National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

UNIVERSAL CALIBRATION SERVICES PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

PLOT NO-G-43/1&2, G-44/1&2, G-BLOCK, AJANTA NAGAR, MIDC, CHINCHWAD, PUNE, MAHARASHTRA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2412

Issue Date: 10/09/2024 **Valid Until:** 09/09/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: UNIVERSAL CALIBRATION SERVICES PRIVATE LIMITED

Signed for and on behalf of NABL

Anita Rani
Director

Chakravarthy T. Kannan
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : UNIVERSAL CALIBRATION SERVICES PRIVATE LIMITED, PLOT NO-G-43/1&2, G-44/1&2, G-BLOCK, AJANTA NAGAR, MIDC, CHINCHWAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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)	1Ø, AC Active Energy @ (50 Hz, UPF, 50 V to 240 V, 0.1 A to 5 A)	Using Energy Calibrator, Power Analyzer and Energy Source by Comparison Method	0.005 kWh to 1.2 kWh	1.18 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 3 Wire, AC Active Energy @ (50 Hz, UPF, 50 V to 240 V, 0.1 A to 5 A)	Using Energy Calibrator, Power Analyzer and Energy Source by Comparison Method	0.015 Wh to 3.6 kWh	1.18 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	1 A to 3 A	0.2 % to 0.41 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	100 µA to 1 A	0.55 % to 0.2 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.2 % to 0.3 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	10 A to 20 A	0.15 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 8½ Digit Multimeter by Direct Method	10 A to 20 A	0.15 % to 0.12 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	100 µA to 1 A	0.55 % to 0.2 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	200 µA to 1 mA	0.05 % to 0.09 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter by Direct Method	200 mA to 10 A	0.06 % to 0.15 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	1 mA to 200 mA	0.09 % to 0.06 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter by Direct Method	1 mA to 200 mA	0.09 % to 0.06 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	10 µA to 200 µA	0.3 % to 0.05 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter by Direct Method	10 µA to 200 µA	0.3 % to 0.05 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter by Direct Method	200 µA to 1 mA	0.05 % to 0.09 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	200 mA to 10 A	0.06 % to 0.15 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @ 50 Hz	Using Current Transformer, 6½ Digit Multimeter & Current Injector (Source) by Comparison Method	20 A to 2000 A	2.1 % to 2.46 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Divider & HV Source by Comparison Method	1 kV to 20 kV	2.4 % to 2.6 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 10 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	1 V to 1000 V	0.041 % to 0.02 %

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 10 kHz	Using 8½ Digit Multimeter by Direct Method	1 V to 1000 V	0.041 % to 0.02 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 10 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	10 mV to 200 mV	0.2 % to 0.025 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 10 kHz	Using 8½ Digit Multimeter by Direct Method	10 mV to 200 mV	0.2 % to 0.025 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 10 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	200 mV to 1 V	0.025 % to 0.041 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 10 kHz	Using 8½ Digit Multimeter by Direct Method	200 mV to 1 V	0.025 % to 0.041 %

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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 20 kHz	Using 6½ Digit Multimeter by Direct Method	10 mV to 1000 V	0.9 % to 0.15 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	10 mV to 20 V	0.33 % to 0.08 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100 kHz	Using 8½ Digit Multimeter by Direct Method	10 mV to 20 V	0.33 % to 0.08 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	20 V to 100 V	0.08 % to 0.79 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100 kHz	Using 8½ Digit Multimeter by Direct Method	20 V to 100 V	0.08 % to 0.79 %

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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 kHz	Using 6½ Digit Multimeter by Direct Method	10 mV to 700 V	0.75 % to 0.25 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Power @ (50 Hz to 60 Hz, 0.2 Lead / Lag to UPF, 30 V to 500 V, 0.01 A to 20 A)	Using Multiproduct Calibrator by Direct Method	60 mW to 10 kW	1.8 % to 0.38 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, AC Power @ (50 Hz to 60 Hz, 0.2 Lead / Lag to UPF, 30 V to 500 V, 0.01 A to 20 A)	Using Multiproduct Calibrator by Direct Method	180 mW to 30 kW	1.8 % to 0.38 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multiproduct Calibrator by Direct Method	30 µA to 330 mA	0.95 % to 1.04 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multiproduct Calibrator by Direct Method	330 mA to 10 A	1.04 % to 3.5 %

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35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	30 µA to 3 A	0.62 % to 0.09 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	3 A to 20 A	0.09 % to 0.21 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 60 Hz	Using Multiproduct Calibrator with Current Coil by Direct Method	10 A to 1000 A	0.51 % to 0.62 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 45 Hz	Using Multiproduct Calibrator by Direct Method	1 mV to 33 V	0.9 % to 0.05 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 100 kHz	Using Multiproduct Calibrator by Direct Method	30 mV to 330 mV	0.5 % to 0.15 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 100 kHz	Using Multiproduct Calibrator by Direct Method	330 mV to 330 V	0.15 % to 0.32 %

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41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 10 kHz	Using Multiproduct Calibrator by Direct Method	1 mV to 330 mV	0.8 % to 0.02 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 10 kHz	Using Multiproduct Calibrator by Direct Method	330 mV to 1000 V	0.02 % to 0.04 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multiproduct Calibrator by Direct Method	220 pF to 330 nF	5.89 % to 0.45 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multiproduct Calibrator by Direct Method	330 nF to 33 µF	0.45 % to 0.6 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 20 Hz	Using Multiproduct Calibrator by Direct Method	0.33 mF to 50 mF	0.654 % to 1.53 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 50 Hz	Using Multiproduct Calibrator by Direct Method	33 µF to 330 µF	0.6 % to 0.654 %

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47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Inductance Box by Direct Method	1 mH to 10 H	3 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ Digit Multimeter by Direct Method	1 nF to 10 mF	5.47 % to 1.93 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ Digit Multimeter by Direct Method	10 mF to 100 mF	1.93 % to 4.9 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	10 µA to 20 mA	0.052 % to 0.005 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter & Multifunction Calibrator by Comparison Method	100 µA to 100 mA	0.105 % to 0.07 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 10 A	0.07 % to 0.2 %

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53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with 6½ Digit Multimeter & DC Current Source by Comparison Method	20 A to 100 A	2.11 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	20 mA to 20 A	0.005 % to 0.059 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter & Multifunction Calibrator by Comparison Method	1 mV to 1 V	0.71 % to 0.085 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	0.085 % to 0.006 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct Method	10 µV to 1000 V	5.8 % to 0.0008 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	10 µV to 1000 V	5.84 % to 0.0008 %

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59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 100 ohm	0.15 % to 0.07 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter by Direct Method	100 µohm to 2 Mohm	0.5 % to 0.0015 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	100 ohm to 1 Gohm	0.07 % to 2.6 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter by Direct Method	2 Mohm to 20 Mohm	0.01 % to 0.0038 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire @ 200 V & 1000 V	Using 8½ Digit Multimeter by Direct Method	20 Mohm to 20 Gohm	0.0038 % to 0.3 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 100 ohm	0.15 % to 0.007 %

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65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter by Direct Method	1 ohm to 2 Mohm	0.5 % to 0.01 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	10 µA to 330 mA	0.25 % to 0.02 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	10 A to 20 A	0.07 % to 0.026 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.52 % to 0.64 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	330 mA to 10 A	0.02 % to 0.07 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	1 mV to 33 V	0.15 % to 0.002 %

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71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	33 V to 1000 V	0.002 % to 0.003 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multiproduct Calibrator by Direct Method	1 Mohm to 10 Mohm	5.77 % to 0.03 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multiproduct Calibrator by Direct Method	1 ohm to 1 Mohm	0.09 % to 5.77 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multiproduct Calibrator by Direct Method	10 Mohm to 330 Mohm	0.03 % to 0.35 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multiproduct Calibrator by Direct Method	330 Mohm to 1 Gohm	0.35 % to 0.2 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire @ 200 V & 1000 V	Using Standard Resistance Box by Direct Method	1 Gohm to 200 Gohm	3.55 % to 3.79 %

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77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multiproduct Calibrator by Direct Method	1 µohm to 1 Mohm	0.09 % to 5.77 %
78	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter	Using Multiproduct Calibrator by Simulation Method	1 µS (1 Mohm) to 100 mS/cm (1 ohm)	0.061 % to 2.88 %
79	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Amplitude	Using Multiproduct Calibrator by Direct Method	1 mV to 130 V	4.9 % to 0.35 %
80	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth	Using Multiproduct Calibrator by Direct Method	50 kHz to 1.1 GHz	4.88 %
81	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time	Using Multiproduct Calibrator by Direct Method	2 ns to 5 s	0.03 % to 0.6 %
82	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter	Using Multiproduct Calibrator by Simulation Method	0 pH {(-) 414.12 mV} to 14 pH (414.12 mV)	0.01 pH

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83	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Power Factor @ (50 Hz, 0.1 Lag / Lead to UPF, 240 V, 5 A)	Using Multiproduct Calibrator by Direct Method	0.1 PF to 1 PF	0.002 PF
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 800 °C	0.25 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using 8½ Digit Multimeter by Direct Method	100 °C to 1800 °C	0.6 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1000 °C	0.087 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1000 °C	0.08 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1200 °C	0.177 °C

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89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1300 °C	0.13 °C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using 8½ Digit Multimeter by Direct Method	0 °C to 1700 °C	0.6 °C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using 8½ Digit Multimeter by Direct Method	0 °C to 1700 °C	0.6 °C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 400 °C	0.14 °C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 800 °C	0.25 °C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Multiproduct Calibrator by Direct Method	450 °C to 1820 °C	0.8 °C

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95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.15 °C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.6 °C
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.6 °C
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.6 °C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multiproduct Calibrator by Direct Method	100 °C to 1700 °C	0.65 °C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multiproduct Calibrator by Direct Method	100 °C to 1700 °C	0.65 °C

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101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 400 °C	0.21 °C
102	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter by Direct Method	1 MHz to 10 MHz	0.016 % to 0.06 %
103	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 8½ Digit Multimeter by Direct Method	10 Hz to 1 MHz	0.06 % to 0.006 %
104	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 1000 kHz	0.068 %
105	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method	1 s to 1800 s	0.37 s to 1 s
106	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method	1800 s to 86400 s	1 s to 121 s

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107	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	1 MHz to 10 MHz	0.08 % to 0.15 %
108	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	10 Hz to 1 MHz	0.058 % to 0.08 %
109	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Tachometer - Contact Type	Using RPM Tachometer, RPM Generator by Comparison Method	10 rpm to 100 rpm	0.63 rpm
110	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Tachometer - Contact Type	Using RPM Tachometer, RPM Generator by Comparison Method	> 100 rpm to 1000 rpm	3.5 rpm
111	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Tachometer - Contact Type	Using RPM Tachometer, RPM Generator by Comparison Method	> 1000 rpm to 4000 rpm	10 rpm
112	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Tachometer - Non - Contact Type	Using Tachometer, RPM Generator by Comparison Method	10 rpm to 100 rpm	0.7 rpm
113	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Tachometer - Non - Contact Type	Using Tachometer, RPM Generator by Comparison Method	> 100 rpm to 4000 rpm	3.7 rpm

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114	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Tachometer - Non - Contact Type	Using Tachometer, RPM Generator by Comparison Method	> 4000 rpm to 90000 rpm	27.49 rpm
115	MECHANICAL-ACCELERATION AND SPEED	RPM of Stirrer	Using Tachometer by Direct Method	> 100 rpm to 4000 rpm	3.7 rpm
116	MECHANICAL-ACCELERATION AND SPEED	RPM of Stirrer	Using Tachometer by Direct Method	10 rpm to 100 rpm	0.844 rpm
117	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter, Acceleration Meter / Sensor - Acceleration (g) @ (79.58 Hz & 159.2 Hz)	Using Vibration Meter Calibrator by Direct Method as per ISO 16063-21	1 m/s^2 to 10 m/s^2	0.26 m/s^2
118	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter, Acceleration Meter / Sensor - Acceleration (g) @ 15.92 Hz	Using Vibration Meter Calibrator by Direct Method as per ISO 16063-21	1 m/s^2	0.08 m/s^2
119	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter, Acceleration Meter / Sensor - Acceleration (g) @ 636.6 Hz	Using Vibration Meter Calibrator by Direct Method as per ISO 16063-21	1 m/s^2	0.078 m/s^2

