



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SUTHAN BROTHER ENGINEERING PRIVATE LIMITED (A UNIT OF GEI GROUP OF COMPANIES, SINGAPORE), NO. 1B, 4TH CROSS STREET, ANANDA NAGAR, SANTHOSAPURAM, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3859

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Validity 13/03/2026 to 12/03/2030

Last Amended on 01/04/2026

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.28 % to 0.37 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Current Shunt with 6½ Digit Multimeter by V-I Method	1 A to 30 A	0.56 % to 0.67 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mA to 10 mA	0.19 % to 0.49 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mA to 1 A	0.49 % to 0.28 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 µA to 1 mA	0.29 % to 0.19 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	30 µA to 100 µA	0.59 % to 0.29 %



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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	3.84 % to 0.42 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 V to 10 V	0.89 % to 0.15 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mV to 1 V	0.42 % to 0.89 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 V to 750 V	0.15 % to 0.11 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Active Energy @ (50 Hz, UPF, 4 V to 300 V, 0.1 A to 15 A)	Using 3 Phase Power Energy Calibrator by Direct Method	3 Wh to 4.5 kWh	4.25 % to 0.812 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Power @ (50 Hz, 0.2 PF, 120 V to 240 V, 0.1 A to 10 A)	Using Multi Product Calibrator by Direct Method	2.4 W to 480 W	2.83 % to 1.22 %



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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Power @ (50 Hz, 0.5 PF, 120 V to 240 V, 0.1 A to 10 A)	Using Multi Product Calibrator by Direct Method	6 W to 1.2 kW	0.55 % to 0.53 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Power @ (50 Hz, 0.8 PF, 120 V to 240 V, 0.1 A to 10 A)	Using Multi Product Calibrator by Direct Method	9.6 W to 1.92 kW	0.26 % to 0.24 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Power @ (50 Hz, UPF, 120 V to 240 V, 0.01 A to 10 A)	Using Multi Product Calibrator by Direct Method	1.2 W to 2.4 kW	0.16 % to 0.14 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 4 Wire, AC Active Energy @ (50 Hz, UPF, 4 V to 300 V, 0.1 A to 15 A)	Using 3 Phase Power Energy Calibrator by Direct Method	3 Wh to 7.8 kWh	4.25 % to 0.812 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with Current Coil by Direct Method	10 A to 100 A	2.23 % to 0.93 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with Current Coil by Direct Method	100 A to 500 A	0.93 % to 0.86 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 mA to 100 mA	0.32 % to 0.24 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 μ A to 1 mA	0.8 % to 0.18 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 mA to 10 A	0.24 % to 0.14 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	30 μ A to 100 μ A	1.09 % to 0.8 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	2.52 % to 0.4 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.11 % to 0.24 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.4 % to 0.083 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.24 % to 0.13 %



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27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.083 % to 0.11 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.13 % to 0.095 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	1 nF to 100 nF	0.4 % to 0.091 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	100 nF to 3.2 μ F	0.091 % to 0.54 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	330 pF to 1 nF	4.1 % to 0.4 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 μ H to 10 H	1.16 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz	Using Multi Product Calibrator by Direct Method	0.2 PF to UPF	0.0055 PF to 0.005 PF



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 µA to 100 µA	3.12 % to 0.13 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.15 % to 0.19 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Current Shunt with 6½ Digit Multimeter by V - I Method	1 A to 30 A	0.6 % to 0.66 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 10 mA	0.068 % to 0.083 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 mA to 1 A	0.083 % to 0.15 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 1 mA	0.13 % to 0.068 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Current Shunt with 6½ Digit Multimeter by V - I Method	30 A to 100 A	0.66 % to 1.25 %



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41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 kohm to 100 kohm	0.016 % to 0.014 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.024 % to 0.051 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 10 ohm	0.5 % to 0.06 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.051 % to 0.94 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	10 ohm to 100 ohm	0.06 % to 0.019 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	100 kohm to 1 Mohm	0.014 % to 0.024 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	100 ohm to 1 kohm	0.019 % to 0.016 %



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48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 kohm to 100 kohm	0.016 % to 0.014 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 10 ohm	0.74 % to 0.09 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	10 ohm to 100 ohm	0.06 % to 0.019 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	100 kohm to 1 Mohm	0.014 % to 0.024 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	100 ohm to 1 kohm	0.019 % to 0.016 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	0.48 % to 0.053 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 10 V	0.006 %



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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 1 V	0.053 % to 0.006 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 V to 1000 V	0.006 % to 0.007 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 µA to 10 µA	5.79 % to 0.58 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.05 % to 0.11 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 mA to 100 mA	0.022 % to 0.017 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 µA to 100 µA	0.58 % to 0.074 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with Current Coil by Direct Method	10 A to 100 A	0.7 % to 0.74 %



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62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 μ A to 1 mA	0.074 % to 0.022 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with Current Coil by Direct Method	100 A to 500 A	0.74 % to 0.7 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.017 % to 0.05 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	1 ohm to 100 Mohm	0.69 % to 0.57 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi Product Calibrator by Direct Method	100 kohm to 100 Mohm	0.025 % to 0.57 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	0.57 % to 0.59 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 kohm to 10 kohm	0.018 % to 0.034 %



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69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using 4 wire Low Resistance box by Direct Method	1 mohm to 1 ohm	0.2 % to 0.92 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 ohm to 10 ohm	4.2 % to 0.12 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	10 kohm to 100 Kohm	0.034 % to 0.025 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	10 ohm to 100 ohm	0.12 % to 0.03 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using 4 wire Low Resistance box by Direct Method	100 µohm to 1 mohm	0.88 % to 0.2 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	100 ohm to 1 kohm	0.03 % to 0.018 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	0.5 mV to 10 mV	0.74 % to 0.041 %



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76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.041 % to 0.01 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 mV to 100 V	0.01 % to 0.007 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.007 % to 0.0065 %
79	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter	Using Multifunction Calibrator by Direct Method	4 pH to 14 pH {180 mV mV to (-) 400 mV}	0.2 % to 0.2 %
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.27 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.58 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.6 °C



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83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.72 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.47 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Multi Product Calibrator by Direct Method	0 °C to 1700 °C	0.66 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Multi Product Calibrator by Direct Method	0 °C to 1700 °C	0.56 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.74 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.27 °C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.59 °C



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90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.59 °C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.47 °C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.47 °C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multi Product Calibrator by Direct Method	0 °C to 1700 °C	0.67 °C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multi Product Calibrator by Direct Method	0 °C to 1700 °C	0.57 °C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.75 °C
96	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	1 Hz to 300 kHz	0.59 % to 0.007 %



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97	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by Comparison Method	1 s to 3600 s	0.04 s to 0.98 s
98	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by Comparison Method	3600 s to 86400 s	0.98 s to 3.26 s
99	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1 Hz to 1.9 MHz	0.12 % to 0.91 %
100	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Indicator with Sensor, RPM Source, RPM Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	> 1000 RPM to 10000 RPM	2.11 RPM
101	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Indicator with Sensor, RPM Source, RPM Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	> 10000 RPM to 30000 RPM	3.45 RPM
102	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Indicator with Sensor, RPM Source, RPM Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	10 RPM to 1000 RPM	0.76 RPM
103	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	> 100 RPM to 1000 RPM	2.2 RPM



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104	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	> 1000 RPM to 10000 RPM	2.54 RPM
105	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	10 RPM to 100 RPM	0.59 RPM
106	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Non Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	> 100 RPM to 1000 RPM	1.43 RPM
107	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Non Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	> 1000 RPM to 10000 RPM	2.53 RPM
108	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Non Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	> 10000 RPM to 50000 RPM	6.71 RPM
109	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Non Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	> 50000 RPM to 90000 RPM	11 RPM
110	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Non Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	10 RPM to 100 RPM	0.58 RPM
111	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method as per IS 15575, OIML-R 58	94 dB & 114 dB	0.71 dB



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112	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer, Specific Gravity Hydrometer	Using Hydrometers and Appropriate Liquid by Comparison Method by Archimedes Principle Method as per IS 3104, ASTM E126-13a	0.65 g/ml to 1.6 g/ml	0.0025 g/ml
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	2D Height Gauge Probe Calibrator - Thickness	Using Universal Length Measuring System by Direct Method	5 mm to 20 mm	1.02 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	2D Height Gauge Setting Block - Gap Width	Using Slip Gauge Blocks by Direct Method	25 mm	1.1 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Aggregate Impact Crushing Mould - Diameter	Using Digital Caliper by Direct Method	75 mm to 152 mm	18 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Aggregate Impact Crushing Mould - Height	Using Digital Caliper and Surface Plate by Direct Method	70 mm to 140 mm	19 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Aggregate Impact Crushing Mould - Thickness	Using Digital Caliper by Direct Method	8 mm to 16 mm	17 µm

This is annexure to 'Certificate of Accreditation' and does not require any signature.



