National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SANSEL CALIBRATION LABORATORIES LLP, NO: 1/46, 3RD MAIN ROAD, GANGA NAGAR, MADURAVOYAL, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 20 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	1 mA to 10 mA	0.28 % to 0.36 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 20 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	10 µA to 100 µA	1.36 % to 1.2 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 20 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	10 mA to 1 A	0.36 % to 0.53 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	1 A to 3 A	0.53 % to 0.68 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	3 A to 10 A	0.68 % to 0.56 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 5 kHz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	10 mA to 100 mA	1.24 % to 0.73 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 5 kHz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	100 mA to 1 A	0.73 % to 1.54 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1 kHz	Using Precision LCR Meter by Direct Method	1 Ohm to 10 kohm	0.073 % to 0.07 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	5.7 % to 0.15 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	100 mV to 10 V	0.15 % to 0.27 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.27 % to 0.13 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	100 V to 1000 V	0.13 % to 0.1 %

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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using 6½ Digit Multimeter by Direct Method	1 nF to 100 µF	5.20 % to 1.73 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Precision LCR Meter by Direct Method	100 pF to 100 µF	0.091 % to 0.12 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using Precision LCR Meter by Direct Method	100 µH to 10 H	0.51 % to 1 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Active Power 1 Phase 2 Wire @ 50 Hz (40 V to 300 V, 0.1 A to 20 A, 0.25 Lead / Lag to UPF)	Using Multiproduct Calibrator by Direct Method	1 W to 6 kW	0.12 % to 0.27 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 10 kHz	Using Multiproduct Calibrator by Direct Method	10 mA to 1 A	0.29 % to 3.46 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multiproduct Calibrator by Direct Method	2.9 A to 20 A	0.62 % to 3.58 %

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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 20 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	30 µA to	0.64 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct calibrator with 50 turn Current Coil by Direct Method	100 A to 1000 A	0.28% to 0.33%
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator with 50 turn Current Coil by Direct Method	20 A to 100 A	0.36 % to 0.28%
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	30 µA to 300 µA	0.57 % to 0.27 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	300 µA to 3 mA	0.27 % to 0.15 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	10 A to 20 A	0.15 % to 0.21 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	2.9 A to 10 A	0.086 % to 0.15 %

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26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	3 mA to 2.9 A	0.15 % to 0.086 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using High Precision Decade Resistance Box by Direct Method	1 Ohm to 10 kohm	0.21 % to 0.59 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	30 mV to 30 V	0.17 % to 0.38 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	1 mV to 30 mV	1.05 % to 0.17 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multiproduct Calibrator by Direct Method	100 V to 1000 V	0.073 % to 0.04 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 100 kHz	Using Multiproduct Calibrator by Direct Method	1 mV to 30 mV	1.81 % to 0.9 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 100 kHz	Using Multiproduct Calibrator by Direct Method	30 mV to 30 V	0.9 % to 0.13 %

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33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 100 kHz	Using Multiproduct Calibrator by Direct Method	30 V to 100 V	0.13 % to 0.3 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multiproduct Calibrator by Direct Method	0.5 nF to 10 nF	3 % to 1.46 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multiproduct Calibrator by Direct Method	10 µF to 100 µF	0.58 % to 0.68 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multiproduct Calibrator by Direct Method	10 nF to 10 µF	1.46 % to 0.58 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	100 pF to 100 µF	1.16 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multiproduct Calibrator by Direct Method	220 pF to 0.5 nF	5.83 % to 3 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inducatance Box by Direct Method	100 µH to 10 H	1.67 % to 1.3 %

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40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz	Using Multiproduct Calibrator by Direct Method	0.2 PF (Lead/Lag) to UPF	0.075 PF to 0.082 PF
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 µA to 100 µA	3.2 % to 0.09 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 3 A	0.081 % to 0.14 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by V / I Method	10 A to 20 A	0.58 % to 0.3 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 400 mA	0.09 % to 0.065 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM with Shunt by V / I Method	20 A to 100 A	0.3 % to 0.40 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	3 A to 10 A	0.14 % to 0.33 %

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47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	400 mA to 1 A	0.065 % to 0.081 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	10 Ohm to 100 Ohm	0.05 % to 0.016 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	0.1 Ohm to 1 Ohm	4.16 % to 0.36 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.013 % to 0.049 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	1 Ohm to 10 Ohm	0.36 % to 0.05 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.049 % to 0.94 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	100 Mohm to 1 Gohm	0.94 % to 2.32 %

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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	100 Ohm to 1 Mohm	0.016 % to 0.013 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	0.1 mV to 100 mV	4.65 % to 0.009 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.0034 % to 0.0047%
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 10 V	0.009 % to 0.003 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 V to 1000 V	0.005 % to 0.007 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	10 µA to 100 µA	0.25 % to 0.041 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	1 µA to 10 µA	2.42 % to 0.26 %

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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	10 A to 20 A	0.066 % to 0.13 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	100 µA to 3 mA	0.041 % to 0.02 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with current 50 turn coil by Direct Method	100 A to 1000 A	0.23 % to 0.59 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	2.99 A to 10 A	0.047 % to 0.066 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with current 50 turn coil by Direct Method	20 A to 100 A	0.5 % to 0.4 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	3 mA to 2.99 A	0.02 % to 0.047 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (1 V to 100 V & 0.1 A to 1 A)	Using Multiproduct Calibrator by Direct Method	0.1 W to 100 W	0.087 % to 0.034 %

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68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (100 V to 1000 V & 1 A to 20 A)	Using Multiproduct Calibrator by Direct Method	100 W to 20000 W	0.034 % to 0.21 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Decade Mega Ohm Box by Direct Method	1 Mohm	2.16 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Decade Mega ohm Box by Direct Method	100 kohm	0.58 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Decade Mega ohm Box by Direct Method	10 Mohm	1.38 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Decade Mega ohm Box by Direct Method	100 Mohm	1.17 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 5 kV	Using High Precision Decade Mega ohm Box by Direct Method	1 Gohm	6.60 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 5 kV	Using High Precision Decade Mega ohm Box by Direct Method	1 Tohm	14.98 %

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75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 5 kV	Using High Precision Decade Mega ohm Box by Direct Method	10 Gohm	2.85 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 5 kV	Using High Precision Decade Mega ohm Box by Direct Method	100 Gohm	2.59 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 5 kV	Using High Precision Decade Mega ohm Box by Direct Method	500 Gohm to	6.33 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 5 kV	Using High Precision Decade Mega ohm Box by Direct Method	500 Mohm	2.5 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	1 kohm to 1 Mohm	0.007 % to 0.014 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	1 Mohm to 10 Mohm	0.014 % to 0.022 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	1 Ohm to 10 Ohm	0.12 % to 0.02 %

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82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	10 Mohm to 100 Mohm	0.022 % to 0.1 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	10 Ohm to 30 Ohm	0.02 % to 0.009 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	100 Mohm to 300 Mohm	0.1 % to 0.4 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	30 Ohm to 1 kohm	0.009 % to 0.007 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	300 Mohm to 1000 Mohm	0.4 % to 1.89 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	0.1 mV to 1 mV	1.47 % to 0.18 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	1 mV to 10 mV	0.18 % to 0.015 %

