National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : OORJA TECHNICAL SERVICES PVT. LTD., PLOT NO. 18, TIRUMALA HANSREDYMADE PARK, TIGARIYA BADSHAH, INDORE INDUSTRIAL AREA, INDORE, MADHYA PRADESH, INDIA

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, AC Active Energy @ (45 Hz to 65 Hz, 0.01 Lead / Lag to UPF, 40 V to 320 V, 1 mA to 100 A)	Using 3Ø Energy Reference Standard with Calibrator by Direct / Comparison Method	0.04 Wh to 32 kWh	0.0047 % to 0.4 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, AC Active Energy @ (45 Hz to 65 Hz, 0.01 Lead / Lag to UPF, 40 V to 320 V, 100 A to 120 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	40 Wh to 38.4 kWh	0.0047 % to 1.6 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Active Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.04 W to 32 kW	0.0047 % to 0.4 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Active Power @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	40 W to 38.4 kW	0.0047 % to 1.6 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Apparent Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.04 VAh to 32 kVAh	0.0047 % to 0.03 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Apparent Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	4 kVAh to 38.4 kVAh	0.0047 % to 0.0162 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Apparent Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.04 VA to 32 kVA	0.0047 % to 0.035 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Apparent Power @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	40 VA to 38.4 kVA	0.0047 % to 0.0162 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Reactive Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.04 VArh to 32 kVArh	0.03 % to 0.4 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Reactive Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	40 VArh to 38.4 kVArh	0.0047 % to 1.6 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Reactive Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.04 VAr to 32 kVAr	0.005 % to 0.4 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Reactive Power @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	40 VAr to 38.4 kVAR	0.0047 % to 1.6 %

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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 3 Wire, AC Active Energy @ (45 Hz to 65 Hz, 0.1 Lead / Lag to UPF, 40 V to 320 V, 10 mA to 120 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 Wh to 115.2 kWh	0.008 % to 0.16 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 3 Wire, Active Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 10 mA, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 W to 9.6 W	0.008 % to 0.8 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 3 Wire, Active Power @ (45 Hz to 65 Hz, 40 V to 320 V, 10 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.012 W to 115.2 kW	0.008 % to 1.6 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 3 Wire, Reactive Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 10 mA to 120 A, 0.1 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 VArh to 115.2 kVArh	0.008 % to 0.16 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 3 Wire, Reactive Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 10 mA, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.19 VAr to 9.6 VAr	0.008 % to 0.8 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 3 Wire, Reactive Power @ (45 Hz to 65 Hz, 40 V to 320 V, 10 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.012 VAr to 115.2 kVAr	0.008 % to 1.6 %

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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, AC Active Energy @ (45 Hz to 65 Hz, 0.01 Lead / Lag to UPF, 40 V to 320 V, 1 mA to 100 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 Wh to 96 kWh	0.0047 % to 0.4 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, AC Active Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 W to 96 kW	0.031 % to 0.4 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, AC Apparent Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 VA to 96 kVA	0.0047 % to 0.031 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, AC Reactive Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 VArh to 96 kVArh	0.0047 % to 0.4 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, AC Reactive Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 VAr to 96 kVAr	0.0047 % to 0.4 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Active Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	120 Wh to 115.2 kWh	0.0047 % to 1.6 %

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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Active Power @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	120 W to 115.2 kW	0.0047 % to 1.6 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Apparent Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 VAh to 96 kVAh	0.0047 % to 0.031 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Apparent Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	12 kVAh to 115.2 kVAh	0.0047 % to 0.0162 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Apparent Power @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	120 VA to 115.2 kVA	0.0047 % to 0.0162 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Reactive Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	120 VArh to 115.2 kVArh	0.0047 % to 1.6 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Reactive Power @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	120 VAr to 115.2 kVAr	0.0047 % to 1.6 %

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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 8½ Digit Multimeter with MPC by Comparison Method	30 µA to 100 mA	0.11 % to 0.053 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 8½ Digit Multimeter by Direct Method	30 µA to 100 mA	0.11 % to 0.053 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 65 Hz	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.001 A to 100 A	0.045 % to 0.004 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 65 Hz	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	100 A to 120 A	0.004 % to 0.01 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Multimeter by Direct Method	100 mA to 1 A	0.053 % to 0.094 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Multimeter with MPC by Comparison Method	100 mA to 1 A	0.053 % to 0.094 %

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37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 5 kHz	Using 8½ Digit Multimeter by Direct Method	1 A to 20 A	0.094 % to 0.12 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 5 kHz	Using 8½ Digit Multimeter with MPC by Comparison Method	1 A to 20 A	0.094 % to 0.12 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @ 50 Hz	Using High Current to Low Current Conversion, STD Current Transformer & Low Current Measured at STD Meter with High Current Source by Direct / Comparison Method	100 A to 6000 A	0.065 % to 0.26 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Divider with kV Meter with HV Source by Direct / Comparison Method	1 kV to 100 kV	1.46 % to 1.47 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 10 kHz	Using 8½ Digit Multi Meter by Direct Method	1 mV to 100 mV	0.5 % to 0.018 %

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42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 10 kHz	Using 8½ Digit Multi Meter with MPC by Comparison Method	1 mV to 100 mV	0.54 % to 0.019 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 10 kHz	Using 8½ Digit Multi Meter by Direct Method	100 mV to 1000 V	0.018 % to 0.02 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 10 kHz	Using 8½ Digit Multi Meter with MPC by Comparison Method	100 mV to 1000 V	0.019 % to 0.02 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 65 Hz	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	30 V to 480 V	0.004 % to 0.002 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Precision LCR Meter with Decade Capacitance Box by Direct Method / Substitution Method	100 pF to 100 µF	0.1 % to 0.14 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 100 Hz	Using Precision LCR Meter with MPC by Direct Method / Substitution Method	1 mF to 100 mF	0.14 % to 0.19 %

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48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonics @ (50 Hz, 40 V to 240 V, 0.05 A to 10 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	1st order to 39th order	0.5 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using Precision LCR Meter with Decade Inductance Box by Direct Method / Substitution Method	100 µH to 10 H	0.1 % to 0.11 %
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ (50 Hz, 40 V to 480 V, 0.01 A to 100 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	(-) 1 PF to 1 PF	0.00001 PF
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Resistance @ 1 kHz	Using Precision LCR Meter with Decade Resistance Box by Direct Method / Substitution Method	1 ohm to 10 kohm	0.1 % to 0.08 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Active Energy @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	40 mWh to 36 kWh	0.071 % to 1.61 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Active Power @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	40 mW to 36 kW	0.071 % to 1.61 %

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54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Reactive Energy @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	40 mVArh to 36 kVArh	0.071 % to 1.61 %
55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Reactive Power @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	40 mVAr to 36 kVAr	0.071 % to 1.61 %
56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 3 Wire, AC Active Energy @ (50 Hz, 63.5 V, 1 mA to 10 A, 0.5 Lag / 0.8 Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	95.25 mWh to 1.905 kWh	0.071 % to 0.061 %
57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 3 Wire, AC Reactive Energy @ (50 Hz, 63.5 V, 1 mA to 10 A, 0.5 Lag / 0.8 Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	95.25 mVArh to 1.905 kVArh	0.071 % to 0.061 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 4 Wire, AC Active Energy @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	120 mWh to 108 kWh	0.071 % to 1.61 %
59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 4 Wire, AC Active Power @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	120 mW to 108 kW	0.071 % to 1.61 %

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60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 4 Wire, AC Reactive Energy @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	120 mVArh to 108 kVArh	0.071 % to 1.61 %
61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 4 Wire, AC Reactive Power @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	120 mVAr to 108 kVAr	0.071 % to 1.61 %
62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 65 Hz	Using 3Ø Power Calibrator by Direct Method	1 mA to 120 A	0.034 % to 0.025 %
63	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with 50 Turns Current Coil by Direct Method	20 A to 1000 A	0.5 % to 0.55 %
64	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	0.14 % to 0.087 %
65	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 mA to 20 A	0.087 % to 0.21 %
66	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	30 μA to 1 mA	0.58 % to 0.14 %

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67	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 1000 mH	0.6 % to 0.18 %
68	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	1 mV to 3 mV	1.7 % to 0.4 %
69	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	1 V to 1000 V	0.04 % to 0.063 %
70	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	0.06 % to 0.04 %
71	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	3 mV to 100 mV	0.4 % to 0.06 %
72	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	1 µF to 100 µF	1.8 % to 0.5 %
73	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	100 pF to 1 µF	0.7 % to 1.8 %

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74	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter and MPC by V/I Method	1 mohm to 100 mohm	0.056 % to 0.026 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter and MPC by V/I Method	10 µohm to 50 µohm	0.087 % to 0.057 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter and MPC by V/I Method	100 mohm to 1 ohm	0.011 % to 0.021 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter and MPC by V/I Method	50 µohm to 1 mohm	0.057 % to 0.056 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct Method	1 µA to 100 mA	0.05 % to 0.005 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter with MPC by Comparison Method	1 µA to 100 mA	0.053 % to 0.005 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct Method	1 A to 20 A	0.022 % to 0.047 %

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81	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter with MPC by Comparison Method	1 A to 20 A	0.022 % to 0.057 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct Method	100 mA to 1 A	0.005 % to 0.022 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter with MPC by Comparison Method	100 mA to 1 A	0.005 % to 0.022 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Divider with KV Meter with HV Source by Comparison Method	1 kV to 100 kV	2.21 % to 1.53 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct Method	0.1 mV to 1 mV	0.12 % to 0.014 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter with MPC by Comparison Method	0.1 mV to 1 mV	0.13 % to 0.016 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct Method	1 mV to 10 V	0.014 % to 0.0005 %

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88	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter with MPC by Comparison Method	1 mV to 10 V	0.016 % to 0.0005 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct Method	10 V to 1000 V	0.0005 % to 0.0007 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter with MPC by Comparison Method	10 V to 1000 V	0.0005 % to 0.0007 %
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter by Direct Method	1 ohm to 100 kohm	0.0027 % to 0.001 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter with MPC by Substitution Method	1 ohm to 100 kohm	0.0027 % to 0.001 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter with MPC by Substitution Method	10 Mohm to 100 Mohm	0.004 % to 0.017 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.0025 % to 0.017 %

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95	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter with MPC by Substitution Method	100 kohm to 10 Mohm	0.001 % to 0.004 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter by Direct Method	100 Mohm to 1000 Mohm	0.017 % to 0.1 %
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter by Direct Method	100 kohm to 10 Mohm	0.001 % to 0.0025 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter with MPC by Substitution Method	100 Mohm to 1000 Mohm	0.017 % to 0.1 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter by Direct Method	1 mohm to 100 mohm	0.055 % to 0.011 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter with Resistance Box by Substitution Method	1 mohm to 100 mohm	5.8 % to 0.034 %
101	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter with MPC by Substitution Method	1 ohm to 100 kohm	0.021 % to 0.001 %