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118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Aggregate Impact Testing Apparatus - Cup Diameter	Using Digital Caliper by Direct Method	100 mm	34 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Aggregate Impact Testing Apparatus - Fall Height	Using 2D Electronic Height Gauge and Surface Plate by Direct Method	385 mm	27 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre - Coaxiality of Centre	Using Mandrel & Lever Dial Gauge by Direct Method	150 mm to 300 mm	6.2 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre - Parallelism	Using Lever Dial Gauge with Stand and Taper Shank Mandrel by Direct Method	150 mm to 300 mm	8 µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (L.C.: 5 minute of arc)	Using Vision Measuring System by Comparison Method	0 ° to 360 °	6.29 minute of arc
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - Transmission Error (L.C.: 0.001 mm)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 1.2 mm	2.2 µm



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124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Micrometer (Three Point) - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Setting Ring Gauge by Comparison Method	2.5 mm to 150 mm	2.4 μ m
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial (L.C.: 0.01 mm)	Using Slip Gauge Blocks and Caliper Checker by Comparison Method	0 to 300 mm	10 μ m
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial (L.C.: 0.01 mm)	Using Slip Gauges, Long Slip Gauges and Slip Gauge Accessories by Comparison Method	0 to 1000 mm	13 μ m
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial (L.C.: 0.01 mm)	Using Slip Gauges, Long Slip Gauges and Slip Gauge Accessories by Comparison Method	0 to 1500 mm	18 μ m
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial (L.C.: 0.01 mm)	Using Slip Gauge Blocks and Caliper Checker by Comparison Method	0 to 600 mm	11 μ m
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial (L.C.: 0.02 mm)	Using Slip Gauges, Long Slip Gauges and Slip Gauge Accessories by Comparison Method	0 to 1000 mm	16 μ m



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130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Foil	Using Universal Length Measuring System by Direct Method	0.01 mm to 2 mm	1.48 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.1 µm)	Using Standard Foils by Comparison Method	9 µm to 100 µm	1.2 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 1 µm)	Using Standard Foils by Comparison Method	> 100 µm to 2000 µm	1.8 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set, Inclinator, Degree Protractor (L.C.: 1°)	Using Vision Measuring System by Comparison Method	0 ° to 180 °	35 minute of arc
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness of Base	Using Lever Dial Gauge, Screw Jack and Surface Plate by Direct Method	50 mm x 50 mm to 300 mm x 300 mm	3.26 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Core Cutter - Height	Using 2D Electronic Height Gauge and Surface Plate by Direct Method	130 mm	24 µm



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136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Core Cutter - Inner Diameter	Using Digital Caliper by Direct Method	100 mm	12 µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Core Cutter Dolley - Height	Using 2D Electronic Height Gauge and Surface Plate by Direct Method	25 mm	24 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Core Cutter Dolley - Inner Diameter	Using Digital Caliper by Direct Method	100 mm to 115 mm	13 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter - Angle	Using Video Measuring System by Direct Method	55 ° to 60 °	5.3 minute of arc
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter - Pitch	Using Video Measuring System by Direct Method	0.5 mm to 3 mm	14.9 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould - Linear	Using Digital Caliper by Direct Method	50 mm x 50 mm to 150 mm x 150 mm	98 µm



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142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using Slip Gauge Block, Electronic Probe with Indicator and Comparator Stand by Comparison Method	0.5 mm to 25 mm	1 μ m
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Degree Protractor (L.C.: 0.1°)	Using Vision Measuring System by Comparison Method	0 ° to 180 °	9.5 minute of arc
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Digital / Dial (L.C.: 0.01 mm)	Using Gauge Blocks, Long Gauge Blocks and Surface Plate by Comparison Method	> 300 mm to 500 mm	13.84 μ m
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Digital / Dial (L.C.: 0.01 mm)	Using Gauge Blocks, Long Gauge Blocks and Surface Plate by Comparison Method	0 to 300 mm	9.81 μ m
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer - Analog / Digital (L.C.: 0.001 mm)	Using Slip Gauge Blocks, Long Slip Gauge Blocks and Surface Plate by Comparison Method	> 125 mm to 150 mm	5.1 μ m
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer - Analog / Digital (L.C.: 0.001 mm)	Using Slip Gauge Blocks, Long Slip Gauge Blocks and Surface Plate by Comparison Method	0 to 125 mm	4 μ m



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148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge - External (L.C.: 0.01 mm)	Using Slip Gauge Blocks by Comparison Method	0 to 20 mm	8.4 μ m
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge - Internal (L.C.: 0.01 mm)	Using Slip Gauge Blocks and Slip Gauge Accessories Set by Comparison Method	20 mm to 135 mm	9.96 μ m
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge - Analog / Digital (L.C.: 0.001 mm)	Using Slip Gauge Blocks by Comparison Method	0 to 25 mm	0.9 μ m
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge - Diameter	Using Universal Length Measuring System by Direct Method	$\varnothing$ 6 mm	0.7 μ m
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge - Height	Using 2D Electronic Height Gauge and Surface Plate by Direct Method	6 mm to 45 mm	5.7 μ m
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge - Length	Using Digital Caliper by Direct Method	14.7 mm to 81 mm	50 μ m



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154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.001 mm)	Using Slip Gauge Blocks, Long Slip Gauge Blocks by Comparison Method	> 100 mm to 125 mm	1.46 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.001 mm)	Using Slip Gauge Blocks, Long Slip Gauge Blocks by Comparison Method	> 150 mm to 300 mm	2.15 µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.001 mm)	Using Slip Gauge Blocks by Comparison Method	> 75 mm to 100 mm	0.91 µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.001 mm)	Using Slip Gauge Blocks by Comparison Method	0 to 75 mm	0.75 µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.01 mm)	Using Slip Gauge Blocks and Long Slip Gauge Blocks by Comparison Method	> 100 mm to 300 mm	7.8 µm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.01 mm)	Using Slip Gauge Blocks and Long Slip Gauge Blocks by Comparison Method	> 300 mm to 500 mm	8.8 µm



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160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.01 mm)	Using Slip Gauge Blocks and Long Slip Gauge Blocks by Comparison Method	> 500 mm to 700 mm	12 µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.01 mm)	Using Slip Gauge Blocks and Long Slip Gauge Blocks by Comparison Method	> 700 mm to 800 mm	11 µm
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.01 mm)	Using Slip Gauge Blocks and Long Slip Gauge Blocks by Comparison Method	> 800 mm to 900 mm	12 µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.01 mm)	Using Slip Gauge Blocks and Long Slip Gauge Blocks by Comparison Method	> 900 mm to 1000 mm	12 µm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.001 mm)	Using Slip Gauge Blocks and Long Slip Gauge Blocks by Comparison Method	> 125 mm to 150 mm	2.01 µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.01 mm)	Using Slip Gauge Blocks and Long Slip Gauge Blocks by Comparison Method	> 1000 mm to 1400 mm	17 µm



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166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Direct Method	0.03 mm to 8 mm	1.8 µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge - Length	Using Digital Caliper by Direct Method	4.83 mm to 100 mm	35 µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge	Using Slip Gauge Blocks, Electronic Probe with Indicator and Comparator Stand by Comparison Method	2.5 mm to 100 mm	2.33 µm
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Digital / Dial (L.C.: 0.01 mm)	Using Slip Gauge Blocks, Long Slip Gauge Blocks, Granite Surface Plate by Comparison Method	0 to 1000 mm	11.6 µm
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer (L.C.: 0.01°)	Using Angle Gauge & Surface Table by Comparison Method	0 ° to 90 °	36 second of arc
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Ball - Diameter	Using Length Measuring Machine by Direct Method	1 mm to 50 mm	2.72 µm