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89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	10 mV to 3 V	0.015 % to 0.003 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	3 V to 1000 V	0.003 %
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using High Precision Decade Resistance Box	0.001 Ohm to 0.01 Ohm	5.84 % to 2.38 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistor Box by Direct Method	0.2 mohm	1.2 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using High Precision Decade Resistance Box	1 Ohm to 100 kohm	0.059 % to 0.058 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistor Box by Direct Method	10 mohm	0.06 %
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using High Precision Decade Resistance Box	0.01 Ohm to 0.1 Ohm	2.3 % to 0.58 %

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96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using High Precision Decade Resistance Box	0.1 Ohm to 1 Ohm	0.58 % to 0.06 %
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistor Box by Direct Method	1 mohm	0.09 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistor Box by Direct Method	100 mohm	0.06 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistor Box by Direct Method	2 mohm	0.07 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistor Box by Direct Method	20 mohm	0.06 %
101	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth	Using Multiproduct Calibrator by Direct Method	300 MHz to 600 MHz	7.69 %
102	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth	Using Multiproduct Calibrator by Direct Method	50 kHz to 300 MHz	5.55 %

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103	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth	Using Multiproduct Calibrator by Direct Method	600 MHz to 1.1 GHz	8.5 %
104	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time Base (Horizontal Axis Deflection Factor)	Using Multiproduct Calibrator by Direct Method	1 ns to 5 s	2.90 % to 0.14 %
105	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude (Vertical Axis Deflection Factor) AC Square Wave 1 Mohm @1 kHz	Using Multiproduct Calibrator by Direct Method	1 mV to 130 V	5.17 % to 0.4 %
106	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude (Vertical Axis Deflection Factor) DC @ 1 Mohm	Using Multi Product Calibrator by Direct Method	1 mV to 130 V	5 % to 1.8 %
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B - Type Thermocouple	Using Precision Thermometer by Direct Method	600 °C to 1800 °C	0.64 °C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using Precision Thermometer by Direct Method	(-) 200 °C to 1000 °C	0.1 °C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J - Type Thermocouple	Using Precision Thermometer by Direct Method	(-) 200 °C to 1200 °C	0.12 °C

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110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K - Type Thermocouple	Using Precision Thermometer by Direct Method	(-) 200 °C to 1350 °C	0.11 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N - Type Thermocouple	Using Precision Thermometer by Direct Method	(-) 200 °C to 1300 °C	0.15 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R - Type Thermocouple	Using Precision Thermometer by Direct Method	0 °C to 1750 °C	0.28 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using Precision Thermometer by Direct Method	(-) 200 °C to 100 °C	0.07 °C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using Precision Thermometer by Direct Method	100 °C to 850 °C	0.07 °C
115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using Precision Thermometer by Direct Method	0 °C to 1750 °C	0.27 °C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T - Type Thermocouple	Using Precision Thermometer by Direct Method	(-) 200 °C to 400 °C	0.09 °C

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117	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	600 °C to 800 °C	0.49 °C
118	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	800 °C to 1800 °C	0.4 °C
119	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.46 °C
120	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 100 °C to 1200 °C	0.22 °C
121	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to (-) 100 °C	0.32 °C
122	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 100 °C	0.3 °C
123	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	100 °C to 1000 °C	0.23 °C

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124	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	1000 °C to 1340 °C	0.35 °C
125	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 400 °C	0.42 °C
126	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	400 °C to 1300 °C	0.27 °C
127	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	0 °C to 1000 °C	0.67 °C
128	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	1000 °C to 1750 °C	0.41 °C
129	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 200 °C	0.12 °C
130	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multiproduct Calibrator by Direct Method	200 °C to 600 °C	0.14 °C

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131	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multiproduct Calibrator by Direct Method	600 °C to 800 °C	0.27 °C
132	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	0 °C to 1400 °C	0.56 °C
133	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	1400 °C to 1750 °C	0.42 °C
134	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 150 °C to 400 °C	0.22 °C
135	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to (-) 150 °C	0.56 °C
136	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	100 kHz to 1000 kHz	0.016 % to 0.015 %
137	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	3 Hz to 100 kHz	0.12 % to 0.016 %

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138	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Calibrator by Comparison Method	1 s to 3600 s	0.11 s to 0.74 s
139	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Calibrator by Comparison Method	3600 s to 36000 s	0.63 s to 4.66 s
140	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Calibrator by Comparison Method	36000 s to 86400 s	4.66 s to 10.62 s
141	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	1 Hz to 10 Hz	0.18 % to 0.017 %
142	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	10 Hz to 1000 kHz	0.017 % to 0.073 %
143	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	1000 kHz to 2 MHz	0.073 % to 0.0006 %
144	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Contact)	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	0.36 %
145	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Contact)	Using Digital Tachometer by Comparison Method	1000 rpm to 6000 rpm	0.06 %

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146	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Contact)	Using Digital Tachometer by Comparison Method	6 rpm to 100 rpm	2.62 %
147	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Contact)	Using Digital Tachometer by Comparison Method	6000 rpm to 12000 rpm	0.02 %
148	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Non Contact)	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	0.36 %
149	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Non Contact)	Using Digital Tachometer by Comparison Method	1000 rpm to 10000 rpm	0.058 %
150	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Non Contact)	Using Digital Tachometer by Comparison Method	10000 rpm to 60000 rpm	0.021 %
151	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Tachometer Generator (Non Contact)	Using Digital Tachometer by Comparison Method	6 rpm to 100 rpm	1.78 %
152	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Tachometer Generator (Non Contact)	Using Digital Tachometer by Comparison Method	60000 rpm to 99950 rpm	0.012 %
153	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer, RPM Source by Comparison Method	100 rpm to 1000 rpm	0.36 %
154	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer, RPM Source by Comparison Method	1000 rpm to 6000 rpm	0.06 %
155	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer, RPM Source by Comparison Method	6 rpm to 100 rpm	2.09 %

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156	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer, RPM Source by Comparison Method	6000 rpm to 12000 rpm	0.02 %
157	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Tachometer, RPM Source by Comparison Method	100 rpm to 1000 rpm	0.36 %
158	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Tachometer, RPM Source by Comparison Method	1000 rpm to 10000 rpm	0.058 %
159	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Tachometer, RPM Source by Comparison Method	10000 rpm to 60000 rpm	0.021 %
160	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Tachometer, RPM Source by Comparison Method	6 rpm to 100 rpm	1.93 %
161	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Tachometer, RPM Source by Comparison Method	60000 rpm to 99950 rpm	0.012 %
162	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	94 dB, 114 dB	0.66 dB
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore gauge - Transmission error (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1.2 mm	1.16 µm

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164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (L.C.: 0.01 mm)	Using Caliper Checker & Gauge Blocks by Comparison Method	0 to 600 mm	13.20 µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.0001 mm)	Using Master Foils by Comparison Method	0 to 2 mm	2.52 µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (L.C.: 0.01 mm)	Using Gauge Blocks by Comparison Method	0 to 300 mm	6.7 µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm)	Using Gauge Blocks by Comparison method	0 to 300 mm	3.91 µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge (L.C.: 0.01 mm)	Using Gauge Blocks by Comparison Method	2.5 mm to 100 mm	7.78 µm
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Gauge Blocks by Comparison Method	>200 mm to 300 mm	5.47 µm

