



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**BELZ CALIBRATION LABORATORY (A UNIT OF BELZ
INSTRUMENTS 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

5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2733

Issue Date: 28/06/2025

Valid Until: 27/06/2029

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 this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: Belz Instruments Private Limited

Signed for and on behalf of NABL




Anita Rani
Director


N. Venkateswaran
Chief Executive Officer



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Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PRIVATE LIMITED), 5L/123, N.I.T, FARIDABAD, HARYANA, 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 Active Energy (1P2W & 3P4W, 0.5 Lag to UPF to 0.5 Lead PF, 63.5 V, 50 Hz, 0.1 A to 5 A)	Using reference portable three phase power meter by Comparison Method	3.17 Wh to 952.5 Wh	1.2 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy (1P2W & 3P4W, 50 Hz, 0.5 Lag to UPF to 0.5 Lead PF, 240 V, 0.1 A to 5 A)	Using reference portable three phase power meter by Comparison Method	12 Wh to 3600 Wh	1.2 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy (1P2W & 3P4W, 50 Hz, 0.5 Lag to UPF to 0.5 Lead PF, 240 V, 0.1 A to 100 A)	Using reference portable three phase power meter by Comparison Method	12 Wh to 72 kWh	1.2 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy (1P2W & 3P4W, 50 Hz, 0.5 Lag to UPF to 0.5 Lead PF, 63.5 V, 0.1 A to 100 A)	Using reference portable three phase power meter by Comparison Method	3.17 Wh to 1.9 kWh	1.2 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz/ 60 Hz)	Using 6½ digital multimeter by direct method	30 µA to 100 mA	0.41 % to 0.2 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz/60 Hz)	Using 6½ digital multimeter by direct method	100 mA to 10 A	0.2 % to 0.27 %



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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current (50 Hz)	Using 6½ DMM & Current Transformer by direct method	10 A to 1000 A	1.3 % to 0.65 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage (50 Hz)	Using HV probe with DMM & AC High voltage source by Direct / Comparison method	1 kV to 28 kV	2.8 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance (1 kHz)	Using LCR Meter by direct method	1 ohm to 100 kohm	0.23 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz/ 60 Hz / 1 kHz)	Using 6½ DMM By Direct Method	10 mV to 10 V	0.53 % to 0.12 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz/60 Hz /1 kHz)	Using 6½ DMM By Direct Method	10 V to 1000 V	0.12 % to 0.18 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by direct method	1 nF to 1 µF	0.24 %



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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (1 kHz)	Using LCR Meter, Inductance Box by Direct Method/Substitution Method	100 μ H to 1 H	0.45 % to 0.8 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz	Using 3 Phase Portable Reference Meter & Multifunction Calibrator by Direct/Comparison Method	0.25 pF to 1 pF	0.005 pF
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase Power (UPF to 0.5 Lag/Lead PF, 63.5 V, 50 Hz, 0.1 A to 5 A)	Using reference portable three phase power meter by Comparison Method	3.17 W to 317 W	0.28 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase Power (UPF to 0.5 Lag/Lead PF, 240 V, 50 Hz, 0.1 A to 5 A)	Using reference portable three phase power meter by Comparison Method	12 W to 1.2 kW	0.28 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase Power Clamp on CT (UPF to 0.5 Lag/Lead PF, 240 V, 50 Hz, 0.1 A to 100 A)	Using reference portable three phase power meter by Comparison Method	12 W to 24 kW	0.28 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase Power Clamp on CT (UPF to 0.5 Lag/Lead PF, 63.5 V, 50 Hz, 0.1 A to 100 A)	Using reference portable three phase power meter by Comparison Method	3.17 W to 6.3 kW	0.28 %



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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Three Phase Power (UPF to 0.5 Lag/Lead PF, 240 V, 50 Hz, 0.1 A to 5 A)	Using reference portable three phase power meter by Comparison Method	36 W to 3.6 kW	0.28 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Three Phase Power (UPF to 0.5 Lag/Lead PF, 63.5 V, 50 Hz, 0.1 A to 5 A)	Using reference portable three phase power meter by Comparison Method	9.5 W to 952 W	0.28 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Three Phase Power clamp on CT (UPF to 0.5 Lag/Lead PF, 240 V, 50 Hz, 0.1 A to 100 A)	Using reference portable three phase power meter by Comparison Method	36 W to 72 kW	0.28 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Three Phase Power clamp on CT (UPF to 0.5 Lag/Lead PF, 63.5 V, 50 Hz, 0.1 A to 100 A)	Using reference portable three phase power meter by Comparison Method	9.5 W to 19 kW	0.28 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz/ 60 Hz)	Using multifunction calibrator with current coil by direct method	20 A to 1000 A	0.31 % to 0.90 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz/ 60 Hz/1 kHz)	Using multifunction calibrator by Direct Method	300 mA to 20 A	0.2 % to 0.31 %



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25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz/60 Hz/1 kHz)	Using multifunction calibrator by Direct Method	50 µA to 300 mA	0.92 % to 0.2 %
26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power (Active Power 1ø) (50 Hz, 10 V to 640 V, 0.1 A to 19 A)	Using multifunction calibrator by direct method	1.5 W to 12 kW	0.41 % to 0.84 %
27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz/ 60 Hz/ 1 kHz/ 10 kHz)	Using multifunction calibrator by direct method	100 V to 1000 V	0.08 % to 0.11 %
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz/60 Hz/1 kHz/10 kHz)	Using multifunction calibrator by direct method	10 mV to 300 mV	1.16 % to 0.2 %
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz/60 Hz/1 kHz/10 kHz)	Using multifunction calibrator by direct method	300 mV to 100 V	0.2 % to 0.08 %
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using multifunction calibrator by direct method	1 nF to 100 µF	7.2 % to 1.62 %
31	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM By Direct Method	1 µA to 10 mA	3.0 % to 0.08 %



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32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM By Direct Method	10 mA to 3 A	0.08 % to 0.16 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM By Direct Method	3 A to 10 A	0.16 % to 0.2 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using 6½ DMM & Shunt by VI Method	10 A to 750 A	1 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM & DC high Voltage source by Direct/Comparison method	1 kV to 37 kV	1.97 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM By Direct Method	1 mV to 100 mV	0.5 % to 0.01 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM By Direct Method	10 V to 1000 V	0.06 % to 0.02 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM By Direct Method	100 mV to 10 V	0.01 % to 0.06 %



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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM by direct method	1 Mohm to 100 Mohm	0.13 % to 0.9 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM By Direct Method	10 ohm to 1 Mohm	0.06 % to 0.13 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM by direct method	100 Mohm to 1 Gohm	0.9 % to 2.36 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Micro Ohm Meter by Direct Method	1 ohm to 10 ohm	0.6 % to 0.05 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Micro Ohm Meter by Direct Method	100 µohm to 1 ohm	1.24 % to 0.92 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator by direct method	1 µA to 300 mA	1.35 % to 0.03 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator with current coil by direct method	20 A to 1000 A	0.12 % to 0.70 %



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator by direct method	300 mA to 20 A	0.03 % to 0.12 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 1000 V & 0.1 A to 19 A)	Using multifunction calibrator by direct method	1 W to 19 kW	0.31 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by direct method	1 mV to 300 mV	0.75 % to 0.01 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by direct method	300 mV to 300 V	0.01 % to 0.03 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by direct method	300 V to 1000 V	0.03 % to 0.014 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 500 V, 1000 V, 2500 V, 5000 V	Using high resistance box by direct method	1 Gohm	2.79 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 500 V, 1000 V, 2500 V, 5000 V	Using high resistance box by direct method	500 Mohm	2.76 %



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53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ @ 1000 V, 2500 V, 5000 V	Using high resistance box by direct method	10 Gohm	2.73 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 2500 V, 5000 V	Using high resistance box by direct method	100 Gohm	3.74 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 5000 V	Using high resistance box by direct method	1 Tohm	3.31 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 5000 V	Using high resistance box by direct method	200 Gohm	3.5 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 5000 V	Using high resistance box by direct method	500 Gohm	3.26 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.001 ohm	0.2 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.01 ohm	0.2 %



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60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.1 ohm	0.13 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	1 ohm	0.13 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	100 µohm	0.81 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using multifunction calibrator by direct method	1 ohm to 4 Mohm	0.65 % to 0.07 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using multifunction calibrator by direct method	4 Mohm to 40 Mohm	0.07 % to 0.18 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using multifunction calibrator by direct method	40 Mohm to 400 Mohm	0.18 % to 0.44 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	10 µohm	5.87 %



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67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter	Using Decade Resistance Box and Multiproduct Calibrator by Simulation Method	1 μ S/cm to 100000 μ S/cm	0.5 %
68	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude(Deflection Factor) 1 kHz / 1 MegaOhm	Using multifunction calibrator by direct method	5 mV to 120 V	1.0 %
69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using multifunction calibrator by direct method	50 kHz to 250 MHz	6.93 %
70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude (Deflection Factor) 1MOhm (DC)	Using multifunction calibrator by direct method	5 mV to 120 V	1.0 %
71	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base (Marker)	Using multifunction calibrator by direct method	10 ns to 5 s	0.5 %
72	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter	Using Multifunction Calibrator by Simulation Method	0 pH to 14 pH (414.12 mV to (-)414.12 mV) to	0.2 %
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	600 °C to 1700 °C	0.18 °C



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74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	(-) 100 °C to 600 °C	0.11 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	(-) 200 °C to 1200 °C	0.25 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	(-) 200 °C to 1300 °C	0.35 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	(-) 200 °C to 1300 °C	0.11 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	100 °C to 1700 °C	0.49 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD type	Using Super DAQ Precision Temperature Scanner by direct method	(-) 200 °C to 800 °C	0.07 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	50 °C to 1700 °C	0.12 °C



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81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	(-) 200 °C to 400 °C	0.09 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type thermocouple	Using Multifunction Calibrator by Direct method	600 °C to 1700 °C	0.48 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Multifunction Calibrator by Direct method	(-) 100 °C to 600 °C	0.22 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type thermocouple	Using Multifunction Calibrator by Direct method	(-) 200 °C to 1200 °C	0.12 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Multifunction Calibrator by Direct method	(-) 200 °C to 1300 °C	0.32 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Multifunction Calibrator by Direct method	(-) 200 °C to 1300 °C	0.11 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multifunction Calibrator by Direct method	0 °C to 1700 °C	0.15 °C



