SCOPE OF ACCREDITATION

Laboratory Name : ARROW INSTRUMENTS CALIBRATION, 6/875, LAKSHMI NAGAR, THOPPAMPATTI, COIMBATORE, TAMIL NADU, INDIA

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	By using Standard Digital Multimeter by Direct Method	10 mA to 100 mA	0.30 % to 0.22 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	By using Standard Digital Multimeter by Direct Method	100 µA to 1 mA	0.38 % to 0.22 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	By using Standard Digital Multimeter by Direct Method	100 mA to 1 A	0.22 % to 0.28 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	By using Standard Digital Multimeter by Direct Method	1 A to 10 A	0.28 % to 0.30 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	By using Standard Digital Multimeter by Direct Method	1 mA to 10 mA	0.22 % to 0.30 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @50 Hz	Using High voltage probe with DMM by Comparison Method	0.5 kV to 5 kV	5%
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	By using Standard Digital Multimeter by Direct Method	10 mV to 100 mV	0.60 % to 0.12 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	By using Standard Digital Multimeter by Direct Method	100 mV to 1000 V	0.12 % to 0.10 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Standard Multifunction Calibrator with Current Coil by Direct Method	10 A to 500 A	1.00 % to 0.48 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	By using Standard Multifunction Calibrator by Direct Method	1 A to 10 A	0.24 % to 0.38 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	By using Standard Multifunction Calibrator by Direct Method	1 mA to 100 mA	0.30%
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	By using Standard Multifunction Calibrator by Direct Method	100 µA to 1 mA	0.68 % to 0.30 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	By using Standard Multifunction Calibrator by Direct Method	100 mA to 1 A	0.30 % to 0.34 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	By using Standard Multifunction Calibrator by Direct Method	10 mV to 100 mV	0.76 % to 0.17 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	By using Standard Multifunction Calibrator by Direct Method	100 mV to 1000 V	0.17%

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	By using Decade Capacitance Box by Direct Method	100 pF to 10 µF	1.20%
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	By using Standard Multifunction Calibrator by Direct Method	10 nF	1.48%
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	By using Standard Multifunction Calibrator by Direct Method	100 nF	0.93%
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	By using Standard Multifunction Calibrator by Direct Method	1 µF	1.5%
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1kHz	By using Decade inductance Box by Direct Method	100 µH to 10 H	1.20%
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using Standard Digital Multimeter by Direct Method	1 A to 10 A	0.086 % to 0.20 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using Standard Digital Multimeter by Direct Method	1 mA to 10 mA	0.066 % to 0.080 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using Standard Digital Multimeter by Direct Method	10 mA to 100 mA	0.080 % to 0.14 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using Standard Digital Multimeter by Direct Method	100 µA to 1 mA	0.096 % to 0.066 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using Standard Digital Multimeter by Direct Method	100 mA to 1 A	0.14 % to 0.086 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High voltage probe with DMM by Comparison Method	0.5 kV to 5 kV	2.3%
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using Standard Digital Multimeter by Direct Method	1 V to 10 V	0.004 % to 0.0052 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using Standard Digital Multimeter by Direct Method	10 mV to 100 mV	0.044 % to 0.0092 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using Standard Digital Multimeter by Direct Method	10 V to 1000 V	0.0052 % to 0.0064 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using Standard Digital Multimeter by Direct Method	100 mV to 1 V	0.0092 % to 0.004 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using Standard Digital Multimeter by Direct Method	1 mV to 10 mV	0.44 % to 0.044 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using Standard Digital Multimeter by Direct Method	1 ohm to 10 ohm	1.22 % to 0.12 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using Standard Digital Multimeter by Direct Method	1 kohm to 10 kohm	0.014 % to 0.02 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using Standard Digital Multimeter by Direct Method	1 Mohm to 10 Mohm	0.014 % to 0.06 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using Standard Digital Multimeter by Direct Method	10 ohm to 100 ohm	0.12 % to 0.026 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using Standard Digital Multimeter by Direct Method	10 kohm to 100 kohm	0.02 % to 0.014 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using Standard Digital Multimeter by Direct Method	10 Mohm to 100 Mohm	0.06 % to 0.94 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using Standard Digital Multimeter by Direct Method	100 ohm to 1 kohm	0.026 % to 0.014 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using Standard Digital Multimeter by Direct Method	100 kohm to 1 Mohm	0.014 % to 0.016 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By using Standard Multifunction Calibrator by Direct Method	1 A to 10 A	0.28 % to 0.22 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By using Standard Multifunction Calibrator by Direct Method	1 mA to 10 mA	0.18%
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By using Standard Multifunction Calibrator by Direct Method	10 µA to 100 µA	2.80 % to 0.28 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By using Standard Multifunction Calibrator with Current Coil by Direct Method	10 A to 500 A	0.80 % to 0.36 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By using Standard Multifunction Calibrator by Direct Method	10 mA to 100 mA	0.18 % to 0.14 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By using Standard Multifunction Calibrator by Direct Method	100 µA to 1 mA	0.28 % to 0.18 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By using Standard Multifunction Calibrator by Direct Method	100 mA to 1 A	0.14 % to 0.28 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	By using Standard Multifunction Calibrator by Direct Method	1 V to 1000 V	0.013 % to 0.015 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	By using Standard Multifunction Calibrator by Direct Method	10 mV to 100 mV	0.12 % to 0.022 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	By using Standard Multifunction Calibrator by Direct Method	100 mV to 1 V	0.022 % to 0.013 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	By using Standard Multifunction Calibrator by Direct Method	1 mV to 10 mV	1.33 % to 0.12 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	By using Standard Multifunction Calibrator by Direct Method	1 kohm to 10 kohm	0.078 % to 0.06 %

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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	By using Standard Multifunction Calibrator by Direct Method	1 ohm to 10 ohm	5.84 % to 0.60 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	By using Standard Multifunction Calibrator by Direct Method	10 kohm to 10 Mohm	0.06%
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	By using Standard Multifunction Calibrator by Direct Method	10 ohm to 100 ohm	0.60 % to 0.082 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 kOhm to 1 Gohm	2%
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	By using Standard Multifunction Calibrator by Direct Method	100 ohm to 1 kohm	0.082 % to 0.078 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	By using Resistance Box by Direct Method	500 µOhm to 10 kOhm	0.50 % to 0.10 %