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172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer - Groove / Caliper Type (L.C.: 0.001 mm & Coarser)	Using Slip Gauges & Slip Gauge Accessories by Comparison Method	5 mm to 100 mm	1.4 µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Laser Distance Meter (L.C.: 1 mm)	Using Slip Gauges, Long Slip Gauges, Slip Gauge Accessories and Granite Surface Plate by Direct Method	1 mm to 1000 mm	588 µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.002 mm)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 0.2 mm	1.5 µm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.01 mm)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 0.8 mm	6 µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.001 mm)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 0.14 mm	1.4 µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.01 mm & Coarser)	Using Universal Length Measuring System by Direct Method	0 to 2 mm	2.93 µm



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178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge - Linear	Using 2D Electronic Height Gauge and Surface Plate by Direct Method	Up to 200 mm	6.5 μ m
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 0.5 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 100 mm	65 μ m
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 1 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 2000 mm	410 x Sqrt (L) μ m, Where L is in m
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 1 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 50 m	578 x Sqrt (L) μ m, Where L is in m
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Electronic Probe with Indicator, Slip Gauge Blocks, Comparator Stand by Comparison Method	> 100 mm to 300 mm	2.48 μ m
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Electronic Probe with Indicator, Slip Gauge Blocks, Long Slip Gauge Blocks, Comparator Stand by Comparison Method	> 300 mm to 500 mm	7.73 μ m



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184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Electronic Probe with Indicator, Slip Gauge Blocks, Long Slip Gauge Blocks, Granite Comparator Stand by Comparison Method	> 500 mm to 675 mm	8.37 µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Electronic Probe with Indicator, Slip Gauge Blocks, Comparator Stand by Comparison Method	25 mm to 100 mm	1.56 µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using 2D Electronic Height Gauge, Slip Gauge Blocks, Long Slip Gauge Blocks, Granite Surface Plate by Comparison Method	600 mm to 1000 mm	11.05 µm
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PCD Gauge - Diameter	Using Vision Measuring System by Direct Method	1 mm to 150 mm	10.5 µm
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer - Height (L.C.: 0.1 mm)	Using Slip Gauge Block Set by Comparison Method	0 to 40 mm	67 µm



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189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape (L.C.: 1 mm)	Using Scale and Tape Calibrator by Comparison Method	50 mm to 3000 mm	578 x Sqrt (L) μ m, Where L is in m
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.1 mm)	Using Slip Gauge Blocks by Comparison Method	0 to 50 mm	71.8 μ m
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer - Angular	Using Vision Measuring System by Comparison Method	55° & 60 °	5.08 minute of arc
192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer - Linear (L.C.: 0.001 mm & Coarser)	Using Slip Gauges by Comparison Method	0 to 100 mm	0.88 μ m
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Magnetic - V - Block - Flatness	Using Surface Plate, Dial Indicator by Comparison Method	50 mm x 45 mm x 45 mm to 300 mm x 100 mm x 95 mm	7.15 μ m
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Magnetic - V - Block - Parallelism	Using Surface Plate, 2D Electronic Height Gauge by Comparison Method	50 mm x 45 mm x 45 mm to 300 mm x 100 mm x 95 mm	8.97 μ m



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195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Magnetic - V - Block - Perpendicularity	Using Surface Plate, Dial Indicator and 2D Electronic Height Gauge by Comparison Method	50 mm x 45 mm x 45 mm to 300 mm x 100 mm x 95 mm	6.83 μ m
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Magnetic - V - Block - Symmetricity	Using Surface Plate, Test Mandrels & Dial Indicator by Comparison Method	50 mm x 45 mm x 45 mm to 300 mm x 100 mm x 95 mm	8.53 μ m
197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge, Air Plug Gauge, Setting Plug Gauge	Using Universal Length Measuring System, Slip Gauge Block, Long Slip Gauge Block by Comparison Method	> 100 mm to 200 mm	2.2 μ m
198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge, Air Plug Gauge, Setting Plug Gauge	Using Universal Length Measuring System, Long Slip Gauge Block by Comparison Method	> 200 mm to 300 mm	3.4 μ m
199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge, Air Plug Gauge, Setting Plug Gauge	Using Universal Length Measuring System by Direct Method	1 mm to 100 mm	1.4 μ m
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge, Setting Ring Gauge, Air Ring Gauge, Master Ring Gauge	Using Universal Length Measuring System, Plain Ring Gauge by Comparison Method	> 200 mm to 300 mm	2.64 μ m



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201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge, Setting Ring Gauge, Air Ring Gauge, Master Ring Gauge	Using Universal Length Measuring System, Plain Ring Gauge by Comparison Method	> 300 mm to 400 mm	3.38 µm
202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge, Setting Ring Gauge, Air Ring Gauge, Master Ring Gauge	Using Universal Length Measuring System, Plain Ring Gauge by Comparison Method	> 100 mm to 200 mm	1.88 µm
203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge, Setting Ring Gauge, Air Ring Gauge, Master Ring Gauge	Using Universal Length Measuring System, Plain Ring Gauge by Comparison Method	1 mm to 100 mm	1.5 µm
204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge - Dial / Digital (L.C.: 0.001 mm)	Using Universal Length Measuring System by Direct Method	0 to 100 mm	1.3 µm
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Gauge, Template, Limit Gauge - Angular	Using Vision Measuring System by Comparison Method	1 ° to 80 °	7.55 minute of arc
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Gauge, Template, Limit Gauge - Linear	Using Vision Measuring System by Comparison Method	1 mm to 200 mm	6.6 µm



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207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Vision Measuring System by Comparison Method	0.5 mm to 40 mm	36.93 µm
208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sand Pouring Cylinder - Diameter	Using Digital Caliper by Direct Method	100 mm to 215 mm	154 µm
209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sand Pouring Cylinder - Height	Using Digital Depth Vernier Caliper and Surface Plate by Direct Method	Up to 440 mm	44 µm
210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar - Angular	Using Slip Gauge Blocks, Angle Gauge, Electronic 2D Height Gauge and Surface Plate by Direct Method	0 ° to 45 °	8.1 second of arc
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar - Centre Distance	Using 2D Electronic Height Gauge and Surface Plate by Direct Method	50 mm to 300 mm	5.3 µm
212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar - Parallelism	Using 2D Electronic Height Gauge & Granite Surface Plate by Direct Method	50 mm to 300 mm	4.9 µm



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213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slip Gauge Accessories - Flatness	Using Optical Parallels by Comparison Method	Up to 100 mm	0.8 µm
214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slip Gauge Accessories - Parallelism	Using 2D Electronic Height Gauge, Granite Surface Plate by Direct Method	Up to 100 mm	7.3 µm
215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone - Diameter	Using Digital Caliper by Direct Method	100 mm to 200 mm	45 µm
216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone - Height	Using 2D Electronic Height Gauge and Surface Plate by Direct Method	300 mm	24 µm
217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge - Plain / Adjustable	Using Slip Gauge Block, Long Slip Gauge Block by Comparison Method	> 100 mm to 300 mm	3.3 µm
218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge - Plain / Adjustable	Using Slip Gauge Block by Comparison Method	2 mm to 100 mm	1.1 µm



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219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauge - Major Diameter - Even Teeth	Using Universal Length Measuring Machine by Direct Method	10 mm to 100 mm	1 μ m
220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauge - Over Pin Diameter - Even Teeth Only	Using Universal Length Measuring Machine and Measuring Pin by Direct Method	10 mm to 100 mm	1 μ m
221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge - Between Pin Diameter - Even Teeth	Using Gauge Blocks, Measuring Pin by Comparison Method	10 mm to 120 mm	1 μ m
222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge - Spline Width (Even Teeth)	Using Gauge Blocks by Comparison Method	10 mm to 100 mm	1 μ m
223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge & Parallel - Parallelism	Using 2D Electronic Height Gauge and Granite Surface Plate by Direct Method	100 mm to 1000 mm	4.9 μ m
224	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge & Parallel - Straightness	Using Surface Plate, Lever Dial Gauge with Stand and Surface Plate by Direct Method	100 mm to 1000 mm	4.9 μ m



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225	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Granite / Cast Iron	Using Electronic Level by Direct Method	Up to 1200 mm x 700 mm	$1.1 \times \text{Sqrt} \{(L + W)/125\} \mu\text{m}$, Where L & W are in mm
226	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Tester - Portable (Ra)	Using Surface Roughness Specimens by Comparison Method	0.42 μm to 6.37 μm	6.4 % rdg
227	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tamping Rod - Diameter	Using Digital Caliper by Direct Method	16 mm	22 μm
228	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tamping Rod - Height	Using 2D Electronic Height Gauge and Surface Plate by Direct Method	600 mm	15 μm
229	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge (Linear) - Diameter	Using Universal Length Measuring Machine, Slip Gauge Blocks and Measuring Pin by Comparison Method	5 mm to 100 mm	2 μm
230	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge - Taper Angle	Using Universal Length Measuring Machine, Slip Gauge Blocks and Measuring Pin by Comparison Method	1 ° to 45 °	21.6 second of arc