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88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD type	Using Multifunction Calibrator by Direct method	(-) 200 °C to 800 °C	0.4 °C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Multifunction Calibrator by Direct method	0 to 1700 °C	0.68 °C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Multifunction Calibrator by Direct method	(-) 200 °C to 400 °C	0.32 °C
91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ DMM by direct method	10 Hz to 1 MHz	0.06 %
92	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	1 s	0.0078 s
93	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	100 ms	0.003 s
94	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	14400 s	0.23 s



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95	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	1800 s	0.04 s
96	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	3600 s	0.07 s
97	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	60 s	0.006 s
98	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	600 s	0.02 s
99	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	7200 s	0.2 s
100	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	86400 s	3.69 s
101	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using multifunction calibrator by direct method	10 Hz to 10 MHz	0.07 % to 0.008 %



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102	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow Rate (Air)	Using Reference Flow Meter Consisting molebloc Sensor by Comparison Method	1 SLM to 50 SLM	1.4 %rdg
103	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow Rate (Air)	Using Digital Low Flow Calibrator by Comparison Method	1.5 cc/min to 466 cc/min	4.2 %
104	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow Rate (Air)	Using Orifice Flow Calibrator by Comparison Method	50 SLPM to 250 SLPM	1.28 %
105	FLUID FLOW-FLOW MEASURING DEVICES	Anemometer, Air Flow Meter, Magnetic Flow Meter, Flow Element, Turbine Flow Meter, Flow Switch, Pitot Tube, Air Velocity Meter, Velocity (Air)	Using Hot Wire Anemometer & L - type Pitot Tube with Indicator using comparison method	0.5 m/s to 1 m/s	10.2 %rdg
106	FLUID FLOW-FLOW MEASURING DEVICES	Anemometer, Air Flow Meter, Magnetic Flow Meter, Flow Element, Turbine Flow Meter, Flow Switch, Pitot Tube, Air Velocity Meter, Velocity (Air)	Using Hot Wire Anemometer & L - type Pitot Tube with Indicator by Comparison Method	1 m/s to 20 m/s	3.8 %rdg
107	MECHANICAL-ACCELERATION AND SPEED	Pulse engine tachometer, Digital tachometer (Non contact type)	Using standard digital tachometer & RPM source by comparison method	1000 rpm to 10000 rpm	0.09 % rdg.



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108	MECHANICAL-ACCELERATION AND SPEED	Pulse engine tachometer, Digital tachometer (Non contact type)	Using standard digital tachometer & RPM source by comparison method	50000 rpm to 100000 rpm	0.01 % rdg.
109	MECHANICAL-ACCELERATION AND SPEED	Pulse engine tachometer, Tachometer (Non contact type)	Using standard digital tachometer & RPM source by comparison method	6 rpm to 10 rpm	5.84 % rdg.
110	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator, pulse engine tachometer, digital tachometer (Non contact type)	Using standard digital tachometer & RPM source by comparison method	10000 rpm to 50000 rpm	0.02 % rdg.
111	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator, pulse engine tachometer, digital tachometer (Non contact type)	Using standard digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	3.93 % rdg.
112	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator, Pulse engine tachometer, digital tachometer (Non contact type)	Using standard digital tachometer & RPM source by comparison method	100 rpm to 1000 rpm	0.35 % rdg.
113	MECHANICAL-ACCELERATION AND SPEED	stroboscope / centrifuge (Non contact type)	Using standard digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	3.93 % rdg.
114	MECHANICAL-ACCELERATION AND SPEED	stroboscope / centrifuge (Non contact type)	Using standard digital tachometer & RPM source by comparison method	100 rpm to 1000 rpm	0.35 % rdg.
115	MECHANICAL-ACCELERATION AND SPEED	stroboscope / centrifuge (Non contact type)	Using standard digital tachometer & RPM source by comparison method	10000 rpm to 50000 rpm	0.02 % rdg
116	MECHANICAL-ACCELERATION AND SPEED	stroboscope /rpm source/ centrifuge (Non contact type)	Using standard digital tachometer by direct method	50000 rpm to 100000 rpm	0.01 %rdg



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117	MECHANICAL-ACCELERATION AND SPEED	stroboscope /rpm source/ centrifuge(Non contact type)	Using standard digital tachometer & RPM source by comparison method	6 rpm to 10 rpm	5.84 % rdg
118	MECHANICAL-ACCELERATION AND SPEED	stroboscope /rpm source/ centrifuge(Non contact type)	Using standard digital tachometer by direct method	1000 rpm to 10000 rpm	0.09 %
119	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicator, Rotation Meter (Contact type)	Using standard digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	2.6 % rdg.
120	MECHANICAL-ACCELERATION AND SPEED	Tachometer/ Rotation Meter (Contact type)	Using standard digital tachometer & RPM source by comparison method	5000 rpm to 10000 rpm	0.04 % rdg.
121	MECHANICAL-ACCELERATION AND SPEED	Tachometer/ Rotation Meter (Contact type)	Using standard digital tachometer & RPM source by comparison method	100 rpm to 1000 rpm	0.28 % rdg.
122	MECHANICAL-ACCELERATION AND SPEED	Tachometer/ Rotation Meter (Contact type)	Using standard digital tachometer & RPM source by comparison method	6 rpm to 10 rpm	4.37 % rdg.
123	MECHANICAL-ACCELERATION AND SPEED	Tachometer/ RPM Indicator, Rotation Meter (Contact type)	Using standard digital tachometer & RPM source by comparison method	1000 rpm to 5000 rpm	0.17 % rdg.
124	MECHANICAL-ACOUSTICS	Sound Level meter (1 kHz)	Using sound level calibrator by direct method	114 dB	0.45 dB
125	MECHANICAL-ACOUSTICS	Sound Level meter (1 kHz)	Using sound level calibrator by direct method	94 dB	0.45 dB



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126	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometers, Lactometers	Using standard hydrometers & compatible liquids by comparison method as per IS 3104	0.6 g/ml to 1.8 g/ml	0.0015 g/ml
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate - Flatness	Using Surface Plate and Dial Test Indicator by Comparison Method	Up to 300 mm	4.6 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate - Parallelism	Using Surface Plate and Dial Test Indicator by Comparison Method	Up to 300 mm	4.9 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate - Squareness of End Faces w.r.t Exterior Faces Over Length	Using Slip Gauges, Master Cylinder and Surface Plate by Comparison Method	Upto 300 mm	10 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate - Squareness of Exterior Faces over Width	Using Slip Gauges, Master Cylinder and Surface Plate by Comparison Method	Up to 300 mm	10 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ball Pressure Apparatus, Specimen Support - Linear Dimensions, Radius	Using Profile Projector, Vernier Caliper, Digital Micrometer by Direct Method	0 to 5 mm	6.2 µm



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132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre - Co axiality	Using Test Mandrel and Dial Test Indicator by Comparison Method	Up to 300 mm	10 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre - Parallelism	Using Test Mandrel & Dial Test Indicator by Comparison Method	Up to 300 mm	10 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector (Digital / Analog), Clinometer, Digital Angle Protector, Inclinator, Angle Finder - Angle (L.C.: 1 min / 0.01°)	Using Slip Gauge Set, Sine Bar, Master Cylinder and Angle Gauge Set by Comparison Method	0° to 360°	0.76 minutes of Arc
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.1 µm)	Using Standard Foils by Comparison Method	10 µm to 250 µm	2.2 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 1 µm)	Using Standard Foils by Comparison Method	10 µm to 1500 µm	5 µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set / Degree Protractor (L.C.: 1°)	Using Angle Gauge Set by Comparison Method	0° - 90° - 0°	35 minutes of Arc



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138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using Electronic Probe by Comparison Method	Up to 100 mm X 100 mm	0.92 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using Electronic Level by Comparison Method	Up to 300 mm X 300 mm	1.2 x Sqrt ((L+W) / 150) µm, Where L & W are in mm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using Dial Test Indicator by Comparison Method	Up to 300 mm x 300 mm to	4.7 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Copper Block, Flame Height Gauge, Burner, Nozzle - Angular Dimensions	Using Profile Projector by Direct Method	0° to 90°	2.41 minutes of Arc
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Copper Block, Flame Height Gauge, Metal Block, Flame Source, Burner, Flammability Test Fixture, Nozzle - Linear Dimensions	Using Profile Projector, Vernier Caliper, Digital Micrometer by Direct Method	0 to 300 mm	41.8 µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould (Length, Width & Height)	Using Digital Caliper by Comparison Method	20 mm to 300 mm	26.5 µm



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144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper / Depth Gauge (L.C.: 0.01 mm)	Using Slip Gauge Set, Long Gauge Blocks and Caliper Checker by Comparison Method	0 to 300 mm	7.5 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.01 mm)	Using Slip Gauge Set, Long Gauge Blocks and Caliper Checker by Comparison Method	0 to 300 mm	7 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge - Transmission Error, (L.C.: 0.001 mm)	Using Single Axis Measuring Machine by Comparison Method	0 to 1 mm	1.2 µm
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (L.C.: 0.001 mm)	Using Single Axis Measuring Machine by Comparison Method	0 to 100 mm	1.4 µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge / Passa Meter (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	1 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Test Indicator (L.C.: 0.001 mm)	Using Single Axis Measuring Machine by Comparison Method	0 to 1.5 mm	1.3 µm



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150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	0 to 50 mm	1 µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Level / Spirit Level (Sensitivity 0.001 mm/m)	Using Electronic Level & Level Calibrator (Tilting Table with Fine Levelling Screw Jacks) by Comparison Method	± 2 mm/m	3.7 µm/m
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Level / Spirit level (Sensitivity 0.01 mm/m)	Using Electronic Level & Level Calibrator (Tilting Table with Fine Leveling Screw Jacks) by Comparison Method	± 200 mm/m	7 µm/m
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Level / Spirit level (Sensitivity 0.02 mm/m)	Using Electronic Level & Level Calibrator (Tilting Table with Fine Leveling Screw Jacks) by Comparison Method	± 100 mm/m	12 µm/m
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe (L.C.: 0.1 µm)	Using Slip Gauge Set by Comparison Method	0 to 25 mm	0.6 µm