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170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Gauge Blocks by Comparison Method	0 to 200 mm	4.12 µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Plunger Dial Gauge and Comparator Stand by Comparison Method	0 to 2 mm	3.42 µm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.01 mm)	Using Dial Calibration Checker, Gauge Blocks and Surface Plate by Comparison Method	0 to 600 mm	13.6 µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C.: 0.01 mm)	Using Gauge Blocks &Gauge Block Accessories set by Comparison Method	> 50 mm to 300 mm	7.61 µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C.: 0.01 mm)	Using Gauge Blocks & Gauge Block Accessories set by Comparison Method	5 mm to 30 mm	6.5 mm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.001 mm and Coarser)	Using Dial calibration Tester by Comparison Method	0 to 0.8 mm	4.35 µm

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176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 0.14 mm	2.6 µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Foils	Using Digital Plunger Dial Gauge and Comparator Stand by Comparison Method	0.01 mm to 3 mm	2.3 µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Gauge Blocks and Digital Comparator by Comparison Method	0.5 mm to 25 mm	2.75 µm
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 0.5 mm)	Using Scale & Tape Calibrator by Direct Method	0 to 1000 mm	62 µm
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape / Pie Tape (L.C.: 0.5 mm)	Using Scale & Tape Calibrator by Direct Method	0 to 30 m	62 µm x sqrt (L/1000) µm (where L in mm)
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Stand	Using Gauge Blocks and Digital Comparator & comparison method	> 200 mm to 300 mm	4.38 µm

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182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Stand	Using Gauge Blocks and Digital Comparator by Comparison Method	0 to 200 mm	4 µm
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.1 mm)	Using Gauge Blocks by Comparison method	0 to 50 mm	57.82 µm
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Blocks and Digital Plunger Dial by Comparison Method	3 mm to 100 mm	2.5 µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C.: 0.001 mm)	Using Dial Calibration Tester / Gauge Blocks by Comparison Method	0 to 50 mm	3 µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Blocks by Comparison Method	> 3 mm to 100 mm	2.2 µm
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (Dial / Digital) (L.C.: 0.001 mm)	Using Gauge Blocks by Comparison Method	0 to 25 mm	1.6 µm

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188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wires	Using Gauge Blocks by Comparison Method	1 mm to 6.35 mm	2.5 µm
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Dial Comparator and Gauge Block Set by Comparison Method	> 0.5 mm to 20 mm	1.89 µm
190	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge / Transducer, Vacuum Transmitter, Manometer	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	(-) 200 mbar to 0	0.044 mbar
191	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauge, Pressure Transducer, Pressure Transmitter, Manometer	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	0 to 25 mbar	0.022 mbar
192	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauges / Transducer, Vacuum Transmitter, Manometer	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	(-) 25 mbar to 0	0.022 mbar
193	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Absolute) Gauge, Barometer, Manometer	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	0.1 bar (abs) to 3 bar (abs)	0.00034 bar

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194	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauge, Pressure Calibrator, Pressure Switch, Pressure Transmitter / Indicator, Manometer - Pneumatic	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	0 to 35 bar	0.0029 bar
195	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauge, Pressure Calibrator, Pressure Switch, Pressure Transmitter / Indicator - Hydraulic	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	0 to 200 bar	0.022 bar
196	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauge, Pressure Calibrator, Pressure Switch, Pressure Transmitter / Indicator - Hydraulic	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	0 to 1000 bar	0.1 bar
197	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauge, Pressure Calibrator, Pressure Switch, Pressure Transmitter / Indicator, Manometer - Pneumatic	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	0.1 bar to 2 bar	0.00029 bar
198	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transducer, Pressure Transmitter, Manometer	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	0 to 200 mbar	0.06 mbar

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199	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum gauge, Vacuum calibrator, Vacuum switch, Vacuum Transmitter, Vacuum Indicator	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per ISO 3567 and ISO 27893	(-) 0.1 bar to (-) 0.9 bar	0.00015 bar
200	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum gauge, Vacuum calibrator, Vacuum switch, Vacuum Transmitter, Vacuum Indicator	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per ISO 3567 and ISO 27893	(-) 0.1 bar to (-) 1 bar	0.00015 bar
201	MECHANICAL-VOLUME	Measuring Cylinder & Volumetric Flask	Using Electronic Weighing Balance (Readability: 0.001 g) with Distilled water As per ISO 4787 by Gravimetric Method	>100 ml to 500 ml	0.01 ml
202	MECHANICAL-VOLUME	Measuring Cylinder & Volumetric Flask	Using Electronic Weighing Balance (Readability: 0.01 g) with Distilled Water As per ISO 4787 by Gravimetric Method	>2000 ml to 5000 ml	0.26 ml
203	MECHANICAL-VOLUME	Measuring Cylinder & Volumetric Flask	Using Electronic Weighing Balance (Readability: 0.001 g and Coarser) with Distilled Water As per ISO 4787 by Gravimetric Method	>500 ml to 2000 ml	0.23 ml

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204	MECHANICAL-VOLUME	Micro Pipette	Using Electronic Weighing Balance (Readability: 1µg)with Distilled Water by Gravimetric Method As per ISO 8655 Part - 6	>10 µl to 50 µl	0.12 µl
205	MECHANICAL-VOLUME	Micro Pipette	Using Electronic Weighing Balance (Readability: 0.01 mg) with Distilled Water by Gravimetric Method As per ISO 8655 Part - 6	>100 µl to 1000 µl	1.80 µl
206	MECHANICAL-VOLUME	Micro Pipette	Using Electronic Weighing Balance (Readability: 1 µg and coarser) with Distilled Water by Gravimetric Method As per ISO 8655 part - 6	>50 µl to 100 µl	0.27 µl
207	MECHANICAL-VOLUME	Micro Pipette	Using Electronic Weighing Balance (Readability: 1 µg) with Distilled Water by Gravimetric Method As per ISO 8655 Part - 6	1 µl to 10 µl	0.16 µl

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208	MECHANICAL-VOLUME	Micro Pipette	Using Electronic Weighing Balance (Readability: 0.01 mg and Coarser) with Distilled Water by Gravimetric Method As per ISO 8655 Part - 6	>1 ml to 10 ml	3.7 µl
209	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder	Using Electronic Weighing Balance (Readability: 0.1 mg & Coarser) with Distilled Water as per ISO 4787 by Gravimetric Method	>10 ml to 100 ml	3.4 µl
210	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder	Using Electronic Weighing Balance (Readability: 0.01 mg and Coarser) with Distilled Water as per ISO 4787 by Gravimetric Method	1 ml to 10 ml	5.73 µl
211	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability: 1 µg) by Substitution Method (ABBA Cycle) as per OIML R 111	1 g	0.008 mg
212	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability: 1 µg) by Substitution Method (ABBA Cycle) as per OIML R 111	1 mg	0.002 mg

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213	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111	10 g	0.014 mg
214	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability: 1 µg) by Substitution Method (ABBA Cycle) as per OIML R 111	10 mg	0.002 mg
215	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111	100 g	0.05 mg
216	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability: 1 µg) by Substitution Method (ABBA Cycle) as per OIML R 111	100 mg	0.003 mg