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120	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter, Acceleration Meter / Sensor - Displacement @ 100 Hz	Using Vibration Meter, Vibration Generator Calibrator by Comparison Method as per ISO 16063-21	0 to 145 µm	2.426 %
121	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter, Acceleration Meter / Sensor - Velocity @ 100 Hz	Using Vibration Meter, Vibration Generator by Comparison Method as per ISO 16063-21	0 to 20 mm/s	0.52 mm/s
122	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Generator Calibrator by Direct Method	94 dB & 114 dB	1.8 dB
123	MECHANICAL-DENSITY AND VISCOSITY	Viscosity Cup, Flow Cup	Using Viscosity Standard Liquids by Comparison Method	10 cSt to 500 cSt	2.1 %
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using 2D Electronic Height Gauge by Comparison Method	0.5 mm to 600 mm	10 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (L.C.: 5 minute of arc)	Using Angle Gauge by Comparison Method	0°- 90°- 0°	6.5 minute of arc

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126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge with or without Dial - Transmission Error (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 2 mm	3 µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Slip Gauge, Long Slip Gauge & Accessories by Comparison Method	0 to 1000 mm	17 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CD / PCD Gauge - Length	Using Video Measuring Machine by Comparison Method	2 mm to 200 mm	10 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CD / PCD Gauge - Length	Using 2D Electronic Height Gauge by Comparison Method	2 mm to 600 mm	10 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 1 µm)	Using Coating Thickness Foils by Comparison Method	0.1 mm to 2 mm	2.27 µm

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131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set (L.C.: 1°)	Using Angle Gauge by Comparison Method	0° - 90° - 0°	35 minute of arc
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould - Length	Using Video Measuring Machine by Comparison Method	Up to 200 x 100 x 100 mm	10 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould - Length	Using 2D Electronic Height Gauge by Comparison Method	Up to 300 x 300 x 600 mm	10 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm)	Using Slip Gauge & Accessories by Comparison Method	0 to 300 mm	7 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Caliper (L.C.: 0.01 mm)	Using Slip Gauge & Accessories by Comparison Method	0 to 300 mm	15 µm

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136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Caliper (L.C.: 0.02 mm)	Using Slip Gauge, Long Slip Gauge, Accessories & Surface Plate by Comparison Method	0 to 600 mm	20 µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer - Traverse (L.C.: 0.001 mm)	Using Extensometer Calibrator by Comparison Method as per ASTM E83	Up to 5 mm	5 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer - Traverse (L.C.: 0.001 mm)	Using Extensometer Calibrator by Comparison Method as per IS 12872 : 2021, ISO 9513 : 2012	Up to 5 mm	5 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge by Comparison Method	0 to 100 mm	2 µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Slip Gauge, Long Slip Gauge & Accessories by Comparison Method	> 300 mm to 1000 mm	15 µm

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141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Slip Gauge & Accessories by Comparison Method	>100 mm to 300 mm	8 µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Probe with Digital Read Out (DRO) & Comparator Stand by Comparison Method	0.01 mm to 1 mm	2.5 µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foil	Using Probe with Digital Read Out (DRO) by Comparison Method	0.1 mm to 10 mm	1.5 µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.1 µm)	Using Slip Gauge, Long Slip Gauge by Comparison Method	0 to 1000 mm	10 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hi - Lo Limit Gauge - Length	Using Video Measuring Machine, Slip Gauge by Comparison Method	0.5 mm to 200 mm	10 µm

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146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer (L.C.: 0.1°)	Using Angle Gauge by Comparison Method	0° - 90° - 0°	0.1 °
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inspection JIG & Fixture - Diameter	Using 2D Electronic Height Gauge by Comparison Method	0.5 mm to 600 mm	10 µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inspection JIG & Fixture - Diameter	Using Video Measuring Machine by Comparison Method	2 mm to 200 mm	10 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inspection JIG & Fixture - Length	Using 2D Electronic Height Gauge by Comparison Method	0.5 mm to 600 mm	10 µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inspection JIG & Fixture - Length	Using Video Measuring Machine by Comparison Method	2 mm to 200 mm	10 µm

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151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C.: 0.01 mm)	Using Slip Gauge, Long Slip Gauge, DRO with Probe, Comparator Stand by Comparison Method	> 300 mm to 1000 mm	13 µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C.: 0.01 mm)	Using Slip Gauge & DRO with Probe, Comparator Stand by Comparison Method	0 to 300 mm	8 µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Keyway Gauge - Diameter	Using Slip gauge & probe with DRO by Comparison method	> 100 mm to 300 mm	4 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Keyway Gauge - Diameter	Using Slip Gauge & Probe with DRO by Comparison Method	0.5 mm to 100 mm	2.5 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1 mm	2.92 µm

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156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial (L.C.: 0.01 mm)	Using Digital Dial Calibrator by Comparison Method	0 mm to 2 mm	6.5 µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 0.5 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 2000 mm	119.75 x sqrt (L) µm, where L is in m
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape, Pie Tape (L.C.: 1 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 100 m	119.75 x sqrt (L) µm, where L is in m
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head (L.C.: 0.001 mm)	Using Probe with Digital Read out (DRO) by Comparison Method	0 to 25 mm	1.5 µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Slip Gauge, Probe with DRO, Comparator Stand by Comparison Method	> 275 mm to 1000 mm	9.15 µm

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161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Slip Gauge, Probe with DRO, Comparator Stand by Comparison Method	2 mm to 275 mm	3.5 µm
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Paddle Gauge - Diameter	Using Slip Gauge & Probe with DRO by Comparison Method	> 100 mm to 300 mm	4 µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Paddle Gauge - Diameter	Using Slip Gauge & Probe with DRO by Comparison Method	0.5 mm to 100 mm	2.5 µm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Paddle Gauge - Diameter	Using 2D Electronic Height Gauge by Comparison Method	0.5 mm to 600 mm	10 µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Paddle Gauge - Diameter	Using Video Measuring Machine by Comparison Method	2 mm to 200 mm	10 µm

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166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pin Gauge	Using Probe with Digital Read Out (DRO), Comparator Stand by Comparison Method	0.1 mm to 20 mm	2 µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.1 mm)	Using Slip Gauge by Comparison Method	0 to 150 mm	75.72 µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Slip Gauge & Probe with DRO by Comparison Method	> 100 mm to 300 mm	4 µm
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Slip Gauge & Probe with DRO by Comparison Method	0.5 mm to 100 mm	2.3 µm
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine & Master Ring Gauge by Comparison Method	> 100 mm to 300 mm	4 µm

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171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine & Master Ring Gauge by Comparison Method	3 mm to 100 mm	2 µm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Work Piece - Length	Using Video Measuring Machine by Comparison Method	0.5 mm to 200 mm	10 µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Work Piece - Template - Length	Using 2D Electronic Height Gauge by Comparison Method	0.5 mm to 600 mm	10 µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Work Piece - Template - Width	Using 2D Electronic Height Gauge by Comparison Method	0.5 mm to 600 mm	10 µm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	3 µm

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176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (L.C.: 0.001 mm)	Using Slip Gauge, Comparator Stand by Comparison Method	0 to 50 mm	6 µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Precision Spirit Level - Base Length 300 mm (Sensitivity : 0.02 mm/m)	Using Electronic Level & Tilting Table by Comparison Method	(±) 1 mm/m	25 µm/m
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge, Radius Template	Using Video Measuring Machine by Comparison Method	0.6 mm to 200 mm	11 µm
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge, Gap Gauge	Using Length Measuring Machine by Comparison Method	100 mm to 300 mm	5 µm
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge, Gap Gauge	Using Slip Gauge by Comparison Method	3 mm to 100 mm	3 µm

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181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Cast Iron / Granite) - Flatness	Using Digital Level by Comparison Method	Up to 4000 x 4000 mm	2.5 x sqrt {(L + W) / 125)} µm, where L and W are in mm
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	T Gauge	Using 2D Electronic Height Gauge by Comparison Method	Up to 600 mm	10 µm
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale (L.C.: 0.1 mm)	Using Video Measuring Machine by Comparison Method	0.5 mm to 15 mm	9 µm
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template - Angle	Using Video Measuring Machine by Comparison Method	Up to 360 °	4.63 minute of arc
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template - Length	Using Video Measuring Machine by Comparison Method	0.5 mm to 200 mm	10 µm

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186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve - Aperture Size	Using Video Measuring Machine by Comparison Method	0.032 mm to 3.5 mm	7 µm
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge - Dial / Digital (L.C.: 0.001 mm)	Using Slip Gauge by Comparison Method	0 to 1 mm	2 µm
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge - Dial / Digital (L.C.: 0.01 mm)	Using Slip Gauge by Comparison Method	0 to 25 mm	7.6 µm
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Angle	Using Video Measuring Machine by Comparison Method	55° & 60 °	277.54 second of arc
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Linear	Using Video Measuring Machine by Comparison Method	0.4 mm to 6 mm	6.5 µm

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191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Effective Diameter	Using Length Measuring Machine, Thread Measuring Wires, Setting Master by Comparison Method	> 100 mm to 300 mm	4 µm
192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Effective Diameter	Using Floating Carriage Diameter Measuring Machine, Thread Measuring Wires, Setting Master by Comparison Method	2 mm to 100 mm	4 µm
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Major Diameter	Using Length Measuring Machine & External Probe by Comparison Method	100 mm to 300 mm	4 µm
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Major Diameter	Using Floating Carriage Diameter Measuring Machine, Setting Master by Comparison Method	2 mm to 100 mm	4 µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Minor Diameter	Using Length Measuring Machine & External Probe by Comparison Method	100 mm to 300 mm	4

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196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Minor Diameter	Using Floating Carriage Diameter Measuring Machine by Comparison Method	2 mm to 100 mm	4
197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge - Effective Diameter	Using Length Measuring Machine, Master Ring Gauge by Comparison Method	3 mm to 100 mm	2 µm
198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge - Effective Diameter	Using Length Measuring Machine, Master Ring Gauge by Comparison Method	> 100 mm to 300 mm	5 µm
199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tri Square, Engineering Square - Parallelism	Using Electronic Probe with DRO by Comparison Method	Up to 600 mm	6.06 µm
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tri Square, Engineering Square - Squareness	Using Master Square Cylinder, Slip Gauges by Comparison Method	Up to 600 mm	15 µm

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201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tri Square, Engineering Square - Straightness	Using Surface Plate, Probe with DRO, Slip Gauges by Comparison Method	Up to 600 mm	6.06 µm
202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block - Parallelism	Using Surface Plate, Test Mandrels & Probe with DRO by Comparison Method	Up to 200 mm	13 µm
203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block - Squareness	Using Square Cylinder, Slip Gauge by Comparison Method	Up to 200 mm	13 µm
204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block - Symmetricity	Using Surface Plate, Test Mandrels & Probe with DRO by Comparison Method	Up to 200 mm	13 µm
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge	Using Video Measuring Machine by Comparison Method	Up to 60 mm	10 µm

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206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Video Measuring Machine by Comparison Method	0.5 mm to 200 mm	10 µm
207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Video Measuring Machine by Comparison Method	0.19 mm to 7.62 mm	6 µm
208	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge - Linear (L.C.: 0.1 µm)	Using Long Slip Gauge by Comparison Method	0 to 600 mm	10 µm
209	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge - Squareness (L.C.: 0.1 µm)	Using Master Square Cylinder by Comparison Method	0 to 600 mm	11.26 µm
210	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (L.C.: 0.1 µm)	Using Probe with Digital Read Out (DRO) by Comparison Method	0 to 25 mm	1.5 µm
211	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO / Comparator / LVDT (L.C.: 0.0001 mm)	Using Slip Gauge by Comparison Method	0 to 25 mm	1 µm

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212	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO / Comparator / LVDT (L.C.: 0.001 mm)	Using Slip Gauges, Comparator Stand and Digital Multimeter by Comparison Method	0 to 100 mm	10 µm
213	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Slip Gauge, Vernier Caliper by Comparison Method	10 X to 100 X	1 %
214	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Ra) - Portable	Using Surface Roughness Master by Comparison Method	0.1 µm to 3 µm	10 %
215	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine - Angular (L.C.: 1 second of arc)	Using Angular Glass Graticule by Comparison Method	0 ° to 360 °	15 second of arc
216	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine, Microscope - Linear (L.C.: 0.0001 mm)	Using Glass Scale by Comparison Method	0 to 200 mm	3 µm
217	MECHANICAL-DUROMETER	Durometer - Shore A	Using Dial Calibration Tester by Depth Indentation Method as per ISO 18898:2016	10 Shore to 100 Shore	0.9 Shore