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102	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter by Direct Method	1 ohm to 100 kohm	0.021 % to 0.001 %
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter with Resistance Box by Substitution Method	10 µohm to 1 mohm	5 % to 5.8 %
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter by Direct Method	100 mohm to 1 ohm	0.011 % to 0.021 %
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter with MPC by Substitution Method	100 mohm to 1 ohm	0.034 % to 0.021 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 µA to 10 µA	2.34 % to 0.35 %
107	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 µA to 100 mA	0.35 % to 0.016 %
108	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 mA to 20 A	0.016 % to 0.14 %

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109	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with 50 Turns Current Coil by Direct Method	20 A to 1000 A	0.4 %
110	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Megaohmbox Standard by Direct Method	100 kohm to 1000 Mohm	0.1 % to 0.21 %
111	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 1 kV	Using High Resistance Standard Box by Direct Method	10 Tohm	5.4 %
112	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ Up to 5 kV	Using Decade Mega Ohm Box Standard by Direct Method	10 Gohm to 1 Tohm	2.6 % to 4.3 %
113	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 100 mV	0.355 % to 0.01 %
114	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 mV to 1000 V	0.01 % to 0.008 %
115	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multi Product Calibrator by Direct Method	1 ohm to 10 kohm	0.07 % to 0.01 %

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116	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multi Product Calibrator by Direct Method	10 Mohm to 1000 Mohm	0.07 % to 1.74 %
117	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multi Product Calibrator by Direct Method	10 kohm to 10 Mohm	0.01 % to 0.07 %
118	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 mohm to 1 ohm	6 % to 0.072 %
119	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 ohm to 10 kohm	0.072 % to 0.01 %
120	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Low Resistance Standard by Direct Method	10 µohm to 1 ohm	0.64 % to 0.063 %
121	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT - VT Comparator / Bridge CT Mode - Phase Error (Min) Secondary Input - 1 A & 5 A	Using CT - PT Bridge by Comparison Method	120 % to 1 %	0.7 minute to 1.2 minute
122	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT - VT Comparator / Bridge CT Mode - Ratio Error (%) Secondary Input - 1 A & 5 A	Using CT - PT Bridge by Comparison Method	120 % to 1 %	0.013 % to 0.024 %

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123	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT - VT Comparator / Bridge PT Mode - Phase Error (Min) Secondary Input - 63.5 V & 110 V	Using CT - PT Bridge by Comparison Method	120 % to 80 %	0.8 minute to 0.9 minute
124	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT - VT Comparator / Bridge PT Mode - Ratio Error (%) Secondary Input - 63.5 V & 110 V	Using CT - PT Bridge by Comparison Method	120 % to 80 %	0.015 % to 0.016 %
125	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer - Phase Error (1 A to 3200 A with Secondary - 1 A & 5 A)	Using Standard CT & Comparator with Source Primary Injection by Comparison Method	120 % to 1 %	1.18 minute to 2.3 minute
126	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer - Phase Error (3200 A to 6000 A Primary with Secondary - 1 A & 5 A)	Using Standard CT & Comparator with Source Primary Injection by Comparison Method	120 % to 1 %	1.18 minute to 2.3 minute
127	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer - Ratio Error (1 A to 3200 A with Secondary - 1 A & 5 A)	Using Standard CT & Comparator with Source Primary Injection by Comparison Method	120 % to 1 %	0.025 % to 0.04 %
128	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer - Ratio Error (3200 A to 6000 A Primary with Secondary - 1 A & 5 A)	Using Standard CT & Comparator with Source Primary Injection by Comparison Method	120 % to 1 %	0.025 % to 0.04 %
129	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer Burden Box	Using Power Network Analyzer with Source by Direct Method	1 VA to 30 VA	0.07 % to 0.06 %

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130	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer / Capacitor Voltage Transformer - Phase Error (220 V / 110 V to 33 kV / 110 V with Secondary - 63.5 V & 110 V)	Using Standard PT & Comparator with Source Primary Injection by Comparison Method	120 % to 80 %	2.18 % to 2.3 %
131	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer / Capacitor Voltage Transformer - Ratio Error (220 V / 110 V to 33 kV / 110 V with Secondary - 63.5 V & 110 V)	Using Standard PT & Comparator with Source Primary Injection by Comparison Method	120 % to 80 %	0.07 %
132	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer Burden Box	Using Power Network Analyzer with Source by Direct Method	1.25 VA to 200 VA	0.07 % to 0.06 %
133	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Turn Ratio	Using 6½ Digit DMM & 8½ Digit Multimeter with Turn Ratio Standard by V/V Method	0.8 Turn to 2000 Turn	0.09 % to 0.23 %
134	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter (1 µS to 1000 mS)	Using Decade Resistance Box by Simulation Method	1 ohm to 1 Mohm	0.68 % to 0.6 %
135	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter (0 pH to 14 pH)	Using Multi Product Calibrator by Simulation Method	(-) 420 mV to 420 mV	0.3 %

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136	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using 8½ Digit Multimeter with MPC by Substitution Method	(-) 200 °C to 850 °C	0.02 °C
137	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100, PT 1000)	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 850 °C	0.018 °C
138	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 1000)	Using 8½ Digit Multimeter with MPC by Substitution Method	(-) 200 °C to 630 °C	0.02 °C
139	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	(-) 210 °C to 1200 °C	0.05 °C
140	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	600 °C to 1820 °C	0.124 °C
141	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B - Type	Using 8½ Digit Multimeter by Direct Method	600 °C to 1820 °C	0.12 °C
142	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E - Type	Using 8½ Digit Multimeter by Direct Method	(-) 250 °C to 1000 °C	0.08 °C

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143	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	(-) 250 °C to 1000 °C	0.09 °C
144	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J - Type	Using 8½ Digit Multimeter by Direct Method	(-) 210 °C to 1200 °C	0.046 °C
145	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K - Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1372 °C	0.051 °C
146	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	(-) 200 °C to 1372 °C	0.055 °C
147	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple L - Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 900 °C	0.037 °C
148	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple L - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	(-) 200 °C to 900 °C	0.039 °C
149	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N - Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1300 °C	0.073 °C

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150	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	(-) 200 °C to 1300 °C	0.079 °C
151	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R - Type	Using 8½ Digit Multimeter by Direct Method	50 °C to 1767 °C	0.066 °C
152	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	50 °C to 1767 °C	0.08 °C
153	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S - Type	Using 8½ Digit Multimeter by Direct Method	50 °C to 1767 °C	0.075 °C
154	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	50 °C to 1767 °C	0.09 °C
155	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T - Type	Using 8½ Digit Multimeter by Direct Method	(-) 250 °C to 400 °C	0.114 °C
156	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	(-) 250 °C to 400 °C	0.124 °C

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157	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple U - Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 600 °C	0.045 °C
158	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple U - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	(-) 200 °C to 600 °C	0.05 °C
159	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.03 °C
160	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 1000)	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 630 °C	0.03 °C
161	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B - Type	Using Multi Product Calibrator by Direct Method	600 °C to 1820 °C	0.22 °C
162	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E - Type	Using Multi Product Calibrator by Direct Method	(-) 250 °C to 1000 °C	0.23 °C
163	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J - Type	Using Multi Product Calibrator by Direct Method	(-) 210 °C to 1200 °C	0.15 °C

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164	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K - Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.141 °C
165	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple L - Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 900 °C	0.243 °C
166	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N - Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.19 °C
167	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R - Type	Using Multi Product Calibrator by Direct Method	50 °C to 1767 °C	0.265 °C
168	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S - Type	Using Multi Product Calibrator by Direct Method	50 °C to 1767 °C	0.265 °C
169	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T - Type	Using Multi Product Calibrator by Direct Method	(-) 250 °C to 400 °C	0.343 °C
170	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple U - Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 600 °C	0.29 °C

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171	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Precision Frequency Universal Counter by Direct Method	1 Hz to 50 Hz	0.0002 % to 0.00013 %
172	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Precision Frequency Universal Counter with MPC by Comparison Method	1 Hz to 50 Hz	0.0007 % to 0.00015 %
173	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Precision Frequency Universal Counter by Direct Method	100 kHz to 2 MHz	0.0001 % to 0.00015 %
174	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Precision Frequency Universal Counter with MPC by Comparison Method	100 kHz to 2 MHz	0.00011 % to 0.00013 %
175	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Precision Frequency Universal Counter by Direct Method	50 Hz to 100 kHz	0.00013 % to 0.0001 %
176	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Precision Frequency Universal Counter with MPC by Comparison Method	50 Hz to 100 kHz	0.00015 % to 0.00011 %
177	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	1 s to 9900 s	0.12 s to 0.53 s

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178	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	36000 s to 86400 s	2.07 s to 7.08 s
179	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	9900 s to 36000 s	0.53 s to 2.07 s
180	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1 Hz to 50 Hz	0.59 % to 0.012 %
181	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	50 Hz to 2 MHz	0.012 % to 0.03 %
182	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicator with Sensor (Non Contact Type)	Using Tachometer Calibrator, Precision Tachometer by Comparison Method	> 100 RPM to 5000 RPM	3.1 RPM
183	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicator with Sensor (Non Contact Type)	Using Tachometer Calibrator, Precision Tachometer by Comparison Method	> 5000 RPM to 60000 RPM	16.02 RPM
184	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicator with Sensor (Non Contact Type)	Using Tachometer Calibrator, Precision Tachometer by Comparison Method	> 60000 RPM to 99950 RPM	20.2 RPM
185	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicator with Sensor (Non Contact Type)	Using Tachometer Calibrator, Precision Tachometer by Comparison Method	6 RPM to 100 RPM	1 RPM

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186	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Sensor with Indicator, Rotation Meter with Indicator (Contact Type)	Using Tachometer Calibrator, Precision Tachometer by Comparison Method	> 1000 RPM to 11000 RPM	4.01 RPM
187	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Sensor with Indicator, Rotation Meter with Indicator (Contact Type)	Using Tachometer Calibrator, Precision Tachometer by Comparison Method	6 RPM to 1000 RPM	1.01 RPM
188	MECHANICAL-ACOUSTICS	Sound Level Meter, dB Meter, Acoustic Meter, Noise Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	94 dB & 114 dB	0.51 dB
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Protractor, Inclinometer, Digital Level and Protractor, Slop Meter, Angle Meter (L.C.: 0.01° and Coarser) - All Quadrant's	Using Angle Gauge Block Set by Comparison Method	0° - 90° - 0 °	3 minute of arc
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Template, Centre Gauge, Chamfer Gauge, Cross Hatch Cutter, Drill Angle Gauge, Drill Point Gauge - Angle (All Quadrant's)	Using Profile Projector by Comparison Method	0° to 180°	6 minute of arc
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor, Universal Protractor, Angle Protractor, Digital Protractor (L.C.: 1 minute and Coarser) - All Quadrant's	Using Angle Gauge Block Set by Comparison Method	0°-90°-0°	3 minute of arc