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155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square / Right Angle - Flatness	Using Dial Test Indicator & Surface Plate by Comparison Method	Up to 450 mm	5.7 μ m
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square / Right Angle - Perpendicularity	Using Slip Gauge Set & Master Cylinder by Comparison Method	Up to 450 mm	6.7 μ m
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	1.5 μ m
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set & Long Gauge Blocks by Comparison Method	100 mm to 150 mm	2.5 μ m
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set & Long Gauge Blocks by Comparison Method	150 mm to 300 mm	3.8 μ m
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Single Axis Measuring Machine by Comparison Method	0.01 mm to 1 mm	1.2 μ m



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161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge & Elongation Gauge	Using Digital Vernier Caliper by Comparison Method	0 to 100 mm	32.8 μ m
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foil	Using Single Axis Measuring Machine by Comparison Method	0.01 mm to 1.5 mm	1.2 μ m
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Dial Gauge by Comparison Method	0 to 100 μ m	2.9 μ m
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.001 mm)	Using slip gauge set & caliper checker by comparison method	0 to 600 mm	6 μ m
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C: 0.01 mm)	Using slip gauge set grade '0' & caliper checker, long gauge blocks by comparison method	0 to 1000 mm	12.8 μ m
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hole Test (Inside 3 Point Micrometer) (L.C. 0.001 mm)	Using master ring by comparison method	6 mm to 100 mm	1.95 μ m



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167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Impact Test Apparatus, Pendulum Hammer, Spring Impact Hammer - Linear Dimension	Using Measuring Tape, Vernier Caliper by Direct Method	0 to 300 mm	60 µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Gauge / Caliper, Outside Dial Gauge / Caliper, Pistol Caliper (L.C.: 0.01 mm)	Using slip gauge by comparison method	5 mm to 100 mm	6.6 µm
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C: 0.001 mm)	Using slip gauge set & accessories set by comparison method	0 to 300 mm	4 µm
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Joint Finger / Joint Finger Probe /Test Probe / Test Finger - Linear Dimension	Using Profile Projector, Vernier Caliper and Digital Micrometer by Direct Method	0 to 300 mm	37.6 µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Joint Finger Probe / Joint Finger / Test Probe - Angle	Using profile Projector by Direct Method	0° to 360°	5 minutes of Arc
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Joint Finger Probe / Joint Finger / Test Probe - Radius	Using profile Projector by Direct Method	0 to 25 mm	25.2 µm



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173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block - Flatness	Using dial test indicator & surface plate by comparison method	Up to 200 mm	3 µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block - Parallelism of opposite face	Using dial test indicator & surface plate by comparison method	Up to 200 mm	3.2 µm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block - Parallelism of V Flank	Using dial test indicator, test mandrel & surface plate by comparison method	Up to 200 mm	5 µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block - Perpendicularity	Using slip gauge grade '0', master cylinder & surface plate by comparison method	Up to 200 mm	4.5 µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block - Symmetricity Error	Using dial test indicator, test mandrel & surface plate by comparison method	Up to 200 mm	5 µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin Gauge	Using single axis measuring machine by comparison method	0.5 mm to 20 mm	1.2 µm



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179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape, Pie Tape, Circumference Gauge (L.C.: 1 mm)	Using standard scale with DRO by comparison method	0 to 50 m	154 x sqrt (L) μ m, Where L is in m
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Multi Hatch Cutter, Cross Cut Tester, Cross cut gauge, Cut Test Tool (Angular Dimensions)	Using profile Projector by Direct Method	0° to 360°	1.9 minutes of Arc
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Multi Hatch Cutter, Cross Cut Tester, Cross cut gauge, Cut Test Tool (Linear Dimensions)	Using profile Projector, Vernier Caliper, Digital Micrometer By Direct Method	0 to 150mm	25 μ m
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Air plug Gauge (Go/ No Go)	Using single axis measuring machine by comparison method	0.5 mm to 100 mm	1.2 μ m
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Air plug Gauge (Go/ No Go)	Using single axis measuring machine and long gauge blocks by comparison method	100 mm to 300 mm	1.8 μ m
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using single axis measuring machine and master ring gauge by comparison method	3 mm to 100 mm	1.8 μ m



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185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using single axis measuring machine and master ring gauge by comparison method	100 mm to 300 mm	2.6 µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge/ Radius Chart/ Radius Template/ Radius Measurement	Using profile projector by comparison method	0 to 100 mm	96 µm
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Centre Distance)	Using electronic probe & slip gauge set grade '0' by comparison method	Up to 300 mm	4 µm
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Setting Angle)	Using surface plate, angle gauge, electronic probe & slip gauge set grade '0' by comparison method	up to 45 °	6.2 s
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Flatness)	Using electronic probe & surface plate by comparison method	up to 300 mm	3.8 µm
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Parallelism)	Using electronic probe & surface plate by comparison method	Up to 300 mm	3.8 µm



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191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Centre Distance)	Using slip gauge block grade '0' & dial test indicator by comparison method	up to 300 mm	3.8 µm
192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Parallelism of working surface)	Using electronic probe & surface plate by comparison method	up to 300 mm	4 µm
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Coaxiality of Dead center)	Using test mandrel & dial test indicator by comparison method	Up to 300 mm	4.6 µm
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using slip gauge set grade '0' by comparison method	1 mm to 150 mm	2.2 µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Special Gauge / Receiving Gauge / Profile Gauge / Profile of Work Piece (Angle)	Using Profile Projector by comparison method	0 ° to 360 °	3 '
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Special Gauge / Receiving Gauge / Profile Gauge / Profile of Work Piece (Linear)	Using Profile Projector / Digital Caliper/ Digital Micrometer by Comparison Method	0 to 100 mm	10 µm



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197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Steel Ball / Spherical Ball / Impact Ball	Using single axis measuring machine by comparison method	4 mm to 100 mm	1.4 µm
198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Wire Gauge	Using Profile Projector by direct method	0.08 mm to 11.68 mm	10 µm
199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale / Measuring Scale / Shrinkage Scale / Wooden Scale / Metal Scale / Graduated Scale (L.C.: 0.5 mm)	Using Standard Scale with DRO by Comparison Method	0 to 1000 mm	108.5 µm
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale / Measuring Scale / Shrinkage scale/ Wooden Scale/ Metal Scale / Graduated Scale (L.C.: 1 mm)	Using standard scale with DRO by comparison method	0 to 2000 mm	154 x Sq. root (L) µm L is in meter
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness)	Using surface plate & slip gauge set grade '0' by comparison method	Up to 1000 mm	3.4 µm
202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism)	Using surface plate & dial test indicator by comparison method	Upto 1000 mm	5.3 µm



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203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite / Cast Iron)	Using electronic level by comparison method	Up to 6000 mm x 4000 mm	1.3 x Sq.root (L+W)/ 125 µm, where L & W are in mm
204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale (L.C.: 0.1 mm)	Using profile projector by comparison method	0 to 40 mm	9 µm
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template (Length & Width)	Using Digital Caliper by Comparison Method	Up to 300 mm X 300 mm	36.3 µm
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Lack of trueness of rotation between centers)	Using sine centre & dial test indicator by comparison method	Up to 300 mm	3.1 µm
207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Variation in diameter)	Using sine centre, digital Micrometer & dial test indicator by comparison method	Up to 300 mm	2.8 µm
208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using digital caliper by comparison method	4 mm to 50 mm	20 µm



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209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using digital caliper by comparison method	50 mm to 125 mm	30 µm
210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size & Wire Diameter)	Using profile projector by comparison method	0.032 to 4.0 mm	6.2 µm
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Flank Angle	Using profile projector by comparison method	55° & 60°	3 minutes of Arc
212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Pitch	Using profile projector by comparison method	0.4 mm to 7 mm	7 µm
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (effective diameter)	Using single axis measuring machine, thread measuring wire & long gauge block set by comparison method	100 mm to 300 mm	3.1 µm
214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (effective diameter)	Using single axis measuring machine and thread measuring wire by comparison method	3 mm to 100 mm	2.8 µm



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215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Dia Only)	Using single axis measuring machine & master ring by comparison method	4 mm to 100 mm	3.4 µm
216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Wire Unit	Using single axis measuring machine by comparison method	0.17 mm to 4 mm	1.2 µm
217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C: 0.1 mm)	Using slip gauge set grade '0' by comparison method	0 to 100 mm	57.7 µm
218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digimatic Caliper (L.C : 0.01 mm)	Using slip gauge set grade '0', long gauge blocks & caliper checker by comparison method	0 to 300 mm	8 µm
219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digimatic Caliper (L.C : 0.01 mm)	Using slip gauge set grade '0', long gauge blocks & caliper checker by comparison method	0 to 1000 mm	14.7 µm
220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier/ Dial/ Digimatic Caliper (L.C: 0.02 mm)	Using slip gauge set grade '0', long gauge blocks by comparison method	0 to 1250 mm	49 µm



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221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wedge Probe / Mandrel Test / Test Pin / Test Finger - Angular Dimension	Using Profile Projector, Vernier Caliper, Digital Micrometer by Direct Method	0° to 60°	1.8 minutes of Arc
222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wedge Probe / Test Pin / Test Finger - Linear Dimension	Using Profile Projector, Vernier Caliper, Digital Micrometer by Direct Method	0 to 300 mm	38 µm
223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge /Weld Fillet Gauge (Scale / Depth)	Using profile projector, slip gauge set by comparison method	0 to 100 mm	115.8 µm
224	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge /Weld Fillet Gauge (Angle)	Using profile projector by comparison method	0° to 90°	7.5 minutes of Arc
225	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge/ Thickness Gauge/ Wedge Probe / Mandrel Test / Test Pin / Test Finger (Radius)	Using profile Projector, Vernier Caliper By Direct Method	0 to 25 mm	10 µm
226	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibrator Tester (L.C.: 0.001 mm)	Using Slip Gauge Grade & Electronic Probe by Comparison Method	0 to 25 mm	1 µm