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218	MECHANICAL-DUROMETER	Durometer - Shore AM	Using Dial Calibration Tester by Depth Indentation Method as per ISO 18898:2016	10 Shore to 100 Shore	0.9 Shore
219	MECHANICAL-DUROMETER	Durometer - Shore AO	Using Dial Calibration Tester by Depth Indentation Method as per ISO 18898:2016	10 Shore to 100 Shore	0.9 Shore
220	MECHANICAL-DUROMETER	Durometer - Shore D	Using Dial Calibration Tester by Depth Indentation Method as per ISO 18898:2016	10 Shore to 100 Shore	0.9 Shore
221	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push-Pull Gauge, Force Gauge - Push & Pull Mode	Using Slotted Mass with Hanger as per VDI/VDE 2624 Part 2.1	5 N to 500 N	1.5 N
222	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Magnehelic Gauge, Pressure Transmitter, Pressure Transducer, Pressure Switch - Pneumatic Medium	Using Digital Pressure Calibrator, 6½ Digit Multimeter, Pneumatic Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 20 mbar	0.011 mbar

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223	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Magnehelic Gauge, Pressure Transmitter, Pressure Transducer, Pressure Switch - Pneumatic Medium	Using Digital Pressure Calibrator, 6½ Digit Multimeter, Pneumatic Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 200 mbar	0.13 mbar
224	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transmitter, Pressure Transducer, Pressure Switch - Hydraulic Medium	Using Hydraulic Dead Weight Tester, 6½ Digit Multimeter by Direct Method as per DKD-R 6-1	2 bar to 35 bar	0.01 bar
225	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transmitter, Pressure Transducer, Pressure Switch - Hydraulic Medium	Using Hydraulic Dead Weight Tester, 6½ Digit Multimeter by Direct Method as per DKD-R 6-1	35 bar to 700 bar	0.14 bar

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226	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transmitter, Pressure Transducer, Pressure Switch - Hydraulic Medium	Using Digital Pressure Calibrator, 6½ Digit Multimeter, Hydraulic Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 400 bar	0.15 bar
227	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transmitter, Pressure Transducer, Pressure Switch - Hydraulic Medium	Using Digital Pressure Calibrator, 6½ Digit Multimeter, Hydraulic Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.56 bar
228	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transmitter, Pressure Transducer, Pressure Switch - Pneumatic Medium	Using Digital Pressure Calibrator, 6½ Digit Multimeter, Pneumatic Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 1 bar	0.00086 bar

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229	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transmitter, Pressure Transducer, Pressure Switch - Pneumatic Medium	Using Digital Pressure Calibrator, 6½ Digit Multimeter, Pneumatic Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 30 bar	0.011 bar
230	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Gauge, Vacuum Transmitter, Vacuum Transducer, Vacuum Switch - Pneumatic Pressure	Using Digital Vacuum Calibrator, 6½ Digit Multimeter, Pneumatic Pressure Pump by Comparison Method as per DKD-R 6-1	(-) 0.93 bar to 0 bar	0.0007 bar
231	MECHANICAL-TORQUE GENERATING DEVICES	Torque Tool - Pneumatic, Electrical, Hydraulic and Oil Pulse Tool	Using Torque Sensor with Indicator as per IS 15411:2021	1 Nm to 10 Nm	0.44 %
232	MECHANICAL-TORQUE GENERATING DEVICES	Torque Tool - Pneumatic, Electrical, Hydraulic and Oil Pulse Tool	Using Torque Sensor with Indicator as per IS 15411:2021	10 Nm to 50 Nm	0.8 %
233	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type I (Class A, B, C, D, E), Torque Wrench - Type II (Type A, B, C, D, E, F, G)	Using Torque Sensor with Indicator & Calibrator as per ISO 6789-1: 2017 and ISO 6789-2: 2017	2 Nm to 20 Nm	2.05 %rdg

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234	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type I (Class A, B, C, D, E), Torque Wrench - Type II (Type A, B, C, D, E, F, G)	Using Torque Sensor with Indicator & Calibrator as per ISO 6789-1: 2017 and ISO 6789-2: 2017	20 Nm to 200 Nm	1.58 %rdg
235	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type I (Class A, B, C, D, E), Torque Wrench - Type II (Type A, B, C, D, E, F, G)	Using Torque Sensor with Indicator & Calibrator as per ISO 6789-1: 2017 and ISO 6789-2: 2017	200 Nm to 2000 Nm	1.75 %rdg
236	MECHANICAL-VOLUME	Glass Burette, Glass Pipette - Single Marking & Graduated, Measuring Cylinder, Volumetric Flask, Conical Flask, Beaker - Single Marking & Graduated	Using Weighing Balance (Readability : 0.01 mg), Distilled Water based on Gravimetric Method as per ISO 4787:2021 & ISO/TR 20461:2023	10 ml to 80 ml	0.51 ml
237	MECHANICAL-VOLUME	Glass Burette, Glass Pipette - Single Marking & Graduated, Measuring Cylinder, Volumetric Flask, Conical Flask, Beaker - Single Marking & Graduated	Using Weighing Balance (Readability : 0.1 mg), Distilled Water based on Gravimetric Method as per ISO 4787:2021 & ISO/TR 20461:2023	80 ml to 200 ml	0.51 ml

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238	MECHANICAL-VOLUME	Glass Burette, Glass Pipette - Single Marking & Graduated, Measuring Cylinder, Volumetric Flask, Conical Flask, Beaker - Single Marking & Graduated	Using Weighing Balance (Readability : 0.01 mg), Distilled Water based on Gravimetric Method as per ISO 4787:2021 & ISO/TR 20461:2023	1 ml to 10 ml	0.19 ml
239	MECHANICAL-VOLUME	Glass Burette, Measuring Cylinder, Volumetric Flask, Conical Flask, Beaker - Single Marking & Graduated	Using Weighing Balance (Readability : 1 mg), Distilled Water based on Gravimetric Method as per ISO 4787:2021 & ISO/TR 20461:2023	> 500 ml to 1000 ml	2.6 ml
240	MECHANICAL-VOLUME	Glass Burette, Measuring Cylinder, Volumetric Flask, Conical Flask, Beaker - Single Marking & Graduated	Using Weighing Balance (Readability : 1 mg), Distilled Water based on Gravimetric Method as per ISO 4787:2021 & ISO/TR 20461:2023	200 ml to 500 ml	2.2 ml

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241	MECHANICAL-VOLUME	Glass Pipette - Single Marking & Graduated	Using Weighing Balance (Readability : 0.01 mg), Distilled Water based on Gravimetric Method as per ISO 4787:2021 & ISO/TR 20461:2023	100 µl to 1000 µl	2.54 µl
242	MECHANICAL-VOLUME	Micro Pipette - Piston Operated	Using Weighing Balance (Readability : 0.01 mg), Distilled Water based on Gravimetric Method as per ISO 8655-6:2022 & ISO/TR 20461:2023	100 µl to 1000 µl	2.54 µl
243	MECHANICAL-VOLUME	Micro Pipette - Piston Operated	Using Weighing Balance (Readability : 0.01 mg), Distilled Water based on Gravimetric Method as per ISO 8655-6:2022 & ISO/TR 20461:2023	20 µl to 100 µl	0.5 µl
244	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Class I & Coarser (Readability : 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 82 g	0.03 mg

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245	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Class I & Coarser (Readability : 0.1 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 220 g	0.22 mg
246	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Class II & Coarser (Readability : 1 mg)	Using E1, F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 1.02 kg	3 mg
247	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Class II & Coarser (Readability : 10 mg)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 2.2 kg	30 mg
248	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Class II & Coarser (Readability : 100 mg)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 32.2 kg	250 mg
249	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Class IIII (Readability : 10 g)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 200 kg	58 g
250	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	1 g	0.025 mg

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251	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	10 g	0.02 mg
252	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	100 g	0.15 mg
253	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	100 mg	0.01 mg
254	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	2 g	0.025 mg

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255	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	20 g	0.03 mg
256	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	20 mg	0.009 mg
257	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	200 g	0.131 mg
258	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	200 mg	0.025 mg

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259	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	5 g	0.025 mg
260	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	50 g	0.03 mg
261	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	50 mg	0.012 mg
262	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	500 mg	0.025 mg

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263	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using F1 Class Weight & Balance of (Readability : 1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	1 kg	5 mg
264	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	1 mg	0.011 mg
265	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	10 mg	0.0092 mg
266	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using F1 Class Weight & Balance of (Readability : 10 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	2 kg	10 mg

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267	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	2 mg	0.009 mg
268	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Class Weight & Balance of (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	5 mg	0.009 mg
269	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using F1 Class Weight & Balance of (Readability : 100 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	10 kg	143 mg
270	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using F1 Class Weight & Balance of (Readability : 100 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	20 kg	100 mg

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271	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using F1 Class Weight & Balance of (Readability : 1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	500 g	3 mg
272	MECHANICAL-WEIGHTS	Accuracy Class M2 & Coarser	Using F1 Class Weight & Balance of (Readability : 100 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	5 kg	100 mg
273	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine - Inspiratory, Expiratory Time (I:E Ratio)	Using Gas Flow Analyzer by Direct Method	0.5 second to 5 second (1:1 to 4:1)	3.48 % to 6.11 %
274	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine - PEEP	Using Gas Flow Analyzer by Direct Method	0 to 40 cmH2O	1.3 cmH2O
275	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine - Respiration Rate	Using Gas Flow Analyzer by Direct Method	5 bpm to 150 bpm	1.46 brpm to 3.22 brpm

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276	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine - Volume	Using Gas Flow Analyzer by Direct Method	10 ml to 1000 ml	0.81 ml to 41.18 ml
277	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine, BIPAP, CPAP - Oxygen Percentage	Using Gas Flow Analyzer by Direct Method	21 % to 100 %	4.07 %
278	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	B.P Apparatus - Pressure	Using Vital Sign Simulator by Direct Method	0 to 300 mmHg	4.86 mmHg
279	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BIPAP - Pressure (PEEP)	Using Gas Flow Analyzer by Direct Method	0 cmH2O to 30 cmH2O (0 to 29.42mbar)	0.1 cmH2O to 1.4 cmH2O
280	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	CPAP - Pressure (PEEP)	Using Gas Flow Analyzer by Direct Method	0 cmH2O to 30 cmH2O(0 to 29.42 mbar)	0.1 cmH2O to 1.4 cmH2O
281	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Digital BP Apparatus - NIBP	Using Vital Sign Simulator by Direct Method	15 mmHg to 400 mmHg (0.019 bar to 0.339 bar)	1.46 mmHg to 4.65 mmHg

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282	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Equipment Current (Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.8 A to 15 A	0.356 A to 1.167 A
283	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Equipment Current (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric)) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.8 A to 15 A	0.083 A to 0.407 A
284	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Insulation Resistance (Enteral Feeding Pump, Boyles Apparatus)	Using Electrical Safety Analyzer by Direct Method	20 Mohm to 100 Mohm @ 250 V & 500 V	0.763 Mohm to 9.01 Mohm
285	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Insulation Resistance (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric))	Using Electrical Safety Analyzer by Direct Method	20 Mohm to 100 Mohm @ 250 V & 500 V	0.763 Mohm to 9.01 Mohm

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286	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Chassis Leakage (NC) - (Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
287	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Chassis Leakage (NC) - (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric)) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
288	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Chassis Leakage (SFC) - (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric), Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA

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289	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Earth Leakage (NC) - (Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.33 µA
290	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Earth Leakage (NC) - (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric)) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.33 µA
291	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Earth Leakage (SFC) - (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric), Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.32 µA

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292	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Patient Leakage (NC) - (Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
293	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Patient Leakage (NC) - (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric)) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
294	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Patient Leakage (SFC) - (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric), Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA