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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	400 °C to 1800 °C	1.14°C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1000 °C	0.30°C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1200 °C	0.35°C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1350 °C	0.48°C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1300 °C	0.47°C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	150 °C to 1750 °C	0.90°C

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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD - PT100	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 800 °C	0.39°C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	150 °C to 1750 °C	0.90°C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 400 °C	0.36°C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	400 °C to 1800 °C	1.16°C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1000 °C	0.29°C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1200 °C	0.36 °C

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1350 °C	0.47°C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1300 °C	0.48°C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	150 °C to 1750 °C	0.90°C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - PT100	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 800 °C	0.39°C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	150 °C to 1750 °C	0.90°C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 400 °C	0.35°C

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76	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer, Stop Watch, Analog Timer	Using Digital Time Calibrator by Comparison Method	1 s to 10 s	0.01 s to 0.08 s
77	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer, Stop Watch, Analog Timer	Using Digital Time Calibrator by Comparison Method	10 s to 500 s	0.08 s to 0.32 s
78	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer, Stop Watch, Analog Timer	Using Digital Time Calibrator by Comparison Method	40000 s to 84400 s	23.12 s to 48.80 s
79	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer, Stop Watch, Analog Timer	Using Digital Time Calibrator by Comparison Method	500 s to 10000 s	0.32 s to 5.78 s
80	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer,Stop Watch, Analog Timer	Using Digital Time Calibrator by comparision Method	10000 s to 40000 s	5.78 s to 23.12 s
81	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Standard Digital Multimeter by Direct Method	50 Hz to 100 Hz	0.58%

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82	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Standard Multifunction Calibrator by Direct Method	100 Hz to 100 kHz	0.58%
83	MECHANICAL-ACCELERATION AND SPEED	Contact Tachometer Mechanical and Digital tachometers / RPM indicators	Using Standard Tachometer, Source of Digital RPM Calibrator as per SANAS TR-45-2 by comparison Method	12 rpm to 100 rpm	0.90 rpm
84	MECHANICAL-ACCELERATION AND SPEED	Contact Tachometer Mechanical and Digital tachometers / RPM indicators	Using Standard Tachometer, Source of Digital RPM Calibrator as per SANAS TR-45-2 by comparison Method	100 rpm to 1000 rpm	1.68 rpm
85	MECHANICAL-ACCELERATION AND SPEED	Contact Tachometer Mechanical and Digital tachometers / RPM indicators	Using Standard Tachometer, Source of Digital RPM Calibrator as per SANAS TR-45-2 by comparison Method	1000 rpm to 10000 rpm	2.81 rpm
86	MECHANICAL-ACCELERATION AND SPEED	Non - Contact Tachometer (Mechanical and Digital tachometers / RPM indicators)	Using Standard Tachometer, Source of Digital RPM Calibrator as per SANAS TR-45-2 by comparison Method	12 rpm to 100 rpm	0.48 rpm

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87	MECHANICAL-ACCELERATION AND SPEED	Non - Contact Tachometer (Mechanical and Digital tachometers / RPM indicators)	Using Standard Tachometer, Source of Digital RPM Calibrator as per SANAS TR-45-2 by comparison Method	100 rpm to 1000 rpm	0.88 rpm
88	MECHANICAL-ACCELERATION AND SPEED	Non - Contact Tachometer (Mechanical and Digital tachometers / RPM indicators)	Using Standard Tachometer, Source of Digital RPM Calibrator as per SANAS TR-45-2 by comparison Method	1000 rpm to 10000 rpm	2.13 rpm
89	MECHANICAL-ACCELERATION AND SPEED	Non - Contact Tachometer (Mechanical and Digital tachometers / RPM indicators)	Using Standard Tachometer, Source of Digital RPM Calibrator as per SANAS TR-45-2 by comparison Method	10000 rpm to 90000 rpm	15.14 rpm
90	MECHANICAL-ACOUSTICS	Sound Level Meter / Noise Meter / Decibel Meter @1kHz	Using Sound Level Calibrator by Direct Method	94 dB	0.88dB
91	MECHANICAL-ACOUSTICS	Sound Level Meter / Noise Meter / Decibel Meter @1kHz	Using Sound Level Calibrator by Direct Method	114 dB	1.06 dB

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92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector/ Combination Set L.C: 5 minutes	Using VMM by Comparison Method	0 ° to 360 °	5.18minutes of arc
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauges Transmission Only (L.C: 0.001 mm)	Using Universal Length Measuring Machine by comparison method	0 to 2 mm	3.4 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C: 0.1 µm)	Using Coating thickness Foils by comparison method	0.01 mm to 2 mm	2.21 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould / Template	Using Vernier Caliper by comparison method	Upto to 300 mm	26 µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin/ Thread Measuring Wire	Using Universal Length Measuring Machine by comparison method	0.1 mm to 25 mm	0.6 µm

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97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (Mech/Electronic / Dial) (L.C: 0.01 mm)	Using Gauge Blocks/ Long Gauge Blocks By Comparison Method	0 to 300 mm	6.2 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (Analog/ Digital) (L.C: 0.001 mm)	Using Gauge Blocks/ Long Gauge Blocks By Comparison Method	0 to 300 mm	8.4 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge/ Snap Gauge (Fixed/ Adjustable)	Using Gauge blocks and Universal Length Measuring Machine by comparison method	100 mm to 300 mm	3.5 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge/ Snap Gauge (Fixed/ Adjustable)	Using Gauge blocks and Universal Length Measuring Machine by comparison method	2 mm to 100 mm	2 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C: 0.001 mm)	Using Gauge Blocks by Comparison Method	0 to 25 mm	1 µm

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102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog/ Digital) (L.C: 0.001 mm)	Using Gauge Blocks/ Long Gauge Blocks By Comparison Method	100 mm to 300 mm	2.2 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog/ Digital) (L.C: 0.001 mm)	Using Gauge Blocks/ Long Gauge Blocks By Comparison Method	300 mm to 500 mm	7.8 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog/ Digital) (L.C: 0.001mm)	Using Gauge Blocks/ Long Gauge Blocks By Comparison Method	0 to 100 mm	1 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler gauge	Using Universal Length Measuring Machine by comparison method	0.03 mm to 2 mm	1 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dia/ Digital) (L.C: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 600 mm	11 µm