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217	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability: 1 µg) by Substitution Method (ABBA Cycle) as per OIML R 111	2 g	0.007 mg
218	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability: 1 µg) by Substitution Method (ABBA Cycle) as per OIML R 111	2 mg	0.002 mg
219	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111	20 g	0.025 mg
220	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability: 1 µg) by Substitution Method (ABBA Cycle) as per OIML R 111	20 mg	0.003 mg

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221	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111	200 g	0.1 mg
222	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability: 1 µg) by Substitution Method (ABBA Cycle) as per OIML R 111	200 mg	0.004 mg
223	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability: 1 µg) by Substitution Method (ABBA Cycle) as per OIML R 111	5 g	0.008 mg
224	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability: 1 µg) by Substitution Method (ABBA Cycle) as per OIML R 111	5 mg	0.002 mg

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225	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111	50 g	0.028 mg
226	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability: 1 µg) by Substitution Method (ABBA Cycle) as per OIML R 111	50 mg	0.004 mg
227	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability: 1 µg) by Substitution Method (ABBA Cycle) as per OIML R 111	500 mg	0.002 mg
228	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1Class Weights & Electronic Balance (Readability: 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111	1 kg	3.2 mg

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229	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1Class Weights & Electronic Balance (Readability: 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R 111	10 kg	50 mg
230	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1Class Weights & Electronic Balance (Readability: 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R 111	2 kg	10 mg
231	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1Class Weights & Electronic Balance (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R 111	20 kg	100 mg
232	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1Class Weights & Electronic Balance (Readability: 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R 111	5 kg	12 mg

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233	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1 Class Weights & Electronic Balance (Readability: 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111	500 g	2.5 mg
234	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1Class Weights & Electronic Balance (Readability: 1 g) by Substitution Method (ABBA Cycle) as per OIML R 111	50 kg	1000 mg
235	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital Humidity & Temperature Hygrometer, Digital Temperature & Humidity Indicator, Thermo Hygrograph / Data Logger / Transmitter / Humidity & Temperature Sensor	Using Digital Temperature & Humidity Indicator and Humidity Chamber by Comparison Method	60 °C to 70 °C @ 50 %rh	0.20 °C
236	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital Hygrometer, Digital Temperature & Humidity Indicator wirh Sensor, Thermo Hygrograph / Data Logger / Transmitter with Sensor	Using Digital Temperature & Humidity Indicator, Humidity Chamber by Comparison Method	5 %rh @ 25 °C	0.77 %rh

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237	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital Hygrometer, Digital Temperature & Humidity Indicator with sensor, Thermo Hygrograph / Data Logger, Transmitter with Sensor	Using Digital Temperature & Humidity Indicator and Humidity Chamber by Comparison Method	10 %rh to 95 %rh @ 10 °C to 60 °C	0.85 %rh
238	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital Hygrometer, Digital Temperature & Humidity Indicator with sensor, Thermo Hygrograph / Data Logger, Transmitter with Sensor	Using Digital Temperature & Humidity Indicator and Humidity Chamber by Comparison Method	10 %rh to 95 %rh @ 25 °C	0.46 %rh
239	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital Relative Humidity & Temperature Hygrometer, Digital Temperature & Humidity Indicator, Thermo Hygrograph, Data Logger, Transmitter, Humidity & Temperature Sensor	Using Digital Temperature / Humidity Indicator, Humidity Chamber by Comparison Method	1 %rh to 5 %rh @ 23 °C	0.77 %rh
240	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital Relative Humidity / Temperature hygrometer, Digital Temperature / Humidity Indicator, Thermo Hygrograph / Data Logger / Transmitter / Humidity & Temperature Sensor	Using Digital Temperature / Humidity Indicator, Humidity Chamber by Comparison Method	0 °C to 10 °C @ 50 %rh	0.2 °C

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241	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital Relative Humidity / Temperature hygrometer, Digital Temperature / Humidity Indicator, Thermo Hygrograph / Data Logger / Transmitter / Humidity & Temperature Sensor	Using Digital Temperature / Humidity Indicator, Humidity Chamber by Comparison Method	10 °C to 60 °C @ 50 %rh	0.2 °C
242	THERMAL-SPECIFIC HEAT & HUMIDITY	Dew Point Temperature Meter, Dew point Transmitter @ 10 %rh to 95 %rh	Using Digital Temperature & Humidity Dew Point Meter and Humidity Chamber by Comparison method	(-) 20 °C to 20 °C	0.75 °C
243	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Precision Thermometer and Liquid Bath by Comparison Method	(-) 30 °C to 50 °C	0.60 °C
244	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Precision Thermometer and Cryo Bath by Comparison Method	(-) 80 °C to (-) 30 °C	0.60 °C
245	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Precision Thermometer and Oil Bath by Comparison Method	50 °C to 250 °C	0.60 °C

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246	THERMAL-TEMPERATURE	Non Contact - Pyrometer, IR Thermometer	Using Standard Non Contact IR Pyrometer with Indicator and Black body source (Emissivity : 0.95) by Comparison Method	(-) 15 °C to 0 °C	2.62 °C
247	THERMAL-TEMPERATURE	Non Contact - Pyrometer, IR Thermometer	Using Standard Non contact IR Pyrometer with Indicator and Black Body Source (Emissivity : 0.95) by Comparison Method	(-) 30 °C to (-) 15 °C	2.65 °C
248	THERMAL-TEMPERATURE	Non Contact - Pyrometer, IR Thermometer	Using Standard Non contact IR Pyrometer with Indicator, Black body source (Emissivity : 0.95) by Comparison Method	0 °C to 100 °C	1.85 °C
249	THERMAL-TEMPERATURE	Non Contact - Pyrometer, IR Thermometer	Using Standard Non Contact IR Pyrometer with Indicator and Black Body Source (Emissivity : 0.95) by Comparison Method	100 °C to 500 °C	3.96 °C
250	THERMAL-TEMPERATURE	Non Contact - Pyrometer, IR Thermometer	Using Standard Non contact IR Pyrometer with Indicator, Multi Function Calibrator, Black body source (Emissivity : 0.95) by Comparison Method	1200 °C to 1500 °C	4.2 °C

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251	THERMAL-TEMPERATURE	Non Contact - Pyrometer, IR Thermometer	Using Standard Non contact IR Pyrometer with Indicator and Black Body Source (Emissivity : 0.95) by Comparison Method	500 °C to 1200 °C	4.03 °C
252	THERMAL-TEMPERATURE	RTD/Thermocouple with or without indicator, Temperature Gauge, Temperature Transmitter with sensor	Using SSPRT with Precision Thermometer and Temperature Dry Bath by Comparison Method	(-) 100 °C to (-) 30 °C	0.19 °C
253	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicator, Temperature Gauge, Temperature Transmitter with sensor	Using SSPRT with Precision Thermometer, Liquid Bath by Comparison Method	(-) 30 °C to 100 °C	0.11 °C
254	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicator, Temperature Gauge, Temperature Transmitter with sensor	Using SSPRT with Precision Thermometer and Temperature Bath by Comparison Method	100 °C to 300 °C	0.13 °C
255	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicator, Temperature Gauge, Temperature Transmitter with sensor	Using SSPRT with Precision Thermometer , Dry block Calibrator by Comparison Method	300 °C to 600 °C	0.17 °C