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231	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Ring Gauge (Linear) - Diameter	Using Universal Length Measuring System by Comparison Method	5 mm to 100 mm	3.2 µm
232	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Ring Gauge - Taper Angle	Using Universal Length Measuring System by Comparison Method	1 ° to 45 °	13.5 second of arc
233	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale (L.C.: 0.1 mm)	Using Vision Measuring System by Comparison Method	1 mm to 40 mm	29 µm
234	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Effective Diameter	Using Universal Length Measuring System, Thread Measuring Cylinders by Direct Method	2.5 mm to 100 mm	1.6 µm
235	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge - Effective Diameter	Using Universal Length Measuring System, Plain Ring Gauge by Comparison Method	2.5 mm to 100 mm	1.5 µm
236	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Straight) - Diameter, Variation in Diameter	Using Universal Length Measuring System by Comparison Method	Up to 100 mm	1 µm



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237	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Straight) - Total Runout	Using Bench Center and Dial Indicator with Stand by Direct Method	Up to 300 mm	8.7 µm
238	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Vision Measuring System by Comparison Method	0.02 mm to 4 mm	4.26 µm
239	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Caliper by Comparison Method	4 mm to 10 mm	22.22 µm
240	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve (Perforated Plate)	Using Digital Caliper by Direct Method	10 mm to 125 mm	41 µm
241	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Cylinder	Using Universal Length Measuring System by Direct Method	0.17 mm to 6.35 mm	0.88 µm
242	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Angle	Using Vision Measuring System by Comparison Method	55° & 60°	8.1 minute of arc



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243	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Pitch	Using Vision Measuring System by Comparison Method	0.25 mm to 6 mm	7.29 µm
244	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Effective Diameter	Using Universal Length Measuring System, Thread Measuring Cylinders, Slip Gauge Block, Long Slip Gauge Block by Comparison Method	> 100 mm to 200 mm	2.1 µm
245	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Effective Diameter	Using Universal Length Measuring System, Long Slip Gauge Block & Thread Measuring Cylinders by Comparison Method	> 300 mm to 400 mm	2.94 µm
246	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Effective Diameter	Using Universal Length Measuring System & Thread Measuring Cylinders by Direct Method	1 mm to 100 mm	1.5 µm
247	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Effective Diameter	Using Universal Length Measuring System, Long Slip Gauge Block & Thread Measuring Cylinders by Comparison Method	> 200 mm to 300 mm	2.41 µm



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248	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Major Diameter	Using Universal Length Measuring System, Long Slip Gauge Block by Comparison Method	> 100 mm to 200 mm	2.5 µm
249	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Major Diameter	Using Universal Length Measuring System, Slip Gauge Block, Long Slip Gauge Block by Comparison Method	> 200 mm to 300 mm	2.73 µm
250	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Major Diameter	Using Universal Length Measuring System, Long Slip Gauge Block by Comparison Method	> 300 mm to 400 mm	2.85 µm
251	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Major Diameter	Using Universal Length Measuring System by Direct Method	1 mm to 100 mm	1.4 µm
252	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge, Wear Check Ring Gauge - Effective Diameter	Using Universal Length Measuring System, Plain Ring Gauge by Comparison Method	> 100 mm to 200 mm	2.1 µm
253	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge, Wear Check Ring Gauge - Effective Diameter	Using Universal Length Measuring System, Plain Ring Gauge by Comparison Method	> 200 mm to 300 mm	2.9 µm



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254	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge, Wear Check Ring Gauge - Effective Diameter	Using Universal Length Measuring System, Plain Ring Gauge by Comparison Method	2.5 mm to 100 mm	1.5 µm
255	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Try Square - Parallelism	Using 2D Electronic Height Gauge and Surface Plate by Direct Method	100 mm to 600 mm	9 µm
256	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Try Square - Squareness	Using 2D Electronic Height Gauge, Surface Plate and Plunger Type Dial Gauge by Comparison Method	100 mm to 600 mm	16 µm
257	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Try Square - Straightness	Using Lever Dial Gauge with Surface Plate by Comparison Method	100 mm to 600 mm	6.5 µm
258	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tubular / Stick Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Block, Long Slip Gauge Block, Slip Gauge Accessories, Electronic Probe with Indicator & Granite Comparator Stand by Comparison Method	> 300 mm to 1000 mm	10.1 µm



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259	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tubular / Stick Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Block, Long Slip Gauge Block, Slip Gauge Accessories, Electronic Probe with Indicator & Granite Comparator Stand by Comparison Method	25 mm to 300 mm	7.1 µm
260	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.1 mm)	Using Slip Gauge Blocks by Comparison Method	0 to 100 mm	70.38 µm
261	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vicat Test Apparatus - Mould Diameter	Using Digital Caliper by Direct Method	70 mm to 80 mm	69 µm
262	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vicat Test Apparatus - Mould Height	Using Digital Caliper by Direct Method	40 mm	59 µm
263	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vicat Test Apparatus - Needle Diameter	Using Digital Caliper by Direct Method	1.13 mm to 10 mm	13 µm



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264	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vicat Test Apparatus - Needle Length	Using Video Measuring Machine by Direct Method	30 mm to 50 mm	11 µm
265	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge, Welding Undercut Gauge, Welding Gauge - Angular (L.C.: 1° & Coarser)	Using Vision Measuring System by Comparison Method	0 ° to 180 °	35 minute of arc
266	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge, Welding Undercut Gauge, Welding Gauge, Bridge Cam Gauge - Linear (L.C.: 1 mm)	Using Vision Measuring System by Comparison Method	1 mm to 50 mm	290 µm
267	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness Gauge	Using Vision Measuring System by Direct Method	25 µm to 3000 µm	6 µm
268	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Slip Gauge Blocks & Electronic Probe with Indicator by Comparison Method	1 mm to 25 mm	1.8 µm
269	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Universal Length Measuring System, Slip Gauge Block, Long Slip Gauge Block by Comparison Method	1 mm to 300 mm	3.7 µm



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270	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Angle Gauge Block	Using Sine Bar, Slip Gauge Block, Dial Gauge and Surface Plate by Comparison Method	1 ° to 45 °	31.4 second of arc
271	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Angular Graticule (L.C.: 1° and Coarser)	Using Vision Measuring Machine by Comparison Method	0 ° to 360 °	6.5 minute of arc
272	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using 2D Height Gauge, Slip Gauge Blocks, Long Gauge Blocks and Surface Plate by Comparison Method	0 to 1000 mm	7.3 µm
273	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using 2D Electronic Height Gauge, Long Slip Gauge Blocks and Granite Surface Plate by Comparison Method	0 to 600 mm	5.4 µm
274	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (L.C.: 0.001 mm)	Using Electronic Probe with Indicator by Comparison Method	0 to 25 mm	1.5 µm
275	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L.C.: 0.0001 mm)	Using Slip Gauge Blocks, Long Slip Gauge Blocks & Granite Surface Plate by Comparison Method	0 to 600 mm	6.5 µm
276	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L.C.: 0.0001 mm)	Using Gauge Blocks, Long Slip Gauge Blocks & Granite Surface Plate by Comparison Method	0 to 1000 mm	9 µm



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277	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Squareness (L.C.: 0.0001 mm)	Using Granite "L" Square & Granite Surface Plate by Comparison Method	0 to 1000 mm	12.2 µm
278	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Squareness (L.C.: 0.0001 mm)	Using Granite "L" Square & Granite Surface Plate by Comparison Method	0 to 600 mm	6.2 µm
279	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Level (L.C.: 0.001 mm/m)	Using Electronic Level & Tilting Table by Comparison Method	(±) 2 mm/m	5.8 µm/m
280	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with Indicator, LVDT Probe with Indicator (L.C.: 0.1 µm)	Using Slip Gauge Blocks and Comparator Stand by Comparison Method	0 to 25 mm	1.6 µm
281	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale & Tape Measuring Machine / Calibrator (L.C.: 0.001 mm)	Using Slip Gauges, Long Slip Gauges by Comparison Method	0 to 1000 mm	9 µm
282	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Spirit Level (Sensitivity : 0.01 mm/m) - Base Length (Up to 300 mm)	Using Electronic Level and Tilting Table by Comparison Method	(±) 2 mm/m	7 µm/m
283	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tool Maker Microscope, Vision Measuring System - Magnification	Using Glass Scale & Digital Vernier Caliper by Comparison Method	10 X to 100 X	0.35 %
284	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine - Angular (L.C.: 1 second of arc)	Using Angular Scale by Comparison Method	0 ° to 360 °	20.2 second of arc