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107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer	Using Gauge Blocks/Long Slip Gauge/ULM by comparison method	0 to 1000 mm	3.6 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial (Analog/ Digital) (L.C: 0.001 mm)	Using Universal Length Measuring Machine by comparison method	0 to 0.14 mm	1.4 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial (Analog/ Digital) (L.C: 0.002 mm)	Using Universal Length Measuring Machine by comparison method	0 to 0.200 mm	2 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial (Analog/ Digital) (L.C: 0.01 mm)	Using Universal Length Measuring Machine by comparison method	0 to 2 mm	5.8 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C: 1 mm)	Using Tape/ Scale Calibrator by Comparison Method	Upto 50 m	58 X Sqrt(L) µm

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112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Universal Length Measuring Machine by comparison method	25 mm to 375 mm	4.2 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape	Using Scale Calibrator by Comparision method	0 mm to 6600 mm	60 X SQRT(L) µm; Where L in mm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C: 0.1 mm)	Using Gauge blocks by comparison method	0 to 200 mm	65 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Segmental Plug Gauge	Using ULM by Comparison Method	1 mm to 100 mm	1.2 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Segmental Plug Gauge	Using Universal Length Measuring Machine by comparison method	200 mm to 300 mm	3.6 µm

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117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Setting Ring Gauge	Using Ulm & Master Ring Gauge by Comparison Method	100 mm to 300 mm	3.3 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Setting Ring Gauge	Using Ulm & Master Ring Gauge by Comparison Method	3 mm to 100 mm	2.4 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial (Analog/ Digital) (L.C: 0.001 mm)	Using Universal Length Measuring Machine by comparison method	0 to 25 mm	1 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial (Analog/ Digital) (L.C: 0.01 mm)	Using Universal Length Measuring Machine by comparison method	0 to 100 mm	5.8 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge / Pitch Gauge	Using VMM by Comparison Method	0.6 mm to 25 mm	7.2 µm

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122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale/ Shrinkage scale L.C: 0.5 mm	Using Tape/ Scale Calibrator by Comparison Method	0 to 2000 mm	60 X SQRT(L) µm; Where L in mm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sprit Level (L.C: 0.01mm/m)	Using Sprit Level (L.C.: 0.001 mm/m) by Comparison Method	Upto to 300 mm	1.5 µm/m
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sprit Level (L.C: 0.02 mm/m)	Using Sprit Level (L.C.: 0.001 mm/m) by Comparison Method	Upto to 300 mm	1.5 µm/m
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Sprit Level (L.C: 0.001 mm/m) by Comparison Method	200 X 200 mm to 3000 X 3000 mm	1.150*(Sqrt(L+W)/150)µm; where L & W in mm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using VMM by Comparison Method	0.025 mm to 4 mm	6.1 µm

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127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using Universal Length Measuring Machine by comparison method	0.009 mm to 2 mm	8 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective diameter)	Using ULM & Thread Measuring Wire by Comparison Method	100 mm to 300 mm	3.5 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective diameter)	Using ULM & Thread Measuring Wire by Comparison Method	3 mm to 100 mm	2.2 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective diameter)	Using ULM and Master Ring Gauge by Comparison Method	100 mm to 300 mm	3.5 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge(Effective diameter)	Using ULM and Master Ring Gauge by Comparison Method	6 mm to 100 mm	2.1 µm

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132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge	Using Gauge Block & Long Slip Gauge by Comparison Method	0 to 200 mm	46 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Mech/Electronic / Dial) (L.C: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 1000 mm	16.5 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Universal Length Measuring Machine by comparison method	Upto to 200 mm	2.8 µm
135	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope L.C : 0.0001mm Linear	Using Gauge Blocks/ Long Gauge Blocks By Comparison Method	0 to 300 mm	0.0025mm
136	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope L.C : 0.0001mm Magnification	Using Gauge Blocks/ Long Gauge Blocks By Comparison Method	1 X to 100 X	0.50%

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137	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope L.C: 1 s (Angle)	Using Angle Gauge Blocks By Comparison Method	0 ° to 360 °	4minutes of arc
138	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale and Tape Calibrator (L.C: 0.001 mm)	Using Gauge Blocks/ Long Gauge Blocks By Comparison Method	0 to 1000 mm	9.8 µm
139	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C: 0.0001 mm)	Using Gauge Blocks/ Long Gauge Blocks By Comparison Method	0 to 100 mm	0.9 µm
140	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Force Gauge/ Push Pull Gauge	Using F1 Class Newton Weight with frame fixture as per VDI/VDE 2624- Part 2.1: 2008 by Direct Method	0 to 1000 N	0.50%
141	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic - Pressure Gauges, Pressure Transducer / Transmitter, Oil free Gauges Pressure Modules/ switches Pressure Calibrators, Digital Pressure Indicators Transducer / Transmitter with indicators	Using Digital Pressure Calibrator, DMM and Hydraulic Pump by Comparison Method. Procedure as per DKD-R 6-1 guidelines.	0 bar to 700 bar	0.39bar

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142	MECHANICAL-PRESSURE INDICATING DEVICES	Pnematic-Pressure Gauges, Pressure Transducer / Transmitter, Oil free Gauges Pressure Modules, Pressure switches Manometers,Magnehelic Gauges, Digital Pressure Indicators, DP gauges	Using Digital Pressure Calibrator and Pneumatic Pump by Comparison Method. Procedure as per DKD-R 6-1 guidelines.	0 mbar to 2000 mbar	2.2mbar
143	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic - Pressure Gauges, Pressure Transducer / Transmitter, Oil free Gauges Pressure Modules, Pressure switches Manometers,Magnehelic Gauges, Digital Pressure Indicators, DP gauges	Using Digital Pressure Gauge and Pneumatic Pump by Comparison Method. Procedure as per DKD-R 6-1 guidelines.	-200 mbar to 200 mbar	0.83mbar