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295	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Protective Earth Resistance (Enteral Feeding Pump, Boyles Apparatus)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	0.006 ohm to 0.06 ohm
296	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Protective Earth Resistance (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric))	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	0.006 ohm to 0.06 ohm
297	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Protective Earth Resistance (Suction Pump, Nebulizer, Syringe Pump, Infusion Pump, CPAP, BiPAP, Anesthesia Machine)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	0.006 ohm to 0.06 ohm
298	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Voltage (Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 V to 250 V	0.29 V to 6.22 V

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299	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Voltage (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric)) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 V to 250 V	0.29 V to 6.22 V
300	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Voltage (Suction Pump, Nebulizer, Syringe Pump, Infusion pump, CPAP, BiPAP, Anesthesia Machine) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 V to 250 V	0.29 V to 6.22 V
301	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	EPAP, IPAP, BiPAP, CPAP - Pressure	Using Gas Flow Analyzer by Direct Method	0 to 150 cmH2O	1.4 cmH2O
302	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Leak Test - NIBP	Using Vital Sign Simulator by Direct Method	0 to 12 mmHg/minute	0.28 mmHg/minute to 0.66 mmHg/minute
303	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Nebulizer - Flow	Using Gas Flow Analyzer by Direct Method	1 lpm to 6 lpm	0.1 lpm to 0.51 lpm

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304	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Positive Pressure - CPAP	Using Gas Flow Analyzer by Direct Method	0 to 150 cmH2O	1.3 cmH2O
305	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pressure Gauge - Medical Devices / Oxygen Cylinder / Oxygen Regulator / Medical Gas Cylinder	Using Digital Pressure Gauge by Direct Method	0 to 30 bar	0.15 bar
306	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pulse Oximeter - Heart Rate	Using Vital Sign Simulator by Direct Method	30 bpm to 240 bpm (0.5 Hz to 4 Hz)	16.82 % to 2.41 %
307	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pulse Oximeter - Pulse Rate	Using SPO2 Functional Tester by Direct Method	30 bpm to 240 bpm	16.82 % to 4.01 %
308	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pulse Oximeter - SPO2	Using SPO2 Functional Tester by Direct Method	70 % to 100 %	8.33 % to 5.2 %
309	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Syringe Pump, Infusion Pump - Flow Rate	Using Infusion Device Analyzer by Direct Method	1 ml/hr to 1000 ml/hr	6.27 % to 1.27 %

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310	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Syringe Pump, Infusion Pump - Occlusion Pressure	Using Infusion Device Analyzer by Direct Method	0 to 45 psi	0.7 psi
311	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Syringe Pump, Infusion Pump - Volume	Using Infusion Device Analyzer by Direct Method	1 ml to 400 ml	0.016 ml to 6.5 ml
312	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Vacuum (Suction Pump)	Using Gas Flow Analyser by Direct Method	(-) 800 mbar to 0 mbar	8.04 mbar
313	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine - Amplitude	Using Defibrillator Analyzer by Simulation Method	0.5 mV to 5 mV	7.81 % to 4.68 %
314	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine - Heart Rate	Using Defibrillator Analyzer by Simulation Method	30 bpm to 300 bpm	3.37 % to 1.82 %
315	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Equipment Current (Trans illuminator Light Source , EEG, ECG, Fetal Doppler, X-Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.8 A to 15 A	0.083 A to 0.407 A

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316	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Insulation Resistance (Trans illuminator Light Source, EEG, ECG, Fetal Doppler, X-Ray Diagnostic Equipment)	Using Electrical Safety Analyzer by Direct Method	20 Mohm to 100 Mohm @ 250 V & 500 V	0.763 Mohm to 9.01 Mohm
317	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Leakage Current - Chassis Leakage (NC) - (Trans illuminator Light Source, EEG, ECG, Fetal Doppler, X - Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
318	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Leakage Current - Chassis Leakage (SFC) - (Trans illuminator Light Source, EEG, ECG, Fetal Doppler, X - Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA

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319	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Leakage Current - Earth Leakage (NC) - (Trans illuminator, Light Source ,EEG, ECG, Fetal Doppler, X - Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.37 µA
320	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Leakage Current - Earth Leakage (SFC) - (Trans illuminator, Light Source ,EEG, ECG, Fetal Doppler, X - Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 1 µA
321	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Leakage Current - Patient Leakage (NC) - (Trans illuminator Light Source, EEG, Fetal Doppler, ECG, X - Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA

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322	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Leakage Current - Patient Leakage (SFC) - (Trans illuminator Light Source, EEG, Fetal Doppler, ECG, X - Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
323	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Protective Earth Resistance (Trans illuminator Light Source ,EEG, ECG, Fetal Doppler, X - Ray Diagnostic Equipment)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	0.027 ohm to 0.087 ohm
324	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Voltage (Trans illuminator Light Source , EEG, ECG, Fetal Doppler, X - Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 V to 240 V	0.29 V to 6.22 V
325	MEDICAL DEVICES-MONITORING UNIT	ECG Heart Rate - Patient Monitor	Using Vital Sign Simulator by Simulation Method	30 bpm to 300 bpm	3.5 % to 2.01 %

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326	MEDICAL DEVICES-MONITORING UNIT	ECG Machine - Amplitude	Using Vital Sign Simulator by Direct Method	0.7 mV to 1.2 mV	0.06 mV to 0.1 mV
327	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Equipment Current (Patient Monitor , Apnea Monitor, Fetal Monitor, Therapeutic Stimulator , Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.8 A to 15 A	0.083 A to 0.41 A
328	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Insulation Resistance (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale , Haematology Analyser)	Using Electrical Safety Analyzer by Direct Method	20 Mohm to 100 Mohm @ 250 V & 500 V	0.763 Mohm to 9.01 Mohm

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329	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Leakage Current - Chassis Leakage (NC) - (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
330	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Leakage Current - Chassis Leakage (SFC) - (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
331	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Leakage Current - Earth Leakage (NC) - (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.3 µA

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332	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Leakage Current - Earth Leakage (SFC) - (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.33 µA
333	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Leakage Current - Patient Leakage (NC) - (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
334	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Leakage Current - Patient Leakage (SFC) - (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA

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335	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Protective Earth Resistance (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator , Weighing Scale, Hematology Analyser)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	0.006 ohm to 0.06 ohm
336	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Voltage (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 V to 240 V	0.29 V to 6.22 V
337	MEDICAL DEVICES-MONITORING UNIT	IBP - Patient Monitor	Using Vital Sign Simulator by Simulation Method	0 to 250 mmHg	10.45 %
338	MEDICAL DEVICES-MONITORING UNIT	NIBP - Patient Monitor	Using Vital Sign Simulator by Simulation Method	15 mmHg to 300 mmHg	3.28 mmhg to 3.95 mmhg
339	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor - Heart Rate	Using Vital Sign Simulator by Direct Method	30 bpm to 300 bpm (0.5 Hz to 5 Hz)	4.54 % to 1.97 %

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340	MEDICAL DEVICES-MONITORING UNIT	Respiration Rate - Patient Monitor	Using Vital Sign Simulator by Simulation Method	1 brpm to 100 brpm	8.74 % to 6.04 %
341	MEDICAL DEVICES-MONITORING UNIT	SPO2 - Patient Monitor	Using SPO2 Functional Tester by Simulation Method	70 % to 100 %	8.27 % to 5.2 %
342	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Cautery Machine, Diathermy Machine, Electrosurgical unit - Voltage (Vpk)	Using Electrosurgical Analyzer by Direct Method	0.53 kV to 3 kV	15.48 %
343	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator - Charge Time	Using Defibrillator Analyzer by Direct Method	1 s to 90 s	0.1 s to 0.31 s
344	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator - Heart Rate	Using Defibrillator Analyzer by Simulation Method	30 bpm to 300 bpm	3.37 % to 1.82 %

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345	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator - Output Accuracy (Energy)	Using Defibrillator Analyzer by Direct Method	2 J to 360 J	0.6 J to 11.74 J
346	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Equipment Current (Dialysis Machine , Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.8 A to 15 A	0.083 A to 0.41 A
347	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Equipment Current (Incubator, Autoclave , Defibrillator, Ventilator, Electro Surgical Unit / Diathermy Machine / Cautery Machine, External Pace Maker, Electronic Tourniquet) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.8 A to 15 A	0.083 A to 0.41 A

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348	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Insulation Resistance (Dialysis Machine, Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit)	Using Electrical Safety Analyzer by Direct Method	20 Mohm to 100 Mohm @ 250 V & 500 V	0.763 Mohm to 9.01 Mohm
349	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Insulation Resistance (OT Table, Incubator, Autoclave, Defibrillator, Ventilator, Electrosurgical Unit, Tourniquet) @ 250 V & 500 V	Using Electrical Safety Analyzer by Direct Method	20 Mohm to 100 Mohm @ 250 V & 500 V	0.763 Mohm to 9.01 Mohm
350	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Chassis Leakage (NC) - (OT Table, Incubator, Autoclave, Defibrillator, Ventilator, Electrosurgical Unit, Tourniquet) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA

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351	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Chassis Leakage (NC) - (Dialysis Machine, Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.34 µA
352	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Chassis Leakage (SFC) - (Dialysis Machine, Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit, OT Table, Incubator, Autoclave, Defibrillator, Ventilator, Electrosurgical Unit, Tourniquet) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA

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353	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Earth Leakage (NC) - (Dialysis Machine, Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.31 µA
354	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Earth Leakage (NC) - (Incubator, Autoclave, Defibrillator, Ventilator, Electro Surgical Unit, Diathermy Machine, Cautery Machine, External Pace Maker, Electronic Tourniquet) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.31 µA

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355	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Earth Leakage (SFC) - (Dialysis Machine, Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit, Incubator, Autoclave, Defibrillator, Ventilator, Electro Surgical Unit, Diathermy Machine, Cautery Machine External Pace Maker, Electronic Tourniquet) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.34 µA
356	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Patient Leakage (NC) - (Dialysis Machine, Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA

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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)(±)
357	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Patient Leakage (NC) - (Incubator, Autoclave, Defibrillator, Ventilator, Electro Surgical Unit, Diathermy Machine, Cautery Machine, External Pace Maker, Electronic Tourniquet) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.31 µA

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358	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Patient Leakage (SFC) - (Dialysis Machine, Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit, Incubator, Autoclave, Defibrillator, Ventilator, Electro Surgical Unit, Diathermy Machine, Cautery Machine, External Pace Maker, Electronic Tourniquet) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
359	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Protective Earth Resistance (OT Table, Incubator, Autoclave, Defibrillator, Ventilator, Electrosurgical Unit, Tourniquet, Dialysis Machine, Heart Lung Machine, Patient Warm)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	0.027 ohm to 0.087 ohm

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360	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Voltage (OT Table, Incubator, Autoclave, Defibrillator, Ventilator, Electrosurgical Unit, Tourniquet, Dialysis Machine, Heart Lung Machine, Patient Warmer, Phototherapy Unit) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 V to 240 V	0.29 V to 6.22 V
361	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electro Surgical Unit, Diathermy Machine, Cautery Machine - Current	Using Electro Surgical Analyzer by Direct Method	110 mA to 1050 mA	5.74 % to 5.03 %
362	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electro Surgical Unit, Diathermy Machine, Cautery Machine - Power	Using Electro Surgical Analyzer by Direct Method	10 W to 300 W	1.34 W to 29 W
363	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker - Amplitude	Using Defibrillator Analyzer by Direct Method	4.5 mA to 25 mA	5.33 % to 5.09 %

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364	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker - Pulse Rate	Using Defibrillator Analyzer by Direct Method	30 ppm to 180 ppm (0.5 Hz to 3 Hz)	3.73 % to 2.45 %
365	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker, Defibrillator - Pacer Rate	Using Defibrillator Analyzer by Direct Method	30 ppm to 180 ppm	3.73 % to 2.45 %
366	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Torniquet - Pressure	Using Vital Sign Simulator by Direct Method	0 to 400 mmHg	10.78 %
367	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator - IE Ratio	Using Gas Flow Analyzer by Direct Method	1:10 to 10: 1 (1 s : 10 s to 10 s :1 s)	3.62 %
368	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator - Inspiratory Time	Using Gas Flow Analyzer by Direct Method	0.5 s to 5 s	0.05 s to 0.15 s