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227	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Gauge / Setting Master / Length Bar / Micrometer Setting Rod / Height Setting Master	Using single axis measuring machine & long gauge block set by comparison method	100 mm to 600 mm	3.9 µm
228	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Gauge/ Setting Master/ Length Bar / Micrometer Setting Rod/ Height Setting Master	Using single axis measuring machine by comparison method	0.5 mm to 100 mm	1.3 µm
229	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Angle Measurement) (L.C: 1 Second)	Using angle gauges by comparison method	0 ° to 360 °	75 Second of Arc
230	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM / Microscope (Linear Dimension) (X-Y axis) (L.C: 1 µm)	Using slip gauge grade '0' & long gauge block by comparison method	0 to 300 mm	3.9 µm
231	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM /Microscope (Magnification)	Using slip gauge grade '0' & digital caliper by comparison method	Upto 50 X	1 %
232	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale & Tape Calibration Unit (L.C.: 0.001 mm)	Using slip gauge set grade '0' & long gauge blocks by comparison method	0 to 1000 mm	60 µm
233	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine/ single axis measuring machine (Resolution: 0.0001 mm)	Using slip gauge grade '0' by comparison method	0 to 100 mm	0.5 µm



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234	MECHANICAL-DUROMETER	Rubber Hardness Tester / Durometer (Shore A)	Using rubber hardness calibration setup & Digital force gauge (10 N) as per ASTM D2240	10 Shore A to 100 Shore A	1.47 Shore A
235	MECHANICAL-DUROMETER	Rubber Hardness Tester / Durometer (Shore D)	Using rubber hardness calibration setup & Digital force gauge (50 N) as per ASTM D2240	10 Shore D to 100 Shore D	0.66 Shore D
236	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push pull gauge & force gauge (In Push Pull mode)	Using standard newtonian weights as per VDI/VDE 2624 part 2.1	1 N to 100 N	0.1 N
237	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push pull gauge & force gauge (In Push Pull mode)	Using standard newtonian weights as per VDI/VDE 2624 part 2.1	100 N to 1000 N	1.1 N
238	MECHANICAL-PRESSURE INDICATING DEVICES	Barometric Pressure Gauge	Using digital barometric pressure indicator and low pressure pump by comparison method	150 mbar to 1050 mbar	0.67 mbar
239	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure Gauge (Analog / Digital), Pressure Transmitter / Transducer	Using Dead Weight Tester and DMM by Direct Method as per DKD-R-1	2 bar to 40 bar	0.05 %rdg
240	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehelic gauge, pressure switch) (Digital/Analog)	Using standard digital pressure calibrator, DMM by comparison method	(-) 250 Pa to 250 Pa	1.0 Pa



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241	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehelic gauge, pressure switch) (Digital/Analog)	Using standard digital pressure calibrator, DMM by comparison method	(-) 2000 Pa to 2000 Pa	2.67 Pa
242	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehelic gauge, pressure switch) (Digital/Analog)	Using standard digital manometer, DMM and low pressure pump by comparison method	0 to 200 mbar	0.20 mbar
243	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (digital/analog) - pneumatic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 to 3 bar	0.0028 bar
244	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (digital/analog) - pneumatic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 to 30 bar	0.04 bar
245	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (Analog/Digital) - Hydraulic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 to 1000 bar	0.63 bar



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246	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (Analog/Digital) - Hydraulic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 to 70 bar	0.065 bar
247	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauge, transmitter, transducer (Analog/Digital) - Hydraulic	Using dead weight tester and DMM by direct method	40 bar to 800 bar	0.055 %rdg
248	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge, Transmitter, transducer (Digital / Analog)	Using standard digital pressure gauge and DMM by comparison method	(-) 0.95 bar to 0	0.003 bar
249	MECHANICAL-TORQUE GENERATING DEVICES	Torque Screw Driver, (Type - I, Class D, E & Type - II. Class: D, E, F)	Using Digital Torque Tester as per ISO 6789 - 1 : 2017	1 Nm to 10 Nm	2.01 %rdg
250	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type - II, Class: A,B,D,E)	Using Torque Wrench Testing System as per ISO 6789 - 1 : 2017	0.5 Nm to 2000 Nm	0.8 %rdg
251	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, (Type - I, Class: B,C,D,E)	Using Torque Wrench Testing System as per ISO 6789 - 1 : 2017	0.5 Nm to 400 Nm	0.8 %rdg
252	MECHANICAL-VOLUME	Glassware/Plasticware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette)	Using digital weighing balance (resolution 0.01 g) by gravimetric method as per ISO 4787: 2022	>1000 ml to 2000 ml	0.05 ml



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253	MECHANICAL-VOLUME	Glassware/Plasticware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette and other volumetric apparatus)	Using digital weighing balance (resolution 0.01 g) by gravimetric method as per ISO 4787: 2022	>500 ml to 2 l	0.05 ml
254	MECHANICAL-VOLUME	Glassware/Plasticware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette and other volumetric apparatus)	Using digital weighing balance (resolution 0.001 mg) by gravimetric method as per ISO 4787: 2022	0.1 ml to 1 ml	0.004 μ l
255	MECHANICAL-VOLUME	Glassware/Plasticware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette and other volumetric apparatus)	Using digital weighing balance (resolution: 0.001 g) by gravimetric method as per ISO 4787: 2022	100 ml to 500 ml	11.7 μ l
256	MECHANICAL-VOLUME	Glassware/Plasticware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette)	Using digital weighing balance (resolution 0.1 g) by gravimetric method as per ISO 4787: 2022	>2 l to 5 l	0.43 ml



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257	MECHANICAL-VOLUME	Glassware/Plasticware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette)	Using digital weighing balance (resolution 0.01 mg) by gravimetric method as per ISO 4787: 2022	1 ml to 100 ml	0.04 µl
258	MECHANICAL-VOLUME	Volume (Micro pipette)	Using micro balance (resolution 0.001 mg) as per ISO 8655: 2021	0.5 µl to 20 µl	0.004 µl
259	MECHANICAL-VOLUME	Volume (Micro pipette)	Using micro balance (resolution 0.001 mg) as per ISO 8655-6: 2021	1 ml to 10 ml	0.04 µl
260	MECHANICAL-VOLUME	Volume (Micro pipette)	Using micro balance (resolution 0.001 mg) as per ISO 8655: 2021	100 µl to 1000 µl	0.004 µl
261	MECHANICAL-VOLUME	Volume (Micro pipette)	Using micro balance (resolution 0.001 mg) as per ISO 8655-6: 2021	20 µl to 100 µl	0.004 µl
262	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (L.C: 0.1 kg)	Using F1& M1 class standard weights by comparison method	0 to 100 kg	60 g
263	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class - I & coarser) (Resolution= 0.0001 mg or coarser)	Using E1 class standard weights as per OIML R76-1	0 to 2.2 g	0.004 mg
264	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability 0.001 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 22 g	0.004 mg



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265	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability=0.01 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 250 g	0.04 mg
266	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability=1 mg) & Coarser	Using E1 class standard weights as per OIML R76-1	0 to 1000 g	0.0008 g
267	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II & coarser) (Readability=0.01 g & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 6 kg	0.01 g
268	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II & coarser) (Readability=0.1 g & Coarser)	Using E1 and F1 class standard weights as per OIML R76-1	0 to 32 kg	0.06 g
269	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class III & coarser) (Readability=1 g & Coarser)	Using F1 class standard weights as per OIML R76-1	0 to 100 kg	0.8 g
270	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class IIII) (Readability=10 g & Coarser)	Using F1 & M1 class standard weights as per OIML R76-1	0 to 500 kg	28 g
271	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class standard Weight & Digital Weighing Balance (resolution 0.001 g) by substitution method as per OIML R-111:2004	1 kg	0.88 mg



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272	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class standard Weight & Digital Weighing Balance (resolution 0.001 g) by substitution method as per OIML R-111:2004	500 g	0.87 mg
273	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class standard Weight & Digital Weighing Balance (resolution 0.01 g) by substitution method as per OIML R-111:2004	2 kg	8.1 mg
274	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 class standard weight & digital weighing balance (resolution 0.01 g) by substitution method as per OIML R-111:2004	5 kg	8 mg
275	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using E1 class standard weight & digital weighing balance (resolution 0.1 g) by substitution method as per OIML R-111:2004	10 kg	122 mg
276	MECHANICAL-WEIGHTS	Mass (Test Weights / Dead Weights / Newtonic Weights)	Using E2 & F1 class standard weights and digital weighing balance 6 kg (resolution 0.01 g) by Direct method	>250 g to 6 kg	15.62 mg



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277	MECHANICAL-WEIGHTS	Mass (Test Weights / Dead Weights / Newtonic Weights)	Using E2 & F1 class standard weights & digital weighing balance 100 kg (resolution 0.001 kg) by Direct method	>32 kg to 100 kg	2.22 g
278	MECHANICAL-WEIGHTS	Mass (Test Weights / Dead Weights / Newtonic Weights)	Using E2 & F1 class standard weights & digital weighing balance 32 kg (resolution 0.1 g) by Direct method	>6 kg to 32 kg	172 mg
279	MECHANICAL-WEIGHTS	Mass (Test Weights / Dead Weights / Newtonic Weights)	Using E2 class standard weights & weighing balance 250 g (resolution 0.01mg) by Direct method	0 to 250 g	0.1 mg
280	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	1 g	0.004 mg
281	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	1 mg	0.0020 mg



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282	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001mg) by substitution method as per OIML R-111:2004	10 g	0.008 mg
283	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	10 mg	0.0018 mg
284	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by substitution method as per OIML R-111:2004	100 g	0.026 mg
285	MECHANICAL-WEIGHTS	Mass (Weights) of E2 Class & Coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	100 mg	0.0018 mg
286	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	2 g	0.005 mg



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287	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	2 mg	0.0018 mg
288	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001mg) by substitution method as per OIML R-111:2004	20 g	0.012 mg
289	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001mg) by substitution method as per OIML R-111:2004	20 mg	0.0018 mg
290	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01 mg) by substitution method as per OIML R-111:2004	200 g	0.044 mg
291	MECHANICAL-WEIGHTS	Mass (Weights) of E2 Class & Coarser	Using E1 class standard weights & micro balance (resolution 0.001mg) by substitution method as per OIML R-111:2004	200 mg	0.003 mg



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292	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	5 g	0.007 mg
293	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	5 mg	0.0018 mg
294	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01 mg) by substitution method as per OIML R-111:2004	50 g	0.024 mg
295	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	50 mg	0.0018 mg
296	MECHANICAL-WEIGHTS	Mass (Weights) of E2 Class & Coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	500 mg	0.003 mg