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144	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic - Pressure Gauges, Pressure Transducer / Transmitter, Oil free Gauges Pressure Modules/ switches , Digital Pressure Indicators Transducer / Transmitter with indicators	Using Digital Pressure Calibrator, DMM and Pneumatic Pump by Comparison Method. Procedure as per DKD-R 6-1 guidelines.	0 bar to 20 bar	0.016bar
145	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Vacuum Gauges, Compound Gauges Vacuum Transducer, Vacuum Transmitter, Vacuum switches, Vacuum Modules, Vacuum sensor	Using Digital Pressure Calibrator and Pneumatic Pump by Comparison Method. Procedure as per DKD-R 6-1 guidelines.	-0.9 bar to 0 bar	0.006bar
146	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Compression Testing Machine in Compression Mode	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	50 kN to 500 kN	0.50%

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147	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Compression Testing Machine in Compression Mode - Class '0.5' and coarser	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	1 kN to 10 kN	0.50%
148	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Compression Testing Machine in Compression Mode - Class '0.5' and coarser	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	5 kN to 50 kN	0.50%
149	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Compression Testing Machine in Compression Mode - Class '0.5' and coarser	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	50 N to 1000 N	0.50%
150	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Compression Testing Machine in Compression Mode - Class 'I' and coarser	Using Class 'I' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	400 kN to 2000 kN	0.50%

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151	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Tensile Testing Machine in Tension Mode	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	5 kN to 50 kN	0.50%
152	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Tensile Testing Machine in Tension Mode - Class '0.5' and coarser	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	1 kN to 10 kN	0.50%
153	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Tensile Testing Machine in Tension Mode - Class '0.5' and coarser	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	10 N to 1000 N	0.50%
154	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Tensile Testing Machine in Tension Mode - Class '0.5' and coarser	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	50 kN to 500 kN	0.68%

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155	MECHANICAL-VOLUME	MicroPipettes	Using standard electronic balance Readability = 0.01mg, capacity 220 g, Distilled water of grade III, in accordance with ISO 8655-6, gravimetric method.	>10 µl to 1000 µl	1.21µl
156	MECHANICAL-VOLUME	MicroPipettes	Using standard electronic balance Readability = 0.01 mg, capacity 220 g, Distilled water of grade III, in accordance with ISO 8655-6, gravimetric method.	1000 µl to 10000 µl	2.41µl
157	MECHANICAL-VOLUME	Pipettes Burettes, Volume flasks, Graduated jar, Conical flask Syringe (Non-Medical purpose only), Dispenser, Measuring Jar, Measuring Cylinder, Standard Flask	Using standard electronic balance Readability = 0.01mg, Distilled water of grade III, in accordance with IS/ISO 4787:2010, by gravimetric method	0.1 ml to 50 ml	0.02ml

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158	MECHANICAL-VOLUME	Pipettes Burettes, Volume flasks, Graduated jar, Conical flask Syringe (Non-Medical purpose only), Dispenser, Measuring Jar, Measuring Cylinder, Standard Flask	Using Electronic balance Readability = 0.001g by Gravimetric method as per ISO 4787: 2021	100 ml to 500 ml	0.77ml
159	MECHANICAL-VOLUME	Pipettes Burettes, Volume flasks, Graduated jar, Conical flask Syringe (Non-Medical purpose only), Dispenser, Measuring Jar, Measuring Cylinder, Standard Flask	Using standard electronic balance Readability = 0.01g, capacity 5 kg, Distilled water of grade III, in accordance with IS/ISO 4787 by gravimetric method	1000 ml to 2000 ml	0.32ml
160	MECHANICAL-VOLUME	Pipettes Burettes, Volume flasks, Graduated jar, Conical flask Syringe (Non-Medical purpose only), Dispenser, Measuring Jar, Measuring Cylinder, Standard Flask	Using standard electronic balance Readability = 0.001g, Distilled water of grade III, in accordance with IS/ISO 4787:2010, by gravimetric method	50 ml to 100 ml	0.04ml

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161	MECHANICAL-VOLUME	Pipettes Burettes, Volume flasks, Graduated jar, Conical flask Syringe (Non-Medical purpose only), Dispenser, Measuring Jar, Measuring Cylinder, Standard Flask	Using standard electronic balance Readability = 0.1g, Distilled water of grade III, in accordance with IS/ISO 4787:2010, by gravimetric method	500 ml to 10000 ml	2.90ml
162	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance (Class I, Readability = 0.01 mg)	Using E1 Class standard reference weights as per OIML R 76-1: 2006	1 mg to 220 g	0.30mg
163	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance (Class I, Readability = 0.1 mg)	Using E1 Class standard reference weights in accordance with OIML R76-1: 2006	1 mg to 220 g	2mg
164	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance (Class II, Readability = 0.01 g)	Using E2 Class standard reference weights as per OIML R 76-1: 2006	1 g to 3000 g	30mg
165	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance (Class III, Readability = 0.001 kg)	Using F1 and M1 Class standard reference weights in accordance with OIML R76-1: 2006	0 to 30 kg	1g

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166	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance (Class III, Readability = 1 g)	Using E2 & F1 Class standard reference weights as per OIML R 76-1: 2006	1 g to 20000 g	1g
167	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance (Class IV, Readability = 0.05 kg)	Using F1 and M1 Class standard reference weights as per OIML R 76-1: 2006	0.1 kg to 300 kg	250g
168	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance (Class IV, Readability = 0.1 kg)	Using M1 Class standard reference weights as per OIML R 76-1: 2006	1 kg to 1000 kg	200g
169	MECHANICAL-WEIGHTS	Weights (F1 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.01mg, capacity 60 g, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	1 g	0.01mg
170	MECHANICAL-WEIGHTS	Weights (F1 Class & coarser)	Using E2 standard reference weights Electronic balance Readability = 0.01mg	100 g	0.1mg

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171	MECHANICAL-WEIGHTS	Weights (F1 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.01mg, capacity 60 g, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	2 g	0.02mg
172	MECHANICAL-WEIGHTS	Weights (F1 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.01mg, capacity 60 g, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	20 g	0.03mg
173	MECHANICAL-WEIGHTS	Weights (F1 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.1mg, capacity 220 g, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	200 g	0.3mg

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174	MECHANICAL-WEIGHTS	Weights (F1 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.01mg, capacity 60 g, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	5 g	0.02mg
175	MECHANICAL-WEIGHTS	Weights (F1 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.01 mg, capacity 60 g, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	50 g	0.04mg
176	MECHANICAL-WEIGHTS	Weights (F1 Class & coraser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.01mg, capacity 60 g, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	10 g	0.02mg

