	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Radiant Warmer (Humidity) @ 25 ºC	Using Temperature and Humidity Meter by Direct Method	20 %RH to 90 %RH	1.94 %RH
365	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Radiant Warmer (Sound Level) @ 1 kHz	Using Sound Level Meter by Direct Method	50 dB to 80 dB	1.1 dB
366	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Radiant Warmer (Temperature) @ (40 %RH to 70 %RH)	Using Data Logger with Temperature Sensor by Comparison Method	20 °C to 50 °C	0.58 °C
367	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine (Flow Rate)	Using Gas Flow Analyzer by Direct Method	1 LPM to 50 LPM	5.86 % to 2.52 %
368	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine (Inspiratory Time and Expiratory Time)	Using Gas Flow Analyzer by Direct Method	1 s to 10 s	14.45 %

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369	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine (Oxygen Percentage)	Using Gas Flow Analyzer by Direct Method	20 % to 90 %	3.21 %
370	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine (PEEP)	Using Gas Flow Analyzer by Direct Method	1 cmH2O to 40 cmH2O	3.3 %
371	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine (PIP Pressure Accuracy)	Using Gas Flow Analyzer by Direct Method	1 cmH2O to 40 cmH2O	5.81 %
372	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine (Respiration Rate)	Using Gas Flow Analyzer by Direct Method	6 BPM to 120 BPM	2.5 %
373	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine (Volume Accuracy)	Using Gas Flow Analyzer by Direct Method	50 ml to 1000 ml	7.91 %
374	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %

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375	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.65 %
376	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
377	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
378	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
379	THERMAL-SPECIFIC HEAT & HUMIDITY	Environment Chamber/Stability Chamber/Humidity Chamber/Cold Room (Multi Position) @ 25 °C	Using Portable Humidity and Temperature Data Logger (Minimum 9 Sensor) by Comparison Method	20 %RH to 90 %RH	2.7 %RH
380	THERMAL-SPECIFIC HEAT & HUMIDITY	Environment Chamber/Stability Chamber/Humidity Chamber/Cold Room (Multi Position) @ 50 %RH	Using Portable Humidity and Temperature Data Logger (Minimum 9 Sensor) by Comparison Method	15 °C to 50 °C	1.5 °C

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381	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor with Indicator of Environment Chambers/Stability Chamber/Humidity Chamber (Single Position) @ 50 %RH	Using Temperature and Humidity Meter with Humidity Chamber by Comparison Method	15 °C to 50 °C	0.7 °C
382	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor with Indicator of Environment Chambers/Stability Chamber/Humidity Chamber (Single Position) @ 25 °C	Using Temperature and Humidity Meter, Temperature and Humidity Chamber by Comparison Method	20 %RH to 95 %RH	1.5 %RH
383	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermohygrometer/ Temperature and RH Sensor/RH Indicator with Sensor/RH Transmitter/Portable Data Logger @ 25 °C	Using Temperature and Humidity Meter with Humidity Chamber by Comparison Method	20 %RH to 95 %RH	1.75 %RH
384	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermohygrometer/ Temperature and RH Sensor/RH Indicator with Sensor/RH Transmitter/Portable Data Logger @ 50 %RH	Using Temperature and Humidity Meter with Humidity Chamber by Comparison Method	15 °C to 50 °C	0.88 °C
385	THERMAL-TEMPERATURE	Deep Freezer/Cold Chamber/Refrigerator/Water Bath/ETO Machine/COD Chamber/BOD Incubator/Furnace(Non Medical Purpose Only)(Multi Position)	Using Standard RTD Sensor (Minimum 9 Sensor) with Data Logger by Comparison Method	(-) 80 °C to 200 °C	1.8 °C

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386	THERMAL-TEMPERATURE	Incubator (Non Medical Purpose Only) (Multi Position)	Using Standard RTD Sensor (Minimum 9 Sensor) with Data Logger by Comparison Method	0 °C to 50 °C	2.11 °C
387	THERMAL-TEMPERATURE	Infrared Thermometer/Pyrometer/IR Sensor with Indicator/Thermal Imager (For Temperature Only)	Using Digital Non Contact Pyrometer and Black Body Source (Emissivity: 0.95) by Comparison Method	>200 °C to 500 °C	4.5 °C
388	THERMAL-TEMPERATURE	Infrared Thermometer/Pyrometer/IR Sensor with Indicator/Thermal Imager (For Temperature Only)	Using Digital Non Contact Pyrometer and Black Body Source (Emissivity: 0.99) by Comparison Method	>500 °C to 1200 °C	4.95 °C
389	THERMAL-TEMPERATURE	Infrared Thermometer/Pyrometer/IR Sensor with Indicator/Thermal Imager (For Temperature Only)	Using Digital Non Contact Pyrometer and Black Body Source (Emissivity: 0.95) by Comparison Method	50 °C to 200 °C	3.46 °C
390	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using PRT with Digital Indicator, Oil Bath by Comparison Method	(-) 30 °C to 123 °C	0.69 °C
391	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using Oil Bath, PRT with Digital Indicator by Comparison Method	>123 °C to 300 °C	1.38 °C
392	THERMAL-TEMPERATURE	Oven\Autoclave (Non Medical Purpose Only) (Multi Position)	Using Standard RTD Sensor (Minimum 9 Sensor) with Data Logger by Comparison Method	30 °C to 300 °C	2.5 °C