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192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge with Dial Indicator - Transmission Error (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1 mm	4 µm
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Dial / Digital / Analog / Vernier (L.C.: 0.01 mm)	Using Gauge Block Set, Long Slip Gauges, Slip Gauge Accessories by Comparison Method	0 to 1000 mm	17 µm
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Dial / Digital / Analog / Vernier (L.C.: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 150 mm	10 µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Dial / Digital / Analog / Vernier (L.C.: 0.01 mm)	Using Gauge Block Set and Long Slip Gauges, Slip Gauge Accessories by Comparison Method	0 to 150 mm	9.1 µm
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Dial / Digital / Analog / Vernier (L.C.: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 300 mm	11.5 µm
197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Dial / Digital / Analog / Vernier (L.C.: 0.01 mm)	Using Gauge Block Set, Long Slip Gauges, Slip Gauge Accessories by Comparison Method	0 to 600 mm	13.1 µm

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198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Dial / Digital / Analog / Vernier (L.C.: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 600 mm	14 µm
199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Dial / Digital / Analog / Vernier (L.C.: 0.01 mm)	Using Gauge Block Set, Long Slip Gauges, Slip Gauge Accessories by Comparison Method	0 to 300 mm	10 µm
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.0001 mm)	Using Thickness Foils by Comparison Method	10 µm to 100 µm	1.5 µm
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.001 mm)	Using Thickness Foils by Comparison Method	10 µm to 1999 µm	2.5 µm
202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set (L.C.: 1°) - All Quadrant's	Using Angle Gauge Block Set by Comparison Method	0° to 180°	35 minute of arc
203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using Digital Plunger Dial Gauge (L.C. 0.1µm) by Comparison Method	Up to 300 mm X 300 mm	3.2 µm

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204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter - Pitch	Using Profile Projector by Comparison Method	0.05 mm to 3 mm	12.3 µm
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Degree Protractor (L.C.: 0.01°)	Using Angle Gauge Block Set by Comparison Method	0° - 90° - 0°	3 minute of arc
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Dial Type), Dial Depth Gauge (L.C.: 0.001 mm)	Using Gauge Block Set, Long Slip Gauges, Surface Plate by Comparison Method	0 to 300 mm	6.5 µm
207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm)	Using Gauge Block Set, Long Slip Gauges, Surface Plate by Comparison Method	0 to 300 mm	6.5 µm
208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Gauge (L.C.: 0.01 mm)	Using Gauge Block Set, Long Slip Gauges, Surface Plate by Comparison Method	0 to 300 mm	15 µm
209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge, Thickness Gauge (Jewel Type), Digital Thickness Gauge, Rubber Thickness Gauge (L.C.: 0.001 mm)	Using Gauge Block Set by Comparison Method	0 to 25 mm	1.5 µm

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210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge, Thickness Gauge (Jewel Type), Digital Thickness Gauge, Rubber Thickness Gauge (L.C.: 0.01 mm)	Using Gauge Block Set by Comparison Method	0 to 100 mm	6.8 µm
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge, Thickness Gauge (Jewel Type), Digital Thickness Gauge, Rubber Thickness Gauge (L.C.: 0.01 mm)	Using Gauge Block Set by Comparison Method	0 to 25 mm	6.8 µm
212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer, Outside Micrometer (L.C.: 0.001 mm)	Using Gauge Block Set and Long Slip Gauges, Optical Flat by Comparison Method	0 to 150 mm	3 µm
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer, Outside Micrometer (L.C.: 0.001 mm)	Using Gauge Block Set, Optical Flat by Comparison Method	0 to 25 mm	1.3 µm
214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer, Outside Micrometer (L.C.: 0.001 mm)	Using Gauge Block Set and Long Slip Gauges, Optical Flat by Comparison Method	> 150 mm to 300 mm	4.1 µm
215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer, Outside Micrometer (L.C.: 0.001 mm)	Using Gauge Block Set, Long Slip Gauges, Optical Flat by Comparison Method	> 300 mm to 1000 mm	9.3 µm

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216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Direct Method	0.03 mm to 1 mm	4 µm
217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge, Shim	Using Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand by Comparison Method	> 2 mm to 5 mm	2 µm
218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge, Shim	Using Digital Plunger Dial Gauge (L.C.: 0.1 µm) and Comparator Stand by Comparison Method	0.01 mm to 2 mm	1.8 µm
219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Fillet Welding Gauge (Convex and Concave) - Radius	Using Profile Projector by Comparison Method	0.5 mm to 25 mm	12.4 µm
220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foil	Using Digital Plunger Dial Gauge (L.C.: 0.1 µm) and Comparator Stand by Comparison Method	0.01 mm to 12 mm	1.8 µm
221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Dial Indicator (L.C.: 0.1 µm) by Comparison Method	Up to 100 µm	1.4 µm

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222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker, Surface Plate by Comparison Method	0 to 600 mm	13.6 µm
223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Gauge Block Set, Long Slip Gauge, Surface Plate by Comparison Method	0 to 600 mm	12 µm
224	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Digital Caliper, Inside Dial Caliper, Inside Pistol Caliper, Inside Groove Caliper (L.C.: 0.01 mm)	Using Gauge Block Set with Slip Gauge Accessories, External Micrometer (L.C.: 1 µm) by Comparison Method	5 mm to 300 mm	8.4 µm
225	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Stick Type), Tubular Inside Micrometer (L.C.: 0.001 mm)	Using Gauge Block Set, Long Slip Gauge, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand, Surface Plate by Comparison Method	200 mm to 1000 mm	10.5 µm
226	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Stick Type), Tubular Inside Micrometer (L.C.: 0.001 mm)	Using Gauge Block Set, Long Slip Gauge, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand, Surface Plate by Comparison Method	200 mm to 2100 mm	20.6 µm

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227	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Stick Type), Tubular Inside Micrometer (L.C.: 0.01 mm)	Using Gauge Block Set, Long Slip Gauge with Slip Gauge Accessories, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand, Surface Plate, External Micrometer (L.C.: 1 µm) by Comparison Method	25 mm to 300 mm	7.5 µm
228	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Stick Type), Tubular Inside Micrometer (L.C.: 0.01 mm)	Using Gauge Block Set, Long Slip Gauge, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand, Surface Plate by Comparison Method	25 mm to 1000 mm	10.9 µm
229	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Stick Type), Tubular Inside Micrometer (L.C.: 0.01 mm)	Using Gauge Block Set, Long Slip Gauge, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand, Surface Plate by Comparison Method	25 mm to 2100 mm	21.4 µm
230	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer - Caliper Type (L.C.: 0.001 mm)	Using Gauge Block Set with Slip Gauge Accessories by Comparison Method	5 mm to 100 mm	3 µm

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231	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer - Caliper Type (L.C.: 0.01 mm)	Using Gauge Block Set with Slip Gauge Accessories by Comparison Method	5 mm to 300 mm	7.9 µm
232	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge, Lever Dial Indicator (L.C.: 0.002 mm)	Using Dial Calibration Tester by Comparison Method	0 to 0.8 mm	2.1 µm
233	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge, Lever Dial Indicator (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1.6 mm	3.5 µm
234	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge, Lever Type Dial Indicator (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 0.14 mm	1.8 µm
235	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Setting Disc - Diameter	Using Gauge Block Set, Long Slip Gauge, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand by Comparison Method	> 100 mm to 225 mm	2.8 µm
236	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Setting Disc - Diameter	Using Gauge Block Set, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand by Comparison Method	> 25 mm to 100 mm	2 µm

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237	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Setting Disc - Diameter	Using Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand by Comparison Method	3 mm to 25 mm	1.8 µm
238	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin Gauge, Measuring Cylindrical Pin	Using Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand by Comparison Method	0.1 mm to 20 mm	1.8 µm
239	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale, Dip Rod Scale, Scale, Ruler (L.C.: 0.5 mm and coarser)	Using Tape and Scale Measuring Machine by Comparison Method	0 to 1000 mm	147.2 µm
240	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale, Dip Rod Scale, Scale, Ruler (L.C.: 1 mm and coarser)	Using Tape and Scale Measuring Machine by Comparison Method	0 to 2000 mm	205.5 x Sqrt (L) µm, where L is in meter
241	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape, Dip Tape (L.C.: 1 mm)	Using Tape and Scale Measuring Machine by Comparison Method	0 to 100 m	98.6 x Sqrt (L) µm, where L is in meter
242	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Gauge Block Set, Long Slip Gauges, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand, Surface Plate by Comparison Method	> 150 mm to 300 mm	3.5 µm

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243	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Gauge Block Set, Long Slip Gauges, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand, Surface Plate by Comparison Method	> 300 mm to 500 mm	6.4 µm
244	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Gauge Block Set, Long Slip Gauges, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand, Surface Plate by Comparison Method	> 500 mm to 800 mm	8.9 µm
245	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Gauge Block Set, Long Slip Gauges, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand, Surface Plate by Comparison Method	> 800 mm to 1000 mm	10.5 µm
246	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Gauge Block Set, Long Slip Gauges, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand, Surface Plate by Comparison Method	25 mm to 150 mm	2.5 µm

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247	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Digital Caliper, Outside Dial Caliper, Outside Pistol Caliper, Outside Groove Caliper (L.C.: 0.01 mm)	Using Gauge Block Set by Comparison Method	0 to 300 mm	8.3 µm
248	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pick Glass Scale (L.C.: 0.1 mm and Coarser) - Scale Length	Using Profile Projector by Comparison Method	0 to 51 mm	31.4 µm
249	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape, Circumference Tape (L.C.: 0.02 mm and Coarser)	Using Tape and Scale Measuring Machine by Comparison Method	0 to 25.9182 m	90 x Sqrt (L) µm, where L is in meter
250	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge Set - Pitch	Using Profile Projector by Comparison Method	0.05 mm to 7 mm	12.4 µm
251	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge Set, Protractor (Geometric Box) - Angle (All Quadrant's)	Using Profile Projector by Comparison Method	0 ° to 180 °	3 minute of arc