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177	MECHANICAL-WEIGHTS	Weights (F2 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.01mg, capacity 60 g, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	1 mg	0.02mg
178	MECHANICAL-WEIGHTS	Weights (F2 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.01mg, capacity 60 g, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	10 mg	0.02mg
179	MECHANICAL-WEIGHTS	Weights (F2 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.01mg, capacity 60 g, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	100 mg	0.03mg

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180	MECHANICAL-WEIGHTS	Weights (F2 Class & coarser)	Using E2 standard reference weights Electronic balance Readability = 0.01mg	2 mg	0.02mg
181	MECHANICAL-WEIGHTS	Weights (F2 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.01mg, capacity 60 g, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	20 mg	0.03mg
182	MECHANICAL-WEIGHTS	Weights (F2 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.01mg, capacity 60 g, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	200 mg	0.03mg

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183	MECHANICAL-WEIGHTS	Weights (F2 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.01mg, capacity 60 g, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	5 mg	0.02mg
184	MECHANICAL-WEIGHTS	Weights (F2 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.01mg, capacity 60 g, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	50 mg	0.03mg
185	MECHANICAL-WEIGHTS	Weights (F2 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.01mg, capacity 60 g, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	500 mg	0.03mg

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186	MECHANICAL-WEIGHTS	Weights (M1 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 1 mg, capacity 1 kg, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	1 kg	1mg
187	MECHANICAL-WEIGHTS	Weights (M1 Class & coarser)	Using F1 Accuracy Class standard reference weights Electronic balance Readability = 0.1 g, capacity 20 kg, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	10 kg	100mg
188	MECHANICAL-WEIGHTS	Weights (M1 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 0.01 g, capacity 5 kg, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	2 kg	10mg

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189	MECHANICAL-WEIGHTS	Weights (M1 Class & coarser)	Using F1 Accuracy Class standard reference weights Electronic balance Readability = 0.1 g, capacity 20 kg, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	20 kg	100mg
190	MECHANICAL-WEIGHTS	Weights (M1 Class & coarser)	Using E2 standard reference weights Electronic balance Readability = 0.01g	5 kg	10mg
191	MECHANICAL-WEIGHTS	Weights (M1 Class & coarser)	Using E2 Accuracy Class standard reference weights Electronic balance Readability = 1 mg, capacity 1 kg, as per OIML R111-1: 2004, substitution method, ABBA Cycle.	500 g	1mg

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192	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity of Analog / Digital Hygrometers / Humidity Indicators, Humidity Meters, ThermoHygrographs ,Temperature Humidity Sensors/Data Loggers /Transmitters @25°C	Using Temperature & Humidity Indicator with Sensor, Temperature & Humidity Chamber by Comparison Method as per DKD R-5-7	20 %rh to 95 %rh	2.02%rh
193	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity of Analog / Digital Hygrometers / Humidity Indicators, Humidity Meters, ThermoHygrographs ,Temperature Humidity Sensors/Data Loggers /Transmitters @50 %rh	Using Temperature & Humidity Indicator with Sensor, Temperature & Humidity Chamber by Comparison Method as per DKD R-5-7	10 °C to 50 °C	0.32°C
194	THERMAL-TEMPERATURE	Cryostatic bath, Oil bath, Temperature Baths, Water Bath, Furnace, Dry block calibrators, Deep Freezer, Refrigerator Incubator, Autoclave (For Non-medical Purpose)	Using Standard S Type With MFC, by Comparison Method as per Euramet cg-13/v-01	>400 °C to 1200 °C	2.58°C

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195	THERMAL-TEMPERATURE	Cryostatic bath, Oil bath, Temperature Baths, Water Bath, Furnace, Dry block calibrators, Deep Freezer, Refrigerator Incubator, Autoclave (For Non-medical Purpose)	Using Standard RTD with DMM by Comparison Method as per Euramet cg-13/v-01	100 °C to 400 °C	1.54 °C
196	THERMAL-TEMPERATURE	Cryostatic bath, Oil bath, Temperature Baths, Water Bath, Furnace, Dry block calibrators, Deep Freezer, Refrigerator, BOD Incubator, Hot air oven, Hot Plate, Cold Chamber, Humidity Chamber, Climatic chamber	Using Standard RTD with DMM by Comparison Method as per Euramet cg-13/v-01	-80 °C to 100 °C	0.98°C
197	THERMAL-TEMPERATURE	Liquid in Glass Thermometers, Temperature Gauge	Using Standard RTD with DMM, Liquid Bath by Comparison Method as per IS 6274: 1971, OIML R 133	50 °C to 250 °C	0.72°C

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198	THERMAL-TEMPERATURE	Liquid in Glass Thermometers, Temperature Gauge	Using Standard RTD with DMM, Liquid Bath by Comparison Method as per IS 6274: 1971, OIML R 133	-10 °C to 50 °C	0.62°C
199	THERMAL-TEMPERATURE	RTD’s / Thermocouples (with or without Indicator), Data Logger / Recorder with sensors, Probe / Bi-metal / Capillary Thermometers, Temperature Indicators with sensors, Temperature Transmitter, Thermos	Using Standard RTD with DMM, Liquid Bath & Dry Block Calibrator by Comparison Method as per Euramet cg-08/v-2.1 & DKD-R5-1	100 °C to 400 °C	0.46°C

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200	THERMAL-TEMPERATURE	RTD’s / Thermocouples (with or without Indicator), Data Logger / Recorder with sensors, Probe / Bi-metal / Capillary Thermometers, Temperature Indicators with sensors, Temperature transmitter, Thermos	Using Standard S-type thermocouple with MFC,Dry Block Calibrator by Comparison Method as per Euramet cg-08/v-2.1 & DKD-R5-1	>400 °C to 1200 °C	1.92°C
201	THERMAL-TEMPERATURE	RTD’s / Thermocouples (with or without Indicator),Data Logger / Recorder with sensors, Probe / Bi- metal / Capillary Thermometers, Temperature Indicators with sensors, Temperature Transmitter, Thermos	Using Standard RTD with DMM, Liquid Bath & Dry Block Calibrator by Comparison Method as per Euramet cg-08/v-2.1 & DKD-R5-1	-80 °C to 100 °C	0.46°C