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285	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine - Linear (L.C.: 0.1 µm)	Using Glass Scale by Comparison Method	0 to 300 mm	2.8 µm
286	MECHANICAL-DUROMETER	Durometer / Shore Hardness Tester - Type A, B, C, D, E, O, DO	Using Durometer Calibrator (Load Cell Indicator with Fixture) by Spring Force Method as per ASTM D2240	0 shore to 100 shore	0.85 shore
287	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure: Analog / Digital - Absolute Pressure Gauge, Barometer, Manometer - Pneumatic Pressure	Using Digital Barometer and Pressure and Vacuum Generator with Chamber Setup by Comparison Method as per OIML-R 97	300 mbar to 1100 mbar	1.32 mbar
288	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Manometer, Pressure Calibrator, Pressure Switch, Pressure Transmitter, Pressure Transducer - Pneumatic Pressure	Using Digital Pressure Calibrator, Pneumatic Hand Pump, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.012 bar



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289	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Manometer, Pressure Calibrator, Pressure Switch, Pressure Transmitter, Pressure Transducer, Differential Pressure Gauge - Pneumatic Pressure	Using Digital Pressure Calibrator, Pneumatic Hand Pump, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	0 to 2 bar	0.0007 bar
290	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Transmitter, Pressure Transducer - Hydraulic Pressure	Using Digital Pressure Calibrator, Hydraulic Pressure Comparator, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	0 to 1000 bar	0.63 bar
291	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Transmitter, Pressure Transducer - Hydraulic Pressure	Using Digital Pressure Calibrator, Hydraulic Pressure Comparator, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	0 to 70 bar	0.015 bar
292	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Transmitter, Pressure Transducer - Hydraulic Pressure	Using Digital Pressure Gauge, Hydraulic Pressure Comparator, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.23 bar



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293	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Indicator, Manometer, Low Pressure Gauge, Pressure Calibrator, Magnehelic Gauge, Differential Pressure Gauge - Pneumatic Pressure	Using Digital Pressure Calibrator, Pneumatic Hand Pump by Comparison Method as per DKD-R 6-1	0 to 490 Pa	1.15 Pa
294	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Indicator, Manometer, Low Pressure Gauge, Pressure Calibrator, Magnehelic Gauge, Differential Pressure Gauge - Pneumatic Pressure	Using Digital Manometer, Pneumatic Hand Pump by Comparison Method as per DKD-R 6-1	0 to 4900 Pa	7.35 Pa
295	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Indicator, Manometer, Low Vacuum Gauge, Vacuum Calibrator, Magnehelic Gauge, Differential Pressure Gauge - Pneumatic Pressure	Using Digital Pressure Calibrator, Pneumatic Hand Pump by Comparison Method as per DKD-R 6-1	(-) 490 Pa to 0 Pa	0.48 Pa
296	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Indicator, Manometer, Low Vacuum Gauge, Vacuum Calibrator, Magnehelic Gauge, Differential Pressure Gauge - Pneumatic Pressure	Using Digital Manometer, Pneumatic Hand Pump by Comparison Method as per DKD-R 6-1	(-) 4900 Pa to 0 Pa	7.32 Pa



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297	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Indicator, Vacuum Gauge, Vacuum Switch, Vacuum Transmitter, Vacuum Transducer - Pneumatic Pressure	Using Digital Vacuum Calibrator, Pneumatic Hand Pump, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	(-) 0.9 bar to 0 bar	0.0023 bar
298	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (TYPE I - Class A, B, C), Type II - Class A, B, C, G)	Using Motorised Torque Wrench Calibration System and Torque Sensor with Indicator by Comparison Method as per ISO 6789-1: 2017 & ISO 6789-2: 2017	0.2 Nm to 2 Nm	2.3 % rdg
299	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (TYPE I - Class A, B, C), Type II - Class A, B, C, G)	Using Motorised Torque Wrench Calibration System and Torque Sensor with Indicator by Comparison Method as per ISO 6789-1: 2017 & ISO 6789-2: 2017	2 Nm to 20 Nm	1.3 % rdg
300	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (TYPE I - Class A, B, C), Type II - Class A, B, C, G)	Using Motorised Torque Wrench Calibration System and Torque Sensor with Indicator by Comparison Method as per ISO 6789-1: 2017 & ISO 6789-2: 2017	20 Nm to 200 Nm	1.3 % rdg



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301	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (TYPE I - Class B, C), Type II - Class A, B, C)	Using Motorised Torque Wrench Calibration System and Torque Sensor with Indicator by Comparison Method as per ISO 6789-1: 2017 & ISO 6789-2: 2017	200 Nm to 2000 Nm	2.1 % rdg
302	MECHANICAL-VOLUME	Beaker, Conical Flask	Using Precision Weighing Balance (Readability: 0.01 mg, 0.1 mg) and Distilled Water by Gravimetric Method	10 ml to 100 ml	0.023 ml
303	MECHANICAL-VOLUME	Beaker, Conical Flask	Using Precision Balance of Range: 1000 g and (Readability: 1 mg) and Distilled Water by Gravimetric Method	100 ml to 700 ml	0.24 ml
304	MECHANICAL-VOLUME	Beaker, Conical Flask	Using Precision Balance of Range: 5000 g (Readability: 10 mg) and Distilled Water by Gravimetric Method	1000 ml to 4000 ml	0.46 ml
305	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask, Graduated Cylinder	Using Precision Balance of Range: 1000 g (Readability: 1 mg) and Distilled Water by Gravimetric Method as per IS 18235: 2023	100 ml to 700 ml	0.24 ml



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306	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask, Graduated Cylinder	Using Precision Balance of Range: 5000 g (Readability: 10 mg) and Distilled Water by Gravimetric Method as per IS 18235: 2023	1000 ml to 4000 ml	0.4 ml
307	MECHANICAL-VOLUME	Micro Pipette	Using Precision Weighing Balance (Readability: 0.01 mg) and Distilled Water by Gravimetric Method as per ISO 8655-6: 2022, ISO/TR 20461: 2023	20 µl to 200 µl	0.37 µl
308	MECHANICAL-VOLUME	Micro Pipette	Using Precision Weighing Balance (Readability: 0.1 mg) and Distilled Water by Gravimetric Method as per ISO 8655-6: 2022, ISO/TR 20461: 2023	200 µl to 10 ml	0.79 µl
309	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Volumetric Flask	Using Precision Weighing Balance (Readability: 0.01 mg, 0.1 mg) by Gravimetric Method as per ISO 4787: 2021, ISO/TR 20461: 2023	10 ml to 100 ml	0.062 ml



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310	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Volumetric Flask, Graduated Cylinder	Using Precision Weighing Balance (Readability: 0.01 mg) by Gravimetric Method as per ISO 4787: 2021, ISO/TR 20461: 2023	1 ml to 2 ml	0.005 ml
311	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Volumetric Flask, Graduated Cylinder	Using Precision Weighing Balance (Readability: 0.1 mg) by Gravimetric Method as per ISO 4787: 2021, ISO/TR 20461: 2023	2 ml to 10 ml	0.006 ml
312	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 50 g	0.032 mg
313	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.1 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 220 g	0.09 mg
314	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 10 mg)	Using E1, E2, F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 5 kg	17.66 mg
315	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 10mg)	Using E2 Class Weights by Comparison Method as per OIML R 76-1	0 to 1000 g	7.44 mg



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316	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	1 g	0.01 mg
317	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Weight and Electronic Weighing Balance (Readability: 1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	1 kg	1.21 mg
318	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	1 mg	0.0064 mg
319	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	10 g	0.03 mg



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320	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	10 mg	0.0071 mg
321	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	100 g	0.07 mg
322	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	100 mg	0.01 mg
323	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	2 g	0.01 mg



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324	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	2 mg	0.006 mg
325	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	20 g	0.04 mg
326	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	20 mg	0.008 mg
327	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	200 g	0.07 mg



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328	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	200 mg	0.01 mg
329	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	5 g	0.011 mg
330	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	5 mg	0.006 mg
331	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	50 g	0.07 mg