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393	THERMAL-TEMPERATURE	Ovens, Furnace (Multi Position)	Using Standard N Type Thermocouple (Minimum 9 Sensor) with Data Logger by Comparison Method	200 °C to 1200 °C	4.9 °C
394	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicator/Thermometer with Sensor/Temperature Gauge/Recorder/Transmitter with Sensor/Temperature Switch with Indicator	Using PRT with Digital Indicator, Oil Temperature Bath and 6½ Digital Multimeter by Comparison Method	(-) 80 °C to 123 °C	0.39 °C
395	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicator/Thermometer with Sensor/Temperature Gauge/Recorder/Transmitter with Sensor/Temperature Switch with Indicator	Using PRT with Digital Indicator, Dry Block Temperature Bath and 6½ Digital Multimeter by Comparison Method	>123 °C to 300 °C	0.48 °C
396	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicator/Thermometer with Sensor/Temperature Gauge/Recorder/Transmitter with Sensor/Temperature Switch with Indicator	Using PRT with Digital Indicator, Dry Block Temperature Bath and 6½ Digital Multimeter by Comparison Method	>300 °C to 600 °C	0.93 °C
397	THERMAL-TEMPERATURE	Sensor with Indicator of Liquid Bath, Dry Block Bath, Oven, Furnace (Single Position)	Using PRT with Digital Indicator by Comparison Method	250 °C to 600 °C	0.48 °C

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398	THERMAL-TEMPERATURE	Sensor with Indicator of Liquid Bath, Freezer, Dry Block Bath, Cold Room, Environmental Chamber, Refrigerators, Incubators, Ovens, Deep Freezer (Non Medical Purpose Only) (Single Position)	Using PRT with Digital Indicator by Comparison Method	(-) 80 °C to 50 °C	0.41 °C
399	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Dry Block Bath, Muffle Furnace (Single Position)	Using R Type Thermocouple with Digital Indicator by Comparison Method	600 °C to 1200 °C	2.8 °C
400	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven, Water Bath, COD Chamber, BOD Incubator, Dry Block Bath ,ETO Machine, Autoclave (Non Medical Purpose Only) (Single Position)	Using PRT with Digital Indicator by Comparison Method	50 °C to 250 °C	0.5 °C
401	THERMAL-TEMPERATURE	Thermocouple with or without Indicator/Thermometer with Sensor/Temperature Gauge/Recorder/Transmitter with Sensor	Using Dry Block Temperature Bath, R Type Thermocouple Sensor with Digital Indicator and 6½ Digital Multimeter by Comparison Method	600 °C to 1200 °C	2.77 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 A to 10 A	0.3 % to 0.4 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 mA to 100 mA	0.4 % to 0.34 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mA to 1 A	0.34 % to 0.3 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 40 kV	3.2 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 5 kV	1.9 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 mV to 10 mV	4.7 % to 0.66 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 V to 1000 V	0.1 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.66 % to 0.15 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mV to 1 V	0.15 % to 0.1 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase AC Power @ 50 Hz (40 V to 600 V, 0.01 A to 20 A, 0.5 PF Lag/Lead to UPF)	Using Multiproduct Calibrator by Direct Method	20 W to 4800 W	1 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3 Phase Energy @ 50 Hz (50 V to 300 V, 1 A to 6 A, (0.5 PF Lead/Lag to UPF)	Using 3 Phase Power/Energy Calibrator by Direct Method	25 Wh to 900 Wh	1 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3 Phase Power @ 50 Hz (50 V to 300 V, 1 A to 6 A, 0.5 PF Lead/Lag to UPF)	Using 3 Phase Power/Energy Calibrator by Direct Method	75 W to 5400 W	0.34 % to 0.4 %

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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	1 A to 20 A	0.1 % to 0.24 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	100 µA to 100 mA	0.27 % to 0.08 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	100 mA to 1 A	0.08 % to 0.1 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with Current Coil by Direct Method	20 A to 1000 A	2.4 % to 1.6 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	30 µA to 100 µA	0.62 % to 0.27 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	1 mV to 10 mV	2.8 % to 0.36 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	1 V to 10 V	0.2 % to 0.13 %

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	10 mV to 100 mV	0.36 % to 0.08 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	10 V to 100 V	0.13 % to 0.07 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	100 mV to 1 V	0.08 % to 0.2 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	100 V to 1000 V	0.07 % to 0.08 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	1 nF to 100 µF	1.2 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	1.2 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (50 V to 250 V, 1 A to 5 A)	Using 3 Phase Power/Energy Calibrator by Direct Method	0.5 PF (Lag/Lead) to UPF	0.012 PF

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27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	1 µA to 100 µA	3.6 % to 0.3 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	1 A to 10 A	0.1 % to 0.25 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	1 mA to 100 mA	0.08 % to 0.07 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 µA to 1 mA	0.3 % to 0.08 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 mA to 1 A	0.07 % to 0.1 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 40 kV	2.4 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 5 kV	1.3 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 mV	0.4 % to 0.012 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 V to 1000 V	0.1 % to 0.01 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 mV to 1 V	0.012 % to 0.1 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct method	1 ohm to 1 Gohm	0.7 % to 3.06 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	1 µA to 10 µA	3.3 % to 0.28 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	1 A to 20 A	0.12 % to 0.08 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	10 µA to 100 µA	0.28 % to 0.06 %