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202	THERMAL-TEMPERATURE	Temperature indicator with sensor of Thermal Chamber, Cold Room, Furnace, Oven, Water bath, Deep Freezer, Refrigerator, Incubator, Autoclave (For Non- medical Purpose) - Single Position	Using Standard Multichannel recorder With N-Type Thermocouple/ Using Standard S Type With Indicator by Comparison Method	400 °C to 1200 °C	2.4°C
203	THERMAL-TEMPERATURE	Temperature indicator with sensor of Thermal Chamber, Cold Room, Furnace, Oven, Water bath, Deep Freezer, Refrigerator, Incubator, Autoclave (For Non- medical Purpose)- (Single Position)	Using Standard RTD with Temperature Indicator by Comparison Method as per Euramet cg-13/v-01	-80 °C to 100 °C	0.86°C

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204	THERMAL-TEMPERATURE	Temperature indicator with sensor of Thermal Chamber, Cold Room, Furnace, Oven, Water bath, Deep Freezer, Refrigerator, Incubator, Autoclave (For Non- medical Purpose)- Single Position	Using Standard RTD with Temperature Indicator by Comparison Method as per Euramet cg-13/v-01	100 °C to 400 °C	0.58°C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @50 Hz	Using High voltage probe with DMM by Comparison Method	0.5 kV to 5 kV	5%
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Standard Multifunction Calibrator with Current Coil by Direct Method	10 A to 500 A	1.00 % to 0.48 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	By using Standard Multifunction Calibrator by Direct Method	1 A to 10 A	0.24 % to 0.38 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	By using Standard Multifunction Calibrator by Direct Method	1 mA to 100 mA	0.30%
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	By using Standard Multifunction Calibrator by Direct Method	100 µA to 1 mA	0.68 % to 0.30 %

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6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	By using Standard Multifunction Calibrator by Direct Method	100 mA to 1 A	0.30 % to 0.34 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	By using Standard Multifunction Calibrator by Direct Method	10 mV to 100 mV	0.76 % to 0.17 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	By using Standard Multifunction Calibrator by Direct Method	100 mV to 1000 V	0.17%
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	By using Decade Capacitance Box by Direct Method	100 pF to 10 µF	1.20%
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	By using Standard Multifunction Calibrator by Direct Method	10 nF	1.48%
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	By using Standard Multifunction Calibrator by Direct Method	100 nF	0.93%

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12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	By using Standard Multifunction Calibrator by Direct Method	1 µF	1.5%
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1kHz	By using Decade inductance Box by Direct Method	100 µH to 10 H	1.20%
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High voltage probe with DMM by Comparison Method	0.5 kV to 5 kV	2.3%
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using Standard Multifunction Calibrator by Direct Method	1 ohm to 400 ohm	0.59 % to 0.045 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using Standard Multifunction Calibrator by Direct Method	400 ohm to 4000 ohm	0.045 % to 0.13 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By using Standard Multifunction Calibrator by Direct Method	1 A to 10 A	0.28 % to 0.22 %

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18	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By using Standard Multifunction Calibrator by Direct Method	1 mA to 10 mA	0.18%
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By using Standard Multifunction Calibrator by Direct Method	10 µA to 100 µA	2.80 % to 0.28 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By using Standard Multifunction Calibrator with Current Coil by Direct Method	10 A to 500 A	0.80 % to 0.36 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By using Standard Multifunction Calibrator by Direct Method	10 mA to 100 mA	0.18 % to 0.14 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By using Standard Multifunction Calibrator by Direct Method	100 µA to 1 mA	0.28 % to 0.18 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By using Standard Multifunction Calibrator by Direct Method	100 mA to 1 A	0.14 % to 0.28 %

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24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	By using Standard Multifunction Calibrator by Direct Method	1 V to 1000 V	0.013 % to 0.015 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	By using Standard Multifunction Calibrator by Direct Method	10 mV to 100 mV	0.12 % to 0.022 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	By using Standard Multifunction Calibrator by Direct Method	100 mV to 1 V	0.022 % to 0.013 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	By using Standard Multifunction Calibrator by Direct Method	1 mV to 10 mV	1.33 % to 0.12 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	By using Standard Multifunction Calibrator by Direct Method	1 kohm to 10 kohm	0.078 % to 0.06 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	By using Standard Multifunction Calibrator by Direct Method	1 ohm to 10 ohm	5.84 % to 0.60 %

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30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	By using Standard Multifunction Calibrator by Direct Method	10 kohm to 10 Mohm	0.06%
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	By using Standard Multifunction Calibrator by Direct Method	10 ohm to 100 ohm	0.60 % to 0.082 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 kOhm to 1 Gohm	2%
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	By using Standard Multifunction Calibrator by Direct Method	100 ohm to 1 kohm	0.082 % to 0.078 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	By using Resistance Box by Direct Method	500 µOhm to 10 kOhm	0.50 % to 0.10 %
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	400 °C to 1800 °C	1.14°C

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36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1000 °C	0.30°C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1200 °C	0.35°C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1350 °C	0.48°C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1300 °C	0.47°C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	150 °C to 1750 °C	0.90°C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD - PT100	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 800 °C	0.39°C

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42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	150 °C to 1750 °C	0.90°C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 400 °C	0.36°C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	400 °C to 1800 °C	1.16°C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1000 °C	0.29°C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1200 °C	0.36 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1350 °C	0.47°C

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48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 1300 °C	0.48°C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	150 °C to 1750 °C	0.90°C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - PT100	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 800 °C	0.39°C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	150 °C to 1750 °C	0.90°C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Standard Multifunction Calibrator by Direct Method	-200 °C to 400 °C	0.35°C
53	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer, Stop Watch, Analog Timer	Using Digital Time Calibrator by Comparison Method	1 s to 10 s	0.01 s to 0.08 s

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54	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer, Stop Watch, Analog Timer	Using Digital Time Calibrator by Comparison Method	10 s to 500 s	0.08 s to 0.32 s
55	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer, Stop Watch, Analog Timer	Using Digital Time Calibrator by Comparison Method	40000 s to 84400 s	23.12 s to 48.80 s
56	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer, Stop Watch, Analog Timer	Using Digital Time Calibrator by Comparison Method	500 s to 10000 s	0.32 s to 5.78 s
57	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer,Stop Watch, Analog Timer	Using Digital Time Calibrator by comparision Method	10000 s to 40000 s	5.78 s to 23.12 s
58	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Standard Multifunction Calibrator by Direct Method	5 Hz to 50 kHz	0.016%
59	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Standard Multifunction Calibrator by Direct Method	100 Hz to 100 kHz	0.58%