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256	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Black Body Source (Emissivity : 0.95)	Using Pyrometer with Indicator by Comparison Method	(-) 15 °C to 0 °C	2.62 °C
257	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Black Body Source (Emissivity : 0.95)	Using Pyrometer with Indicator by Comparison Method	(-) 30 °C to (-) 15 °C	2.65 °C
258	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Black Body Source (Emissivity : 0.95)	Using Pyrometer with Indicator by Comparison Method	0 °C to 100 °C	1.85 °C
259	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Black Body Source (Emissivity : 0.95)	Using Pyrometer with Indicator by Comparison Method	100 °C to 500 °C	3.96 °C
260	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Black Body Source (Emissivity : 0.95)	Using Pyrometer with Indicator by Comparison Method	1200 °C to 1500 °C	4.2 °C
261	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Black Body Source (Emissivity : 0.95)	Using Pyrometer with Indicator by Comparison Method	500 °C to 1200 °C	3.71 °C
262	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Baths, Dry Block Calibrator	Using R Type Thermocouple with Precision Thermometer by Comparison Method	1200 °C to 1500 °C	3.04 °C

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263	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Dry Block Calibrator	Using R type Thermocouple with Precision Thermometer by Comparison Method	600 °C to 1200 °C	1.71 °C
264	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Liquid Bath, Dry Block Calibrator	Using SSPRT with Precision Thermometer by Comparison Method	300 °C to 600 °C	0.2 °C
265	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Liquid Bath, Dry block Calibrator, Low Temperature Bath	Using SSPRT with Precision Thermometer by Comparison Method	(-) 100 °C to (-) 30 °C	0.19 °C
266	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Liquid Bath, Dry Block Calibrator, Low Temperature Bath	Using SSPRT with Precision Thermometer by Comparison Method	(-) 30 °C to 100 °C	0.11 °C
267	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Liquid Bath, Dry Block Calibrator, Low Temperature Bath	Using SSPRT with Precision Thermometer by Comparison Method	100 °C to 300 °C	0.16 °C

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268	THERMAL-TEMPERATURE	Thermocouple with or without Indicator, Temperature Transmitter with Sensor	Using R-Type Thermocouple with Precision Thermometer and Dry Block Calibrator by Comparison Method	100 °C to 300 °C	0.52 °C
269	THERMAL-TEMPERATURE	Thermocouple with or without Indicator, Temperature Transmitter with sensor	Using R-Type Thermocouple with Precision Thermometer and Dry Block Calibrator by Comparison Method	1200 °C to 1500 °C	3.04 °C
270	THERMAL-TEMPERATURE	Thermocouple with or without indicator, Temperature Transmitter with sensor	Using R-Type Thermocouple with Precision Thermometer and Dry Block Calibrator by Comparison Method	300 °C to 600 °C	1.59 °C
271	THERMAL-TEMPERATURE	Thermocouple with or without indicator, Temperature Transmitter with sensor	Using R-Type Thermocouple with Precision Thermometer, Dry Block Calibrator by Comparison Method	600 °C to 1200 °C	1.67 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 20 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	1 mA to 10 mA	0.28 % to 0.36 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 20 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	10 µA to 100 µA	1.36 % to 1.2 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 20 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	10 mA to 1 A	0.36 % to 0.53 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	1 A to 3 A	0.53 % to 0.68 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	3 A to 10 A	0.68 % to 0.56 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 5 kHz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	10 mA to 100 mA	1.24 % to 0.73 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 5 kHz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	100 mA to 1 A	0.73 % to 1.54 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Probe with DMM by Direct Method	1 kV to 25 kV	8.81 % to 6.64 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1 kHz	Using Precision LCR Meter by Direct Method	1 Ohm to 10 kohm	0.073 % to 0.07 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	5.7 % to 0.15 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	100 mV to 10 V	0.15 % to 0.27 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.27 % to 0.13 %

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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	100 V to 1000 V	0.13 % to 0.1 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using 6½ Digit Multimeter by Direct Method	1 nF to 100 µF	5.20 % to 1.73 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Precision LCR Meter by Direct Method	100 pF to 100 µF	0.091 % to 0.12 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using Precision LCR Meter by Direct Method	100 µH to 10 H	0.51 % to 1 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Active Power 1 Phase 2 Wire @ 50 Hz (40 V to 300 V, 0.1 A to 20 A, 0.25 Lead / Lag to UPF)	Using Multiproduct Calibrator by Direct Method	1 W to 6 kW	0.12 % to 0.27 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 10 kHz	Using Multiproduct Calibrator by Direct Method	10 mA to 1 A	0.29 % to 3.46 %

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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multiproduct Calibrator by Direct Method	2.9 A to 20 A	0.62 % to 3.58 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 20 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	30 µA to	0.64 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct calibrator with 50 turn Current Coil by Direct Method	100 A to 1000 A	0.28% to 0.33%
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator with 50 turn Current Coil by Direct Method	20 A to 100 A	0.36 % to 0.28%
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	30 µA to 300 µA	0.57 % to 0.27 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	300 µA to 3 mA	0.27 % to 0.15 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	10 A to 20 A	0.15 % to 0.21 %

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26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	2.9 A to 10 A	0.086 % to 0.15 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	3 mA to 2.9 A	0.15 % to 0.086 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using High Precision Decade Resistance Box by Direct Method	1 Ohm to 10 kohm	0.21 % to 0.59 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	30 mV to 30 V	0.17 % to 0.38 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	1 mV to 30 mV	1.05 % to 0.17 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multiproduct Calibrator by Direct Method	100 V to 1000 V	0.073 % to 0.04 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 100 kHz	Using Multiproduct Calibrator by Direct Method	1 mV to 30 mV	1.81 % to 0.9 %

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33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 100 kHz	Using Multiproduct Calibrator by Direct Method	30 mV to 30 V	0.9 % to 0.13 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 100 kHz	Using Multiproduct Calibrator by Direct Method	30 V to 100 V	0.13 % to 0.3 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multiproduct Calibrator by Direct Method	0.5 nF to 10 nF	3 % to 1.46 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multiproduct Calibrator by Direct Method	10 µF to 100 µF	0.58 % to 0.68 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multiproduct Calibrator by Direct Method	10 nF to 10 µF	1.46 % to 0.58 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	100 pF to 100 µF	1.16 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multiproduct Calibrator by Direct Method	220 pF to 0.5 nF	5.83 % to 3 %

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40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inducatance Box by Direct Method	100 µH to 10 H	1.67 % to 1.3 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz	Using Multiproduct Calibrator by Direct Method	0.2 PF (Lead/Lag) to UPF	0.075 PF to 0.082 PF
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 µA to 100 µA	3.2 % to 0.09 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 3 A	0.081 % to 0.14 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by V / I Method	10 A to 20 A	0.58 % to 0.3 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 400 mA	0.09 % to 0.065 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM with Shunt by V / I Method	20 A to 100 A	0.3 % to 0.40 %

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47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	3 A to 10 A	0.14 % to 0.33 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	400 mA to 1 A	0.065 % to 0.081 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe With DMM by Direct Method	1 kV to 30 kV	7.02 % to 3.94 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	10 Ohm to 100 Ohm	0.05 % to 0.016 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	0.1 Ohm to 1 Ohm	4.16 % to 0.36 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.013 % to 0.049 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	1 Ohm to 10 Ohm	0.36 % to 0.05 %