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41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	10 mA to 100 mA	0.024 % to 0.039 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	100 µA to 10 mA	0.06 % to 0.024 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	100 mA to 1 A	0.039 % to 0.12 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.05 % to 1.05 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance (4 Wire) Discrete	Using 4 Wire Low Resistance Standard by Direct Method	1 mohm	0.24 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance (4 Wire) Discrete	Using 4 Wire Low Resistance Standard by Direct Method	10 mohm	0.17 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance (4 Wire) Discrete	Using 4 Wire Low Resistance Standard by Direct Method	10 µohm	5.78 %

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48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance (4 Wire) Discrete	Using 4 Wire Low Resistance Standard by Direct Method	100 mohm	0.16 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance (4 Wire) Discrete	Using 4 Wire Low Resistance Standard by Direct Method	100 µohm	0.6 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance (4 Wire) Discrete	Using 4 Wire Low Resistance Standard by Direct Method	1000 mohm	0.14 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance (4 Wire) Discrete	Using 4 Wire Low Resistance Standard by Direct Method	50 µohm	1.26 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (1 V to 1000 V, 1 A to 20 A)	Using Multiproduct Calibrator by Direct Method	1 W to 20000 W	4.5 % to 1 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct Calibrator by Direct Method	1 kohm to 100 kohm	0.23 % to 0.02 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct Calibrator by Direct Method	1 Mohm to 100 Mohm	0.2 % to 0.58 %

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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct Calibrator by Direct Method	1 ohm to 100 ohm	0.84 % to 0.02 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct Calibrator by Direct Method	100 kohm to 1 Mohm	0.02 % to 0.2 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct Calibrator by Direct Method	100 Mohm to 1000 Mohm	0.58 % to 1.73 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct Calibrator by Direct Method	100 ohm to 1 kohm	0.02 % to 0.23 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	1 mV to 10 mV	0.5 % to 0.08 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	1 V to 10 V	0.04 % to 0.032 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	10 mV to 100 mV	0.08 % to 0.03 %

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62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	10 V to 100 V	0.032 % to 0.047 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	100 mV to 1 V	0.03 % to 0.04 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	100 V to 1000 V	0.047 % to 0.036 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ Up to 5000 V	Using High Resistance Jig by Direct Method	100 Gohm	9.8 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ Up to 5000 V	Using High Resistance Jig by Direct Method	1000 Gohm	9.8 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ Up to 5000 V	Using High Resistance Jig by Direct Method	500 Gohm	9.8 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ Up to 1000 V (2 Wire)	Using High Resistance Jig by Direct Method	1 Gohm to 100 Gohm	1.73 % to 8.25 %

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69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ Up to 1000 V (2 Wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 1000 Mohm	5.8 % to 1.73 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ Up to 5000 V (2 Wire)	Using High Resistance Jig by Direct Method	10 Gohm	8.25 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ Up to 5000 V (2 Wire)	Using High Resistance Jig by Direct Method	5 Mohm	4.7 %
72	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter (1 µS to 10000 µS)	Using Decade Resistance Box by Simulation Method	100 ohm to 1 Mohm	2 %
73	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Amplitude)	Using Multiproduct Calibrator with Scope Option by Direct Method	1 mVDC to 33 VDC	9.2 % to 1.3 %
74	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Bandwidth)	Using Multiproduct Calibrator by Direct Method	50 kHz to 300 MHz	6.9 %
75	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Horizontal Deflection (Time Base)	Using Multiproduct Calibrator by Direct Method	10 ns to 1 s	0.92 %

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76	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Vertical Deflection (Square Wave @ 1 kHz & DC Function)	Using Multiproduct Calibrator by Direct Method	5 mV to 55 V	4 % to 2.13 %
77	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter (0 to 14 pH)	Using Advance Modular Calibrator by Direct Method	(-) 440 mV to 440 mV	1.8 %
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Multiproduct Calibrator by Direct Method	600 °C to 1800 °C	0.74 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.63 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.7 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	L Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 900 °C	0.7 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.72 °C

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83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Multiproduct Calibrator by Direct Method	100 °C to 1750 °C	0.85 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using 6½ Digital Multimeter by Direct Method	(-) 200 °C to 600 °C	0.27 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multiproduct Calibrator by Direct Method	100 °C to 1750 °C	0.76 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 400 °C	0.9 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Multiproduct Calibrator by Direct Method	600 °C to 1800 °C	0.8 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.63 °C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.7 °C

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90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	L Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 900 °C	0.7 °C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.72 °C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multiproduct Calibrator by Direct Method	0 °C to 1700 °C	0.86 °C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 800 °C	0.28 °C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Multiproduct Calibrator by Direct Method	0 °C to 1750 °C	0.76 °C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 400 °C	0.9 °C
96	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	10 Hz to 100 kHz	0.03 % to 0.2 %

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97	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency @ 100 mV	Using 6½ Digital Multimeter by Direct Method	100 kHz to 1 MHz	0.2 % to 0.1 %
98	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	1 hr to 24 hr	0.44 s to 25 s
99	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	1 s to 1 hr	0.35 s to 0.44 s
100	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	10 Hz to 100 kHz	0.2 % to 0.07 %
101	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency @ 100 mV	Using Multiproduct Calibrator by Direct Method	100 kHz to 1 MHz	0.2 % to 2 %
102	FLUID FLOW-FLOW MEASURING DEVICES	Analogue/Digital Liquid Flow Meter, Flow Transmitter	Using Ultrasonic Flow Meter by Comparison Method	0.5 m^3/hr to 500 m^3/hr	2.15 %rdg
103	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate Of Analog/Digital Rotameter, Air Flow Calibrator, Digital Air Flow Meter/Dry Gas Meter/Flow of Data Logger	Using LFE Gas Flow Calibrator by Comparison Method	>5 LPM to 50 LPM	3.3 %rdg