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332	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	50 mg	0.008 mg
333	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Weight and Electronic Weighing Balance (Readability: 1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	500 g	0.78 mg
334	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	500 mg	0.01 mg
335	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 Class Weight and Electronic Weighing Balance (Readability: 10 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	2 kg	7.93 mg



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336	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1 Class Weight and Electronic Weighing Balance (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1	20 kg	89.23 mg
337	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1 Class Weight and Electronic Weighing Balance (Readability: 10 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	5 kg	6.97 mg
338	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1 Class Weight and Electronic Weighing Balance (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1	10 kg	70.69 mg
339	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital - Thermo - Hygrometer, Humidity Indicator with Sensor, Humidity Data Logger, Humidity Transmitter / Transducer with Indicator @ 20 °C to 50 °C	Using Temperature & Humidity Indicator with Sensor, Temperature & Humidity Chamber by Comparison Method	10 % RH to 95 % RH	1.34 % RH



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340	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital - Thermo - Hygrometer, Humidity Indicator with Sensor, Humidity Data Logger, Humidity Transmitter / Transducer with Indicator @ 50 % RH	Using Temperature & Humidity Indicator with Sensor, Temperature & Humidity Chamber by Comparison Method	10 °C to 50 °C	0.49 °C
341	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Chamber, Environmental Chamber, Climatic Chamber - Multiposition (Minimum Nine Sensors) @ 25 °C	Using Multi Channel Temperature & Humidity Data Logger with Sensors by Comparison Method	10 % RH to 95 % RH	1.66 % RH
342	THERMAL-TEMPERATURE	Indicator with Sensor of Deep Freezer, Freezer, Enclosure, Thermal Chamber, Fluid Bath, Low Temperature Bath, Dry Block Calibrator - Single Position	Using RTD Sensor (4 Wire) with Multifunction Calibrator by Comparison Method	(-) 80 °C to 0 °C	0.15 °C
343	THERMAL-TEMPERATURE	Indicator with Sensor of Furnace, Oven, Dry Block Furnace, Dry Block Calibrator, Temperature Bath - Single Position	Using S Type Thermocouple with Multifunction Calibrator by Comparison Method	300 °C to 1200 °C	1.79 °C



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344	THERMAL-TEMPERATURE	Indicator with Sensor of Oven, Furnace, Thermal Chamber, Fluid Bath, Low Temperature Bath, Dry Block Calibrator, Autoclave - Single Position	Using 4 Wire RTD Sensor with Multifunction Calibrator by Comparison Method	50 °C to 300 °C	0.36 °C
345	THERMAL-TEMPERATURE	Indicator with Sensor of Oven, Refrigerator, Thermal Chamber, Cold Room, Fluid Bath, Low Temperature Bath, Dry Block Calibrator, Incubator (Industrial Purpose Only) - Single Position	Using RTD Sensor (4 Wire) with Multifunction Calibrator by Comparison Method	0 °C to 50 °C	0.15 °C
346	THERMAL-TEMPERATURE	Infrared Thermometer, Digital Pyrometer, Thermal Imager - (Non Contact Type) (Emissivity @ 0.95)	Using Infrared Thermometer, Black Body Source by Comparison Method	50 °C to 500 °C	2.31 °C
347	THERMAL-TEMPERATURE	Liquid-In-Glass Thermometer	Using SSPRT Sensor with 6½ Digit Multimeter & Liquid Bath (Silicon Oil) by Comparison Method	50 °C to 250 °C	0.59 °C



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348	THERMAL-TEMPERATURE	RTD with / without Indicator, Thermocouple with / without Indicator, Data Logger with Sensor, Temperature Transmitter, Temperature Transducer, Temperature Gauge	Using SSPRT Sensor with 6½ Digit Multimeter, Multifunction Calibrator, Dry Block by Comparison Method	(-) 30 °C to 100 °C	0.4 °C
349	THERMAL-TEMPERATURE	RTD with / without Indicator, Thermocouple with / without Indicator, Data Logger with Sensor, Temperature Transmitter, Temperature Transducer, Temperature Gauge	Using SSPRT Sensor with 6½ Digit Multimeter, Multifunction Calibrator & Liquid Bath (Silicon Oil) by Comparison Method	> 100 °C to 250 °C	0.4 °C
350	THERMAL-TEMPERATURE	RTD with / without Indicator, Thermocouple with / without Indicator, Data Logger with Sensor, Temperature Transmitter, Temperature Transducer, Temperature Gauge	Using SSPRT Sensor with 6½ Digit Multimeter, Multifunction Calibrator & Dry Block Calibrator by Comparison Method	> 250 °C to 600 °C	0.39 °C



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351	THERMAL-TEMPERATURE	Thermocouple with / without Indicator / Controller / Data Logger, Temperature Transmitter, Temperature Transducer	Using S-Type Thermocouple with Multi Function Calibrator & Dry Block Calibrator by Comparison Method	600 °C to 1200 °C	2.24 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.28 % to 0.37 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Current Shunt with 6½ Digit Multimeter by V-I Method	1 A to 30 A	0.56 % to 0.67 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mA to 10 mA	0.19 % to 0.49 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mA to 1 A	0.49 % to 0.28 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 µA to 1 mA	0.29 % to 0.19 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	30 µA to 100 µA	0.59 % to 0.29 %



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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Probe with DMM by Direct Method	1 kV to 5 kV	5.81 % to 5.78 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Probe with DMM by Direct Method	5 kV to 28 kV	5.78 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	3.84 % to 0.42 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 V to 10 V	0.89 % to 0.15 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mV to 1 V	0.42 % to 0.89 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 V to 750 V	0.15 % to 0.11 %



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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Active Energy @ (50 Hz, UPF, 4 V to 300 V, 0.1 A to 15 A)	Using 3 Phase Power Energy Calibrator by Direct Method	3 Wh to 4.5 kWh	4.25 % to 0.812 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Power @ (50 Hz, 0.2 PF, 120 V to 240 V, 0.1 A to 10 A)	Using Multi Product Calibrator by Direct Method	2.4 W to 480 W	2.83 % to 1.22 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Power @ (50 Hz, 0.5 PF, 120 V to 240 V, 0.1 A to 10 A)	Using Multi Product Calibrator by Direct Method	6 W to 1.2 kW	0.55 % to 0.53 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Power @ (50 Hz, 0.8 PF, 120 V to 240 V, 0.1 A to 10 A)	Using Multi Product Calibrator by Direct Method	9.6 W to 1.92 kW	0.26 % to 0.24 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Power @ (50 Hz, UPF, 120 V to 240 V, 0.01 A to 10 A)	Using Multi Product Calibrator by Direct Method	1.2 W to 2.4 kW	0.16 % to 0.14 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with Current Coil by Direct Method	10 A to 100 A	2.23 % to 0.93 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with Current Coil by Direct Method	100 A to 500 A	0.93 % to 0.86 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 mA to 100 mA	0.32 % to 0.24 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 µA to 1 mA	0.8 % to 0.18 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 mA to 10 A	0.24 % to 0.14 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	30 µA to 100 µA	1.09 % to 0.8 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	2.52 % to 0.4 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.11 % to 0.24 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.4 % to 0.083 %



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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)(±)
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.24 % to 0.13 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.083 % to 0.11 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.13 % to 0.095 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	1 nF to 100 nF	0.4 % to 0.091 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	100 nF to 3.2 μ F	0.091 % to 0.54 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	330 pF to 1 nF	4.1 % to 0.4 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 μ H to 10 H	1.16 %



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34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz	Using Multi Product Calibrator by Direct Method	0.2 PF to UPF	0.0055 PF to 0.005 PF
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 µA to 100 µA	3.12 % to 0.13 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.15 % to 0.19 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Current Shunt with 6½ Digit Multimeter by V - I Method	1 A to 30 A	0.6 % to 0.66 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 10 mA	0.068 % to 0.083 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 mA to 1 A	0.083 % to 0.15 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 1 mA	0.13 % to 0.068 %



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41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Current Shunt with 6½ Digit Multimeter by V - I Method	30 A to 100 A	0.66 % to 1.25 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with DMM by Direct Method	1 kV to 5 kV	3 % to 2.32 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with DMM by Direct Method	5 kV to 40 kV	2.32 % to 3.05 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 kohm to 100 kohm	0.016 % to 0.014 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.024 % to 0.051 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 10 ohm	0.5 % to 0.06 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.051 % to 0.94 %