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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.049 % to 0.94 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	100 Mohm to 1 Gohm	0.94 % to 2.32 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter by Direct Method	100 Ohm to 1 Mohm	0.016 % to 0.013 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	0.1 mV to 100 mV	4.65 % to 0.009 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.0034 % to 0.0047%
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 10 V	0.009 % to 0.003 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 V to 1000 V	0.005 % to 0.007 %

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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	10 µA to 100 µA	0.25 % to 0.041 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	1 µA to 10 µA	2.42 % to 0.26 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	10 A to 20 A	0.066 % to 0.13 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	100 µA to 3 mA	0.041 % to 0.02 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with current 50 turn coil by Direct Method	100 A to 1000 A	0.23 % to 0.59 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	2.99 A to 10 A	0.047 % to 0.066 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with current 50 turn coil by Direct Method	20 A to 100 A	0.5 % to 0.4 %

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68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	3 mA to 2.99 A	0.02 % to 0.047 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (1 V to 100 V & 0.1 A to 1 A)	Using Multiproduct Calibrator by Direct Method	0.1 W to 100 W	0.087 % to 0.034 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (100 V to 1000 V & 1 A to 20 A)	Using Multiproduct Calibrator by Direct Method	100 W to 20000 W	0.034 % to 0.21 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Decade Mega Ohm Box by Direct Method	1 Mohm	2.16 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Decade Mega ohm Box by Direct Method	100 kohm	0.58 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Decade Mega ohm Box by Direct Method	10 Mohm	1.38 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Decade Mega ohm Box by Direct Method	100 Mohm	1.17 %

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75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 5 kV	Using High Precision Decade Mega ohm Box by Direct Method	1 Gohm	6.60 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 5 kV	Using High Precision Decade Mega ohm Box by Direct Method	10 Gohm	2.85 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 5 kV	Using High Precision Decade Mega ohm Box by Direct Method	100 Gohm	2.59 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	1 kohm to 1 Mohm	0.007 % to 0.014 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	1 Mohm to 10 Mohm	0.014 % to 0.022 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	1 Ohm to 10 Ohm	0.12 % to 0.02 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	10 Mohm to 100 Mohm	0.022 % to 0.1 %

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82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	10 Ohm to 30 Ohm	0.02 % to 0.009 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	100 Mohm to 300 Mohm	0.1 % to 0.4 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	30 Ohm to 1 kohm	0.009 % to 0.007 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct Calibrator by Direct Method	300 Mohm to 1000 Mohm	0.4 % to 1.89 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	0.1 mV to 1 mV	1.47 % to 0.18 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	1 mV to 10 mV	0.18 % to 0.015 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	10 mV to 3 V	0.015 % to 0.003 %

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89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	3 V to 1000 V	0.003 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using High Precision Decade Resistance Box	0.001 Ohm to 0.01 Ohm	5.84 % to 2.38 %
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistor Box by Direct Method	0.2 mohm	1.2 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using High Precision Decade Resistance Box	1 Ohm to 100 kohm	0.059 % to 0.058 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistor Box by Direct Method	10 mohm	0.06 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using High Precision Decade Resistance Box	0.01 Ohm to 0.1 Ohm	2.3 % to 0.58 %
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using High Precision Decade Resistance Box	0.1 Ohm to 1 Ohm	0.58 % to 0.06 %

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96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistor Box by Direct Method	1 mohm	0.09 %
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistor Box by Direct Method	100 mohm	0.06 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistor Box by Direct Method	2 mohm	0.07 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistor Box by Direct Method	20 mohm	0.06 %
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B - Type Thermocouple	Using Precision Thermometer by Direct Method	600 °C to 1800 °C	0.64 °C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using Precision Thermometer by Direct Method	(-) 200 °C to 1000 °C	0.1 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J - Type Thermocouple	Using Precision Thermometer by Direct Method	(-) 200 °C to 1200 °C	0.12 °C

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103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K - Type Thermocouple	Using Precision Thermometer by Direct Method	(-) 200 °C to 1350 °C	0.11 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N - Type Thermocouple	Using Precision Thermometer by Direct Method	(-) 200 °C to 1300 °C	0.15 °C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R - Type Thermocouple	Using Precision Thermometer by Direct Method	0 °C to 1750 °C	0.28 °C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using Precision Thermometer by Direct Method	(-) 200 °C to 100 °C	0.07 °C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using Precision Thermometer by Direct Method	100 °C to 850 °C	0.07 °C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using Precision Thermometer by Direct Method	0 °C to 1750 °C	0.27 °C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T - Type Thermocouple	Using Precision Thermometer by Direct Method	(-) 200 °C to 400 °C	0.09 °C

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110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	600 °C to 800 °C	0.49 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	800 °C to 1800 °C	0.4 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.46 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 100 °C to 1200 °C	0.22 °C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to (-) 100 °C	0.32 °C
115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 100 °C	0.3 °C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	100 °C to 1000 °C	0.23 °C

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117	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	1000 °C to 1340 °C	0.35 °C
118	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 400 °C	0.42 °C
119	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	400 °C to 1300 °C	0.27 °C
120	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	0 °C to 1000 °C	0.67 °C
121	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	1000 °C to 1750 °C	0.41 °C
122	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 200 °C	0.12 °C
123	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multiproduct Calibrator by Direct Method	200 °C to 600 °C	0.14 °C

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124	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multiproduct Calibrator by Direct Method	600 °C to 800 °C	0.27 °C
125	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	0 °C to 1400 °C	0.56 °C
126	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	1400 °C to 1750 °C	0.42 °C
127	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 150 °C to 400 °C	0.22 °C
128	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to (-) 150 °C	0.56 °C
129	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	100 kHz to 1000 kHz	0.016 % to 0.015 %
130	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	3 Hz to 100 kHz	0.12 % to 0.016 %

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131	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Calibrator by Comparison Method	1 s to 3600 s	0.11 s to 0.74 s
132	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Calibrator by Comparison Method	3600 s to 36000 s	0.63 s to 4.66 s
133	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Calibrator by Comparison Method	36000 s to 86400 s	4.66 s to 10.62 s
134	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	1 Hz to 10 Hz	0.18 % to 0.017 %
135	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	10 Hz to 1000 kHz	0.017 % to 0.073 %
136	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	1000 kHz to 2 MHz	0.073 % to 0.0006 %
137	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Contact)	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	0.36 %
138	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Contact)	Using Digital Tachometer by Comparison Method	1000 rpm to 6000 rpm	0.06 %

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139	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Contact)	Using Digital Tachometer by Comparison Method	6 rpm to 100 rpm	2.62 %
140	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Contact)	Using Digital Tachometer by Comparison Method	6000 rpm to 12000 rpm	0.02 %
141	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Non Contact)	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	0.36 %
142	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Non Contact)	Using Digital Tachometer by Comparison Method	1000 rpm to 10000 rpm	0.058 %
143	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Non Contact)	Using Digital Tachometer by Comparison Method	10000 rpm to 60000 rpm	0.021 %
144	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Tachometer Generator (Non Contact)	Using Digital Tachometer by Comparison Method	6 rpm to 100 rpm	1.78 %
145	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Tachometer Generator (Non Contact)	Using Digital Tachometer by Comparison Method	60000 rpm to 99950 rpm	0.012 %
146	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer, RPM Source by Comparison Method	100 rpm to 1000 rpm	0.36 %
147	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer, RPM Source by Comparison Method	1000 rpm to 6000 rpm	0.06 %
148	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer, RPM Source by Comparison Method	6 rpm to 100 rpm	2.09 %