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104	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate of Analog/Digital Rotameter, Air Flow Calibrator, Digital Air Flow Meter/Dry Gas Meter/Flow of Data Logger	Using LFE Gas Flow Calibrator by Comparison Method	0.5 LPM to 5 LPM	4 %rdg
105	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate of Analog/Digital Rotameter, Air Flow Calibrator, Digital Air Flow Meter/Dry Gas Meter/Flow of Data Logger	Using Orifice Flow Calibrator by Comparison Method	50 LPM to 100 LPM	4.39 %rdg
106	FLUID FLOW-FLOW MEASURING DEVICES	Orifice Manometer Flow Rate of HVS/Respirable Dust Sampler	Using Top Load Calibrator by Comparison Method	0.9 m^3/minute to 1.4 m^3/minute	5 %rdg
107	MECHANICAL-ACCELERATION AND SPEED	Stirrer/RPM Source/Centrifuge Machine	Using Digital Tachometer by Direct Method	>1000 RPM to 5000 RPM	0.19 %
108	MECHANICAL-ACCELERATION AND SPEED	Stirrer/RPM Source/Centrifuge Machine	Using Digital Tachometer by Direct Method	>5000 RPM to 20000 RPM	0.31 %
109	MECHANICAL-ACCELERATION AND SPEED	Stirrer/RPM Source/Centrifuge Machine	Using Digital Tachometer by Direct Method	50 RPM to 1000 RPM	5.8 %
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite / Cast Iron)	Using Electronic Level by Comparison Method	3000 mm x 3000 mm	3.5 x Sqrt{(L+W)/125} µm, where L and W is in mm
111	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine (L.C.: 0.0001 mm)	Using Gauge Block Set by Direct Method	0 to 100 mm	1.1 µm

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112	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular) (L.C.: 1 s)	Using Angle Gauge Set by Direct Method	0° to 360°	5.5 minute of arc
113	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Digital Caliper and Gauge Block Set by Direct Method	10 X to 100 X	6.5 %
114	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector 9Linear) X & Y Axis (L.C.: 0.0001 mm)	Using Gauge Block Set by Direct Method	0 to 300 mm	7.5 µm
115	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Vision/Video Measuring Machine (Angular) (L.C.: 1 s)	Using Angle Gauge Set by Direct Method	0° to 360°	5.5 minute of arc
116	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Vision/Video Measuring Machine (Linear) X & Y Axis (L.C.: 0.0001 mm)	Using Gauge Block Set by Direct Method	0 to 300 mm	7.5 µm
117	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Block by Indirect Method as per IS 1500 (Part 2): 2021	HBW 10/3000	3.5 %rdg
118	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Block by Indirect Method as per IS 1500 (Part 2): 2021	HBW 2.5/187.5	3.45 %rdg
119	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Block by Indirect Method as per IS 1500 (Part 2): 2021	HBW 5/750	3.36 %rdg

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120	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Block by Indirect Method as per IS 1586 (Part 2): 2018	HRBW	2.69 HRBW
121	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Block by Indirect Method as per IS 1586 (Part 2): 2018	HRC	2.67 HRC
122	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Block by Indirect Method as per IS 1501 (Part 2): 2020	HV 10	4.5 %rdg
123	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Block by Indirect Method as per IS 1501 (Part 2): 2020	HV 20	4.29 %rdg
124	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Block by Indirect Method as per IS 1501 (Part 2): 2020	HV 30	4.42 %rdg
125	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Block by Indirect Method as per IS 1501 (Part 2): 2020	HV 50	4.47 %rdg

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126	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Pressure Gauge, Pressure Transmitter/Transducer, Differential Pressure Gauge/Transmitter, Pressure Switch, Manometer, Magnehelic Gauge	Using Digital Pressure Gauge/Digital Manometer, Pneumatic Pressure Pump and Digital Multimeter by Comparison Method	0 to 200 mbar	0.35 mbar
127	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Pressure Gauge, Pressure Transmitter/Transducer, Differential Pressure Gauge/Transmitter, Pressure Switch, Manometer, Magnehelic Gauge	Using Digital Pressure Gauge/Digital Manometer, Pneumatic Pressure Pump and Digital Multimeter by Comparison Method	0 to 25 mbar	0.045 mbar
128	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Pressure Gauge, Pressure Transmitter/Transducer, Differential Pressure Gauge/Transmitter, Pressure Switch, Pressure Recorder	Using Digital Pressure Gauge, Pneumatic Pressure Pump and Digital Multimeter by Comparison Method	0 to 2 bar	0.0035 bar
129	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Pressure Gauge, Pressure Transmitter/Transducer, Pressure Switch, Pressure Recorder	Using Digital Pressure Gauge/Calibrator, Hydraulic Comparator Pump and Digital Multimeter by Comparison Method	0 to 1000 bar	1.66 bar