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369	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator - Inspiratory Time, Expiratory Time, I:E Ratio	Using Gas Flow Analyzer by Direct Method	0.25 s to 9.99 s (1:1 to 4:1)	0.03 s to 0.06 s
370	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator - Oxygen Percentage	Using Gas flow Analyzer by Direct Method	21 % to 100 %	8.64 %
371	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator - PEEP	Using Gas Flow Analyzer by Direct Method	0 to 40 cmH2O	1.4 cmH2O
372	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator - Respiration Rate	Using Gas Flow Analyzer by Direct Method	12 bpm to 40 bpm	1.46 % to 3.48 %
373	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator - Volume	Using Gas Flow Analyzer by Direct Method	10 ml to 1000 ml	2.31 ml to 41.18 ml

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374	OPTICAL-OPTICAL	Illuminance Meter, Lux Meter	Using Lux Meter & DC Power Supply by Comparison Method	100 lx to 10000 lx	5 %
375	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental Chamber, Climatic Chamber, Humidity Chamber @ 20 °C to 35 °C - Multi Position (Minimum 9 Sensors)	Using Temperature and Humidity Data Logger by Comparison Method	20 % RH to 95 % RH	2.91 % RH
376	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Environmental Chamber , Climatic Chamber, Humidity Chamber, Humidity Calibrator - Single Position @ 20°C to 50°C	Using Temperature & Humidity Meter with Probe by Comparison Method	10 %RH to 95 %RH	2 %RH
377	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Sensor / Transducer / Transmitter with Indicator or without Indicator, Thermo Hygrometer, Data Logger with Indicator or without Indicator - @ 20°C to 35°C	Using Temperature & Humidity Meter with Probe & 6½ Digit Multimeter, Temperature and Humidity Generator by Comparison Method	10 %RH to 95 %RH	2 %RH

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378	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Sensor / Transducer / Transmitter with Indicator or without Indicator, Thermo Hygrometer, Data Logger with Indicator or without Indicator - @ 35°C to 50°C	Using Temperature & Humidity Meter with Probe & 6½ Digit Multimeter, Temperature and Humidity Generator by Comparison Method	10 %RH to 50 %RH	2 %RH
379	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Sensor / Transducer / Transmitter with Indicator or without Indicator, Thermo Hygrometer, Data Logger with Indicator or without Indicator - @ 50 %RH	Using RTD & 6½ Digit Multimeter, Temperature & Humidity Meter with Probe, Temperature and Humidity Generator by Comparison Method	5 °C to 50 °C	0.3 °C
380	THERMAL-TEMPERATURE	Dial Thermometer	Using RTD (PT 100), 6½ Digit Multimeter & Liquid Bath by Comparison Method	(-) 35 °C to 140 °C	0.2 °C
381	THERMAL-TEMPERATURE	Dial Thermometer	Using RTD (PT 100), Digital Temperature Indicator & Liquid Bath by Comparison Method	(-) 35 °C to 140 °C	0.2 °C

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382	THERMAL-TEMPERATURE	Dial Thermometer	Using RTD (PT 100), 6½ Digit Multimeter & Liquid Bath by Comparison Method	> 140 °C to 250 °C	0.68 °C
383	THERMAL-TEMPERATURE	Dial Thermometer	Using RTD (PT 100), Digital Temperature Indicator & Liquid Bath by Comparison Method	> 140 °C to 250 °C	0.68 °C
384	THERMAL-TEMPERATURE	Freezer, Cold Chamber, Oven, Furnace, Coating Oven - Multi Position (Minimum 9 Sensors)	Using PT 100 Sensor with Data Logger by Comparison Method	(-) 40 °C to 400 °C	2.6 °C
385	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Block Calibrator - Single Position	Using R Type Thermocouple, 6½ Digit Multimeter by Comparison Method	600 °C to 1200 °C	1.3 °C
386	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Block Calibrator - Single Position	Using R Type Thermocouple, DAQ Temperature Scanner by Comparison Method	600 °C to 1200 °C	1.3 °C
387	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Dry Block Calibrator - Single Position	Using RTD (PT 100), 6½ Digit Multimeter by Comparison Method	(-) 100 °C to 140 °C	0.1 °C

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388	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Dry Block Calibrator - Single Position	Using RTD (PT 100), 6½ Digit Multimeter by Comparison Method	140 °C to 600 °C	0.4 °C
389	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Dry Block Calibrator - Single Position	Using RTD (PT 100), Temperature Indicator by Comparison Method	(-) 100 °C to 140 °C	0.1 °C
390	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Dry Block Calibrator - Single Position	Using RTD (PT 100), Temperature Indicator by Comparison Method	140 °C to 600 °C	0.4 °C
391	THERMAL-TEMPERATURE	IR Digital Thermometer / Gun, Pyrometer (Emissivity 0.95)	Using IR Thermometer, Black Body Source by Comparison Method	> 100 °C to 500 °C	3 °C
392	THERMAL-TEMPERATURE	IR Digital Thermometer / Gun, Pyrometer (Emissivity 0.95)	Using IR Thermometer, Black Body Source by Comparison Method	0 °C to 100 °C	2.88 °C
393	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD (PT 100), Digital Temperature Indicator & Liquid Bath by Comparison Method	(-) 35 °C to 140 °C	0.2 °C

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394	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD (PT 100), 6½ Digit Multimeter & Liquid Bath by Comparison Method	(-) 35 °C to 140 °C	0.2 °C
395	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD (PT 100), Digital Temperature Indicator & Liquid Bath by Comparison Method	> 140 °C to 250 °C	0.68 °C
396	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD (PT 100), 6½ Digit Multimeter & Liquid Bath by Comparison Method	> 140 °C to 250 °C	0.68 °C
397	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), 6½ Digit Multimeter & Dry Block Calibrator by Comparison Method	(-) 100 °C to (-) 35 °C	0.3 °C
398	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), Temperature Indicator, Dry Block Calibrator by Comparison Method	(-) 100 °C to (-) 35 °C	0.1 °C

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399	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), Temperature Indicator, Liquid Nitrogen Bath by Comparison Method	(-) 196 °C	0.2 °C
400	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), 6½ Digit Multimeter & Liquid Nitrogen Bath by Comparison Method	(-) 196 °C	0.2 °C
401	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), Digital Temperature Indicator & Dry Bath by Comparison Method	(-) 35 °C to 140 °C	0.06 °C
402	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), Digital Temperature Indicator, Dry Block by Comparison Method	140 °C to 600 °C	0.34 °C
403	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), 6½ Digit Multimeter, Dry Bath by Comparison Method	(-) 35 °C to 140 °C	0.05 °C

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404	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), 6½ Digit Multimeter, Dry Block by Comparison Method	140 °C to 600 °C	0.4 °C
405	THERMAL-TEMPERATURE	Thermocouple with or without Indicator / Data Logger / Recorder	Using R Type Thermocouple, 6½ Digit Multimeter, Temperature Indicator, Dry Block by Comparison Method	600 °C to 1200 °C	1.28 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, AC Active Energy @ (50 Hz, UPF, 50 V to 240 V, 0.1 A to 5 A)	Using Energy Calibrator, Power Analyzer and Energy Source by Comparison Method	0.005 kWh to 1.2 kWh	1.18 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 3 Wire, AC Active Energy @ (50 Hz, UPF, 50 V to 240 V, 0.1 A to 5 A)	Using Energy Calibrator, Power Analyzer and Energy Source by Comparison Method	0.015 Wh to 3.6 kWh	1.18 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	1 A to 3 A	0.2 % to 0.41 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	100 µA to 1 A	0.55 % to 0.2 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.2 % to 0.3 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	10 A to 20 A	0.15 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 8½ Digit Multimeter by Direct Method	10 A to 20 A	0.15 % to 0.12 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	100 µA to 1 A	0.55 % to 0.2 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	200 µA to 1 mA	0.05 % to 0.09 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter by Direct Method	200 mA to 10 A	0.06 % to 0.15 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	1 mA to 200 mA	0.09 % to 0.06 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter by Direct Method	1 mA to 200 mA	0.09 % to 0.06 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	10 µA to 200 µA	0.3 % to 0.05 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter by Direct Method	10 µA to 200 µA	0.3 % to 0.05 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter by Direct Method	200 µA to 1 mA	0.05 % to 0.09 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	200 mA to 10 A	0.06 % to 0.15 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @ 50 Hz	Using Current Transformer, 6½ Digit Multimeter & Current Injector (Source) by Comparison Method	20 A to 2000 A	2.1 % to 2.46 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Divider & HV Source by Comparison Method	1 kV to 20 kV	2.4 % to 2.6 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Divider by Direct Method	20 kV to 100 kV	2.6 % to 4.26 %

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 10 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	1 V to 1000 V	0.041 % to 0.02 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 10 kHz	Using 8½ Digit Multimeter by Direct Method	1 V to 1000 V	0.041 % to 0.02 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 10 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	10 mV to 200 mV	0.2 % to 0.025 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 10 kHz	Using 8½ Digit Multimeter by Direct Method	10 mV to 200 mV	0.2 % to 0.025 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 10 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	200 mV to 1 V	0.025 % to 0.041 %

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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 10 kHz	Using 8½ Digit Multimeter by Direct Method	200 mV to 1 V	0.025 % to 0.041 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 20 kHz	Using 6½ Digit Multimeter by Direct Method	10 mV to 1000 V	0.9 % to 0.15 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	10 mV to 20 V	0.33 % to 0.08 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100 kHz	Using 8½ Digit Multimeter by Direct Method	10 mV to 20 V	0.33 % to 0.08 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100 kHz	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	20 V to 100 V	0.08 % to 0.79 %

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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100 kHz	Using 8½ Digit Multimeter by Direct Method	20 V to 100 V	0.08 % to 0.79 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 kHz	Using 6½ Digit Multimeter by Direct Method	10 mV to 700 V	0.75 % to 0.25 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Power @ (50 Hz to 60 Hz, 0.2 Lead / Lag to UPF, 30 V to 500 V, 0.01 A to 20 A)	Using Multiproduct Calibrator by Direct Method	60 mW to 10 kW	1.8 % to 0.38 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, AC Power @ (50 Hz to 60 Hz, 0.2 Lead / Lag to UPF, 30 V to 500 V, 0.01 A to 20 A)	Using Multiproduct Calibrator by Direct Method	180 mW to 30 kW	1.8 % to 0.38 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multiproduct Calibrator by Direct Method	30 µA to 330 mA	0.95 % to 1.04 %

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35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multiproduct Calibrator by Direct Method	330 mA to 10 A	1.04 % to 3.5 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	30 µA to 3 A	0.62 % to 0.09 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	3 A to 20 A	0.09 % to 0.21 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 60 Hz	Using Multiproduct Calibrator with Current Coil by Direct Method	10 A to 1000 A	0.51 % to 0.62 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 45 Hz	Using Multiproduct Calibrator by Direct Method	1 mV to 33 V	0.9 % to 0.05 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 100 kHz	Using Multiproduct Calibrator by Direct Method	30 mV to 330 mV	0.5 % to 0.15 %

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41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 100 kHz	Using Multiproduct Calibrator by Direct Method	330 mV to 330 V	0.15 % to 0.32 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 10 kHz	Using Multiproduct Calibrator by Direct Method	1 mV to 330 mV	0.8 % to 0.02 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 10 kHz	Using Multiproduct Calibrator by Direct Method	330 mV to 1000 V	0.02 % to 0.04 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multiproduct Calibrator by Direct Method	220 pF to 330 nF	5.89 % to 0.45 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multiproduct Calibrator by Direct Method	330 nF to 33 µF	0.45 % to 0.6 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 20 Hz	Using Multiproduct Calibrator by Direct Method	0.33 mF to 50 mF	0.654 % to 1.53 %

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47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 50 Hz	Using Multiproduct Calibrator by Direct Method	33 µF to 330 µF	0.6 % to 0.654 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Inductance Box by Direct Method	1 mH to 10 H	3 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ Digit Multimeter by Direct Method	1 nF to 10 mF	5.47 % to 1.93 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ Digit Multimeter by Direct Method	10 mF to 100 mF	1.93 % to 4.9 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	10 µA to 20 mA	0.052 % to 0.005 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter & Multifunction Calibrator by Comparison Method	100 µA to 100 mA	0.105 % to 0.07 %

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53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 10 A	0.07 % to 0.2 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with 6½ Digit Multimeter & DC Current Source by Comparison Method	20 A to 100 A	2.11 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	20 mA to 20 A	0.005 % to 0.059 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Divider with Indicator & HV source by Comparison Method	1 kV to 20 kV	1.97 % to 2.1 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Divider by Direct Method	20 kV to 100 kV	2.3 % to 3.06 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter & Multifunction Calibrator by Comparison Method	1 mV to 1 V	0.71 % to 0.085 %