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297	MECHANICAL-WEIGHTS	Mass (Weights) of M1 Class & Coarser	Using F1 class standard weight & digital weighing balance (resolution 0.1 g) by substitution method as per OIML R-111:2004	20 kg	0.9 g
298	MECHANICAL-WEIGHTS	Mass (Weights) of M1 Class & Coarser	Using F1 class standard weight & digital weighing balance (resolution 1g) by substitution method as per OIML R-111:2004	50 kg	0.91 g
299	THERMAL-SPECIFIC HEAT & HUMIDITY	Dew Point meter	Using Digital Temperature & Relative humidity Indicator with sensor using Relative humidity generator by calculation from temperature & RH parameters	(-) 5 °C to 50 °C @ 0.5 %rh to 95 %rh	0.58°C
300	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber/Humidity Source, (Humidity Calibrator /Generator Chamber) - Multi position	Using Digital Data logger with RH sensors (Minimum nine sensors) by Comparison Method	5 %rh to 95 %rh @ 25 °C	0.85 %rh



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301	THERMAL-SPECIFIC HEAT & HUMIDITY	Temp. /RH Chambers, Cold Chamber, Cool/cold Room, Storage Room, Environment Chamber, Stability Chamber (Multiposition)	Using Digital Data Logger with Temp. / RH sensors (using minimum nine sensors) by Comparison Method	20 %rh to 95 %rh @ 15 °C to 50 °C	1.5 %rh
302	THERMAL-SPECIFIC HEAT & HUMIDITY	Temp. Chambers, Incubators(for non-medical applications)Refrigerators, Cold Chamber, Deep Freezer, Storage Room, Environment/Stability Chamber, Centrifuged Chamber, Cold Room (Multiposition)	Using Multiple RTD Sensors with Super DAQ/Data Loggers (minimum nine sensors) by comparison method	(-) 80 °C to 300 °C	0.31 °C
303	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Relative humidity indicator with Sensor of Environment Chamber / Humidity Chamber/Humidity Source (Humidity Calibrator /Generator Chamber) - (Single position)	Using Digital Temperature & Humidity Indicator with sensor by Comparison method	5 % rh to 95 % rh @ 25 °C	0.85 % rh



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304	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & RH sensor with Indicator, RH transmitter without indicator, Thermo-hygrometer, Data Logger with Internal/External Sensor	Using SPRT using Precision Temperature Indicator, Relative humidity indicator using Temperature & Relative Humidity generator, DMM by Comparison method	(-) 5 °C to 50 °C @ 50 % rh	0.22 °C
305	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & RH sensor with Indicator, RH transmitter without indicator, Thermo-hygrometer, Data Logger with Internal/External Sensor	Using Digital Temperature & Relative humidity Indicator with sensor using Relative humidity generator, DMM by comparison method.	0.5 % rh to 95 % rh @ 25 °C	0.61 % rh
306	THERMAL-TEMPERATURE	Autoclave (for non medical purpose only) - Multiposition	Using Multiple RTD Sensors (minimum 9 sensors) with Super DAQ by comparison method	115 °C to 137 °C	0.84 °C
307	THERMAL-TEMPERATURE	Blackbody Source/ IR Thermal Sources @ emissivity 0.95	Using Reference IR Pyrometer by comparison method	35 °C to 50 °C	1 °C
308	THERMAL-TEMPERATURE	Blackbody Source/ IR Thermal Sources @ emissivity 0.95	Using Reference IR Pyrometer by comparison method	50 °C to 500 °C	1.77 °C
309	THERMAL-TEMPERATURE	Dry Block Calibrator, Furnace / Metrology Well, Thermal Source	Using Two SPRT / PRT with Super DAQ by Comparison Method	> 200 °C to 660 °C	1.09 °C



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310	THERMAL-TEMPERATURE	Dry Block Furnace, High Temperature Furnace with Block / Dry Block Calibrator	Using Standard two S - Type Thermocouples with Super DAQ as per Euramet cg 13 and DKD-R 5-4	> 660 °C to 1200 °C	1.4 °C
311	THERMAL-TEMPERATURE	Freezers, Deep Freezer, Cold Chamber, Environmental Chambers, Cold Room, Walking Chiller) (Multi position)	Using Multiple RTD Sensors with Super DAQ (minimum nine sensors) by Comparison method as per DKD-R-5-7, IEC 60068-3-6, IEC 60068-3-11	(-) 80 °C to 0 °C	0.73 °C
312	THERMAL-TEMPERATURE	Furnace, Oven, Industrial Furnace, Freezers, Deep Freezer, Cold Chamber, Env. Chambers, Cold Room, Walking Chiller (Multiposition)	Using Multiple RTD Sensors with Super DAQ (minimum 9 sensors) y comparison method as per DKD-R-5-7, IEC 60068-3-6, IEC 60068-3-11	0 °C to 300 °C	0.84 °C
313	THERMAL-TEMPERATURE	Furnaces, Muffle Furnace, Industrial Furnace, Oven, Dry Heat Sterilizer (Multiposition)	Using Multiple N-Type Thermocouples Sensor with Super DAQ (minimum nine Sensor) by Comparison method	>300 °C to 1200 °C	1.9 °C
314	THERMAL-TEMPERATURE	Indicator with sensor of Dry Block Furnaces, Metrology Well, Chambers, Dry Block calibrators, Muffle Furnace (Single position)	Using Type-S Thermocouples with Super DAQ by comparison method	>660 °C to 1200 °C	1.39 °C



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315	THERMAL-TEMPERATURE	Indicator with sensor of Liquid Bath, Dry Block Furnaces, Dry Block calibrators) (Single Position)	Using SPRT/ PRT with Super DAQ by comparison method	(-) 196 °C to 0 °C	0.14 °C
316	THERMAL-TEMPERATURE	Indicator with sensor of Oven/ Environmental Chambers/ Furnaces/ Heating Chambers/ Incubators/ BOD Incubators (non-medical use only), Cold Room (Single Position)	Using SPRT, PRT with Super DAQ by comparison method	0 °C to 300 °C	1.10 °C
317	THERMAL-TEMPERATURE	Indicator with Sensor of Refrigerator, Oven, Dry Block Furnace, Dry Block Calibrator, Muffle Furnace, Chamber, Dry Block Calibrator (Single Position)	Using SPRT with Super DAQ by Comparison Method	> 300 °C to 660 °C	1.1 °C
318	THERMAL-TEMPERATURE	IR Thermometer, IR Gun, Radiation Pyrometer, IR Detector, Infrared Temp. Sensor/Transmitter, Thermal Imaging Camera (Temp. Only), IR Pyrometer, Infrared Body Temp. Thermometer @ emissivity 0.95	Using Radiation Pyrometer/Portable IR Calibrator by comparison method	50 °C to 500 °C	1.77 °C



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319	THERMAL-TEMPERATURE	IR Thermometer, IR Gun, Radiation Pyrometer, IR Detector, Infrared Temperature Sensor/Transmitter, Temperature Gun,Thermal Imaging Camera, IR Pyrometer,Infrared Body Temp. Thermometer @emissivity 0.95	Using Blackbody Source and 4 Wire RTD sensor with Super DAQ By Comparison Method	34 °C to 50 °C	0.75 °C
320	THERMAL-TEMPERATURE	Liquid Bath, Dry Block Calibrator, Field Metrology Well	Using two SPRT/ PRT with Super DAQ as per Euramet cg 13 and DKD-R 5-4	(-) 95 °C to 140 °C	0.064 °C
321	THERMAL-TEMPERATURE	Liquid Baths, Dry Block Calibrators, Metrology Well	Using two SPRT/ PRT with Super DAQ by comparison method as per Euromet CG13 and DKD-R-5-4	>140 °C to 200 °C	0.29 °C
322	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT with Super DAQ/ Liquid Temp Bath by Comparison Method	(-) 100 °C to 50 °C	0.13 °C
323	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT with Super DAQ/ Liquid Temp Bath by Comparison Method	50°C to 300°C	0.13 °C
324	THERMAL-TEMPERATURE	Temp. Block Calibrator, Liquid Nitrogen Bath, Low Temp. Bath, Cryo Bath	Using two SPRT / PRT with Super DAQ by Comparison Method as per Euramet CG13 and DKD-R 5-4	(-) 150 °C to 50 °C	0.01 °C



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325	THERMAL-TEMPERATURE	Temp. Block Calibrator, Liquid Nitrogen Bath, N2 Freezer, Low Temp. Bath, Dry Block Calibrator, Cryobath	Using two SPRT/PRT with super DAQ by comparison method as per Euromet CG13 and DKD-R-5-4)	(-) 196 °C	0.01 °C
326	THERMAL-TEMPERATURE	Temp. Block Calibrator, Liquid Nitrogen Bath, N2 Freezer, Low Temp. Bath, Dry Block Calibrator, Cryobath	Using two SPRT/PRT with super DAQ as per Euromet CG13 and DKD-R-5-4	(-) 196 °C to (-) 150 °C	0.01 °C
327	THERMAL-TEMPERATURE	Temperature Sensor with / without Indicator, Temperature & RH Data Logger (Temperature only) with / without Indicator, Data Logger (Inbuilt Sensor), Temperature Inbuilt Sensor, Thermo-Hygrometer	Using SPRT / RTD (4 Wire) with Super DAQ, Low Temperature Chamber by Comparison Method	(-) 25 °C to 60 °C	0.22 °C
328	THERMAL-TEMPERATURE	Temperature Transmitter, RTD / Thermocouple with or without Controller / Indicator / Data Logger / Recorder / Scanner, Temperature Gauge, Digital Thermometer	Using SPRT with Super DAQ, Liquid Nitrogen Bath and 6½ DMM by Comparison Method	(-) 196 °C	0.014 °C



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329	THERMAL-TEMPERATURE	Temperature Transmitter, RTD / Thermocouple with or without Controller / Indicator / Data Logger / Recorder / Scanner, Temperature Gauge, Digital Thermometer	Using SPRT with Super DAQ, Field Metrology Well and 6½ DMM by Comparison Method	(-) 95 °C to 140 °C	0.12 °C
330	THERMAL-TEMPERATURE	Temperature Transmitter, RTD / Thermocouple with or without Controller / Indicator / Data Logger / Recorder / Scanner, Temperature Gauge, Digital Thermometer	Using SPRT with Super DAQ, Liquid Temp Bath and 6½ DMM by Comparison Method	> 140 °C to 200 °C	0.085 °C
331	THERMAL-TEMPERATURE	Temperature Transmitter, RTD / Thermocouple with or without Controller / Indicator / Data Logger / Recorder / Scanner, Temperature Gauge, Digital Thermometer	Using SPRT with Super DAQ, Liquid Nitrogen Bath and 6½ DMM by Comparison Method	(-) 196 °C to 50 °C	0.05 °C
332	THERMAL-TEMPERATURE	Temperature Transmitter, RTD / Thermocouple with or without Controller / Indicator / Data Logger / Recorder / Scanner, Temperature Gauge, Digital Thermometer	Using SPRT with Super DAQ, Dry Block and 6½ DMM by Comparison Method	200 °C to 660 °C	0.48 °C