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130	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Pressure Gauge, Pressure Transmitter/Transducer, Pressure Switch, Pressure Recorder	Using Digital Pressure Gauge, Pneumatic Pressure Pump and Digital Multimeter by Comparison Method	0 to 20 bar	0.048 bar
131	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Pressure Gauge, Pressure Transmitter/Transducer, Pressure Switch, Pressure Recorder	Using Digital Pressure Gauge/Calibrator, Hydraulic Comparator Pump and Digital Multimeter by Comparison Method	0 to 340 bar	0.22 bar
132	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Pressure Gauge, Pressure Transmitter/Transducer, Pressure Switch, Pressure Recorder	Using Digital Pressure Gauge/Calibrator, Hydraulic Comparator Pump and Digital Multimeter by Comparison Method	0 to 686 bar	0.81 bar
133	MECHANICAL-PRESSURE INDICATING DEVICES	(Analog/Digital) Vacuum Gauge, Vacuum Transmitter/Transducer, Vacuum Switch, Manometer	Using Digital Vacuum Gauge, Vacuum Pump and Digital Multimeter by Comparison Method	(-) 0.9 bar to 0 bar	0.0035 bar
134	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure Gauge/Pressure Transmitter/Barometer	Using Absolute Digital Pressure Gauge and Pneumatic Pump by Comparison Method	0 to 6 bar (abs)	0.05 bar (abs)

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135	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine (Compression)	Using Force Proving Instruments (Load Cell with Indicator) by Comparison Method as per IS 1828 (Part 1): 2022	25 N to 1000 kN	0.95 %rdg
136	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine (Tension)	Using Force Proving Instruments (Load Cell with Indicator) by Comparison Method as per IS 1828 (Part 1): 2022	25 N to 50 kN	0.95 %rdg
137	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (L.C.: 10 g and Coarser)	Using F1 Class Weight by Comparison Method as per OIML R 76-1	1 kg to 100 kg	290 g
138	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 10 mg and Coarser (Class II and Coarser)	Using E2 Class Weight by Comparison Method as per OIML R 76-1	1 kg to 6 kg	8 mg
139	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 0.01 mg and Coarser (Class I and Coarser)	Using E1 Class Weight by Comparison Method as per OIML R 76-1	1 mg to 100 g	0.06 mg
140	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 0.001 mg and Coarser (Class I and Coarser)	Using E1 Class Weight by Comparison Method as per OIML R 76-1	1 mg to 5 g	0.01 mg
141	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 0.01 mg and Coarser (Class I and Coarser)	Using E1 Class Weight by Comparison Method as per OIML R 76-1	>100 g to 220 g	0.1 mg

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142	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 1 g and Coarser (Class III and Coarser)	Using F1 Class Weight by Comparison Method as per OIML R 76-1	20 kg to 100 kg	7 g
143	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 1 mg and Coarser (Class II and Coarser)	Using E2 Class Weight by Comparison Method as per OIML R 76-1	220 g to 1 kg	0.8 mg
144	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 100 mg and Coarser (Class II and Coarser)	Using E2 Class Weight by Comparison Method as per OIML R 76-1	6 kg to 20 kg	100 mg
145	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 20 g and Coarser (Class III and Coarser)	Using F1 Class Weight by Comparison Method as per OIML R 76-1	100 kg to 500 kg	66 g
146	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 50 g and Coarser (Class III and Coarser)	Using F1 Class Weight by Comparison Method as per OIML R 76-1	500 kg to 1000 kg	100 g
147	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (Flow Rate)	Using Gas Flow Analyzer by Direct Method	1 LPM to 50 LPM	2.66 %
148	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Analogue/Digital Suction Pump (Vacuum Pressure)	Using Gas Flow Analyzer by Direct Method	(-) 600 mmHg to 0 mmHg	14.27 %

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149	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.65 %
150	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
151	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
152	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
153	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (Inspiratory Time and Expiratory Time)	Using Gas Flow Analyzer by Direct Method	1 s to 10 s	2.3 %
154	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (Oxygen Percentage)	Using Gas Flow Analyzer by Direct Method	20 % to 90 %	2.5 %
155	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (PEEP)	Using Gas Flow Analyzer by Direct Method	1 cmH2O to 30 cmH2O	2.75 %

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156	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (PIP Pressure Accuracy)	Using Gas Flow Analyzer by Direct Method	1 cmH2O to 30 cmH2O	2.75 %
157	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (Respiration Rate)	Using Gas Flow Analyzer by Direct Method	6 BPM to 120 BPM	2.5 %
158	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (Volume Accuracy)	Using Gas Flow Analyzer by Direct Method	50 ml to 1000 ml	4.78 %
159	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
160	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP Machine (EPAP)	Using Gas Flow Analyzer by Direct Method	1 cmH2O to 30 cmH2O	7.78 %
161	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP Machine (IPAP)	Using Gas Flow Analyzer by Direct Method	1 cmH2O to 30 cmH2O	7.78 %
162	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP Machine (RR)	Using Gas Flow Analyzer by Direct Method	6 BPM to 120 BPM	2.5 %

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163	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP Machine (Ti)	Using Gas Flow Analyzer by Direct Method	1 s to 10 s	2.3 %
164	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BP Apparatus (Mercury, Aneroid and Digital) Sphygmomanometer (Pressure)	Using Vital Sign Simulator by Direct Method	10 mmHg to 300 mmHg	14.27 % to 1.63 %
165	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Flow Meter with Humidifier/Flowmeter/Oxygen Concentrator (Flow Rate)	Using Gas Flow Analyzer by Direct Method	1 LPM to 20 LPM	10.8 % to 2.7 %
166	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Medical Infusion Pump (Liquid Flow)	Using Infusion Device Analyser by Direct Method	10 ml/hr to 960 ml/hr	2.5 %
167	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Medical Infusion Pump (Liquid Volume)	Using Infusion Device Analyser by Direct Method	5 ml to 400 ml	2.7 %
168	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Medical Infusion Pump (Occlusion)	Using Infusion Device Analyser by Direct Method	1 Psi to 40 Psi	0.7 Psi
169	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Medical Syringe Pump (Liquid Flow)	Using Infusion Device Analyser by Direct Method	10 ml/hr to 960 ml/hr	2.5 %