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252	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge - Diameter	Using Gauge Block Set, Long Slip Gauge, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand by Comparison Method	> 100 mm to 225 mm	2.8 µm
253	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge - Diameter	Using Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand by Comparison Method	1 mm to 25 mm	1.8 µm
254	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge - Diameter	Using Gauge Block Set, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand by Comparison Method	25 mm to 100 mm	2 µm
255	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge, Plunger Dial Indicator (L.C.: 0.001 mm)	Using Gauge Block Set and Comparator Stand by Comparison Method	0 to 25 mm	2.1 µm
256	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge, Plunger Dial Indicator (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	2.5 µm
257	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge, Plunger Dial Indicator (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	6.3 µm

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258	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge, Plunger Dial Indicator (L.C.: 0.01 mm)	Using Gauge Block Set and Comparator Stand by Comparison Method	0 to 25 mm	7 µm
259	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Indicator, Plunger Dial Gauge (L.C.: 0.0001 mm)	Using Gauge Block Set and Comparator Stand by Comparison Method	0 to 25 mm	1.3 µm
260	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Indicator, Plunger Dial Gauge (L.C.: 0.01 mm)	Using Gauge Block Set and Comparator Stand by Comparison Method	0 to 100 mm	8 µm
261	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Indicator, Plunger Dial Gauge (L.C.: 0.01 mm)	Using Gauge Block Set and Comparator Stand by Comparison Method	0 to 50 mm	7.5 µm
262	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge Set, Profile Gauge, Template - Radius (Convex & Concave)	Using Profile Projector by Comparison Method	0.5 mm to 25 mm	12.4 µm
263	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge Set, Profile Gauge, Template - Radius (Convex & Concave)	Using Profile Projector by Comparison Method	25 mm to 100 mm	12.4 µm

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264	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar - Angle	Using Angle Gauges, Dial Indicator (L.C.: 0.1 µm) by Comparison Method	0° to 90°	5.1 second of arc
265	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar - Centre Distance	Using Slip Gauge Set, Dial Indicator (L.C.: 0.1 µm) by Comparison Method	Up to 300 mm	5.6 µm
266	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar - Parallelism	Using Surface Plate, Dial Indicator (L.C. 0.1µm) by Comparison Method	Up to 300 mm	5.6 µm
267	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Block Set, Long Slip Gauge Set by Comparison Method	3 mm to 300 mm	6.9 µm
268	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step Block, Height Block - Height	Using Gauge Block Set and Long Slip Gauges, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand, Surface Plate by Comparison Method	0.5 mm to 300 mm	3.5 µm
269	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Precision Level by Comparison Method	Up to 1000 mm X 1000 mm	3 x Sqrt {(L+W) / 125} µm, Where L and W are in mm

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270	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Slot Gauge - Depth (L.C.: 0.01 mm and Coarser)	Using Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand by Comparison Method	0 to 15 mm	7.2 µm
271	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Slot Gauge - Depth (L.C.: 0.01 mm and Coarser)	Using Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand, Gauge Block Set by Comparison Method	0 to 40 mm	7.2 µm
272	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by Comparison Method	0.025 mm to 4 mm	5 µm
273	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Caliper by Comparision Method	4 mm to 125 mm	20 µm
274	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.01 mm and Coarser)	Using Gauge Block Set and Long Slip Gauge Set by Comparison Method	0 to 100 mm	11.2 µm
275	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.1 mm)	Using Gauge Block Set and Long Slip Gauge Set by Comparison Method	0 to 300 mm	111.7 µm

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276	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Gauge (Leaf or Sheet Type), Set Square (L.C.: 1°)	Using Profile Projector by Comparison Method	0 ° to 180 °	35.23 minute of arc
277	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Gauge - Linear (L.C.: 0.5 mm and Coarser)	Using Profile Projector by Comparison Method	0 to 100 mm	0.144 mm
278	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge - Size Variation	Using Gauge Block Set, Long Slip Gauges, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand by Comparison Method	0.5 mm to 300 mm	3.5 µm
279	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge - Diameter	Using Profile Projector by Comparison Method	0.125 mm to 8.25 mm	12.7 µm
280	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (L.C.: 0.0002 mm)	Using Gauge Block Set, Comparator Stand by Comparison Method	0 to 25 mm	1.3 µm
281	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (L.C.: 0.0002 mm)	Using Dial Indicator (L.C.: 0.1 µm) by Comparison Method	0 to 25 mm	1.5 µm

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282	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L.C.: 0.0001 mm)	Using Gauge Block Set, Long Slip Gauge, Surface Plate by Comparison Method	0 to 600 mm	7.5 µm
283	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L.C.: 0.0001 mm)	Using Caliper Checker, Surface Plate by Comparison Method	0 to 600 mm	8 µm
284	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Squareness (L.C.: 0.0001 mm)	Using Granite Square Master, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Surface Plate by Comparison Method	0 to 600 mm	11.8 µm
285	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT Probe, Digital Probe, Digital Dial Gauge, Digital Plunger Dial Indicator, Electronic Probe with Display Unit or DRO (L.C.: 0.0001 mm)	Using Gauge Block Set, Comparator Stand by Comparison Method	0 to 25 mm	1.3 µm
286	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Head (L.C.: 0.0002 mm)	Using Gauge Block Set, Comparator Stand by Comparison Method	0 to 25 mm	1.3 µm
287	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Head (L.C.: 0.0002 mm)	Using Digital Plunger Dial Gauge (L.C.: 0.1 µm), Comparator Stand by Comparison Method	0 to 25 mm	1.5 µm
288	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Gauge Block and Digital Caliper by Comparison Method	10 X to 100 X	1 %

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289	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine - Angular (L.C.: 0.01 second of arc and Coarser)	Using Standard Angular Gauge Block By Comparison Method	0 ° to 360 °	1.9 minute of arc
290	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine - Linear (L.C.: 0.001 mm and Coarser)	Using Linear Glass Scale by Comparison Method	0 to 200 mm	4.3 µm
291	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibration Machine, Tape & Scale Calibrator (L.C.: 0.001 mm)	Using Gauge Block Set & Long Slip Gauge Set by Comparison Method	0 to 1000 mm	10.2 µm
292	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Barometer, Atmospheric Pressure Indicator, Atmospheric Pressure Calibrator, Manometer, Barometric Transmitter with Electrical Output - Pneumatic Pressure	Using Pneumatic Pressure Pump, Pressure Calibrator, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	700 mbar (abs) to 1200 mbar (abs)	0.2 mbar (abs)
293	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Recorder - Absolute Pressure	Using Pneumatic Pressure Source (Nitrogen Gas Cylinder), Digital Pressure Gauge, Digital Multimeter by Comparison Method as per DKD-R 6-1	0.014 bar (abs) to 70 bar (abs)	0.05 bar (abs)

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294	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Recorder, Manometer - Pneumatic Absolute Pressure	Using Pneumatic Pressure Dead Weight Tester, Digital Multimeter by Direct Method as per DKD-R 6-1	0.014 bar (abs) to 30 bar (abs)	0.003 bar (abs)
295	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transducer, Pressure Switch, Pressure Recorder, Pressure Transmitter with Electrical Output - Pneumatic Pressure	Using Pneumatic Pressure Source (Nitrogen Gas Cylinder), Digital Pressure Gauge, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 40 bar	0.007 bar
296	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transducer, Pressure Switch, Pressure Recorder, Pressure Transmitter with Electrical Output - Pneumatic Pressure	Using Pneumatic Hand Pressure Pump, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 2 bar	0.0003 bar

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297	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transducer, Pressure Switch, Pressure Recorder, Pressure Transmitter with Electrical Output - Pneumatic Pressure	Using Pneumatic Hand Pressure Pump, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.002 bar
298	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transducer, Pressure Switch, Pressure Recorder, Pressure Transmitter with Electrical Output - Pneumatic Pressure	Using Pneumatic Pressure Source (Nitrogen Gas Cylinder), Digital Pressure Gauge, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 70 bar	0.018 bar
299	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer - Pneumatic Differential Pressure	Using Low Pressure Pump, Differential Pressure Module with Indicator, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	(-) 40 kPa to 40 kPa	0.005 kPa

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300	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Recorder, Pressure Switch with Electrical Output - Hydraulic Pressure	Using Hydraulic Pressure Dead Weight Tester, Digital Multimeter by Direct Method as per DKD-R 6-1	20 bar to 1200 bar	0.01 % rdg
301	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Recorder, Pressure Switch with Electrical Output - Hydraulic Pressure	Using Hydraulic Pressure Dead Weight Tester, Digital Multimeter by Direct Method as per DKD-R 6-1	3 bar to 35 bar	0.01 % rdg

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302	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Recorder, Pressure Switch with Electrical Output - Pneumatic Low Pressure	Using Low Pressure Pump, Low Pressure Calibrator, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 400 mbar	0.05 mbar
303	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Recorder, Pressure Switch with Electrical Output - Pneumatic Pressure	Using Pneumatic Pressure Dead Weight Tester, Digital Multimeter by Direct Method as per DKD-R 6-1	3 bar to 35 bar	0.01 %rdg
304	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Transmitter, Pressure Transducer, Pressure Recorder, Pressure Switch with Electrical Output - Hydraulic Pressure	Using Hydraulic Pressure Pump, Digital Pressure Gauge, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 350 bar	0.047 bar

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305	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Transmitter, Pressure Transducer, Pressure Recorder, Pressure Switch with Electrical Output - Hydraulic Pressure	Using Hydraulic Pressure Pump, Digital Pressure Gauge, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.085 bar
306	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Gauge, Vacuum Indicator, Vacuum Calibrator, Vacuum Controller, Vacuum Transmitter, Vacuum Transducer, Manometer, Vacuum Recorder, Vacuum Switch with Electrical Output - Pneumatic Low Vacuum	Using Low Pressure Pump, Low Pressure Calibrator, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	(-) 400 mbar to 0 mbar	0.05 mbar
307	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Gauge, Vacuum Indicator, Vacuum Calibrator, Vacuum Controller, Vacuum Transmitter, Vacuum Transducer, Vacuum Recorder ,Vacuum Switch with Electrical Output - Pneumatic Pressure	Using Pneumatic Hand Pressure Pump, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	(-) 1 bar to 0 bar	0.0006 bar