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60	FLUID FLOW-FLOW MEASURING DEVICES	Electromagnetic flow meter, Ultrasonic Flow meter, Flow Totaliser Rotameter, Mechanical Flow meter, Turbine Type Flow meter, Orifice Type Flow meter	Using Standard Ultrasonic Flow meter by comparison Method	0.32 m^3/hr to 6 m^3/hr	1.84 %
61	FLUID FLOW-FLOW MEASURING DEVICES	Electromagnetic flow meter, Ultrasonic Flow meter, Rotameter, Mechanical Flow meter, Turbine Type Flow meter, Flow Totaliser Orifice Type Flow meter	Using Ultrasonic Flow meter by comparison Method	6 m^3/hr to 138 m^3/hr	1.70 %
62	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/ RPM indicators/ Stirrers	Using Standard Tachometer as per SANAS TR-45-2 by comparison Method	100 rpm to 1000 rpm	0.93 rpm
63	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/ RPM indicators/ Stirrers	Using Standard Tachometer as per SANAS TR-45-2 by comparison Method	1000 rpm to 10000 rpm	2.15 rpm
64	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/ RPM indicators/ Stirrers	Using Standard Tachometer as per SANAS TR-45-2 by comparison Method	10000 rpm to 90000 rpm	2.26 rpm

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65	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/ RPM indicators/ Stirrers	Using Standard Tachometer as per SANAS TR-45-2 by comparison Method	12 rpm to 100 rpm	0.50 rpm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dia/ Digital) (L.C: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 600 mm	11 µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sprit Level (L.C: 0.02 mm/m)	Using Sprit Level (L.C.: 0.001 mm/m) by Comparison Method	Upto to 300 mm	1.5 µm/m
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Sprit Level (L.C: 0.001 mm/m) by Comparison Method	200 X 200 mm to 3000 X 3000 mm	1.150*(Sqrt(L+W)/150)µm; where L & W in mm
69	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope L.C : 0.0001mm Linear	Using Gauge Blocks/ Long Gauge Blocks By Comparison Method	0 to 300 mm	0.0025mm

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70	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope L.C : 0.0001mm Magnification	Using Gauge Blocks/ Long Gauge Blocks By Comparison Method	1 X to 100 X	0.50%
71	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope L.C: 1 s (Angle)	Using Angle Gauge Blocks By Comparison Method	0 ° to 360 °	4minutes of arc
72	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale and Tape Calibrator (L.C: 0.001 mm)	Using Gauge Blocks/ Long Gauge Blocks By Comparison Method	0 to 1000 mm	9.8 µm
73	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C: 0.0001 mm)	Using Gauge Blocks/ Long Gauge Blocks By Comparison Method	0 to 100 mm	0.9 µm
74	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic - Pressure Gauges, Pressure Transducer / Transmitter, Oil free Gauges Pressure Modules/ switches Pressure Calibrators, Digital Pressure Indicators Transducer / Transmitter with indicators	Using Digital Pressure Calibrator, DMM and Hydraulic Pump by Comparison Method. Procedure as per DKD-R 6-1 guidelines.	0 bar to 700 bar	0.39bar

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75	MECHANICAL-PRESSURE INDICATING DEVICES	Pnematic-Pressure Gauges, Pressure Transducer / Transmitter, Oil free Gauges Pressure Modules, Pressure switches Manometers,Magnehelic Gauges, Digital Pressure Indicators, DP gauges	Using Digital Pressure Calibrator and Pneumatic Pump by Comparison Method. Procedure as per DKD-R 6-1 guidelines.	0 mbar to 2000 mbar	2.2mbar
76	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic - Pressure Gauges, Pressure Transducer / Transmitter, Oil free Gauges Pressure Modules, Pressure switches Manometers,Magnehelic Gauges, Digital Pressure Indicators, DP gauges	Using Digital Pressure Gauge and Pneumatic Pump by Comparison Method. Procedure as per DKD-R 6-1 guidelines.	-200 mbar to 200 mbar	0.83mbar

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77	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic - Pressure Gauges, Pressure Transducer / Transmitter, Oil free Gauges Pressure Modules/ switches , Digital Pressure Indicators Transducer / Transmitter with indicators	Using Digital Pressure Calibrator, DMM and Pneumatic Pump by Comparison Method. Procedure as per DKD-R 6-1 guidelines.	0 bar to 20 bar	0.016bar
78	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Vacuum Gauges, Compound Gauges Vacuum Transducer, Vacuum Transmitter, Vacuum switches, Vacuum Modules, Vacuum sensor	Using Digital Pressure Calibrator and Pneumatic Pump by Comparison Method. Procedure as per DKD-R 6-1 guidelines.	-0.9 bar to 0 bar	0.006bar
79	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Compression Testing Machine in Compression Mode	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	50 kN to 500 kN	0.50%

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80	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Compression Testing Machine in Compression Mode - Class '0.5' and coarser	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	1 kN to 10 kN	0.50%
81	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Compression Testing Machine in Compression Mode - Class '0.5' and coarser	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	5 kN to 50 kN	0.50%
82	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Compression Testing Machine in Compression Mode - Class '0.5' and coarser	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	50 N to 1000 N	0.50%
83	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Compression Testing Machine in Compression Mode - Class 'I' and coarser	Using Class 'I' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	400 kN to 2000 kN	0.50%

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84	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Tensile Testing Machine in Tension Mode	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	5 kN to 50 kN	0.50%
85	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Tensile Testing Machine in Tension Mode - Class '0.5' and coarser	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	1 kN to 10 kN	0.50%
86	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Tensile Testing Machine in Tension Mode - Class '0.5' and coarser	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	10 N to 1000 N	0.50%
87	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Universal Testing Machine/ Tensile Testing Machine in Tension Mode - Class '0.5' and coarser	Using Class '0.5' Load cell with Digital Indicator as per IS 1828 (Part 1): 2022, ISO 7500-1: 2018 by Comparison Method	50 kN to 500 kN	0.68%
88	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance (Class I, Readability = 0.01 mg)	Using E1 Class standard reference weights as per OIML R 76-1: 2006	1 mg to 220 g	0.30mg