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170	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Medical Syringe Pump (Liquid Volume)	Using Infusion Device Analyser by Direct Method	5 ml to 60 ml	2.7 %
171	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Medical Syringe Pump (Occlusion)	Using Infusion Device Analyser by Direct Method	1 Psi to 40 Psi	0.7 Psi
172	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Nebulizer Machine (Flow Rate)	Using Gas Flow Analyzer by Direct Method	5 LPM to 20 LPM	10.8 % to 1.08 %
173	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pressure Gauge of Oxygen Cylinder, Oxygen Gauge (Pressure)	Using Digital Pressure Gauge and Pneumatic Test Pressure Pump by Comparison Method	0 to 200 bar	2.9 %
174	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pulse Oxymeter (Heart Rate)	Using SpO2 Functional Tester by Direct Method	30 BPM to 180 BPM	5.65 %
175	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pulse Oxymeter (SpO2)	Using SpO2 Analyzer by Direct Method	70 % to 100 %	4.5 %
176	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine (Amplitude)	Using Vital Sign Simulator by Direct Method	0.1 mV to 1.2 mV	5.8 %

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177	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine (Heart Rate)	Using Vital Sign Simulator by Direct Method	30 BPM to 300 BPM	2.25 % to 1.17 %
178	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
179	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.42 %
180	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
181	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 240 V	2.5 %
182	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
183	MEDICAL DEVICES-IMAGING/PLOTTERS	EEG Machine Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	9.5 %
184	MEDICAL DEVICES-IMAGING/PLOTTERS	EEG Machine Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
185	MEDICAL DEVICES-IMAGING/PLOTTERS	EEG Machine Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %

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186	MEDICAL DEVICES-IMAGING/PLOTTERS	EEG Machine Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
187	MEDICAL DEVICES-IMAGING/PLOTTERS	Fetal Doppler Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
188	MEDICAL DEVICES-IMAGING/PLOTTERS	Fetal Doppler Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	2.5 %
189	MEDICAL DEVICES-IMAGING/PLOTTERS	Fetal Doppler Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
190	MEDICAL DEVICES-IMAGING/PLOTTERS	Fetal Doppler Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
191	MEDICAL DEVICES-IMAGING/PLOTTERS	Fetal Doppler Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
192	MEDICAL DEVICES-MONITORING UNIT	Baby Weighing Scale (Weight) (Readability: 1 g and Coarser)	Using F1 Class Standard Weights by Comparison Method	500 g to 15 kg	3.5 g
193	MEDICAL DEVICES-MONITORING UNIT	Fetal Monitor Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
194	MEDICAL DEVICES-MONITORING UNIT	Fetal Monitor Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %

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195	MEDICAL DEVICES-MONITORING UNIT	Fetal Monitor Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.65 %
196	MEDICAL DEVICES-MONITORING UNIT	Fetal Monitor Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
197	MEDICAL DEVICES-MONITORING UNIT	Fetal Monitor Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
198	MEDICAL DEVICES-MONITORING UNIT	Hematology Analyser Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.47 % to 4.1 %
199	MEDICAL DEVICES-MONITORING UNIT	Hematology Analyser Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
200	MEDICAL DEVICES-MONITORING UNIT	Hematology Analyser Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method.	0.5 Mohm to 100 Mohm	3.65 %
201	MEDICAL DEVICES-MONITORING UNIT	Hematology Analyser Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method.	10 µA to 15 mA	16.17 % to 5 %
202	MEDICAL DEVICES-MONITORING UNIT	Hematology Analyser Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
203	MEDICAL DEVICES-MONITORING UNIT	NIBP Leak Test (Pressure)	Using Vital Sign Simulator by Direct Method	0 to 15 mmHg/min	0.5 mmHg/min

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204	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor (Heart Rate)	Using Vital Sign Simulator by Direct Method	30 BPM to 300 BPM	2.3 % to 1.17 %
205	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor (IBP)	Using Vital Sign Simulator by Direct Method	22 mmHg to 167 mmHg	8.1 % to 4.51 %
206	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor (NIBP Dynamic)	Using Vital Sign Simulator by Direct Method	22 mmHg to 167 mmHg	7.05 % to 1.89 %
207	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor (Respiration Rate)	Using Vital Sign Simulator by Direct Method	10 BPM to 150 BPM	8.25 % to 5.93 %
208	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor (SpO2)	Using SpO2 Functional Tester by Direct Method	70 % to 100 %	4.5 %
209	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor (Temperature)	Using Temperature Sensor with Indicator by Comparison Method	20 °C to 50 °C	0.75 °C
210	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
211	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
212	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	2.5 %

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213	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
214	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
215	MEDICAL DEVICES-MONITORING UNIT	Patient Weighing Scale (Weight) (Readability: 10 g and Coarser)	Using F1 Class Standard Weights by Comparison Method	0 to 200 kg	7 g
216	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electro Surgical Unit/Diathermy Machine/Cautery Machine Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
217	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Autoclave (Pressure)	Using Digital Pressure Gauge and Pneumatic Hand Pump by Comparison Method	0 to 2 bar	0.34 %
218	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Autoclave (Temperature)	Using Temperature Sensor and Data Logger by Comparison Method	110 °C to 135 °C	0.5 °C
219	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %