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308	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Gauge, Vacuum Indicator, Vacuum Calibrator, Vacuum Controller, Vacuum Transmitter, Vacuum Transducer, Vacuum Recorder, Vacuum Switch with Electrical Output - Pneumatic Pressure	Using Pneumatic Pressure / Vacuum Dead Weight Tester, Digital Multimeter by Direct Method as per DKD-R 6-1	(-) 100 mbar to (-) 1000 mbar	0.01 %rdg
309	MECHANICAL-PRESSURE INDICATING DEVICES	Analog, Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Recorder, Manometer - Pneumatic Absolute Pressure	Using Pneumatic Hand Pressure Pump, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0.014 bar (abs) to 21 bar (abs)	0.0032 bar (abs)
310	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog - Differential Pressure Gauge, Pressure Gauge, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer - Pneumatic Differential Pressure	Using Low Pressure Pump, Differential Low Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 490 Pa	0.38 Pa

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311	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog - Differential Pressure Gauge, Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer - Pneumatic Differential Pressure	Using Low Pressure Pump, Differential Low Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 1034 Pa	0.35 Pa
312	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog - Differential Pressure, Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer - Pneumatic Differential Pressure	Using Low Pressure Pump, Differential Low Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 2068 Pa	1.42 Pa
313	MECHANICAL-TORQUE GENERATING DEVICES	Indicating Torque Tool (Type I - Class A to Class C), Setting Torque Tool (Type II - Class A to Class C, Class G)	Using Torque Wrench Calibration System with Torque Sensors and Digital Torque Indicator as per ISO 6789-1:2017 and ISO 6789-2:2017	100 Nm to 400 Nm	0.6 % rdg
314	MECHANICAL-TORQUE GENERATING DEVICES	Indicating Torque Tool (Type I - Class A to Class C), Setting Torque Tool (Type II - Class A to Class C, Class G)	Using Torque Wrench Calibration System with Torque Sensors and Digital Torque Indicator as per ISO 6789-1:2017 and ISO 6789-2:2017	20 Nm to 100 Nm	0.9 % rdg

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315	MECHANICAL-TORQUE GENERATING DEVICES	Indicating Torque Tool (Type I - Class A to Class C), Setting Torque Tool (Type II - Class A to Class C, Class G)	Using Torque Wrench Calibration System with Torque Sensors and Digital Torque Indicator as per ISO 6789-1:2017 and ISO 6789-2:2017	400 Nm to 2000 Nm	0.61 % rdg
316	MECHANICAL-TORQUE GENERATING DEVICES	Indicating Torque Tool (Type I - Class A to Class E), Setting Torque Tool (Type II - Class A to Class G)	Using Torque Wrench Calibration System with Torque Sensors and Digital Torque Indicator as per ISO 6789-1:2017 and ISO 6789-2:2017	0.5 Nm to 5 Nm	3.08 % rdg
317	MECHANICAL-TORQUE GENERATING DEVICES	Indicating Torque Tool (Type I - Class A to Class E), Setting Torque Tools (Type II - Class A to Class G)	Using Torque Wrench Calibration System with Torque Sensors and Digital Torque Indicator as per ISO 6789-1:2017 and ISO 6789-2:2017	5 Nm to 20 Nm	1.22 % rdg
318	MECHANICAL-VOLUME	Dispenser	Using Weighing Balance (Readability : 0.1 mg), Distilled Water by Gravimetric Method as per ISO 8655-6:2022(E) & ISO 8655-5:2022	> 50 ml to 100 ml	0.08 ml

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319	MECHANICAL-VOLUME	Measuring Jug, Beaker	Using Weighing Balance (Readability : 2 mg), Distilled Water by Gravimetric Method as per ISO 4787:2021(E)	> 5000 ml to 10000 ml	3 ml
320	MECHANICAL-VOLUME	Measuring Jug, Measuring Cylinder, Beaker	Using Weighing Balance (Readability : 10 mg), Distilled Water by Gravimetric Method as per ISO 4787:2021(E)	> 1000 ml to 2000 ml	0.5 ml
321	MECHANICAL-VOLUME	Measuring Jug, Measuring Cylinder, Beaker	Using Weighing Balance (Readability : 10 mg), Distilled Water by Gravimetric Method as per ISO 4787:2021(E)	> 2000 ml to 5000 ml	1.5 ml
322	MECHANICAL-VOLUME	Measuring Jug, Measuring Cylinder, Burette, Flask, Beaker	Using Weighing Balance (Readability : 0.01 mg), Distilled Water by Gravimetric Method as per ISO 4787:2021(E)	> 50 ml to 100 ml	0.3 ml
323	MECHANICAL-VOLUME	Measuring Jug, Measuring Cylinder, Burette, Flask, Beaker	Using Weighing Balance (Readability : 0.01 mg), Distilled Water by Gravimetric Method as per ISO 4787:2021(E)	1 ml to 50 ml	3 µl

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324	MECHANICAL-VOLUME	Measuring Jug, Measuring Cylinder, Flask, Beaker	Using Weighing Balance (Readability : 0.1 mg), Distilled Water by Gravimetric Method as per ISO 4787:2021(E)	> 100 ml to 1000 ml	0.3 ml
325	MECHANICAL-VOLUME	Non Medical Syringe (Delivery of Liquid), Micro Pipette	Using Weighing Balance (Readability : 0.01 mg), Distilled Water by Gravimetric Method as per ISO 8655-6:2022(E)	> 1000 µl to 10000 µl	50 µl
326	MECHANICAL-VOLUME	Non Medical Syringe (Delivery of Liquid), Micro Pipette	Using Weighing Balance (Readability : 0.01 mg), Distilled Water by Gravimetric Method as per ISO 8655-6:2022(E)	> 100 µl to 1000 µl	2 µl
327	MECHANICAL-VOLUME	Non Medical Syringe (Delivery of Liquid), Micro Pipette	Using Weighing Balance (Readability : 0.001 mg), Distilled Water by Gravimetric Method as per ISO 8655-6:2022(E)	10 µl to 100 µl	0.4 µl
328	MECHANICAL-VOLUME	Piston Operated Burette, Dispenser	Using Weighing Balance (Readability : 0.1 mg), Distilled Water by Gravimetric Method as per ISO 8655-6:2022(E), ISO 8655-3:2022 & ISO 8655-5:2022	> 10 ml to 50 ml	0.05 ml

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329	MECHANICAL-VOLUME	Piston Operated Burette, Dispenser	Using Weighing Balance (Readability : 0.01 mg), Distilled Water by Gravimetric Method as per ISO 8655-6:2022(E), ISO 8655-3:2022 & ISO 8655-5:2022	1 ml to 10 ml	0.03 ml
330	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I & Coarser (Readability : 0.0001 g)	Using E1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 5 kg	0.9 mg
331	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I & Coarser (Readability : 0.0001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 6 g	0.005 mg
332	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I & Coarser (Readability : 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 50 g	0.005 mg
333	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I & Coarser (Readability : 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 200 g	0.027 mg
334	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I & Coarser (Readability : 1 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 1 kg	1.1 mg

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335	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I & Coarser (Readability : 2 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 50 kg	20 mg
336	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class II & Coarser (Readability : 10 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 6 kg	11 mg
337	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class III & Coarser (Readability : 5g)	Using F1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 75 kg	4 g
338	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class IIII (Readability : 20 g)	Using F1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 200 kg	20 g
339	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class IIII (Readability : 20 g)	Using F1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 500 kg	20 g
340	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	1 mg	0.0006 mg

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341	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	1 g	0.0006 mg
342	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1:2004	1 mg	0.0005 mg
343	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	10 g	0.003 mg
344	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1:2004	10 mg	0.0005 mg

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345	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	10 mg	0.0006 mg
346	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Weighing Balance (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	100 g	0.014 mg
347	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1:2004	100 mg	0.0005 mg
348	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	100 mg	0.0006 mg

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349	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	2 g	0.0006 mg
350	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1:2004	2 mg	0.0005 mg
351	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	2 mg	0.0006 mg
352	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	20 g	0.003 mg

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353	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1:2004	20 mg	0.0005 mg
354	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	20 mg	0.0006 mg
355	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Weighing Balance (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	200 g	0.021 mg
356	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1:2004	200 mg	0.0005 mg

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357	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	200 mg	0.0006 mg
358	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	5 g	0.0015 mg
359	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1:2004	5 mg	0.0005 mg
360	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	5 mg	0.0006 mg

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361	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	50 g	0.005 mg
362	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1:2004	50 mg	0.0005 mg
363	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	50 mg	0.0006 mg
364	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1:2004	500 mg	0.0005 mg

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365	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	500 mg	0.0006 mg
366	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	1 kg	0.3 mg
367	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.002 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	10 kg	3 mg
368	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	2 kg	0.4 mg

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369	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.002 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	20 kg	7 mg
370	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	5 kg	1 mg
371	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.002 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	50 kg	17 mg
372	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Mass Comparator (Readability : 0.0001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	500 g	0.2 mg

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373	THERMAL-SPECIFIC HEAT & HUMIDITY	Portable Temperature Indicator / Recorder / Logger	Using Standard RTD, Precision Temperature Scanner with Data Monitoring System and Temperature Chamber by Comparison Method	(-) 30 °C to 85 °C	0.13 °C
374	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Test / Calibration Chamber, Environment Test Chamber / Room, Climatic Test / Calibration Chamber / Room @ 23°C to 50°C - Multi Position (Minimum 9 Sensors)	Using Temperature & Humidity Recorder with Data Monitoring System by Comparison Method	10 % RH to 95 % RH	1.86 % RH
375	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Test / Calibration Chamber, Environment Test Chamber / Room, Climatic Test / Calibration Chamber / Room @ 25°C - Multi Position (Minimum 9 Sensors)	Using Temperature & Humidity Recorder with Data Monitoring System by Comparison Method	10 % RH to 95 % RH	1.7 % RH

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376	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Test / Calibration Chamber, Environment Test Chamber / Room, Climatic Test / Calibration Chamber / Room @ 50%RH - Multi Position (Minimum 9 Sensors)	Using Temperature & Humidity Recorder with Data Monitoring System by Comparison Method	5 °C to 50 °C	0.85 °C
377	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo hygrometer with Internal Sensor, Digital Humidity Meter, Humidity Sensor with Indicator, Humidity Transmitter with Indicator, Temperature & Humidity Recorder @ 50% RH	Using Standard Digital RH & Temperature Indicator with Sensor, Precision Digital Multimeter, Stable Relative Humidity & Temperature Chamber by Comparison Method	5 °C to 50 °C	0.2 °C
378	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo hygrometer with Internal Sensor, Digital Humidity Meter, Temperature Humidity Sensor with Indicator, Temperature Humidity Transmitter, Temperature & Humidity Recorder @ 23°C to 50°C	Using Digital RH & Temperature Indicator with Sensor, Precision Digital Multimeter and Stable Relative Humidity & Temperature Chamber by Comparison Method	10 % RH to 95 % RH	1.88 % RH