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149	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer, RPM Source by Comparison Method	6000 rpm to 12000 rpm	0.02 %
150	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Tachometer, RPM Source by Comparison Method	100 rpm to 1000 rpm	0.36 %
151	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Tachometer, RPM Source by Comparison Method	1000 rpm to 10000 rpm	0.058 %
152	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Tachometer, RPM Source by Comparison Method	10000 rpm to 60000 rpm	0.021 %
153	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Tachometer, RPM Source by Comparison Method	6 rpm to 100 rpm	1.93 %
154	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Tachometer, RPM Source by Comparison Method	60000 rpm to 99950 rpm	0.012 %
155	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge / Transducer, Vacuum Transmitter, Manometer	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	(-) 200 mbar to 0	0.044 mbar
156	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauge, Pressure Transducer, Pressure Transmitter, Manometer	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	0 to 25 mbar	0.022 mbar

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157	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauges / Transducer, Vacuum Transmitter, Manometer	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	(-) 25 mbar to 0	0.022 mbar
158	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Absolute) Gauge, Barometer, Manometer	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	0.1 bar (abs) to 3 bar (abs)	0.00034 bar
159	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauge, Pressure Calibrator, Pressure Switch, Pressure Transmitter / Indicator, Manometer - Pneumatic	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	0 to 35 bar	0.0029 bar
160	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauge, Pressure Calibrator, Pressure Switch, Pressure Transmitter / Indicator - Hydraulic	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	0 to 200 bar	0.022 bar
161	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauge, Pressure Calibrator, Pressure Switch, Pressure Transmitter / Indicator - Hydraulic	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	0 to 1000 bar	0.1 bar
162	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauge, Pressure Calibrator, Pressure Switch, Pressure Transmitter / Indicator, Manometer - Pneumatic	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	0.1 bar to 2 bar	0.00029 bar

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163	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transducer, Pressure Transmitter, Manometer	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per DKD-R 6-1	0 to 200 mbar	0.06 mbar
164	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum gauge, Vacuum calibrator, Vacuum switch, Vacuum Transmitter, Vacuum Indicator	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per ISO 3567 and ISO 27893	(-) 0.1 bar to (-) 0.9 bar	0.00015 bar
165	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum gauge, Vacuum calibrator, Vacuum switch, Vacuum Transmitter, Vacuum Indicator	Using Digital Pressure Calibrator & Universal Calibrator by Comparison Method as per ISO 3567 and ISO 27893	(-) 0.1 bar to (-) 1 bar	0.00015 bar
166	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class I (Readability: 0.001 mg)	Using E1 Class Weights as per OIML R 76 -1	Upto 20 g	0.014 mg
167	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class I (Readability: 0.001 mg)	Using E1 Class Weights as per OIML R 76 -1	Upto 5 g	0.013 mg
168	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class II (Readability: 0.2 g)	Using F1 Class Weights as per OIML R 76 -1	Upto 20 kg	0.2 g
169	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class II (Readability: 10 mg)	Using E2 Class Weights as per OIML R 76 -1	Upto 1 kg	0.003 g

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170	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class III (Readability: 1 g)	Using F1 Class Weights as per OIML R 76 -1	Upto 50 kg	1 g
171	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class IIII (Readability: 100 mg)	Using F1 Class Weights as per OIML R 76 -1	Upto 10 kg	0.05 g
172	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class IIII (Readability: 20 g)	Using M1 Class Weights as per OIML R 76 -1	Upto 200 kg	13.4 g
173	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class I (Readability : 0.01 mg)	Using E1 Class Weights as per OIML R 76 -1	Upto 220 g	0.1 mg
174	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale and Balance - Class IIII (Readability: 50 g)	Using M1 Class Weights as per OIML R 76 -1	Upto 300 kg	20 g
175	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity / Temperature Chamber, Environmental Chamber, Climatic chamber, Humidity Generator, Humidity Source	Using Digital Temperature / Humidity Datalogger with Sensor (Minimum 9 Sensors used) by Comparison Method	5 %rh @ 25 °C	1.4 %rh
176	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity / Temperature Chamber, Environmental Chamber, Climatic chamber, Humidity Generator, Humidity Source	Using Digital Temperature / Humidity Datalogger with Sensor (Minimum 9 Sensors used) by Comparison Method	10 %rh to 95 %rh @ 25 °C	0.85 %rh

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177	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity / Temperature Chamber, Environmental Chamber, Climatic chamber, Humidity Generator, Humidity Source	Using Digital Temperature / Humidity Datalogger with Sensor (Minimum 9 Sensors used) by Comparison Method	13 %rh to 90 %rh @ 10 °C to 60 °C	1.2 %rh
178	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity / Temperature Chamber, Environmental Chamber, Climatic chamber, Humidity Generator, Humidity Source	Using Digital Temperature / Humidity Datalogger with Sensor (Minimum 9 Sensors used) by Comparison Method	6 °C to 60 °C @ 50 %rh	0.59 °C
179	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Dew Point Chamber @ 10 %rh to 95 %rh (Single Position Calibration)	Using Digital Temperature / Humidity Dew Point Meter by Comparison Method	(-) 20 °C to 20 °C	1 °C
180	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Dew Point Chamber @ 10 %rh to 95 %rh	Using Digital Temperature / Humidity Dew Point Meter (Minimum 9 Sensors used) by Comparison Method	(-) 20 °C to 20 °C	1.4°C
181	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Humidity / Temperature Chamber, Environmental Chamber, Climatic chamber , Humidity Generator (Single Position Calibration)	Using Digital Temperature / Humidity Indicator with sensor by Comparison Method	1 %rh to 5 % rh @ 23 °C	0.74 °C

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182	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Humidity / Temperature Chamber, Environmental Chamber, Climatic chamber , Humidity Generator (Single Position Calibration)	Using Digital Temperature / Humidity Indicator with sensor by Comparison Method	5 % rh @ 25 °C	1.30 %rh
183	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Humidity / Temperature Chamber, Environmental Chamber, Climatic chamber, Humidity Generator, Humidity Source (Single Position Calibration)	Using Digital Temperature / Humidity Indicator with Sensor by Comparison Method	13 %rh to 90 %rh @ 10 °C to 60 °C	0.85 %rh
184	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Temperature & Humidity chamber, Environmental chamber, Climatic chamber, Humidity Generator (Single Position Calibration)	Using Digital Temperature / Humidity Indicator with sensor by Comparison Method	10 °C to 60 °C @ 50 %rh	0.38 °C
185	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Temperature & Humidity chamber, Environmental chamber, Climatic chamber, Humidity Generator (Single Position Calibration)	Using Digital Temperature / Humidity Indicator with sensor by Comparison Method	0 °C to 10 °C @ 50 %rh	0.22 °C