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220	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Machine (Discharge Time)	Using Defibrillator Analyzer by Direct Method	1 s to 90 s	0.59 s
221	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Machine (Heart Rate)	Using Defibrillator Analyzer by Direct Method	60 BPM to 300 BPM	1.52 % to 1.19 %
222	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Machine Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	9.5 %
223	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Machine Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.65 %
224	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Machine Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
225	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Machine Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %

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226	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Machine, AED Machine (Output Energy)	Using Defibrillator Analyzer by Direct Method	10 J to 300 J	6.82 % to 2.99 %
227	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electro Surgical Unit/Diathermy Machine/Cautery Machine Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
228	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electro Surgical Unit/Diathermy Machine/Cautery Machine Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.65 %
229	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electro Surgical Unit/Diathermy Machine/Cautery Machine Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
230	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electronic Tourniquet (Pressure)	Using Vital Sign Simulator by Direct Method	10 mmHg to 390 mmHg	4.2 %
231	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electronic Tourniquet (Time)	Using Time Interval Meter by Comparison Method	1 minute to 60 minute	0.1 minute

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232	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker/Dialysis Machine/Heart Lung Machine/Phototherapy Unit/Blood Gas Analyser/Electronic/Mechanical Bed/Other Medical Device Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
233	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker/Dialysis Machine/Heart Lung Machine/Phototherapy Unit/Blood Gas Analyser/Electronic/Mechanical Bed/Other Medical Device Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.65 %
234	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker/Dialysis Machine/Heart Lung Machine/Phototherapy Unit/Blood Gas Analyser/Electronic/Mechanical Bed/Other Medical Device Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %

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235	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker/Dialysis Machine/Heart Lung Machine/Phototherapy Unit/Blood Gas Analyser/Electronic/Mechanical Bed/Other Medical Device Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
236	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker/Dialysis Machine/Heart Lung Machine/Phototherapy Unit/Blood Gas Analyser/Electronic/Mechanical Bed/Other Medical Device Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
237	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	OT Table Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
238	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	OT Table Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.65 %

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239	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	OT Table Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %
240	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	OT Table Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
241	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	OT Table Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
242	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Patient Warmer (Temperature)	Using Temperature Sensor with Indicator by Comparison Method	25 °C to 50 °C	0.5 °C
243	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Radiant Warmer (Airflow)	Using Anemometer by Direct Method	0.3 m/s to 1 m/s	0.036 m/s
244	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Radiant Warmer (Humidity) @ 25 ºC	Using Temperature and Humidity Meter by Direct Method	20 %RH to 90 %RH	1.94 %RH

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245	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Radiant Warmer (Sound Level) @ 1 kHz	Using Sound Level Meter by Direct Method	50 dB to 80 dB	1.1 dB
246	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Radiant Warmer (Temperature) @ (40 %RH to 70 %RH)	Using Data Logger with Temperature Sensor by Comparison Method	20 °C to 50 °C	0.58 °C
247	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine (Flow Rate)	Using Gas Flow Analyzer by Direct Method	1 LPM to 50 LPM	5.86 % to 2.52 %
248	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine (Inspiratory Time and Expiratory Time)	Using Gas Flow Analyzer by Direct Method	1 s to 10 s	14.45 %
249	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine (Oxygen Percentage)	Using Gas Flow Analyzer by Direct Method	20 % to 90 %	3.21 %
250	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine (PEEP)	Using Gas Flow Analyzer by Direct Method	1 cmH2O to 40 cmH2O	3.3 %

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251	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine (PIP Pressure Accuracy)	Using Gas Flow Analyzer by Direct Method	1 cmH2O to 40 cmH2O	5.81 %
252	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine (Respiration Rate)	Using Gas Flow Analyzer by Direct Method	6 BPM to 120 BPM	2.5 %
253	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine (Volume Accuracy)	Using Gas Flow Analyzer by Direct Method	50 ml to 1000 ml	7.91 %
254	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine Electrical Safety (Equipment AC Current) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.1 A to 10 A	5 %
255	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine Electrical Safety (Insulation Resistance) @ 500 V	Using Electrical Safety Analyzer by Direct Method	0.5 Mohm to 100 Mohm	3.65 %
256	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine Electrical Safety (Leakage Current)	Using Electrical Safety Analyzer by Direct Method	10 µA to 15 mA	16.17 % to 5 %

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257	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine Electrical Safety (Mains AC Voltage) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	90 V to 265 V	2.5 %
258	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator Machine Electrical Safety (Protective Earth Resistance)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	8.16 % to 4.1 %
259	THERMAL-SPECIFIC HEAT & HUMIDITY	Environment Chamber/Stability Chamber/Humidity Chamber/Cold Room (Multi Position) @ 25 °C	Using Portable Humidity and Temperature Data Logger (Minimum 9 Sensor) by Comparison Method	20 %RH to 90 %RH	2.7 %RH
260	THERMAL-SPECIFIC HEAT & HUMIDITY	Environment Chamber/Stability Chamber/Humidity Chamber/Cold Room (Multi Position) @ 50 %RH	Using Portable Humidity and Temperature Data Logger (Minimum 9 Sensor) by Comparison Method	15 °C to 50 °C	1.5 °C
261	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor with Indicator of Environment Chambers/Stability Chamber/Humidity Chamber (Single Position) @ 50 %RH	Using Temperature and Humidity Meter with Humidity Chamber by Comparison Method	15 °C to 50 °C	0.7 °C
262	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor with Indicator of Environment Chambers/Stability Chamber/Humidity Chamber (Single Position) @ 25 °C	Using Temperature and Humidity Meter, Temperature and Humidity Chamber by Comparison Method	20 %RH to 95 %RH	1.5 %RH