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379	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo hygrometer with Internal Sensor, Digital Humidity Meter, Temperature Humidity Sensor with Indicator, Temperature Humidity Transmitter, Temperature & Humidity Recorder @ 25 °C	Using Digital RH & Temperature Indicator with Sensor, Precision Digital Multimeter, Stable Relative Humidity & Temperature Chamber by Comparison Method	10 % RH to 95 % RH	0.7 % RH
380	THERMAL-TEMPERATURE	Indicator with Sensor of Temperature Dry Block Calibrator, Temperature Furnace -Single Position	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner by Comparison Method	280 °C to 660 °C	0.12 °C
381	THERMAL-TEMPERATURE	Indicator with Sensor of Temperature Dry Block Calibrator, Temperature Furnace -Single Position	Using S Type Thermocouple Sensor, Precision Temperature Scanner by Comparison Method	660 °C to 1200 °C	1.72 °C
382	THERMAL-TEMPERATURE	Indicator with Sensor of Temperature Liquid Bath Calibrator, Temperature Dry Block Calibrator - Single Position	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner by Comparison Method	140 °C to 280 °C	0.02 °C

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383	THERMAL-TEMPERATURE	Indicator with Sensor of Temperature Liquid Bath Calibrator, Temperature Water Bath, Temperature Dry Block Calibrator - Single Position	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner by Comparison Method	(-) 95 °C to 140 °C	0.01 °C
384	THERMAL-TEMPERATURE	Infrared Thermometer, Infrared Temperature Sensor / Transmitter, Thermal Imaging Camera (Only Temperature) (Emissivity @ 0.95)	Using Non Contact Infrared Thermometer, Precision Digital Multimeter, Black Body Source by Comparison Method	> 100 °C to 500 °C	2.32 °C
385	THERMAL-TEMPERATURE	Infrared Thermometer, Infrared Temperature Sensor / Transmitter, Thermal Imaging Camera (Only Temperature) (Emissivity @ 0.95)	Using Standard RTD Temperature Sensor, Precision Temperature Scanner, Precision Digital Multimeter, Black Body Source by Comparison Method	(-) 20 °C to 100 °C	0.58 °C
386	THERMAL-TEMPERATURE	Infrared Thermometer, Infrared Temperature Sensor / Transmitter, Thermal Imaging Camera (Only Temperature) (Emissivity @ 0.95)	Using Non Contact Infrared Thermometer, Precision Digital Multimeter, Black Body Source by Comparison Method	(-) 20 °C to 100 °C	1 °C

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387	THERMAL-TEMPERATURE	Infrared Thermometer, Infrared Temperature Sensor / Transmitter, Thermal Imaging Camera (Only Temperature) (Emissivity @ 0.95)	Using S - Type Thermocouple Sensor, Precision Temperature Scanner, Precision Digital Multimeter, Black Body Source by Comparison Method	> 100 °C to 500 °C	2.12 °C
388	THERMAL-TEMPERATURE	Infrared Thermometer, Infrared Temperature Sensor / Transmitter, Thermal Imaging Camera (Only Temperature) (Emissivity @ 0.99)	Using S Type Thermocouple Sensor, Precision Temperature Scanner, Precision Digital Multimeter, Black Body Source by Comparison Method	> 500 °C to 1200 °C	5.66 °C
389	THERMAL-TEMPERATURE	Infrared Thermometer, Infrared Temperature Sensor / Transmitter, Thermal Imaging Camera (Only Temperature) (Emissivity @ 0.99)	Using Non Contact Infrared Thermometer, Precision Digital Multimeter, Black Body Source by Comparison Method	> 500 °C to 1200 °C	7.36 °C
390	THERMAL-TEMPERATURE	Liquid-In-Glass Thermometer	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner, Liquid Bath by Comparison Method	(-) 80 °C to 0 °C	0.62 °C

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391	THERMAL-TEMPERATURE	Liquid-In-Glass Thermometer	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner, Liquid Bath by Comparison Method	0 °C to 150 °C	0.62 °C
392	THERMAL-TEMPERATURE	Liquid-In-Glass Thermometer	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner, Liquid Bath by Comparison Method	150 °C to 280 °C	0.62 °C
393	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, RTD with / without Indicator, Temperature Gauge, Temperature Sensor with Indicator, Digital Thermometer with Sensor, Temperature Switch / Controller	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner, Precision Digital Multimeter and Liquid Nitrogen bath by Comparison Method	(-) 196 °C	0.4 °C
394	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, RTD with / without Indicator, Temperature Gauge, Temperature Sensor with Indicator, Digital Thermometer with Sensor, Temperature Switch / Controller	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner, Precision Digital Multimeter and Dry Block Calibrator by Comparison Method	280 °C to 660 °C	0.16 °C

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395	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, RTD with / without Indicator, Temperature Gauge, Temperature Sensor with Indicator, Digital Thermometer with Sensor, Temperature Switch / Controller	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner, Precision Digital Multimeter and Dry Block Calibrator by Comparison Method	(-) 95 °C to 140 °C	0.03 °C
396	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, RTD with / without Indicator, Temperature Gauge, Temperature Sensor with Indicator, Digital Thermometer with Sensor, Temperature Switch / Controller	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner, Precision Digital Multimeter and Liquid Temperature Calibrator by Comparison Method	140 °C to 280 °C	0.02 °C
397	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, Temperature Gauge, Temperature Sensor with Indicator, Digital Thermometer with Sensor, Temperature Switch / Controller	Using S Type Thermocouple Sensor, Precision Temperature Scanner, Precision Digital Multimeter, Temperature Furnace Calibrator by Comparison Method	660 °C to 1200 °C	1.69 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, AC Active Energy @ (45 Hz to 65 Hz, 0.01 Lead / Lag to UPF, 40 V to 320 V, 1 mA to 100 A)	Using 3Ø Energy Reference Standard with Calibrator by Direct / Comparison Method	0.04 Wh to 32 kWh	0.0047 % to 0.4 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, AC Active Energy @ (45 Hz to 65 Hz, 0.01 Lead / Lag to UPF, 40 V to 320 V, 100 A to 120 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	40 Wh to 38.4 kWh	0.0047 % to 1.6 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Active Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.04 W to 32 kW	0.0047 % to 0.4 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Active Power @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	40 W to 38.4 kW	0.0047 % to 1.6 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Apparent Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.04 VAh to 32 kVAh	0.0047 % to 0.03 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Apparent Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	4 kVAh to 38.4 kVAh	0.0047 % to 0.0162 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Apparent Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.04 VA to 32 kVA	0.0047 % to 0.035 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Apparent Power @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	40 VA to 38.4 kVA	0.0047 % to 0.0162 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Reactive Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.04 VArh to 32 kVArh	0.03 % to 0.4 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Reactive Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	40 VArh to 38.4 kVArh	0.0047 % to 1.6 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Reactive Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.04 VAr to 32 kVAr	0.005 % to 0.4 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, 2 Wire, Reactive Power @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	40 VAr to 38.4 kVAR	0.0047 % to 1.6 %

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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 3 Wire, AC Active Energy @ (45 Hz to 65 Hz, 0.1 Lead / Lag to UPF, 40 V to 320 V, 10 mA to 120 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 Wh to 115.2 kWh	0.008 % to 0.16 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 3 Wire, Active Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 10 mA, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 W to 9.6 W	0.008 % to 0.8 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 3 Wire, Active Power @ (45 Hz to 65 Hz, 40 V to 320 V, 10 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.012 W to 115.2 kW	0.008 % to 1.6 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 3 Wire, Reactive Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 10 mA to 120 A, 0.1 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 VArh to 115.2 kVArh	0.008 % to 0.16 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 3 Wire, Reactive Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 10 mA, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.19 VAr to 9.6 VAr	0.008 % to 0.8 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 3 Wire, Reactive Power @ (45 Hz to 65 Hz, 40 V to 320 V, 10 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.012 VAr to 115.2 kVAr	0.008 % to 1.6 %

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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, AC Active Energy @ (45 Hz to 65 Hz, 0.01 Lead / Lag to UPF, 40 V to 320 V, 1 mA to 100 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 Wh to 96 kWh	0.0047 % to 0.4 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, AC Active Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 W to 96 kW	0.031 % to 0.4 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, AC Apparent Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 VA to 96 kVA	0.0047 % to 0.031 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, AC Reactive Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 VArh to 96 kVArh	0.0047 % to 0.4 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, AC Reactive Power @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 VAr to 96 kVAr	0.0047 % to 0.4 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Active Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	120 Wh to 115.2 kWh	0.0047 % to 1.6 %

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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)(±)
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Active Power @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	120 W to 115.2 kW	0.0047 % to 1.6 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Apparent Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 1 mA to 100 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.12 VAh to 96 kVAh	0.0047 % to 0.031 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Apparent Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	12 kVAh to 115.2 kVAh	0.0047 % to 0.0162 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Apparent Power @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	120 VA to 115.2 kVA	0.0047 % to 0.0162 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Reactive Energy @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	120 VArh to 115.2 kVArh	0.0047 % to 1.6 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3Ø, 4 Wire, Reactive Power @ (45 Hz to 65 Hz, 40 V to 320 V, 100 A to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	120 VAr to 115.2 kVAr	0.0047 % to 1.6 %

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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 8½ Digit Multimeter with MPC by Comparison Method	30 µA to 100 mA	0.11 % to 0.053 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 8½ Digit Multimeter by Direct Method	30 µA to 100 mA	0.11 % to 0.053 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 65 Hz	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	0.001 A to 100 A	0.045 % to 0.004 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 65 Hz	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	100 A to 120 A	0.004 % to 0.01 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Multimeter by Direct Method	100 mA to 1 A	0.053 % to 0.094 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Multimeter with MPC by Comparison Method	100 mA to 1 A	0.053 % to 0.094 %

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37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 5 kHz	Using 8½ Digit Multimeter by Direct Method	1 A to 20 A	0.094 % to 0.12 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 5 kHz	Using 8½ Digit Multimeter with MPC by Comparison Method	1 A to 20 A	0.094 % to 0.12 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @ 50 Hz	Using High Current to Low Current Conversion, STD Current Transformer & Low Current Measured at STD Meter with High Current Source by Direct / Comparison Method	100 A to 6000 A	0.065 % to 0.26 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Divider with kV Meter with HV Source by Direct / Comparison Method	1 kV to 100 kV	1.46 % to 1.47 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 10 kHz	Using 8½ Digit Multi Meter by Direct Method	1 mV to 100 mV	0.5 % to 0.018 %