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59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	0.085 % to 0.006 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct Method	10 µV to 1000 V	5.8 % to 0.0008 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter & Multifunction Calibrator by Comparison Method	10 µV to 1000 V	5.84 % to 0.0008 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 100 ohm	0.15 % to 0.07 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter by Direct Method	100 µohm to 2 Mohm	0.5 % to 0.0015 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	100 ohm to 1 Gohm	0.07 % to 2.6 %

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65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter by Direct Method	2 Mohm to 20 Mohm	0.01 % to 0.0038 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire @ 200 V & 1000 V	Using 8½ Digit Multimeter by Direct Method	20 Mohm to 20 Gohm	0.0038 % to 0.3 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 100 ohm	0.15 % to 0.007 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter by Direct Method	1 ohm to 2 Mohm	0.5 % to 0.01 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	10 µA to 330 mA	0.25 % to 0.02 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	10 A to 20 A	0.07 % to 0.026 %

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71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.52 % to 0.64 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	330 mA to 10 A	0.02 % to 0.07 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	1 mV to 33 V	0.15 % to 0.002 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	33 V to 1000 V	0.002 % to 0.003 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multiproduct Calibrator by Direct Method	1 Mohm to 10 Mohm	5.77 % to 0.03 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multiproduct Calibrator by Direct Method	1 ohm to 1 Mohm	0.09 % to 5.77 %

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77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multiproduct Calibrator by Direct Method	10 Mohm to 330 Mohm	0.03 % to 0.35 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multiproduct Calibrator by Direct Method	330 Mohm to 1 Gohm	0.35 % to 0.2 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire @ 200 V & 1000 V	Using Standard Resistance Box by Direct Method	1 Gohm to 200 Gohm	3.55 % to 3.79 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multiproduct Calibrator by Direct Method	1 µohm to 1 Mohm	0.09 % to 5.77 %
81	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter	Using Multiproduct Calibrator by Simulation Method	1 µS (1 Mohm) to 100 mS/cm (1 ohm)	0.061 % to 2.88 %
82	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Amplitude	Using Multiproduct Calibrator by Direct Method	1 mV to 130 V	4.9 % to 0.35 %

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83	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth	Using Multiproduct Calibrator by Direct Method	50 kHz to 1.1 GHz	4.88 %
84	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time	Using Multiproduct Calibrator by Direct Method	2 ns to 5 s	0.03 % to 0.6 %
85	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter	Using Multiproduct Calibrator by Simulation Method	0 pH {(-) 414.12 mV} to 14 pH (414.12 mV)	0.01 pH
86	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Power Factor @ (50 Hz, 0.1 Lag / Lead to UPF, 240 V, 5 A)	Using Multiproduct Calibrator by Direct Method	0.1 PF to 1 PF	0.002 PF
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 800 °C	0.25 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using 8½ Digit Multimeter by Direct Method	100 °C to 1800 °C	0.6 °C

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89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1000 °C	0.087 °C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1000 °C	0.08 °C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1200 °C	0.177 °C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1300 °C	0.13 °C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using 8½ Digit Multimeter by Direct Method	0 °C to 1700 °C	0.6 °C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using 8½ Digit Multimeter by Direct Method	0 °C to 1700 °C	0.6 °C

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95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 400 °C	0.14 °C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 800 °C	0.25 °C
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Multiproduct Calibrator by Direct Method	450 °C to 1820 °C	0.8 °C
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.15 °C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.6 °C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.6 °C

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101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.6 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multiproduct Calibrator by Direct Method	100 °C to 1700 °C	0.65 °C
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multiproduct Calibrator by Direct Method	100 °C to 1700 °C	0.65 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 400 °C	0.21 °C
105	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter by Direct Method	1 MHz to 10 MHz	0.016 % to 0.06 %
106	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 8½ Digit Multimeter by Direct Method	10 Hz to 1 MHz	0.06 % to 0.006 %

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107	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 1000 kHz	0.068 %
108	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method	1 s to 1800 s	0.37 s to 1 s
109	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method	1800 s to 86400 s	1 s to 121 s
110	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	1 MHz to 10 MHz	0.08 % to 0.15 %
111	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	10 Hz to 1 MHz	0.058 % to 0.08 %
112	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Tachometer - Contact Type	Using RPM Tachometer, RPM Generator by Comparison Method	10 rpm to 100 rpm	0.63 rpm

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113	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Tachometer - Contact Type	Using RPM Tachometer, RPM Generator by Comparison Method	> 100 rpm to 1000 rpm	3.5 rpm
114	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Tachometer - Contact Type	Using RPM Tachometer, RPM Generator by Comparison Method	> 1000 rpm to 4000 rpm	10 rpm
115	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Tachometer - Non - Contact Type	Using Tachometer, RPM Generator by Comparison Method	10 rpm to 100 rpm	0.7 rpm
116	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Tachometer - Non - Contact Type	Using Tachometer, RPM Generator by Comparison Method	> 100 rpm to 4000 rpm	3.7 rpm
117	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Tachometer - Non - Contact Type	Using Tachometer, RPM Generator by Comparison Method	> 4000 rpm to 90000 rpm	27.49 rpm
118	MECHANICAL-ACCELERATION AND SPEED	RPM of Stirrer	Using Tachometer by Direct Method	> 100 rpm to 4000 rpm	3.7 rpm
119	MECHANICAL-ACCELERATION AND SPEED	RPM of Stirrer	Using Tachometer by Direct Method	10 rpm to 100 rpm	0.844 rpm
120	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter, Acceleration Meter / Sensor - Acceleration (g) @ (79.58 Hz & 159.2 Hz)	Using Vibration Meter Calibrator by Direct Method as per ISO 16063-21	1 m/s^2 to 10 m/s^2	0.26 m/s^2

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121	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter, Acceleration Meter / Sensor - Acceleration (g) @ 15.92 Hz	Using Vibration Meter Calibrator by Direct Method as per ISO 16063-21	1 m/s^2	0.08 m/s^2
122	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter, Acceleration Meter / Sensor - Acceleration (g) @ 636.6 Hz	Using Vibration Meter Calibrator by Direct Method as per ISO 16063-21	1 m/s^2	0.078 m/s^2
123	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter, Acceleration Meter / Sensor - Displacement @ 100 Hz	Using Vibration Meter, Vibration Generator Calibrator by Comparison Method as per ISO 16063-21	0 to 145 µm	2.426 %
124	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter, Acceleration Meter / Sensor - Velocity @ 100 Hz	Using Vibration Meter, Vibration Generator by Comparison Method as per ISO 16063-21	0 to 20 mm/s	0.52 mm/s
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer - Traverse (L.C.: 0.001 mm)	Using Extensometer Calibrator by Comparison Method as per ASTM E83	Up to 5 mm	5 µm

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126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer - Traverse (L.C.: 0.001 mm)	Using Extensometer Calibrator by Comparison Method as per IS 12872 : 2021, ISO 9513 : 2012	Up to 5 mm	5 µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.1 µm)	Using Slip Gauge, Long Slip Gauge by Comparison Method	0 to 1000 mm	10 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Cast Iron / Granite) - Flatness	Using Digital Level by Comparison Method	Up to 4000 x 4000 mm	2.5 x sqrt {(L + W) / 125)} µm, where L and W are in mm
129	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge - Linear (L.C.: 0.1 µm)	Using Long Slip Gauge by Comparison Method	0 to 600 mm	10 µm
130	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge - Squareness (L.C.: 0.1 µm)	Using Master Square Cylinder by Comparison Method	0 to 600 mm	11.26 µm
131	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular (L.C.: 1 second of arc)	Using Angular Graticule Scale by Comparison Method	0 ° to 360 °	1.2 minute of arc

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132	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear (L.C.: 0.001 mm)	Using Glass Scale by Comparison Method	0 to 300 mm	5 µm
133	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine - Angular (L.C.: 1 second of arc)	Using Angular Glass Graticule by Comparison Method	0 ° to 360 °	15 second of arc
134	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine, Microscope - Linear (L.C.: 0.0001 mm)	Using Glass Scale by Comparison Method	0 to 200 mm	3 µm
135	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E10	HBW 10/3000	1.6 %
136	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 : Part 2 : 2021 (ISO 6506-2 : 2017)	HBW 10/3000	1.6 %
137	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E10	HBW 2.5/187.5	1.6 %

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138	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 : Part 2 : 2021 (ISO 6506-2 : 2017)	HBW 2.5/187.5	1.6 %
139	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E10	HBW 5/750	1.9 %
140	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 : Part 2 : 2021 (ISO 6506-2 : 2017)	HBW 5/750	1.9 %
141	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E18	HRA	1 HRA
142	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 : Part 2 : 2018, ISO 6508-2:2015	HRA	1 HRA

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143	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E18	HRBW	1 HRBW
144	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 : Part 2 : 2018, ISO 6508-2:2015	HRBW	1 HRBW
145	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E18	HRC	1 HRC
146	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 : Part 2 : 2018, ISO 6508-2:2015	HRC	1 HRC
147	MECHANICAL-HARDNESS TESTING MACHINES	Test Force of Brinell Hardness Tester	Using Load Cell with Indicator by Direct Method as per IS 1500 : Part 2 : 2021 (ISO 6506-2 : 2017)	153.2 N to 29421 N	0.5 %

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148	MECHANICAL-HARDNESS TESTING MACHINES	Test Force of Rockwell Hardness Tester	Using Load Cell with Indicator by Direct Method as per IS 1586 : Part 2 : 2018, ISO 6508-2:2015	29.42 N to 1471 N	0.5 %
149	MECHANICAL-HARDNESS TESTING MACHINES	Test Force of Vickers Hardness Tester	Using Load Cell with Indicator by Direct Method as per IS 1501 (Part 2) : 2020, ISO 6507-2 : 2018	49.03 N to 294.2 N	0.5 %
150	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E92	HV 10	1.5 %
151	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020. ISO 6507-2 : 2018	HV 10	1.5 %
152	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E92	HV 30	1.5 %

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153	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020. ISO 6507-2 : 2018	HV 30	1.5 %
154	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Magnehelic Gauge, Pressure Transmitter, Pressure Transducer, Pressure Switch - Pneumatic Medium	Using Digital Pressure Calibrator, 6½ Digit Multimeter, Pneumatic Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 20 mbar	0.011 mbar
155	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Magnehelic Gauge, Pressure Transmitter, Pressure Transducer, Pressure Switch - Pneumatic Medium	Using Digital Pressure Calibrator, 6½ Digit Multimeter, Pneumatic Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 200 mbar	0.13 mbar

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156	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transmitter, Pressure Transducer, Pressure Switch - Hydraulic Medium	Using Digital Pressure Calibrator, 6½ Digit Multimeter, Hydraulic Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 400 bar	0.15 bar
157	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transmitter, Pressure Transducer, Pressure Switch - Hydraulic Medium	Using Digital Pressure Calibrator, 6½ Digit Multimeter, Hydraulic Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.56 bar
158	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transmitter, Pressure Transducer, Pressure Switch - Pneumatic Medium	Using Digital Pressure Calibrator, 6½ Digit Multimeter, Pneumatic Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 1 bar	0.00086 bar

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159	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transmitter, Pressure Transducer, Pressure Switch - Pneumatic Medium	Using Digital Pressure Calibrator, 6½ Digit Multimeter, Pneumatic Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 30 bar	0.143 bar
160	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Gauge, Vacuum Transmitter, Vacuum Transducer, Vacuum Switch - Pneumatic Pressure	Using Digital Vacuum Calibrator, 6½ Digit Multimeter, Pneumatic Pressure Pump by Comparison Method as per DKD-R 6-1	(-) 0.93 bar to 0 bar	0.0007 bar
161	MECHANICAL-TORQUE GENERATING DEVICES	Torque Tool - Pneumatic, Electrical, Hydraulic and Oil Pulse Tool	Using Torque Sensor with Indicator as per IS 15411:2021	1 Nm to 10 Nm	0.44 %
162	MECHANICAL-TORQUE GENERATING DEVICES	Torque Tool - Pneumatic, Electrical, Hydraulic and Oil Pulse Tool	Using Torque Sensor with Indicator as per IS 15411:2021	10 Nm to 50 Nm	0.8 %
163	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	UTM, CTM, Spring Testing Machine - Compression Mode	Using Load Cells with Indicator by Comparison Method as per IS 1828 (Part 1) : 2022 ISO 7500-1 : 2018	20 N to 1000 kN	0.66 %