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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)(±)
186	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Temperature & Humidity chamber, Environmental chamber, Climatic chamber, Humidity Generator (Single Position Calibration)	Using Digital Temperature / Humidity Indicator with sensor by Comparison Method	10 %rh to 95 %rh @ 25 °C	0.7 %rh
187	THERMAL-TEMPERATURE	Chamber, Oven, Hot Air Oven, Furnace	Using Standard RTD (minimum 9) with Data Logger by Comparison Method	50 °C to 200 °C	0.9 °C
188	THERMAL-TEMPERATURE	Freezer, Deep Freezer	Using Standard RTD (minimum 9) with Data Logger by Comparison Method	(-) 80 °C to 50 °C	1.35 °C
189	THERMAL-TEMPERATURE	Non Contact - Pyrometer, IR Thermometer	Using Standard Non Contact IR Pyrometer with Indicator and Black body source (Emissivity : 0.95) by Comparison Method	(-) 15 °C to 0 °C	2.62 °C
190	THERMAL-TEMPERATURE	Non Contact - Pyrometer, IR Thermometer	Using Standard Non contact IR Pyrometer with Indicator and Black Body Source (Emissivity : 0.95) by Comparison Method	(-) 30 °C to (-) 15 °C	2.65 °C
191	THERMAL-TEMPERATURE	Non Contact - Pyrometer, IR Thermometer	Using Standard Non contact IR Pyrometer with Indicator, Black body source (Emissivity : 0.95) by Comparison Method	0 °C to 100 °C	1.85 °C

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192	THERMAL-TEMPERATURE	Non Contact - Pyrometer, IR Thermometer	Using Standard Non Contact IR Pyrometer with Indicator and Black Body Source (Emissivity : 0.95) by Comparison Method	100 °C to 500 °C	3.96 °C
193	THERMAL-TEMPERATURE	Non Contact - Pyrometer, IR Thermometer	Using Standard Non contact IR Pyrometer with Indicator and Black Body Source (Emissivity : 0.95) by Comparison Method	500 °C to 1200 °C	4.03 °C
194	THERMAL-TEMPERATURE	Oven, Hot Air Oven, Liquid Bath, Muffle Furnace, Temperature Chamber - Multi Position Calibration	Using Standard RTD (Minimum 9) with Data Logger by Comparison Method	200 °C to 600 °C	2.46 °C
195	THERMAL-TEMPERATURE	Oven, Hot Air Oven, Liquid Bath, Muffle Furnace, Temperature Chamber - Multi Position Calibration	Using Standard N Type Thermocouple (Minimum 9) with Data Logger by Comparison Method	600 °C to 1200 °C	3.59 °C
196	THERMAL-TEMPERATURE	RTD/Thermocouple with or without indicator, Temperature Gauge, Temperature Transmitter with sensor	Using SSPRT with Precision Thermometer and Temperature Dry Bath by Comparison Method	(-) 100 °C to (-) 30 °C	0.19 °C

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197	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicator, Temperature Gauge, Temperature Transmitter with sensor	Using SSPRT with Precision Thermometer, Liquid Bath by Comparison Method	(-) 30 °C to 100 °C	0.11 °C
198	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicator, Temperature Gauge, Temperature Transmitter with sensor	Using SSPRT with Precision Thermometer and Temperature Bath by Comparison Method	100 °C to 300 °C	0.13 °C
199	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicator, Temperature Gauge, Temperature Transmitter with sensor	Using SSPRT with Precision Thermometer , Dry block Calibrator by Comparison Method	300 °C to 600 °C	0.17 °C
200	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Black Body Source (Emissivity : 0.95)	Using Pyrometer with Indicator by Comparison Method	(-) 15 °C to 0 °C	2.62 °C
201	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Black Body Source (Emissivity : 0.95)	Using Pyrometer with Indicator by Comparison Method	(-) 30 °C to (-) 15 °C	2.65 °C
202	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Black Body Source (Emissivity : 0.95)	Using Pyrometer with Indicator by Comparison Method	0 °C to 100 °C	1.85 °C

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203	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Black Body Source (Emissivity : 0.95)	Using Pyrometer with Indicator by Comparison Method	100 °C to 500 °C	3.96 °C
204	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Black Body Source (Emissivity : 0.95)	Using Pyrometer with Indicator by Comparison Method	1200 °C to 1500 °C	4.2 °C
205	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Black Body Source (Emissivity : 0.95)	Using Pyrometer with Indicator by Comparison Method	500 °C to 1200 °C	3.71 °C
206	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Chamber, Hot Air Oven, Furnace, Liquid Bath - Single Position Calibration	Using Standard RTD with Indicator by Comparison Method	50 °C to 200 °C	0.29 °C
207	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Chamber, Oven, Hot Air Oven, Furnace, Liquid Bath, Muffle Furnace - Single Position Calibration	Using Standard RTD with Indicator by Comparison Method	200 °C to 600 °C	1.99 °C
208	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Chamber, Oven, Hot Air Oven, Furnace, Muffle Furnace - Single Position Calibration	Using Standard S type Thermocouple with Indicator by Comparison Method	600 °C to 1200 °C	2.63 °C

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209	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Freezer, Deep Freezer - Single Position Calibration	Using Standard RTD with Indicator by Comparison Method	(-) 80°C to 50 °C	0.36 °C
210	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Baths, Dry Block Calibrator	Using R Type Thermocouple with Precision Thermometer by Comparison Method	1200 °C to 1500 °C	3.04 °C
211	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Dry Block Calibrator	Using R type Thermocouple with Precision Thermometer by Comparison Method	600 °C to 1200 °C	1.71 °C
212	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Liquid Bath, Dry Block Calibrator	Using SSPRT with Precision Thermometer by Comparison Method	300 °C to 600 °C	0.2 °C
213	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Liquid Bath, Dry block Calibrator, Low Temperature Bath	Using SSPRT with Precision Thermometer by Comparison Method	(-) 100 °C to (-) 30 °C	0.19 °C
214	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Liquid Bath, Dry Block Calibrator, Low Temperature Bath	Using SSPRT with Precision Thermometer by Comparison Method	(-) 30 °C to 100 °C	0.11 °C

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215	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Liquid Bath, Dry Block Calibrator, Low Temperature Bath	Using SSPRT with Precision Thermometer by Comparison Method	100 °C to 300 °C	0.16 °C
216	THERMAL-TEMPERATURE	Thermocouple with or without Indicator, Temperature Transmitter with Sensor	Using R-Type Thermocouple with Precision Thermometer and Dry Block Calibrator by Comparison Method	100 °C to 300 °C	0.52 °C
217	THERMAL-TEMPERATURE	Thermocouple with or without Indicator, Temperature Transmitter with sensor	Using R-Type Thermocouple with Precision Thermometer and Dry Block Calibrator by Comparison Method	1200 °C to 1500 °C	3.04 °C
218	THERMAL-TEMPERATURE	Thermocouple with or without indicator, Temperature Transmitter with sensor	Using R-Type Thermocouple with Precision Thermometer and Dry Block Calibrator by Comparison Method	300 °C to 600 °C	1.59 °C
219	THERMAL-TEMPERATURE	Thermocouple with or without indicator, Temperature Transmitter with sensor	Using R-Type Thermocouple with Precision Thermometer, Dry Block Calibrator by Comparison Method	600 °C to 1200 °C	1.67 °C

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