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48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	10 ohm to 100 ohm	0.06 % to 0.019 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	100 kohm to 1 Mohm	0.014 % to 0.024 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	100 ohm to 1 kohm	0.019 % to 0.016 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 kohm to 100 kohm	0.016 % to 0.014 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 10 ohm	0.74 % to 0.09 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	10 ohm to 100 ohm	0.06 % to 0.019 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	100 kohm to 1 Mohm	0.014 % to 0.024 %



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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	100 ohm to 1 kohm	0.019 % to 0.016 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	0.48 % to 0.053 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 10 V	0.006 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 1 V	0.053 % to 0.006 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 V to 1000 V	0.006 % to 0.007 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 µA to 10 µA	5.79 % to 0.58 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.05 % to 0.11 %



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62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 mA to 100 mA	0.022 % to 0.017 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 μ A to 100 μ A	0.58 % to 0.074 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with Current Coil by Direct Method	10 A to 100 A	0.7 % to 0.74 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 μ A to 1 mA	0.074 % to 0.022 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with Current Coil by Direct Method	100 A to 500 A	0.74 % to 0.7 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.017 % to 0.05 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	1 ohm to 100 Mohm	0.69 % to 0.57 %



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69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi Product Calibrator by Direct Method	100 kohm to 100 Mohm	0.025 % to 0.57 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	0.57 % to 0.59 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 kohm to 10 kohm	0.018 % to 0.034 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using 4 wire Low Resistance box by Direct Method	1 mohm to 1 ohm	0.2 % to 0.92 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 ohm to 10 ohm	4.2 % to 0.12 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	10 kohm to 100 Kohm	0.034 % to 0.025 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	10 ohm to 100 ohm	0.12 % to 0.03 %



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76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using 4 wire Low Resistance box by Direct Method	100 μ ohm to 1 mohm	0.88 % to 0.2 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	100 ohm to 1 kohm	0.03 % to 0.018 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	0.5 mV to 10 mV	0.74 % to 0.041 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.041 % to 0.01 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 mV to 100 V	0.01 % to 0.007 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.007 % to 0.0065 %
82	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter	Using Multifunction Calibrator by Direct Method	4 pH to 14 pH {180 mV mV to (-) 400 mV}	0.2 % to 0.2 %



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83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.27 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 800 °C	0.31 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	2.47 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.58 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E Type	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 1000 °C	1.04 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.6 °C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.6 °C



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90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.7 °C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.72 °C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.47 °C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 1300 °C	1.16 °C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Multi Product Calibrator by Direct Method	0 °C to 1700 °C	0.66 °C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Multi Function Calibrator by Direct Method	1 °C to 1750 °C	2.31 °C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Multi Product Calibrator by Direct Method	0 °C to 1700 °C	0.56 °C



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97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Multi Function Calibrator by Direct Method	1 °C to 1750 °C	2.2 °C
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.74 °C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 400 °C	1.62 °C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.27 °C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 850 °C	0.3 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	2.38 °C
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.49 °C



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104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.59 °C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.59 °C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.59 °C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.47 °C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.71 °C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 1300 °C	1.16 °C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.47 °C



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111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multi Product Calibrator by Direct Method	0 °C to 1700 °C	0.67 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multi Function Calibrator by Direct Method	1 °C to 1750 °C	2.33 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multi Product Calibrator by Direct Method	0 °C to 1700 °C	0.57 °C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multi Function Calibrator by Direct Method	1 °C to 1750 °C	2.3 °C
115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 400 °C	0.59 °C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.75 °C
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	1 Hz to 300 kHz	0.59 % to 0.007 %



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118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by Comparison Method	1 s to 3600 s	0.04 s to 0.98 s
119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by Comparison Method	3600 s to 86400 s	0.98 s to 3.26 s
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1 Hz to 1.9 MHz	0.12 % to 0.91 %
121	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Indicator with Sensor, RPM Source, RPM Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	> 1000 RPM to 10000 RPM	2.11 RPM
122	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Indicator with Sensor, RPM Source, RPM Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	> 10000 RPM to 30000 RPM	3.45 RPM
123	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Indicator with Sensor, RPM Source, RPM Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	10 RPM to 1000 RPM	0.76 RPM
124	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	> 100 RPM to 1000 RPM	2.2 RPM



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125	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	> 1000 RPM to 10000 RPM	2.54 RPM
126	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	10 RPM to 100 RPM	0.59 RPM
127	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Non Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	> 100 RPM to 1000 RPM	1.43 RPM
128	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Non Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	> 1000 RPM to 10000 RPM	2.53 RPM
129	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Non Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	> 10000 RPM to 50000 RPM	6.71 RPM
130	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Non Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	> 50000 RPM to 90000 RPM	11 RPM
131	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Analog / Digital (Non Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	10 RPM to 100 RPM	0.58 RPM
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre - Coaxiality of Centre	Using Mandrel & Lever Dial Gauge by Direct Method	150 mm to 300 mm	6.2 µm



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133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre - Parallelism	Using Lever Dial Gauge with Stand and Taper Shank Mandrel by Direct Method	150 mm to 300 mm	8 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial (L.C.: 0.01 mm)	Using Slip Gauges, Long Slip Gauges and Slip Gauge Accessories by Comparison Method	0 to 1000 mm	13 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial (L.C.: 0.01 mm)	Using Slip Gauges, Long Slip Gauges and Slip Gauge Accessories by Comparison Method	0 to 1500 mm	18 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial (L.C.: 0.02 mm)	Using Slip Gauges, Long Slip Gauges and Slip Gauge Accessories by Comparison Method	0 to 1000 mm	16 µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial (L.C.: 0.02 mm)	Using Slip Gauges, Long Slip Gauges by Comparison Method	0 to 2000 mm	26 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial (L.C.: 0.02 mm)	Using Slip Gauges, Long Slip Gauges by Comparison Method	0 to 3000 mm	28 µm



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139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial (L.C.: 0.02 mm)	Using Slip Gauges, Long Slip Gauges by Comparison Method	0 to 4500 mm	38.1 µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.01 mm)	Using Slip Gauge Blocks and Long Slip Gauge Blocks by Comparison Method	> 1000 mm to 1400 mm	17 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Digital / Dial (L.C.: 0.01 mm)	Using Slip Gauge Blocks, Long Slip Gauge Blocks, Granite Surface Plate by Comparison Method	0 to 1000 mm	11.6 µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Granite / Cast Iron	Using Electronic Level by Direct Method	Up to 3000 mm x 2000 mm	1.1 x Sqrt {(L + W)/125} µm, Where L & W are in mm
143	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L.C.: 0.0001 mm)	Using Slip Gauge Blocks, Long Slip Gauge Blocks & Granite Surface Plate by Comparison Method	0 to 600 mm	6.5 µm
144	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L.C.: 0.0001 mm)	Using Gauge Blocks, Long Slip Gauge Blocks & Granite Surface Plate by Comparison Method	0 to 1000 mm	9 µm



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145	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Squareness (L.C.: 0.0001 mm)	Using Granite "L" Square & Granite Surface Plate by Comparison Method	0 to 1000 mm	12.2 µm
146	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Squareness (L.C.: 0.0001 mm)	Using Granite "L" Square & Granite Surface Plate by Comparison Method	0 to 600 mm	6.2 µm
147	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular	Using Angular Scale by Comparison Method	0 ° to 360 °	20.2 second of arc
148	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear (L.C.: 0.1 µm)	Using Glass Scale by Comparison Method	0 to 300 mm	2.8 µm
149	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Glass Scale & Digital Vernier Caliper by Comparison Method	10 X to 100 X	0.35 %
150	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale & Tape Measuring Machine / Calibrator (L.C.: 0.001 mm)	Using Slip Gauges, Long Slip Gauges by Comparison Method	0 to 1000 mm	9 µm
151	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tool Maker Microscope, Vision Measuring System - Magnification	Using Glass Scale & Digital Vernier Caliper by Comparison Method	10 X to 100 X	0.35 %
152	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine - Angular (L.C.: 1 second of arc)	Using Angular Scale by Comparison Method	0 ° to 360 °	20.2 second of arc
153	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine - Linear (L.C.: 0.1 µm)	Using Glass Scale by Comparison Method	0 to 300 mm	2.8 µm