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333	THERMAL-TEMPERATURE	Thermocouples / Temperature Transmitter with or without Controller / Indicator / Recorder / Scanner, Data Logger, Digital Thermometer	Using S Type Thermocouple with Super DAQ, Dry Block Furnace and 6½ DMM by Comparison Method	> 660 °C to 1200 °C	0.96 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy (1P2W & 3P4W, 0.5 Lag to UPF to 0.5 Lead PF, 63.5 V, 50 Hz, 0.1 A to 5 A)	Using reference portable three phase power meter by Comparison Method	3.17 Wh to 952.5 Wh	1.2 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy (1P2W & 3P4W, 50 Hz, 0.5 Lag to UPF to 0.5 Lead PF, 240 V, 0.1 A to 5 A)	Using reference portable three phase power meter by Comparison Method	12 Wh to 3600 Wh	1.2 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy (1P2W & 3P4W, 50 Hz, 0.5 Lag to UPF to 0.5 Lead PF, 240 V, 0.1 A to 100 A)	Using reference portable three phase power meter by Comparison Method	12 Wh to 72 kWh	1.2 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy (1P2W & 3P4W, 50 Hz, 0.5 Lag to UPF to 0.5 Lead PF, 63.5 V, 0.1 A to 100 A)	Using reference portable three phase power meter by Comparison Method	3.17 Wh to 1.9 kWh	1.2 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz/ 60 Hz)	Using 6½ digital multimeter by direct method	30 µA to 100 mA	0.41 % to 0.2 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz/60 Hz)	Using 6½ digital multimeter by direct method	100 mA to 10 A	0.2 % to 0.27 %



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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current (50 Hz)	Using 6½ DMM & Current Transformer by direct method	10 A to 1000 A	1.3 % to 0.65 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage (50 Hz)	Using HV probe with DMM & AC High voltage source by Direct / Comparison method	1 kV to 28 kV	2.8 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance (1 kHz)	Using LCR Meter by direct method	1 ohm to 100 kohm	0.23 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz/ 60 Hz / 1 kHz)	Using 6½ DMM By Direct Method	10 mV to 10 V	0.53 % to 0.12 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz/60 Hz /1 kHz)	Using 6½ DMM By Direct Method	10 V to 1000 V	0.12 % to 0.18 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by direct method	1 nF to 1 µF	0.24 %



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13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Inductance (1 kHz)	Using LCR Meter, Inductance Box by Direct Method/Substitution Method	100 μ H to 1 H	0.45 % to 0.8 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz	Using 3 Phase Portable Reference Meter & Multifunction Calibrator by Direct/Comparison Method	0.25 pF to 1 pF	0.005 pF
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Single Phase Power (UPF to 0.5 Lag/Lead PF, 63.5 V, 50 Hz, 0.1 A to 5 A)	Using reference portable three phase power meter by Comparison Method	3.17 W to 317 W	0.28 %
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Single Phase Power (UPF to 0.5 Lag/Lead PF, 240 V, 50 Hz, 0.1 A to 5 A)	Using reference portable three phase power meter by Comparison Method	12 W to 1.2 kW	0.28 %
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Single Phase Power Clamp on CT (UPF to 0.5 Lag/Lead PF, 240 V, 50 Hz, 0.1 A to 100 A)	Using reference portable three phase power meter by Comparison Method	12 W to 24 kW	0.28 %
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Single Phase Power Clamp on CT (UPF to 0.5 Lag/Lead PF, 63.5 V, 50 Hz, 0.1 A to 100 A)	Using reference portable three phase power meter by Comparison Method	3.17 W to 6.3 kW	0.28 %



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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Three Phase Power (UPF to 0.5 Lag/Lead PF, 240 V, 50 Hz, 0.1 A to 5 A)	Using reference portable three phase power meter by Comparison Method	36 W to 3.6 kW	0.28 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Three Phase Power (UPF to 0.5 Lag/Lead PF, 63.5 V, 50 Hz, 0.1 A to 5 A)	Using reference portable three phase power meter by Comparison Method	9.5 W to 952 W	0.28 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Three Phase Power clamp on CT (UPF to 0.5 Lag/Lead PF, 240 V, 50 Hz, 0.1 A to 100 A)	Using reference portable three phase power meter by Comparison Method	36 W to 72 kW	0.28 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Three Phase Power clamp on CT (UPF to 0.5 Lag/Lead PF, 63.5 V, 50 Hz, 0.1 A to 100 A)	Using reference portable three phase power meter by Comparison Method	9.5 W to 19 kW	0.28 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz/ 60 Hz)	Using multifunction calibrator with current coil by direct method	20 A to 1000 A	0.31 % to 0.90 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz/ 60 Hz/1 kHz)	Using multifunction calibrator by Direct Method	300 mA to 20 A	0.2 % to 0.31 %



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25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz/60 Hz/1 kHz)	Using multifunction calibrator by Direct Method	50 µA to 300 mA	0.92 % to 0.2 %
26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power (Active Power 1ø) (50 Hz, 10 V to 640 V, 0.1 A to 19 A)	Using multifunction calibrator by direct method	1.5 W to 12 kW	0.41 % to 0.84 %
27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz/ 60 Hz/ 1 kHz/ 10 kHz)	Using multifunction calibrator by direct method	100 V to 1000 V	0.08 % to 0.11 %
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz/60 Hz/1 kHz/10 kHz)	Using multifunction calibrator by direct method	10 mV to 300 mV	1.16 % to 0.2 %
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz/60 Hz/1 kHz/10 kHz)	Using multifunction calibrator by direct method	300 mV to 100 V	0.2 % to 0.08 %
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using multifunction calibrator by direct method	1 nF to 100 µF	7.2 % to 1.62 %
31	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM By Direct Method	1 µA to 10 mA	3.0 % to 0.08 %



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32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM By Direct Method	10 mA to 3 A	0.08 % to 0.16 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM By Direct Method	3 A to 10 A	0.16 % to 0.2 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using 6½ DMM & Shunt by VI Method	10 A to 750 A	1 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM & DC high Voltage source by Direct/Comparison method	1 kV to 37 kV	1.97 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM By Direct Method	1 mV to 100 mV	0.5 % to 0.01 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM By Direct Method	10 V to 1000 V	0.06 % to 0.02 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM By Direct Method	100 mV to 10 V	0.01 % to 0.06 %



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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM by direct method	1 Mohm to 100 Mohm	0.13 % to 0.9 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM By Direct Method	10 ohm to 1 Mohm	0.06 % to 0.13 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM by direct method	100 Mohm to 1 Gohm	0.9 % to 2.36 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Micro Ohm Meter by Direct Method	1 ohm to 10 ohm	0.6 % to 0.05 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Micro Ohm Meter by Direct Method	100 µohm to 1 ohm	1.24 % to 0.92 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator by direct method	1 µA to 300 mA	1.35 % to 0.03 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator with current coil by direct method	20 A to 1000 A	0.12 % to 0.70 %



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator by direct method	300 mA to 20 A	0.03 % to 0.12 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 1000 V & 0.1 A to 19 A)	Using multifunction calibrator by direct method	1 W to 19 kW	0.31 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by direct method	1 mV to 300 mV	0.75 % to 0.01 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by direct method	300 mV to 300 V	0.01 % to 0.03 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by direct method	300 V to 1000 V	0.03 % to 0.014 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 500 V, 1000 V, 2500 V, 5000 V	Using high resistance box by direct method	1 Gohm	2.79 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 500 V, 1000 V, 2500 V, 5000 V	Using high resistance box by direct method	500 Mohm	2.76 %



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53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ @ 1000 V, 2500 V, 5000 V	Using high resistance box by direct method	10 Gohm	2.73 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 2500 V, 5000 V	Using high resistance box by direct method	100 Gohm	3.74 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 5000 V	Using high resistance box by direct method	1 Tohm	3.31 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 5000 V	Using high resistance box by direct method	200 Gohm	3.5 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 5000 V	Using high resistance box by direct method	500 Gohm	3.26 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.001 ohm	0.2 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.01 ohm	0.2 %



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60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.1 ohm	0.13 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	1 ohm	0.13 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	100 µohm	0.81 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using multifunction calibrator by direct method	1 ohm to 4 Mohm	0.65 % to 0.07 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using multifunction calibrator by direct method	4 Mohm to 40 Mohm	0.07 % to 0.18 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using multifunction calibrator by direct method	40 Mohm to 400 Mohm	0.18 % to 0.44 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	10 µohm	5.87 %



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67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter	Using Decade Resistance Box and Multiproduct Calibrator by Simulation Method	1 μ S/cm to 100000 μ S/cm	0.5 %
68	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude(Deflection Factor) 1 kHz / 1 MegaOhm	Using multifunction calibrator by direct method	5 mV to 120 V	1.0 %
69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using multifunction calibrator by direct method	50 kHz to 250 MHz	6.93 %
70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude (Deflection Factor) 1MOhm (DC)	Using multifunction calibrator by direct method	5 mV to 120 V	1.0 %
71	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base (Marker)	Using multifunction calibrator by direct method	10 ns to 5 s	0.5 %
72	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter	Using Multifunction Calibrator by Simulation Method	0 pH to 14 pH (414.12 mV to (-)414.12 mV) to	0.2 %
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	600 °C to 1700 °C	0.18 °C



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74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	(-) 100 °C to 600 °C	0.11 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	(-) 200 °C to 1200 °C	0.25 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	(-) 200 °C to 1300 °C	0.35 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	(-) 200 °C to 1300 °C	0.11 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	100 °C to 1700 °C	0.49 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD type	Using Super DAQ Precision Temperature Scanner by direct method	(-) 200 °C to 800 °C	0.07 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	50 °C to 1700 °C	0.12 °C