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164	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Class I & Coarser (Readability : 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 82 g	0.03 mg
165	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Class I & Coarser (Readability : 0.1 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 220 g	0.22 mg
166	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Class II & Coarser (Readability : 1 mg)	Using E1, F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 1.02 kg	3 mg
167	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Class II & Coarser (Readability : 10 mg)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 2.2 kg	30 mg
168	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Class II & Coarser (Readability : 100 mg)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 32.2 kg	250 mg
169	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Class IIII (Readability : 10 g)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 200 kg	58 g
170	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine - Inspiratory, Expiratory Time (I:E Ratio)	Using Gas Flow Analyzer by Direct Method	0.5 second to 5 second (1:1 to 4:1)	3.48 % to 6.11 %

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171	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine - PEEP	Using Gas Flow Analyzer by Direct Method	0 to 40 cmH2O	1.3 cmH2O
172	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine - Respiration Rate	Using Gas Flow Analyzer by Direct Method	5 bpm to 150 bpm	1.46 brpm to 3.22 brpm
173	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine - Volume	Using Gas Flow Analyzer by Direct Method	10 ml to 1000 ml	0.81 ml to 41.18 ml
174	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine, BIPAP, CPAP - Oxygen Percentage	Using Gas Flow Analyzer by Direct Method	21 % to 100 %	4.07 %
175	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	B.P Apparatus - Pressure	Using Vital Sign Simulator by Direct Method	0 to 300 mmHg	4.86 mmHg
176	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BIPAP - Pressure (PEEP)	Using Gas Flow Analyzer by Direct Method	0 cmH2O to 30 cmH2O (0 to 29.42mbar)	0.1 cmH2O to 1.4 cmH2O

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177	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	CPAP - Pressure (PEEP)	Using Gas Flow Analyzer by Direct Method	0 cmH2O to 30 cmH2O(0 to 29.42 mbar)	0.1 cmH2O to 1.4 cmH2O
178	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Digital BP Apparatus - NIBP	Using Vital Sign Simulator by Direct Method	15 mmHg to 400 mmHg (0.019 bar to 0.339 bar)	1.46 mmHg to 4.65 mmHg
179	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Equipment Current (Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.8 A to 15 A	0.356 A to 1.167 A
180	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Equipment Current (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric)) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.8 A to 15 A	0.083 A to 0.407 A
181	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Insulation Resistance (Enteral Feeding Pump, Boyles Apparatus)	Using Electrical Safety Analyzer by Direct Method	20 Mohm to 100 Mohm @ 250 V & 500 V	0.763 Mohm to 9.01 Mohm

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182	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Insulation Resistance (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric))	Using Electrical Safety Analyzer by Direct Method	20 Mohm to 100 Mohm @ 250 V & 500 V	0.763 Mohm to 9.01 Mohm
183	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Chassis Leakage (NC) - (Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
184	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Chassis Leakage (NC) - (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric)) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA

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185	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Chassis Leakage (SFC) - (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric), Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
186	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Earth Leakage (NC) - (Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.33 µA
187	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Earth Leakage (NC) - (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric)) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.33 µA

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188	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Earth Leakage (SFC) - (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric), Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.32 µA
189	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Patient Leakage (NC) - (Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
190	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Patient Leakage (NC) - (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric)) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA

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191	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Leakage Current - Patient Leakage (SFC) - (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric), Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
192	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Protective Earth Resistance (Enteral Feeding Pump, Boyles Apparatus)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	0.006 ohm to 0.06 ohm
193	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Protective Earth Resistance (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric))	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	0.006 ohm to 0.06 ohm

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194	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Protective Earth Resistance (Suction Pump, Nebulizer, Syringe Pump, Infusion Pump, CPAP, BiPAP, Anesthesia Machine)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	0.006 ohm to 0.06 ohm
195	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Voltage (Enteral Feeding Pump, Boyles Apparatus) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 V to 250 V	0.29 V to 6.22 V
196	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Voltage (Suction Pump, Flow Meter with Humidifier, BP Apparatus (Sphygmomanometer), Nebulizer (Electric)) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 V to 250 V	0.29 V to 6.22 V
197	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety - Voltage (Suction Pump, Nebulizer, Syringe Pump, Infusion pump, CPAP, BiPAP, Anesthesia Machine) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 V to 250 V	0.29 V to 6.22 V

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198	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	EPAP, IPAP, BiPAP, CPAP - Pressure	Using Gas Flow Analyzer by Direct Method	0 to 150 cmH2O	1.4 cmH2O
199	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Leak Test - NIBP	Using Vital Sign Simulator by Direct Method	0 to 12 mmHg/minute	0.28 mmHg/minute to 0.66 mmHg/minute
200	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Nebulizer - Flow	Using Gas Flow Analyzer by Direct Method	1 lpm to 6 lpm	0.1 lpm to 0.51 lpm
201	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Positive Pressure - CPAP	Using Gas Flow Analyzer by Direct Method	0 to 150 cmH2O	1.3 cmH2O
202	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pressure Gauge - Medical Devices / Oxygen Cylinder / Oxygen Regulator / Medical Gas Cylinder	Using Digital Pressure Gauge by Direct Method	0 to 30 bar	0.15 bar
203	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pulse Oximeter - Heart Rate	Using Vital Sign Simulator by Direct Method	30 bpm to 240 bpm (0.5 Hz to 4 Hz)	16.82 % to 2.41 %

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204	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pulse Oximeter - Pulse Rate	Using SPO2 Functional Tester by Direct Method	30 bpm to 240 bpm	16.82 % to 4.01 %
205	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pulse Oximeter - SPO2	Using SPO2 Functional Tester by Direct Method	70 % to 100 %	8.33 % to 5.2 %
206	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Syringe Pump, Infusion Pump - Flow Rate	Using Infusion Device Analyzer by Direct Method	1 ml/hr to 1000 ml/hr	6.27 % to 1.27 %
207	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Syringe Pump, Infusion Pump - Occlusion Pressure	Using Infusion Device Analyzer by Direct Method	0 to 45 psi	0.7 psi
208	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Syringe Pump, Infusion Pump - Volume	Using Infusion Device Analyzer by Direct Method	1 ml to 400 ml	0.016 ml to 6.5 ml
209	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Vacuum (Suction Pump)	Using Gas Flow Analyser by Direct Method	(-) 800 mbar to 0 mbar	8.04 mbar

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210	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine - Amplitude	Using Defibrillator Analyzer by Simulation Method	0.5 mV to 5 mV	7.81 % to 4.68 %
211	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Machine - Heart Rate	Using Defibrillator Analyzer by Simulation Method	30 bpm to 300 bpm	3.37 % to 1.82 %
212	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Equipment Current (Trans illuminator Light Source , EEG, ECG, Fetal Doppler, X-Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.8 A to 15 A	0.083 A to 0.407 A
213	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Insulation Resistance (Trans illuminator Light Source, EEG, ECG, Fetal Doppler, X-Ray Diagnostic Equipment)	Using Electrical Safety Analyzer by Direct Method	20 Mohm to 100 Mohm @ 250 V & 500 V	0.763 Mohm to 9.01 Mohm

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214	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Leakage Current - Chassis Leakage (NC) - (Trans illuminator Light Source, EEG, ECG, Fetal Doppler, X - Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
215	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Leakage Current - Chassis Leakage (SFC) - (Trans illuminator Light Source, EEG, ECG, Fetal Doppler, X - Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
216	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Leakage Current - Earth Leakage (NC) - (Trans illuminator, Light Source ,EEG, ECG, Fetal Doppler, X - Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.37 µA

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217	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Leakage Current - Earth Leakage (SFC) - (Trans illuminator, Light Source ,EEG, ECG, Fetal Doppler, X - Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 1 µA
218	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Leakage Current - Patient Leakage (NC) - (Trans illuminator Light Source, EEG, Fetal Doppler, ECG, X - Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
219	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Leakage Current - Patient Leakage (SFC) - (Trans illuminator Light Source, EEG, Fetal Doppler, ECG, X - Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA

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220	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Protective Earth Resistance (Trans illuminator Light Source ,EEG, ECG, Fetal Doppler, X - Ray Diagnostic Equipment)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	0.027 ohm to 0.087 ohm
221	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety - Voltage (Trans illuminator Light Source , EEG, ECG, Fetal Doppler, X - Ray Diagnostic Equipment) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 V to 240 V	0.29 V to 6.22 V
222	MEDICAL DEVICES-IMAGING/PLOTTERS	OT Light	Using Lux Meter by Comparison Method	1000 lx to 200000 lx	12 % to 5 %
223	MEDICAL DEVICES-MONITORING UNIT	ECG Heart Rate - Patient Monitor	Using Vital Sign Simulator by Simulation Method	30 bpm to 300 bpm	3.5 % to 2.01 %
224	MEDICAL DEVICES-MONITORING UNIT	ECG Machine - Amplitude	Using Vital Sign Simulator by Direct Method	0.7 mV to 1.2 mV	0.06 mV to 0.1 mV

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225	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Equipment Current (Patient Monitor , Apnea Monitor, Fetal Monitor, Therapeutic Stimulator , Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.8 A to 15 A	0.083 A to 0.41 A
226	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Insulation Resistance (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale , Haematology Analyser)	Using Electrical Safety Analyzer by Direct Method	20 Mohm to 100 Mohm @ 250 V & 500 V	0.763 Mohm to 9.01 Mohm
227	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Leakage Current - Chassis Leakage (NC) - (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA

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228	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Leakage Current - Chassis Leakage (SFC) - (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
229	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Leakage Current - Earth Leakage (NC) - (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.3 µA
230	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Leakage Current - Earth Leakage (SFC) - (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.33 µA

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231	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Leakage Current - Patient Leakage (NC) - (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
232	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Leakage Current - Patient Leakage (SFC) - (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
233	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Protective Earth Resistance (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator , Weighing Scale, Hematology Analyser)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	0.006 ohm to 0.06 ohm

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234	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety - Voltage (Patient Monitor, Apnea Monitor, Fetal Monitor, Therapeutic Stimulator, Weighing Scale, Haematology Analyser) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 V to 240 V	0.29 V to 6.22 V
235	MEDICAL DEVICES-MONITORING UNIT	IBP - Patient Monitor	Using Vital Sign Simulator by Simulation Method	0 to 250 mmHg	10.45 %
236	MEDICAL DEVICES-MONITORING UNIT	NIBP - Patient Monitor	Using Vital Sign Simulator by Simulation Method	15 mmHg to 300 mmHg	3.28 mmhg to 3.95 mmhg
237	MEDICAL DEVICES-MONITORING UNIT	Patient Monitor - Heart Rate	Using Vital Sign Simulator by Direct Method	30 bpm to 300 bpm (0.5 Hz to 5 Hz)	4.54 % to 1.97 %
238	MEDICAL DEVICES-MONITORING UNIT	Respiration Rate - Patient Monitor	Using Vital Sign Simulator by Simulation Method	1 brpm to 100 brpm	8.74 % to 6.04 %
239	MEDICAL DEVICES-MONITORING UNIT	SPO2 - Patient Monitor	Using SPO2 Functional Tester by Simulation Method	70 % to 100 %	8.27 % to 5.2 %

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240	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Cautery Machine, Diathermy Machine, Electrosurgical unit - Voltage (Vpk)	Using Electrosurgical Analyzer by Direct Method	0.53 kV to 3 kV	15.48 %
241	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator - Charge Time	Using Defibrillator Analyzer by Direct Method	1 s to 90 s	0.1 s to 0.31 s
242	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator - Heart Rate	Using Defibrillator Analyzer by Simulation Method	30 bpm to 300 bpm	3.37 % to 1.82 %
243	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator - Output Accuracy (Energy)	Using Defibrillator Analyzer by Direct Method	2 J to 360 J	0.6 J to 11.74 J