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154	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Manometer, Pressure Calibrator, Pressure Switch, Pressure Transmitter, Pressure Transducer - Pneumatic Pressure	Using Digital Pressure Calibrator, Pneumatic Hand Pump, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.012 bar
155	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Manometer, Pressure Calibrator, Pressure Switch, Pressure Transmitter, Pressure Transducer, Differential Pressure Gauge - Pneumatic Pressure	Using Digital Pressure Calibrator, Pneumatic Hand Pump, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	0 to 2 bar	0.0007 bar
156	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Transmitter, Pressure Transducer - Hydraulic Pressure	Using Digital Pressure Calibrator, Hydraulic Pressure Comparator, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	0 to 1000 bar	0.63 bar



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157	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Transmitter, Pressure Transducer - Hydraulic Pressure	Using Digital Pressure Calibrator, Hydraulic Pressure Comparator, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	0 to 70 bar	0.015 bar
158	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Transmitter, Pressure Transducer - Hydraulic Pressure	Using Digital Pressure Gauge, Hydraulic Pressure Comparator, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.23 bar
159	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Indicator, Manometer, Low Pressure Gauge, Pressure Calibrator, Magnehelic Gauge, Differential Pressure Gauge - Pneumatic Pressure	Using Digital Pressure Calibrator, Pneumatic Hand Pump by Comparison Method as per DKD-R 6-1	0 to 490 Pa	1.15 Pa
160	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Indicator, Manometer, Low Pressure Gauge, Pressure Calibrator, Magnehelic Gauge, Differential Pressure Gauge - Pneumatic Pressure	Using Digital Manometer, Pneumatic Hand Pump by Comparison Method as per DKD-R 6-1	0 to 4900 Pa	7.35 Pa



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161	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Indicator, Manometer, Low Vacuum Gauge, Vacuum Calibrator, Magnehelic Gauge, Differential Pressure Gauge - Pneumatic Pressure	Using Digital Pressure Calibrator, Pneumatic Hand Pump by Comparison Method as per DKD-R 6-1	(-) 490 Pa to 0 Pa	0.48 Pa
162	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Indicator, Manometer, Low Vacuum Gauge, Vacuum Calibrator, Magnehelic Gauge, Differential Pressure Gauge - Pneumatic Pressure	Using Digital Manometer, Pneumatic Hand Pump by Comparison Method as per DKD-R 6-1	(-) 4900 Pa to 0 Pa	7.32 Pa
163	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Indicator, Vacuum Gauge, Vacuum Switch, Vacuum Transmitter, Vacuum Transducer - Pneumatic Pressure	Using Digital Vacuum Calibrator, Pneumatic Hand Pump, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	(-) 0.9 bar to 0 bar	0.0023 bar
164	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 50 g	0.032 mg
165	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.1 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 220 g	0.09 mg
166	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 0.1 g)	Using E2 & F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 20 kg	84.5 mg

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167	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 10 mg)	Using E1, E2, F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 5 kg	17.66 mg
168	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 10mg)	Using E2 Class Weights by Comparison Method as per OIML R 76-1	0 to 1000 g	7.44 mg
169	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III and Coarser (Readability: 1 g)	Using E2, F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 45 kg	0.66 g
170	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III (Readability: 10 g)	Using F1 & M1 Class Weights by Comparison Method as per OIML R 76-1 & OIML R 47	0 to 300 kg	6.73 g
171	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III (Readability: 100 g)	Using F1 & M1 Class Weights by Comparison Method as per OIML R 76-1 & OIML R 47	0 to 1000 kg	94.36 g
172	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III (Readability: 200 g)	Using F1, M1 Weights by Comparison Method as per OIML R 76-1 & OIML R 47	0 to 2000 kg	209.45 g
173	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III (Readability: 500 g)	Using F1, M1 Weights by Comparison Method as per OIML R 76-1 & OIML R 47	0 to 3000 kg	400 g
174	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III (Readability: 500 g)	Using M1 Class Weights by Comparison Method as per OIML R 76-1 & OIML R 47	0 to 5000 kg	450 g

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175	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital - Thermo - Hygrometer, Humidity Indicator with Sensor, Humidity Data Logger, Humidity Transmitter / Transducer with Indicator @ 20 °C to 50 °C	Using Temperature & Humidity Indicator with Sensor, Temperature & Humidity Chamber by Comparison Method	10 % RH to 95 % RH	1.34 % RH
176	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Humidity & Temperature Chamber, Environmental Chamber, Climatic Chamber - Single Position @ 10°C to 50°C	Using Digital Temperature & Humidity Indicator with Sensor by Comparison Method	30 % RH to 95 % RH	1.25 % RH
177	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Humidity & Temperature Chamber, Environmental Chamber, Climatic Chamber - Single Position @ 20°C to 50°C	Using Digital Temperature & Humidity Indicator with Sensor by Comparison Method	10 % RH to 95 % RH	1.37 % RH
178	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Humidity & Temperature Chamber, Environmental Chamber, Climatic Chamber - Single Position @ 50 % RH	Using Digital Temperature & Humidity Indicator with Sensor by Comparison Method	10 °C to 50 °C	0.39 °C



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179	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Chamber, Environmental Chamber, Climatic Chamber - Multiposition (Minimum Nine Sensors) @ 25 °C	Using Multi Channel Temperature & Humidity Data Logger with Sensors by Comparison Method	10 % RH to 95 % RH	1.66 % RH
180	THERMAL-TEMPERATURE	Furnace, Oven - Multi Position (Minimum 9 Sensors)	Using N Type Thermocouple with Paperless Recorder by Comparison Method	250 °C to 1200 °C	4.97 °C
181	THERMAL-TEMPERATURE	Indicator with Sensor of Deep Freezer, Freezer, Enclosure, Thermal Chamber, Fluid Bath, Low Temperature Bath, Dry Block Calibrator - Single Position	Using RTD Sensor (4 Wire) with Multifunction Calibrator by Comparison Method	(-) 80 °C to 0 °C	0.15 °C
182	THERMAL-TEMPERATURE	Indicator with Sensor of Furnace, Oven, Dry Block Furnace, Dry Block Calibrator, Temperature Bath - Single Position	Using S Type Thermocouple with Multifunction Calibrator by Comparison Method	300 °C to 1200 °C	1.79 °C
183	THERMAL-TEMPERATURE	Indicator with Sensor of Oven, Furnace, Thermal Chamber, Fluid Bath, Low Temperature Bath, Dry Block Calibrator, Autoclave - Single Position	Using 4 Wire RTD Sensor with Multifunction Calibrator by Comparison Method	50 °C to 300 °C	0.36 °C



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184	THERMAL-TEMPERATURE	Indicator with Sensor of Oven, Refrigerator, Thermal Chamber, Cold Room, Fluid Bath, Low Temperature Bath, Dry Block Calibrator, Incubator (Industrial Purpose Only) - Single Position	Using RTD Sensor (4 Wire) with Multifunction Calibrator by Comparison Method	0 °C to 50 °C	0.15 °C
185	THERMAL-TEMPERATURE	RTD with / without Indicator, Thermocouple with / without Indicator, Data Logger with Sensor, Temperature Transmitter, Temperature Transducer, Temperature Gauge	Using SSPRT Sensor with 6½ Digit Multimeter, Multifunction Calibrator, Dry Block by Comparison Method	(-) 30 °C to 100 °C	0.4 °C
186	THERMAL-TEMPERATURE	RTD with / without Indicator, Thermocouple with / without Indicator, Data Logger with Sensor, Temperature Transmitter, Temperature Transducer, Temperature Gauge	Using SSPRT Sensor with 6½ Digit Multimeter, Multifunction Calibrator & Liquid Bath (Silicon Oil) by Comparison Method	> 100 °C to 250 °C	0.4 °C



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187	THERMAL-TEMPERATURE	RTD with / without Indicator, Thermocouple with / without Indicator, Data Logger with Sensor, Temperature Transmitter, Temperature Transducer, Temperature Gauge	Using SSPRT Sensor with 6½ Digit Multimeter, Multifunction Calibrator & Dry Block Calibrator by Comparison Method	> 250 °C to 600 °C	0.39 °C
188	THERMAL-TEMPERATURE	Thermal Chamber, Oven, Refrigerator, Deep Freezer, Freezer, Cold Room, Autoclave, Incubator (Industrial Purpose Only) - Multi Position (Minimum 9 Sensors)	Using RTD Sensors with Paperless Recorder by Comparison Method	(-) 80 °C to 250 °C	1.19 °C
189	THERMAL-TEMPERATURE	Thermocouple with / without Indicator / Controller / Data Logger, Temperature Transmitter, Temperature Transducer	Using S-Type Thermocouple with Multi Function Calibrator & Dry Block Calibrator by Comparison Method	600 °C to 1200 °C	2.24 °C

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