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81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Super DAQ Precision Temperature Scanner by direct method	(-) 200 °C to 400 °C	0.09 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type thermocouple	Using Multifunction Calibrator by Direct method	600 °C to 1700 °C	0.48 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Multifunction Calibrator by Direct method	(-) 100 °C to 600 °C	0.22 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type thermocouple	Using Multifunction Calibrator by Direct method	(-) 200 °C to 1200 °C	0.12 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Multifunction Calibrator by Direct method	(-) 200 °C to 1300 °C	0.32 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Multifunction Calibrator by Direct method	(-) 200 °C to 1300 °C	0.11 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multifunction Calibrator by Direct method	0 °C to 1700 °C	0.15 °C



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88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD type	Using Multifunction Calibrator by Direct method	(-) 200 °C to 800 °C	0.4 °C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Multifunction Calibrator by Direct method	0 to 1700 °C	0.68 °C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Multifunction Calibrator by Direct method	(-) 200 °C to 400 °C	0.32 °C
91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ DMM by direct method	10 Hz to 1 MHz	0.06 %
92	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	1 s	0.0078 s
93	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	100 ms	0.003 s
94	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	14400 s	0.23 s



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95	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	1800 s	0.04 s
96	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	3600 s	0.07 s
97	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	60 s	0.006 s
98	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	600 s	0.02 s
99	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	7200 s	0.2 s
100	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison method	86400 s	3.69 s
101	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using multifunction calibrator by direct method	10 Hz to 10 MHz	0.07 % to 0.008 %



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102	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow Rate (Air)	Using Reference Flow Meter Consisting molebloc Sensor by Comparison Method	1 SLM to 50 SLM	1.4 %rdg
103	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow Rate (Air)	Using Digital Low Flow Calibrator by Comparison Method	1.5 cc/min to 466 cc/min	4.2 %
104	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow Rate (Air)	Using Orifice Flow Calibrator by Comparison Method	50 SLPM to 250 SLPM	1.28 %
105	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Water)	Using Ultrasonic Flow Meter by Comparison Method	> 80 m ³ /hr to 1450 m ³ /hr	1.5 % rdg
106	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Water)	Using Ultrasonic Flow Meter by Comparison Method	0.8 m ³ /hr to 80 m ³ /hr	1.98 %rdg
107	MECHANICAL-ACCELERATION AND SPEED	Pulse engine tachometer, Digital tachometer (Non contact type)	Using standard digital tachometer & RPM source by comparison method	1000 rpm to 10000 rpm	0.09 % rdg.
108	MECHANICAL-ACCELERATION AND SPEED	Pulse engine tachometer, Digital tachometer (Non contact type)	Using standard digital tachometer & RPM source by comparison method	50000 rpm to 100000 rpm	0.01 % rdg.
109	MECHANICAL-ACCELERATION AND SPEED	Pulse engine tachometer, Tachometer (Non contact type)	Using standard digital tachometer & RPM source by comparison method	6 rpm to 10 rpm	5.84 % rdg.



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110	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator, pulse engine tachometer, digital tachometer (Non contact type)	Using standard digital tachometer & RPM source by comparison method	10000 rpm to 50000 rpm	0.02 % rdg.
111	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator, pulse engine tachometer, digital tachometer (Non contact type)	Using standard digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	3.93 % rdg.
112	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator, Pulse engine tachometer, digital tachometer (Non contact type)	Using standard digital tachometer & RPM source by comparison method	100 rpm to 1000 rpm	0.35 % rdg.
113	MECHANICAL-ACCELERATION AND SPEED	stroboscope / centrifuge (Non contact type)	Using standard digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	3.93 % rdg.
114	MECHANICAL-ACCELERATION AND SPEED	stroboscope / centrifuge (Non contact type)	Using standard digital tachometer & RPM source by comparison method	100 rpm to 1000 rpm	0.35 % rdg.
115	MECHANICAL-ACCELERATION AND SPEED	stroboscope / centrifuge (Non contact type)	Using standard digital tachometer & RPM source by comparison method	10000 rpm to 50000 rpm	0.02 % rdg
116	MECHANICAL-ACCELERATION AND SPEED	stroboscope /rpm source/ centrifuge (Non contact type)	Using standard digital tachometer by direct method	50000 rpm to 100000 rpm	0.01 %rdg
117	MECHANICAL-ACCELERATION AND SPEED	stroboscope /rpm source/ centrifuge(Non contact type)	Using standard digital tachometer & RPM source by comparison method	6 rpm to 10 rpm	5.84 % rdg
118	MECHANICAL-ACCELERATION AND SPEED	stroboscope /rpm source/ centrifuge(Non contact type)	Using standard digital tachometer by direct method	1000 rpm to 10000 rpm	0.09 %



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119	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicator, Rotation Meter (Contact type)	Using standard digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	2.6 % rdg.
120	MECHANICAL-ACCELERATION AND SPEED	Tachometer/ Rotation Meter (Contact type)	Using standard digital tachometer & RPM source by comparison method	5000 rpm to 10000 rpm	0.04 % rdg.
121	MECHANICAL-ACCELERATION AND SPEED	Tachometer/ Rotation Meter (Contact type)	Using standard digital tachometer & RPM source by comparison method	100 rpm to 1000 rpm	0.28 % rdg.
122	MECHANICAL-ACCELERATION AND SPEED	Tachometer/ Rotation Meter (Contact type)	Using standard digital tachometer & RPM source by comparison method	6 rpm to 10 rpm	4.37 % rdg.
123	MECHANICAL-ACCELERATION AND SPEED	Tachometer/ RPM Indicator, Rotation Meter (Contact type)	Using standard digital tachometer & RPM source by comparison method	1000 rpm to 5000 rpm	0.17 % rdg.
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre - Co axiality	Using Test Mandrel and Dial Test Indicator by Comparison Method	Up to 300 mm	10 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre - Parallelism	Using Test Mandrel & Dial Test Indicator by Comparison Method	Up to 300 mm	10 µm



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126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using Electronic Level by Comparison Method	Up to 300 mm X 300 mm	$1.2 \times \text{Sqrt}((L+W) / 150) \mu\text{m}$, Where L & W are in mm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using Dial Test Indicator by Comparison Method	Up to 300 mm x 300 mm to	4.7 μm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Impact Test Apparatus, Pendulum Hammer, Spring Impact Hammer - Linear Dimension	Using Measuring Tape, Vernier Caliper by Direct Method	0 to 300 mm	60 μm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Centre Distance)	Using slip gauge block grade '0' & dial test indicator by comparison method	up to 300 mm	3.8 μm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Parallelism of working surface)	Using electronic probe & surface plate by comparison method	up to 300 mm	4 μm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Coaxiality of Dead center)	Using test mandrel & dial test indicator by comparison method	Up to 300 mm	4.6 μm



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132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite / Cast Iron)	Using electronic level by comparison method	Up to 6000 mm x 4000 mm	1.3 x Sq.root (L+W)/ 125 µm, where L & W are in mm
133	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Angle Measurement) (L.C: 1 Second)	Using angle gauges by comparison method	0 ° to 360 °	75 Second of Arc
134	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM / Microscope (Linear Dimension) (X-Y axis) (L.C: 1 µm)	Using slip gauge grade '0' & long gauge block by comparison method	0 to 300 mm	3.9 µm
135	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM /Microscope (Magnification)	Using slip gauge grade '0' & digital caliper by comparison method	Upto 50 X	1 %
136	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine/ single axis measuring machine (Resolution: 0.0001 mm)	Using slip gauge grade '0' by comparison method	0 to 100 mm	0.5 µm
137	MECHANICAL-PRESSURE INDICATING DEVICES	Barometric Pressure Gauge	Using digital barometric pressure indicator and low pressure pump by comparison method	150 mbar to 1050 mbar	0.67 mbar



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138	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehelic gauge, pressure switch) (Digital/Analog)	Using standard digital pressure calibrator, DMM by comparison method	(-) 250 Pa to 250 Pa	1.0 Pa
139	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehelic gauge, pressure switch) (Digital/Analog)	Using standard digital pressure calibrator, DMM by comparison method	(-) 2000 Pa to 2000 Pa	2.67 Pa
140	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehelic gauge, pressure switch) (Digital/Analog)	Using standard digital manometer, DMM and low pressure pump by comparison method	0 to 200 mbar	0.20 mbar
141	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (digital/analog) - pneumatic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 to 3 bar	0.0028 bar
142	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (digital/analog) - pneumatic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 to 30 bar	0.04 bar



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143	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (Analog/Digital) - Hydraulic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 to 1000 bar	0.63 bar
144	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (Analog/Digital) - Hydraulic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 to 70 bar	0.065 bar
145	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge, Transmitter, transducer (Digital / Analog)	Using standard digital pressure gauge and DMM by comparison method	(-) 0.95 bar to 0	0.003 bar
146	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class - I & coarser) (Resolution= 0.0001 mg or coarser)	Using E1 class standard weights as per OIML R76-1	0 to 2.2 g	0.004 mg
147	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability 0.001 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 22 g	0.004 mg
148	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability=0.01 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 250 g	0.04 mg
149	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability=0.1 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 410g	0.08 mg
150	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability=1 mg) & Coarser	Using E1 class standard weights as per OIML R76-1	0 to 1000 g	0.0008 g



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151	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II & coarser) (Readability=0.01 g & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 6 kg	0.01 g
152	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II & coarser) (Readability=0.01 g & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 10 kg	0.007 g
153	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II & coarser) (Readability=0.1 g & Coarser)	Using E1 and F1 class standard weights as per OIML R76-1	0 to 32 kg	0.06 g
154	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class III & coarser) (Readability=1 g & Coarser)	Using F1 class standard weights as per OIML R76-1	0 to 100 kg	0.8 g
155	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class IIII) (Readability=10 g & Coarser)	Using F1 & M1 class standard weights as per OIML R76-1	0 to 500 kg	28 g
156	THERMAL-SPECIFIC HEAT & HUMIDITY	Dew Point meter	Using Digital Temperature & Relative humidity Indicator with sensor using Relative humidity generator by calculation from temperature & RH parameters	(-) 5 °C to 50 °C @ 0.5 %rh to 95 %rh	0.58°C
157	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber/Humidity Source, (Humidity Calibrator /Generator Chamber) - Multi position	Using Digital Data logger with RH sensors (Minimum nine sensors) by Comparison Method	5 %rh to 95 %rh @ 25 °C	0.85 %rh