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42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 10 kHz	Using 8½ Digit Multi Meter with MPC by Comparison Method	1 mV to 100 mV	0.54 % to 0.019 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 10 kHz	Using 8½ Digit Multi Meter by Direct Method	100 mV to 1000 V	0.018 % to 0.02 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 10 kHz	Using 8½ Digit Multi Meter with MPC by Comparison Method	100 mV to 1000 V	0.019 % to 0.02 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 65 Hz	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	30 V to 480 V	0.004 % to 0.002 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Precision LCR Meter with Decade Capacitance Box by Direct Method / Substitution Method	100 pF to 100 µF	0.1 % to 0.14 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 100 Hz	Using Precision LCR Meter with MPC by Direct Method / Substitution Method	1 mF to 100 mF	0.14 % to 0.19 %

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48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonics @ (50 Hz, 40 V to 240 V, 0.05 A to 10 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	1st order to 39th order	0.5 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using Precision LCR Meter with Decade Inductance Box by Direct Method / Substitution Method	100 µH to 10 H	0.1 % to 0.11 %
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ (50 Hz, 40 V to 480 V, 0.01 A to 100 A)	Using 3Ø Energy Reference Standard with Power Calibrator by Direct / Comparison Method	(-) 1 PF to 1 PF	0.00001 PF
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Resistance @ 1 kHz	Using Precision LCR Meter with Decade Resistance Box by Direct Method / Substitution Method	1 ohm to 10 kohm	0.1 % to 0.08 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Active Energy @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	40 mWh to 36 kWh	0.071 % to 1.61 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Active Power @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	40 mW to 36 kW	0.071 % to 1.61 %

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54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Reactive Energy @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	40 mVArh to 36 kVArh	0.071 % to 1.61 %
55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, 2 Wire, AC Reactive Power @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	40 mVAr to 36 kVAr	0.071 % to 1.61 %
56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 3 Wire, AC Active Energy @ (50 Hz, 63.5 V, 1 mA to 10 A, 0.5 Lag / 0.8 Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	95.25 mWh to 1.905 kWh	0.071 % to 0.061 %
57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 3 Wire, AC Reactive Energy @ (50 Hz, 63.5 V, 1 mA to 10 A, 0.5 Lag / 0.8 Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	95.25 mVArh to 1.905 kVArh	0.071 % to 0.061 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 4 Wire, AC Active Energy @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	120 mWh to 108 kWh	0.071 % to 1.61 %
59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 4 Wire, AC Active Power @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	120 mW to 108 kW	0.071 % to 1.61 %

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60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 4 Wire, AC Reactive Energy @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	120 mVArh to 108 kVArh	0.071 % to 1.61 %
61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 4 Wire, AC Reactive Power @ (45 Hz to 65 Hz, 40 V to 300 V, 1 mA to 120 A, 0.01 Lag / Lead to UPF)	Using 3Ø Power Calibrator by Direct Method	120 mVAr to 108 kVAr	0.071 % to 1.61 %
62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 65 Hz	Using 3Ø Power Calibrator by Direct Method	1 mA to 120 A	0.034 % to 0.025 %
63	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with 50 Turns Current Coil by Direct Method	20 A to 1000 A	0.5 % to 0.55 %
64	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	0.14 % to 0.087 %
65	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 mA to 20 A	0.087 % to 0.21 %
66	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	30 μA to 1 mA	0.58 % to 0.14 %

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67	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 1000 mH	0.6 % to 0.18 %
68	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	1 mV to 3 mV	1.7 % to 0.4 %
69	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	1 V to 1000 V	0.04 % to 0.063 %
70	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	0.06 % to 0.04 %
71	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	3 mV to 100 mV	0.4 % to 0.06 %
72	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	1 µF to 100 µF	1.8 % to 0.5 %
73	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	100 pF to 1 µF	0.7 % to 1.8 %

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74	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter and MPC by V/I Method	1 mohm to 100 mohm	0.056 % to 0.026 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter and MPC by V/I Method	10 µohm to 50 µohm	0.087 % to 0.057 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter and MPC by V/I Method	100 mohm to 1 ohm	0.011 % to 0.021 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter and MPC by V/I Method	50 µohm to 1 mohm	0.057 % to 0.056 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct Method	1 µA to 100 mA	0.05 % to 0.005 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter with MPC by Comparison Method	1 µA to 100 mA	0.053 % to 0.005 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct Method	1 A to 20 A	0.022 % to 0.047 %

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81	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter with MPC by Comparison Method	1 A to 20 A	0.022 % to 0.057 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct Method	100 mA to 1 A	0.005 % to 0.022 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter with MPC by Comparison Method	100 mA to 1 A	0.005 % to 0.022 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Divider with KV Meter with HV Source by Comparison Method	1 kV to 100 kV	2.21 % to 1.53 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct Method	0.1 mV to 1 mV	0.12 % to 0.014 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter with MPC by Comparison Method	0.1 mV to 1 mV	0.13 % to 0.016 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct Method	1 mV to 10 V	0.014 % to 0.0005 %

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88	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter with MPC by Comparison Method	1 mV to 10 V	0.016 % to 0.0005 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct Method	10 V to 1000 V	0.0005 % to 0.0007 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter with MPC by Comparison Method	10 V to 1000 V	0.0005 % to 0.0007 %
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter by Direct Method	1 ohm to 100 kohm	0.0027 % to 0.001 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter with MPC by Substitution Method	1 ohm to 100 kohm	0.0027 % to 0.001 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter with MPC by Substitution Method	10 Mohm to 100 Mohm	0.004 % to 0.017 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.0025 % to 0.017 %

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95	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter with MPC by Substitution Method	100 kohm to 10 Mohm	0.001 % to 0.004 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter by Direct Method	100 Mohm to 1000 Mohm	0.017 % to 0.1 %
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter by Direct Method	100 kohm to 10 Mohm	0.001 % to 0.0025 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 8½ Digit Multimeter with MPC by Substitution Method	100 Mohm to 1000 Mohm	0.017 % to 0.1 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter by Direct Method	1 mohm to 100 mohm	0.055 % to 0.011 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter with Resistance Box by Substitution Method	1 mohm to 100 mohm	5.8 % to 0.034 %
101	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter with MPC by Substitution Method	1 ohm to 100 kohm	0.021 % to 0.001 %

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102	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter by Direct Method	1 ohm to 100 kohm	0.021 % to 0.001 %
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter with Resistance Box by Substitution Method	10 µohm to 1 mohm	5 % to 5.8 %
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter by Direct Method	100 mohm to 1 ohm	0.011 % to 0.021 %
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 8½ Digit Multimeter with MPC by Substitution Method	100 mohm to 1 ohm	0.034 % to 0.021 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 µA to 10 µA	2.34 % to 0.35 %
107	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 µA to 100 mA	0.35 % to 0.016 %
108	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 mA to 20 A	0.016 % to 0.14 %

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109	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with 50 Turns Current Coil by Direct Method	20 A to 1000 A	0.4 %
110	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Megaohmbox Standard by Direct Method	100 kohm to 1000 Mohm	0.1 % to 0.21 %
111	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 1 kV	Using High Resistance Standard Box by Direct Method	10 Tohm	5.4 %
112	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ Up to 5 kV	Using Decade Mega Ohm Box Standard by Direct Method	10 Gohm to 1 Tohm	2.6 % to 4.3 %
113	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 100 mV	0.355 % to 0.01 %
114	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 mV to 1000 V	0.01 % to 0.008 %
115	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multi Product Calibrator by Direct Method	1 ohm to 10 kohm	0.07 % to 0.01 %

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116	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multi Product Calibrator by Direct Method	10 Mohm to 1000 Mohm	0.07 % to 1.74 %
117	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multi Product Calibrator by Direct Method	10 kohm to 10 Mohm	0.01 % to 0.07 %
118	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 mohm to 1 ohm	6 % to 0.072 %
119	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 ohm to 10 kohm	0.072 % to 0.01 %
120	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Low Resistance Standard by Direct Method	10 µohm to 1 ohm	0.64 % to 0.063 %
121	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT - VT Comparator / Bridge CT Mode - Phase Error (Min) Secondary Input - 1 A & 5 A	Using CT - PT Bridge by Comparison Method	120 % to 1 %	0.7 minute to 1.2 minute
122	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT - VT Comparator / Bridge CT Mode - Ratio Error (%) Secondary Input - 1 A & 5 A	Using CT - PT Bridge by Comparison Method	120 % to 1 %	0.013 % to 0.024 %

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123	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT - VT Comparator / Bridge PT Mode - Phase Error (Min) Secondary Input - 63.5 V & 110 V	Using CT - PT Bridge by Comparison Method	120 % to 80 %	0.8 minute to 0.9 minute
124	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT - VT Comparator / Bridge PT Mode - Ratio Error (%) Secondary Input - 63.5 V & 110 V	Using CT - PT Bridge by Comparison Method	120 % to 80 %	0.015 % to 0.016 %
125	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer - Phase Error (1 A to 3200 A with Secondary - 1 A & 5 A)	Using Standard CT & Comparator with Source Primary Injection by Comparison Method	120 % to 1 %	1.18 minute to 2.3 minute
126	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer - Phase Error (3200 A to 6000 A Primary with Secondary - 1 A & 5 A)	Using Standard CT & Comparator with Source Primary Injection by Comparison Method	120 % to 1 %	1.18 minute to 2.3 minute
127	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer - Ratio Error (1 A to 3200 A with Secondary - 1 A & 5 A)	Using Standard CT & Comparator with Source Primary Injection by Comparison Method	120 % to 1 %	0.025 % to 0.04 %
128	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer - Ratio Error (3200 A to 6000 A Primary with Secondary - 1 A & 5 A)	Using Standard CT & Comparator with Source Primary Injection by Comparison Method	120 % to 1 %	0.025 % to 0.04 %
129	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer Burden Box	Using Power Network Analyzer with Source by Direct Method	1 VA to 30 VA	0.07 % to 0.06 %

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130	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer / Capacitor Voltage Transformer - Phase Error (220 V / 110 V to 33 kV / 110 V with Secondary - 63.5 V & 110 V)	Using Standard PT & Comparator with Source Primary Injection by Comparison Method	120 % to 80 %	2.18 % to 2.3 %
131	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer / Capacitor Voltage Transformer - Ratio Error (220 V / 110 V to 33 kV / 110 V with Secondary - 63.5 V & 110 V)	Using Standard PT & Comparator with Source Primary Injection by Comparison Method	120 % to 80 %	0.07 %
132	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer Burden Box	Using Power Network Analyzer with Source by Direct Method	1.25 VA to 200 VA	0.07 % to 0.06 %
133	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Turn Ratio	Using 6½ Digit DMM & 8½ Digit Multimeter with Turn Ratio Standard by V/V Method	0.8 Turn to 2000 Turn	0.09 % to 0.23 %
134	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter (1 µS to 1000 mS)	Using Decade Resistance Box by Simulation Method	1 ohm to 1 Mohm	0.68 % to 0.6 %
135	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter (0 pH to 14 pH)	Using Multi Product Calibrator by Simulation Method	(-) 420 mV to 420 mV	0.3 %