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244	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Equipment Current (Dialysis Machine , Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.8 A to 15 A	0.083 A to 0.41 A
245	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Equipment Current (Incubator, Autoclave , Defibrillator, Ventilator, Electro Surgical Unit / Diathermy Machine / Cautery Machine, External Pace Maker, Electronic Tourniquet) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	0.8 A to 15 A	0.083 A to 0.41 A
246	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Insulation Resistance (Dialysis Machine, Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit)	Using Electrical Safety Analyzer by Direct Method	20 Mohm to 100 Mohm @ 250 V & 500 V	0.763 Mohm to 9.01 Mohm

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247	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Insulation Resistance (OT Table, Incubator, Autoclave, Defibrillator, Ventilator, Electrosurgical Unit, Tourniquet) @ 250 V & 500 V	Using Electrical Safety Analyzer by Direct Method	20 Mohm to 100 Mohm @ 250 V & 500 V	0.763 Mohm to 9.01 Mohm
248	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Chassis Leakage (NC) - (OT Table, Incubator, Autoclave, Defibrillator, Ventilator, Electrosurgical Unit, Tourniquet) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
249	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Chassis Leakage (NC) - (Dialysis Machine, Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.34 µA

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250	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Chassis Leakage (SFC) - (Dialysis Machine, Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit, OT Table, Incubator, Autoclave, Defibrillator, Ventilator, Electrosurgical Unit, Tourniquet) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
251	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Earth Leakage (NC) - (Dialysis Machine, Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.31 µA

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252	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Earth Leakage (NC) - (Incubator, Autoclave, Defibrillator, Ventilator, Electro Surgical Unit, Diathermy Machine, Cautery Machine, External Pace Maker, Electronic Tourniquet) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.31 µA
253	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Earth Leakage (SFC) - (Dialysis Machine, Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit, Incubator, Autoclave, Defibrillator, Ventilator, Electro Surgical Unit, Diathermy Machine, Cautery Machine External Pace Maker, Electronic Tourniquet) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.34 µA

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254	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Patient Leakage (NC) - (Dialysis Machine, Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
255	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Patient Leakage (NC) - (Incubator, Autoclave, Defibrillator, Ventilator, Electro Surgical Unit, Diathermy Machine, Cautery Machine, External Pace Maker, Electronic Tourniquet) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.31 µA

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256	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Leakage Current - Patient Leakage (SFC) - (Dialysis Machine, Heart Lung Machine, Patient Warmer, OT Table, Radiant Warmer, Irradiance Meter, Phototherapy Unit, Incubator, Autoclave, Defibrillator, Ventilator, Electro Surgical Unit, Diathermy Machine, Cautery Machine, External Pace Maker, Electronic Tourniquet) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 µA to 7 mA	0.1 µA to 0.21 µA
257	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Protective Earth Resistance (OT Table, Incubator, Autoclave, Defibrillator, Ventilator, Electrosurgical Unit, Tourniquet, Dialysis Machine, Heart Lung Machine, Patient Warm)	Using Electrical Safety Analyzer by Direct Method	0.1 ohm to 2 ohm	0.027 ohm to 0.087 ohm

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258	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety - Voltage (OT Table, Incubator, Autoclave, Defibrillator, Ventilator, Electrosurgical Unit, Tourniquet, Dialysis Machine, Heart Lung Machine, Patient Warmer, Phototherapy Unit) @ 50 Hz	Using Electrical Safety Analyzer by Direct Method	10 V to 240 V	0.29 V to 6.22 V
259	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electro Surgical Unit, Diathermy Machine, Cautery Machine - Current	Using Electro Surgical Analyzer by Direct Method	110 mA to 1050 mA	5.74 % to 5.03 %
260	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electro Surgical Unit, Diathermy Machine, Cautery Machine - Power	Using Electro Surgical Analyzer by Direct Method	10 W to 300 W	1.34 W to 29 W
261	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker - Amplitude	Using Defibrillator Analyzer by Direct Method	4.5 mA to 25 mA	5.33 % to 5.09 %

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262	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker - Pulse Rate	Using Defibrillator Analyzer by Direct Method	30 ppm to 180 ppm (0.5 Hz to 3 Hz)	3.73 % to 2.45 %
263	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	External Pace Maker, Defibrillator - Pacer Rate	Using Defibrillator Analyzer by Direct Method	30 ppm to 180 ppm	3.73 % to 2.45 %
264	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Torniquet - Pressure	Using Vital Sign Simulator by Direct Method	0 to 400 mmHg	10.78 %
265	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator - IE Ratio	Using Gas Flow Analyzer by Direct Method	1:10 to 10: 1 (1 s : 10 s to 10 s :1 s)	3.62 %
266	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator - Inspiratory Time	Using Gas Flow Analyzer by Direct Method	0.5 s to 5 s	0.05 s to 0.15 s

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267	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator - Inspiratory Time, Expiratory Time, I:E Ratio	Using Gas Flow Analyzer by Direct Method	0.25 s to 9.99 s (1:1 to 4:1)	0.03 s to 0.06 s
268	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator - Oxygen Percentage	Using Gas flow Analyzer by Direct Method	21 % to 100 %	8.64 %
269	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator - PEEP	Using Gas Flow Analyzer by Direct Method	0 to 40 cmH2O	1.4 cmH2O
270	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator - Respiration Rate	Using Gas Flow Analyzer by Direct Method	12 bpm to 40 bpm	1.46 % to 3.48 %
271	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator - Volume	Using Gas Flow Analyzer by Direct Method	10 ml to 1000 ml	2.31 ml to 41.18 ml

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272	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental Chamber, Climatic Chamber, Humidity Chamber - Multi Position (Minimum 9 Sensors) @ 35°C to 50°C	Using Humidity Data Logger by Comparison Method	20 %RH to 95 %RH	4.67 %RH
273	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental Chamber, Climatic Chamber, Humidity Chamber @ 20 °C to 35 °C - Multi Position (Minimum 9 Sensors)	Using Temperature and Humidity Data Logger by Comparison Method	20 % RH to 95 % RH	2.91 % RH
274	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Environmental Chamber , Climatic Chamber, Humidity Chamber, Humidity Calibrator - Single Position @ 20°C to 50°C	Using Temperature & Humidity Meter with Probe by Comparison Method	10 %RH to 95 %RH	2 %RH

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275	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Sensor / Transducer / Transmitter with Indicator or without Indicator, Thermo Hygrometer, Data Logger with Indicator or without Indicator - @ 20°C to 35°C	Using Temperature & Humidity Meter with Probe & 6½ Digit Multimeter, Temperature and Humidity Generator by Comparison Method	10 %RH to 95 %RH	2 %RH
276	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Sensor / Transducer / Transmitter with Indicator or without Indicator, Thermo Hygrometer, Data Logger with Indicator or without Indicator - @ 35°C to 50°C	Using Temperature & Humidity Meter with Probe & 6½ Digit Multimeter, Temperature and Humidity Generator by Comparison Method	10 %RH to 50 %RH	2 %RH

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277	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Sensor / Transducer / Transmitter with Indicator or without Indicator, Thermo Hygrometer, Data Logger with Indicator or without Indicator - @ 50 %RH	Using RTD & 6½ Digit Multimeter, Temperature & Humidity Meter with Probe, Temperature and Humidity Generator by Comparison Method	5 °C to 50 °C	0.3 °C
278	THERMAL-TEMPERATURE	Dial Thermometer	Using RTD (PT 100), 6½ Digit Multimeter & Liquid Bath by Comparison Method	(-) 35 °C to 140 °C	0.2 °C
279	THERMAL-TEMPERATURE	Dial Thermometer	Using RTD (PT 100), Digital Temperature Indicator & Liquid Bath by Comparison Method	(-) 35 °C to 140 °C	0.2 °C
280	THERMAL-TEMPERATURE	Dial Thermometer	Using RTD (PT 100), 6½ Digit Multimeter & Liquid Bath by Comparison Method	> 140 °C to 250 °C	0.68 °C
281	THERMAL-TEMPERATURE	Dial Thermometer	Using RTD (PT 100), Digital Temperature Indicator & Liquid Bath by Comparison Method	> 140 °C to 250 °C	0.68 °C

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282	THERMAL-TEMPERATURE	Freezer, Cold Chamber, Oven, Furnace, Coating Oven - Multi Position (Minimum 9 Sensors)	Using PT 100 Sensor with Data Logger by Comparison Method	(-) 40 °C to 400 °C	2.6 °C
283	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Block Calibrator - Single Position	Using R Type Thermocouple, 6½ Digit Multimeter by Comparison Method	600 °C to 1200 °C	1.3 °C
284	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Block Calibrator - Single Position	Using R Type Thermocouple, DAQ Temperature Scanner by Comparison Method	600 °C to 1200 °C	1.3 °C
285	THERMAL-TEMPERATURE	Indicator with Sensor of Freezer, Cold Chamber, Oven, Furnace - Single Position	Using RTD (PT 100) & 6½ Digit Multimeter by Comparison Method	(-) 65 ºC to 600 ºC	1.6 ºC
286	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Dry Block Calibrator - Single Position	Using RTD (PT 100), 6½ Digit Multimeter by Comparison Method	(-) 100 °C to 140 °C	0.1 °C
287	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Dry Block Calibrator - Single Position	Using RTD (PT 100), 6½ Digit Multimeter by Comparison Method	140 °C to 600 °C	0.4 °C

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288	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Dry Block Calibrator - Single Position	Using RTD (PT 100), Temperature Indicator by Comparison Method	(-) 100 °C to 140 °C	0.1 °C
289	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Dry Block Calibrator - Single Position	Using RTD (PT 100), Temperature Indicator by Comparison Method	140 °C to 600 °C	0.4 °C
290	THERMAL-TEMPERATURE	IR Digital Thermometer / Gun, Pyrometer (Emissivity 0.95)	Using IR Thermometer, Black Body Source by Comparison Method	> 100 °C to 500 °C	3 °C
291	THERMAL-TEMPERATURE	IR Digital Thermometer / Gun, Pyrometer (Emissivity 0.95)	Using IR Thermometer, Black Body Source by Comparison Method	0 °C to 100 °C	2.88 °C
292	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD (PT 100), Digital Temperature Indicator & Liquid Bath by Comparison Method	(-) 35 °C to 140 °C	0.2 °C
293	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD (PT 100), 6½ Digit Multimeter & Liquid Bath by Comparison Method	(-) 35 °C to 140 °C	0.2 °C

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294	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD (PT 100), Digital Temperature Indicator & Liquid Bath by Comparison Method	> 140 °C to 250 °C	0.68 °C
295	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD (PT 100), 6½ Digit Multimeter & Liquid Bath by Comparison Method	> 140 °C to 250 °C	0.68 °C
296	THERMAL-TEMPERATURE	Oven, Furnace - Multi Position (Minimum 9 Sensors)	Using N Type Thermocouple with Data logger by Comparison Method	400 °C to 1200 °C	3.8 °C
297	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), 6½ Digit Multimeter & Dry Block Calibrator by Comparison Method	(-) 100 °C to (-) 35 °C	0.3 °C
298	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), Temperature Indicator, Dry Block Calibrator by Comparison Method	(-) 100 °C to (-) 35 °C	0.1 °C

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299	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), Temperature Indicator, Liquid Nitrogen Bath by Comparison Method	(-) 196 °C	0.2 °C
300	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), 6½ Digit Multimeter & Liquid Nitrogen Bath by Comparison Method	(-) 196 °C	0.2 °C
301	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), Digital Temperature Indicator & Dry Bath by Comparison Method	(-) 35 °C to 140 °C	0.06 °C
302	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), Digital Temperature Indicator, Dry Block by Comparison Method	140 °C to 600 °C	0.34 °C
303	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), 6½ Digit Multimeter, Dry Bath by Comparison Method	(-) 35 °C to 140 °C	0.05 °C

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	UNIVERSAL CALIBRATION SERVICES PRIVATE LIMITED, PLOT NO-G-43/1&2, G-44/1&2, G-BLOCK, AJANTA NAGAR, MIDC, CHINCHWAD, PUNE, MAHARASHTRA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-2412
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Validity	10/09/2024 to 09/09/2026
Last Amended on	17/09/2025

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
304	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator / Data Logger / Recorder	Using RTD (PT 100), 6½ Digit Multimeter, Dry Block by Comparison Method	140 °C to 600 °C	0.4 °C
305	THERMAL-TEMPERATURE	Thermocouple with or without Indicator / Data Logger / Recorder	Using R Type Thermocouple, 6½ Digit Multimeter, Temperature Indicator, Dry Block by Comparison Method	600 °C to 1200 °C	1.28 °C

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