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158	THERMAL-SPECIFIC HEAT & HUMIDITY	Temp. /RH Chambers, Cold Chamber, Cool/cold Room, Storage Room, Environment Chamber, Stability Chamber (Multiposition)	Using Digital Data Logger with Temp. / RH sensors (using minimum nine sensors) by Comparison Method	20 %rh to 95 %rh @ 15 °C to 50 °C	1.5 %rh
159	THERMAL-SPECIFIC HEAT & HUMIDITY	Temp. Chambers, Incubators(for non-medical applications)Refrigerators, Cold Chamber, Deep Freezer, Storage Room, Environment/Stability Chamber, Centrifuged Chamber, Cold Room (Multiposition)	Using Multiple RTD Sensors with Super DAQ/Data Loggers (minimum nine sensors) by comparison method	(-) 80 °C to 300 °C	0.31 °C
160	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Relative humidity indicator with Sensor of Environment Chamber / Humidity Chamber/Humidity Source (Humidity Calibrator /Generator Chamber) - (Single position)	Using Digital Temperature & Humidity Indicator with sensor by Comparison method	5 % rh to 95 % rh @ 25 °C	0.85 % rh



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161	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & RH sensor with Indicator, RH transmitter without indicator, Thermo-hygrometer, Data Logger with Internal/External Sensor	Using SPRT using Precision Temperature Indicator, Relative humidity indicator using Temperature & Relative Humidity generator, DMM by Comparison method	(-) 5 °C to 50 °C @ 50 % rh	0.22 °C
162	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & RH sensor with Indicator, RH transmitter without indicator, Thermo-hygrometer, Data Logger with Internal/External Sensor	Using Digital Temperature & Relative humidity Indicator with sensor using Relative humidity generator, DMM by comparison method.	0.5 % rh to 95 % rh @ 25 °C	0.61 % rh
163	THERMAL-TEMPERATURE	Autoclave (for non medical purpose only) - Multiposition	Using Multiple RTD Sensors (minimum 9 sensors) with Super DAQ by comparison method	115 °C to 137 °C	0.84 °C
164	THERMAL-TEMPERATURE	Blackbody Source/ IR Thermal Sources @ emissivity 0.95	Using Reference IR Pyrometer by comparison method	35 °C to 50 °C	1 °C
165	THERMAL-TEMPERATURE	Blackbody Source/ IR Thermal Sources @ emissivity 0.95	Using Reference IR Pyrometer by comparison method	50 °C to 500 °C	1.77 °C
166	THERMAL-TEMPERATURE	Dry Block Calibrator, Furnace / Metrology Well, Thermal Source	Using Two SPRT / PRT with Super DAQ by Comparison Method	> 200 °C to 660 °C	1.09 °C



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167	THERMAL-TEMPERATURE	Dry Block Furnace, High Temperature Furnace with Block / Dry Block Calibrator	Using Standard two S - Type Thermocouples with Super DAQ as per Euramet cg 13 and DKD-R 5-4	> 660 °C to 1200 °C	1.4 °C
168	THERMAL-TEMPERATURE	Freezers, Deep Freezer, Cold Chamber, Environmental Chambers, Cold Room, Walking Chiller) (Multi position)	Using Multiple RTD Sensors with Super DAQ (minimum nine sensors) by Comparison method as per DKD-R-5-7, IEC 60068-3-6, IEC 60068-3-11	(-) 80 °C to 0 °C	0.73 °C
169	THERMAL-TEMPERATURE	Furnace, Oven, Industrial Furnace, Freezers, Deep Freezer, Cold Chamber, Env. Chambers, Cold Room, Walking Chiller (Multiposition)	Using Multiple RTD Sensors with Super DAQ (minimum 9 sensors) y comparison method as per DKD-R-5-7, IEC 60068-3-6, IEC 60068-3-11	0 °C to 300 °C	0.84 °C
170	THERMAL-TEMPERATURE	Furnaces, Muffle Furnace, Industrial Furnace, Oven, Dry Heat Sterilizer (Multiposition)	Using Multiple N-Type Thermocouples Sensor with Super DAQ (minimum nine Sensor) by Comparison method	>300 °C to 1200 °C	1.9 °C
171	THERMAL-TEMPERATURE	Indicator with sensor of Dry Block Furnaces, Metrology Well, Chambers, Dry Block calibrators, Muffle Furnace (Single position)	Using Type-S Thermocouples with Super DAQ by comparison method	>660 °C to 1200 °C	1.39 °C



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172	THERMAL-TEMPERATURE	Indicator with sensor of Liquid Bath, Dry Block Furnaces, Dry Block calibrators) (Single Position)	Using SPRT/ PRT with Super DAQ by comparison method	(-) 196 °C to 0 °C	0.14 °C
173	THERMAL-TEMPERATURE	Indicator with sensor of Oven/ Environmental Chambers/ Furnaces/ Heating Chambers/ Incubators/ BOD Incubators (non-medical use only), Cold Room (Single Position)	Using SPRT, PRT with Super DAQ by comparison method	0 °C to 300 °C	1.10 °C
174	THERMAL-TEMPERATURE	Indicator with Sensor of Refrigerator, Oven, Dry Block Furnace, Dry Block Calibrator, Muffle Furnace, Chamber, Dry Block Calibrator (Single Position)	Using SPRT with Super DAQ by Comparison Method	> 300 °C to 660 °C	1.1 °C
175	THERMAL-TEMPERATURE	IR Thermometer, IR Gun, Radiation Pyrometer, IR Detector, Infrared Temp. Sensor/Transmitter, Thermal Imaging Camera (Temp. Only), IR Pyrometer, Infrared Body Temp. Thermometer @ emissivity 0.95	Using Radiation Pyrometer/Portable IR Calibrator by comparison method	50 °C to 500 °C	1.77 °C



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176	THERMAL-TEMPERATURE	IR Thermometer, IR Gun, Radiation Pyrometer, IR Detector, Infrared Temperature Sensor/Transmitter, Temperature Gun,Thermal Imaging Camera, IR Pyrometer,Infrared Body Temp. Thermometer @emissivity 0.95	Using Blackbody Source and 4 Wire RTD sensor with Super DAQ By Comparison Method	34 °C to 50 °C	0.75 °C
177	THERMAL-TEMPERATURE	Liquid Bath, Dry Block Calibrator, Field Metrology Well	Using two SPRT/ PRT with Super DAQ as per Euramet cg 13 and DKD-R 5-4	(-) 95 °C to 140 °C	0.064 °C
178	THERMAL-TEMPERATURE	Liquid Baths, Dry Block Calibrators, Metrology Well	Using two SPRT/ PRT with Super DAQ by comparison method as per Euromet CG13 and DKD-R-5-4	>140 °C to 200 °C	0.29 °C
179	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT with Super DAQ/ Liquid Temp Bath by Comparison Method	(-) 100 °C to 50 °C	0.13 °C
180	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT with Super DAQ/ Liquid Temp Bath by Comparison Method	50°C to 300°C	0.13 °C
181	THERMAL-TEMPERATURE	Temp. Block Calibrator, Liquid Nitrogen Bath, Low Temp. Bath, Cryo Bath	Using two SPRT / PRT with Super DAQ by Comparison Method as per Euramet CG13 and DKD-R 5-4	(-) 150 °C to 50 °C	0.01 °C



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182	THERMAL-TEMPERATURE	Temp. Block Calibrator, Liquid Nitrogen Bath, N2 Freezer, Low Temp. Bath, Dry Block Calibrator, Cryobath	Using two SPRT/PRT with super DAQ by comparison method as per Euromet CG13 and DKD-R-5-4)	(-) 196 °C	0.01 °C
183	THERMAL-TEMPERATURE	Temp. Block Calibrator, Liquid Nitrogen Bath, N2 Freezer, Low Temp. Bath, Dry Block Calibrator, Cryobath	Using two SPRT/PRT with super DAQ as per Euromet CG13 and DKD-R-5-4	(-) 196 °C to (-) 150 °C	0.01 °C
184	THERMAL-TEMPERATURE	Temperature Sensor with / without Indicator, Temperature & RH Data Logger (Temperature only) with / without Indicator, Data Logger (Inbuilt Sensor), Temperature Inbuilt Sensor, Thermo-Hygrometer	Using SPRT / RTD (4 Wire) with Super DAQ, Low Temperature Chamber by Comparison Method	(-) 25 °C to 60 °C	0.22 °C
185	THERMAL-TEMPERATURE	Temperature Transmitter, RTD / Thermocouple with or without Controller / Indicator / Data Logger / Recorder / Scanner, Temperature Gauge, Digital Thermometer	Using SPRT with Super DAQ, Liquid Nitrogen Bath and 6½ DMM by Comparison Method	(-) 196 °C	0.014 °C



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186	THERMAL-TEMPERATURE	Temperature Transmitter, RTD / Thermocouple with or without Controller / Indicator / Data Logger / Recorder / Scanner, Temperature Gauge, Digital Thermometer	Using SPRT with Super DAQ, Field Metrology Well and 6½ DMM by Comparison Method	(-) 95 °C to 140 °C	0.12 °C
187	THERMAL-TEMPERATURE	Temperature Transmitter, RTD / Thermocouple with or without Controller / Indicator / Data Logger / Recorder / Scanner, Temperature Gauge, Digital Thermometer	Using SPRT with Super DAQ, Liquid Temp Bath and 6½ DMM by Comparison Method	> 140 °C to 200 °C	0.085 °C
188	THERMAL-TEMPERATURE	Temperature Transmitter, RTD / Thermocouple with or without Controller / Indicator / Data Logger / Recorder / Scanner, Temperature Gauge, Digital Thermometer	Using SPRT with Super DAQ, Liquid Nitrogen Bath and 6½ DMM by Comparison Method	(-) 196 °C to 50 °C	0.05 °C
189	THERMAL-TEMPERATURE	Temperature Transmitter, RTD / Thermocouple with or without Controller / Indicator / Data Logger / Recorder / Scanner, Temperature Gauge, Digital Thermometer	Using SPRT with Super DAQ, Dry Block and 6½ DMM by Comparison Method	200 °C to 660 °C	0.48 °C



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190	THERMAL-TEMPERATURE	Thermocouples / Temperature Transmitter with or without Controller / Indicator / Recorder / Scanner, Data Logger, Digital Thermometer	Using S Type Thermocouple with Super DAQ, Dry Block Furnace and 6½ DMM by Comparison Method	> 660 °C to 1200 °C	0.96 °C

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