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89	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance (Class I, Readability = 0.1 mg)	Using E1 Class standard reference weights in accordance with OIML R76-1: 2006	1 mg to 220 g	2mg
90	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance (Class II, Readability = 0.01 g)	Using E2 Class standard reference weights as per OIML R 76-1: 2006	1 g to 3000 g	30mg
91	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance (Class III, Readability = 0.001 kg)	Using F1 and M1 Class standard reference weights in accordance with OIML R76-1: 2006	0 to 30 kg	1g
92	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance (Class III, Readability = 1 g)	Using E2 & F1 Class standard reference weights as per OIML R 76-1: 2006	1 g to 20000 g	1g
93	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance (Class IV, Readability = 0.05 kg)	Using F1 and M1 Class standard reference weights as per OIML R 76-1: 2006	0.1 kg to 300 kg	250g
94	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance (Class IV, Readability = 0.1 kg)	Using M1 Class standard reference weights as per OIML R 76-1: 2006	1 kg to 1000 kg	200g

SCOPE OF ACCREDITATION

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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)(±)
95	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature indicator with sensor of Cold Chamber, Humidity Chamber, Climatic chamber (Single Position) @25°C	Using Temperature/Humidity Indicator with probe by Comparison Method	20 %rh to 95 %rh	1.94%rh
96	THERMAL-TEMPERATURE	Cold Chamber, Humidity Chamber, Climatic chamber, Thermal Chamber, Cold Room, Furnace, Oven, Water bath, Deep Freezer, Refrigerator, Incubator, Autoclave (For Non-medical Purpose) - Multiposition calibration	Using Standard RTD With Multichannel recorder by Comparison Method with Minimum 9 Sensors	-80 °C to 400 °C	8.82°C
97	THERMAL-TEMPERATURE	Cryostatic bath, Oil bath, Temperature Baths, Water Bath, Furnace, Dry block calibrators, Deep Freezer, Refrigerator Incubator, Autoclave (For Non-medical Purpose)	Using Standard S Type With MFC, by Comparison Method as per Euramet cg-13/v-01	>400 °C to 1200 °C	2.58°C

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98	THERMAL-TEMPERATURE	Cryostatic bath, Oil bath, Temperature Baths, Water Bath, Furnace, Dry block calibrators, Deep Freezer, Refrigerator Incubator, Autoclave (For Non-medical Purpose)	Using Standard RTD with DMM by Comparison Method as per Euramet cg-13/v-01	100 °C to 400 °C	1.54 °C
99	THERMAL-TEMPERATURE	Cryostatic bath, Oil bath, Temperature Baths, Water Bath, Furnace, Dry block calibrators, Deep Freezer, Refrigerator, BOD Incubator, Hot air oven, Hot Plate, Cold Chamber, Humidity Chamber, Climatic chamber	Using Standard RTD with DMM by Comparison Method as per Euramet cg-13/v-01	-80 °C to 100 °C	0.98°C
100	THERMAL-TEMPERATURE	Liquid in Glass Thermometers, Temperature Gauge	Using Standard RTD with DMM, Liquid Bath by Comparison Method as per IS 6274: 1971, OIML R 133	50 °C to 250 °C	0.72°C

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101	THERMAL-TEMPERATURE	RTD’s / Thermocouples (with or without Indicator), Data Logger / Recorder with sensors, Probe / Bi-metal / Capillary Thermometers, Temperature Indicators with sensors, Temperature Transmitter, Thermos	Using Standard RTD with DMM, Liquid Bath & Dry Block Calibrator by Comparison Method as per Euramet cg-08/v-2.1 & DKD-R5-1	100 °C to 400 °C	0.46°C
102	THERMAL-TEMPERATURE	RTD’s / Thermocouples (with or without Indicator), Data Logger / Recorder with sensors, Probe / Bi-metal / Capillary Thermometers, Temperature Indicators with sensors, Temperature transmitter, Thermos	Using Standard S-type thermocouple with MFC,Dry Block Calibrator by Comparison Method as per Euramet cg-08/v-2.1 & DKD-R5-1	>400 °C to 1200 °C	1.92°C

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103	THERMAL-TEMPERATURE	RTD's / Thermocouples (with or without Indicator),Data Logger / Recorder with sensors, Probe / Bi- metal / Capillary Thermometers, Temperature Indicators with sensors, Temperature Transmitter, Thermos	Using Standard RTD with DMM, Liquid Bath & Dry Block Calibrator by Comparison Method as per Euramet cg-08/v-2.1 & DKD-R5-1	-80 °C to 100 °C	0.46°C
104	THERMAL-TEMPERATURE	Temperature indicator with sensor of Thermal Chamber, Cold Room, Furnace, Oven, Water bath, Deep Freezer, Refrigerator, Incubator, Autoclave (For Non- medical Purpose) - Single Position	Using Standard Multichannel recorder With N-Type Thermocouple/ Using Standard S Type With Indicator by Comparison Method	400 °C to 1200 °C	2.4°C

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105	THERMAL-TEMPERATURE	Temperature indicator with sensor of Thermal Chamber, Cold Room, Furnace, Oven, Water bath, Deep Freezer, Refrigerator, Incubator, Autoclave (For Non- medical Purpose)- (Single Position)	Using Standard RTD with Temperature Indicator by Comparison Method as per Euramet cg-13/v-01	-80 °C to 100 °C	0.86°C
106	THERMAL-TEMPERATURE	Temperature indicator with sensor of Thermal Chamber, Cold Room, Furnace, Oven, Water bath, Deep Freezer, Refrigerator, Incubator, Autoclave (For Non- medical Purpose)- Single Position	Using Standard RTD with Temperature Indicator by Comparison Method as per Euramet cg-13/v-01	100 °C to 400 °C	0.58°C

National Accreditation Board for Testing and Calibration Laboratories

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107	THERMAL-TEMPERATURE	Thermal Chamber, Cold Room, Furnace, Oven, Water bath, Deep Freezer, Refrigerator, Incubator, Autoclave (For Non-medical Purpose) - Multiposition Calibration	Using Standard Multichannel recorder with N-Type Thermocouple by Comparison Method with Minimum 9 Sensors	>400 °C to 1200 °C	8.72°C

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