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263	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermohygrometer/ Temperature and RH Sensor/RH Indicator with Sensor/RH Transmitter/Portable Data Logger @ 25 °C	Using Temperature and Humidity Meter with Humidity Chamber by Comparison Method	20 %RH to 95 %RH	1.75 %RH
264	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermohygrometer/ Temperature and RH Sensor/RH Indicator with Sensor/RH Transmitter/Portable Data Logger @ 50 %RH	Using Temperature and Humidity Meter with Humidity Chamber by Comparison Method	15 °C to 50 °C	0.88 °C
265	THERMAL-TEMPERATURE	Deep Freezer/Cold Chamber/Refrigerator/Water Bath/ETO Machine/COD Chamber/BOD Incubator/Furnace(Non Medical Purpose Only)(Multi Position)	Using Standard RTD Sensor (Minimum 9 Sensor) with Data Logger by Comparison Method	(-) 80 °C to 200 °C	1.8 °C
266	THERMAL-TEMPERATURE	Incubator (Non Medical Purpose Only) (Multi Position)	Using Standard RTD Sensor (Minimum 9 Sensor) with Data Logger by Comparison Method	0 °C to 50 °C	2.11 °C
267	THERMAL-TEMPERATURE	Infrared Thermometer/Pyrometer/IR Sensor with Indicator/Thermal Imager (For Temperature Only)	Using Digital Non Contact Pyrometer and Black Body Source (Emissivity: 0.95) by Comparison Method	>200 °C to 500 °C	4.5 °C

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268	THERMAL-TEMPERATURE	Infrared Thermometer/Pyrometer/IR Sensor with Indicator/Thermal Imager (For Temperature Only)	Using Digital Non Contact Pyrometer and Black Body Source (Emissivity: 0.95) by Comparison Method	50 °C to 200 °C	3.46 °C
269	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using PRT with Digital Indicator, Oil Bath by Comparison Method	(-) 30 °C to 123 °C	0.69 °C
270	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using Oil Bath, PRT with Digital Indicator by Comparison Method	>123 °C to 300 °C	1.38 °C
271	THERMAL-TEMPERATURE	Oven\Autoclave (Non Medical Purpose Only) (Multi Position)	Using Standard RTD Sensor (Minimum 9 Sensor) with Data Logger by Comparison Method	30 °C to 300 °C	2.5 °C
272	THERMAL-TEMPERATURE	Ovens, Furnace (Multi Position)	Using Standard N Type Thermocouple (Minimum 9 Sensor) with Data Logger by Comparison Method	200 °C to 1200 °C	4.9 °C
273	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicator/Thermometer with Sensor/Temperature Gauge/Recorder/Transmitter with Sensor/Temperature Switch with Indicator	Using PRT with Digital Indicator, Oil Temperature Bath and 6½ Digital Multimeter by Comparison Method	(-) 30 °C to 123 °C	0.39 °C

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274	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicator/Thermometer with Sensor/Temperature Gauge/Recorder/Transmitter with Sensor/Temperature Switch with Indicator	Using PRT with Digital Indicator, Dry Block Temperature Bath and 6½ Digital Multimeter by Comparison Method	>123 °C to 300 °C	0.48 °C
275	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicator/Thermometer with Sensor/Temperature Gauge/Recorder/Transmitter with Sensor/Temperature Switch with Indicator	Using PRT with Digital Indicator, Dry Block Temperature Bath and 6½ Digital Multimeter by Comparison Method	>300 °C to 600 °C	0.93 °C
276	THERMAL-TEMPERATURE	Sensor with Indicator of Liquid Bath, Dry Block Bath, Oven, Furnace (Single Position)	Using PRT with Digital Indicator by Comparison Method	250 °C to 600 °C	0.48 °C
277	THERMAL-TEMPERATURE	Sensor with Indicator of Liquid Bath, Freezer, Dry Block Bath, Cold Room, Environmental Chamber, Refrigerators, Incubators, Ovens, Deep Freezer (Non Medical Purpose Only) (Single Position)	Using PRT with Digital Indicator by Comparison Method	(-) 80 °C to 50 °C	0.41 °C

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278	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Dry Block Bath, Muffle Furnace (Single Position)	Using R Type Thermocouple with Digital Indicator by Comparison Method	600 °C to 1200 °C	2.8 °C
279	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven, Water Bath, COD Chamber, BOD Incubator, Dry Block Bath ,ETO Machine, Autoclave (Non Medical Purpose Only) (Single Position)	Using PRT with Digital Indicator by Comparison Method	50 °C to 250 °C	0.5 °C
280	THERMAL-TEMPERATURE	Thermocouple with or without Indicator/Thermometer with Sensor/Temperature Gauge/Recorder/Transmitter with Sensor	Using Dry Block Temperature Bath, R Type Thermocouple Sensor with Digital Indicator and 6½ Digital Multimeter by Comparison Method	600 °C to 1200 °C	2.77 °C

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