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136	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using 8½ Digit Multimeter with MPC by Substitution Method	(-) 200 °C to 850 °C	0.02 °C
137	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100, PT 1000)	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 850 °C	0.018 °C
138	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 1000)	Using 8½ Digit Multimeter with MPC by Substitution Method	(-) 200 °C to 630 °C	0.02 °C
139	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	(-) 210 °C to 1200 °C	0.05 °C
140	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	600 °C to 1820 °C	0.124 °C
141	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B - Type	Using 8½ Digit Multimeter by Direct Method	600 °C to 1820 °C	0.12 °C
142	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E - Type	Using 8½ Digit Multimeter by Direct Method	(-) 250 °C to 1000 °C	0.08 °C

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143	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	(-) 250 °C to 1000 °C	0.09 °C
144	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J - Type	Using 8½ Digit Multimeter by Direct Method	(-) 210 °C to 1200 °C	0.046 °C
145	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K - Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1372 °C	0.051 °C
146	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	(-) 200 °C to 1372 °C	0.055 °C
147	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple L - Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 900 °C	0.037 °C
148	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple L - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	(-) 200 °C to 900 °C	0.039 °C
149	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N - Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1300 °C	0.073 °C

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150	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	(-) 200 °C to 1300 °C	0.079 °C
151	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R - Type	Using 8½ Digit Multimeter by Direct Method	50 °C to 1767 °C	0.066 °C
152	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	50 °C to 1767 °C	0.08 °C
153	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S - Type	Using 8½ Digit Multimeter by Direct Method	50 °C to 1767 °C	0.075 °C
154	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	50 °C to 1767 °C	0.09 °C
155	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T - Type	Using 8½ Digit Multimeter by Direct Method	(-) 250 °C to 400 °C	0.114 °C
156	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	(-) 250 °C to 400 °C	0.124 °C

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157	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple U - Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 600 °C	0.045 °C
158	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple U - Type	Using 8½ Digit Multimeter with MPC by Comparison Method	(-) 200 °C to 600 °C	0.05 °C
159	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.03 °C
160	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 1000)	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 630 °C	0.03 °C
161	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B - Type	Using Multi Product Calibrator by Direct Method	600 °C to 1820 °C	0.22 °C
162	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E - Type	Using Multi Product Calibrator by Direct Method	(-) 250 °C to 1000 °C	0.23 °C
163	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J - Type	Using Multi Product Calibrator by Direct Method	(-) 210 °C to 1200 °C	0.15 °C

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164	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K - Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.141 °C
165	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple L - Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 900 °C	0.243 °C
166	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N - Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.19 °C
167	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R - Type	Using Multi Product Calibrator by Direct Method	50 °C to 1767 °C	0.265 °C
168	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S - Type	Using Multi Product Calibrator by Direct Method	50 °C to 1767 °C	0.265 °C
169	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T - Type	Using Multi Product Calibrator by Direct Method	(-) 250 °C to 400 °C	0.343 °C
170	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple U - Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 600 °C	0.29 °C

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171	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Precision Frequency Universal Counter by Direct Method	1 Hz to 50 Hz	0.0002 % to 0.00013 %
172	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Precision Frequency Universal Counter with MPC by Comparison Method	1 Hz to 50 Hz	0.0007 % to 0.00015 %
173	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Precision Frequency Universal Counter by Direct Method	100 kHz to 2 MHz	0.0001 % to 0.00015 %
174	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Precision Frequency Universal Counter with MPC by Comparison Method	100 kHz to 2 MHz	0.00011 % to 0.00013 %
175	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Precision Frequency Universal Counter by Direct Method	50 Hz to 100 kHz	0.00013 % to 0.0001 %
176	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Precision Frequency Universal Counter with MPC by Comparison Method	50 Hz to 100 kHz	0.00015 % to 0.00011 %
177	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	1 s to 9900 s	0.12 s to 0.53 s

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178	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	36000 s to 86400 s	2.07 s to 7.08 s
179	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	9900 s to 36000 s	0.53 s to 2.07 s
180	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1 Hz to 50 Hz	0.59 % to 0.012 %
181	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	50 Hz to 2 MHz	0.012 % to 0.03 %
182	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicator with Sensor (Non Contact Type)	Using Tachometer Calibrator, Precision Tachometer by Comparison Method	> 100 RPM to 5000 RPM	3.1 RPM
183	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicator with Sensor (Non Contact Type)	Using Tachometer Calibrator, Precision Tachometer by Comparison Method	> 5000 RPM to 60000 RPM	16.02 RPM
184	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicator with Sensor (Non Contact Type)	Using Tachometer Calibrator, Precision Tachometer by Comparison Method	> 60000 RPM to 99950 RPM	20.2 RPM
185	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicator with Sensor (Non Contact Type)	Using Tachometer Calibrator, Precision Tachometer by Comparison Method	6 RPM to 100 RPM	1 RPM

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186	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Sensor with Indicator, Rotation Meter with Indicator (Contact Type)	Using Tachometer Calibrator, Precision Tachometer by Comparison Method	> 1000 RPM to 11000 RPM	4.01 RPM
187	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Sensor with Indicator, Rotation Meter with Indicator (Contact Type)	Using Tachometer Calibrator, Precision Tachometer by Comparison Method	6 RPM to 1000 RPM	1.01 RPM
188	MECHANICAL-ACOUSTICS	Sound Level Meter, dB Meter, Acoustic Meter, Noise Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	94 dB & 114 dB	0.51 dB
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker, Surface Plate by Comparison Method	0 to 600 mm	13.6 µm
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Gauge Block Set, Long Slip Gauge, Surface Plate by Comparison Method	0 to 600 mm	12 µm
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Precision Level by Comparison Method	Up to 1000 mm X 1000 mm	3 x Sqrt {(L+W) / 125} µm, Where L and W are in mm
192	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L.C.: 0.0001 mm)	Using Gauge Block Set, Long Slip Gauge, Surface Plate by Comparison Method	0 to 600 mm	7.5 µm

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193	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L.C.: 0.0001 mm)	Using Caliper Checker, Surface Plate by Comparison Method	0 to 600 mm	8 µm
194	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Squareness (L.C.: 0.0001 mm)	Using Granite Square Master, Digital Plunger Dial Gauge (L.C.: 0.1 µm), Surface Plate by Comparison Method	0 to 600 mm	11.8 µm
195	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Gauge Block and Digital Caliper by Comparison Method	10 X to 100 X	1 %
196	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine - Angular (L.C.: 0.01 second of arc and Coarser)	Using Standard Angular Gauge Block By Comparison Method	0 ° to 360 °	1.9 minute of arc
197	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine - Linear (L.C.: 0.001 mm and Coarser)	Using Linear Glass Scale by Comparison Method	0 to 200 mm	4.3 µm
198	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibration Machine, Tape & Scale Calibrator (L.C.: 0.001 mm)	Using Gauge Block Set & Long Slip Gauge Set by Comparison Method	0 to 1000 mm	10.2 µm

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199	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Barometer, Atmospheric Pressure Indicator, Atmospheric Pressure Calibrator, Manometer, Barometric Transmitter with Electrical Output - Pneumatic Pressure	Using Pneumatic Pressure Pump, Pressure Calibrator, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	700 mbar (abs) to 1200 mbar (abs)	0.2 mbar (abs)
200	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Recorder - Absolute Pressure	Using Pneumatic Pressure Source (Nitrogen Gas Cylinder), Digital Pressure Gauge, Digital Multimeter by Comparison Method as per DKD-R 6-1	0.014 bar (abs) to 70 bar (abs)	0.05 bar (abs)
201	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Recorder, Manometer - Pneumatic Absolute Pressure	Using Pneumatic Pressure Dead Weight Tester, Digital Multimeter by Direct Method as per DKD-R 6-1	0.014 bar (abs) to 30 bar (abs)	0.003 bar (abs)

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202	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transducer, Pressure Switch, Pressure Recorder, Pressure Transmitter with Electrical Output - Pneumatic Pressure	Using Pneumatic Pressure Source (Nitrogen Gas Cylinder), Digital Pressure Gauge, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 40 bar	0.007 bar
203	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transducer, Pressure Switch, Pressure Recorder, Pressure Transmitter with Electrical Output - Pneumatic Pressure	Using Pneumatic Hand Pressure Pump, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 2 bar	0.0003 bar
204	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transducer, Pressure Switch, Pressure Recorder, Pressure Transmitter with Electrical Output - Pneumatic Pressure	Using Pneumatic Hand Pressure Pump, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.002 bar

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205	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transducer, Pressure Switch, Pressure Recorder, Pressure Transmitter with Electrical Output - Pneumatic Pressure	Using Pneumatic Pressure Source (Nitrogen Gas Cylinder), Digital Pressure Gauge, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 70 bar	0.018 bar
206	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer - Pneumatic Differential Pressure	Using Low Pressure Pump, Differential Pressure Module with Indicator, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	(-) 40 kPa to 40 kPa	0.005 kPa
207	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Recorder, Pressure Switch with Electrical Output - Pneumatic Low Pressure	Using Low Pressure Pump, Low Pressure Calibrator, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 400 mbar	0.05 mbar

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208	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Transmitter, Pressure Transducer, Pressure Recorder, Pressure Switch with Electrical Output - Hydraulic Pressure	Using Hydraulic Pressure Pump, Digital Pressure Gauge, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 350 bar	0.047 bar
209	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Transmitter, Pressure Transducer, Pressure Recorder, Pressure Switch with Electrical Output - Hydraulic Pressure	Using Hydraulic Pressure Pump, Digital Pressure Gauge, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.085 bar
210	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Gauge, Vacuum Indicator, Vacuum Calibrator, Vacuum Controller, Vacuum Transmitter, Vacuum Transducer, Manometer, Vacuum Recorder, Vacuum Switch with Electrical Output - Pneumatic Low Vacuum	Using Low Pressure Pump, Low Pressure Calibrator, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	(-) 400 mbar to 0 mbar	0.05 mbar

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211	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Gauge, Vacuum Indicator, Vacuum Calibrator, Vacuum Controller, Vacuum Transmitter, Vacuum Transducer, Vacuum Recorder ,Vacuum Switch with Electrical Output - Pneumatic Pressure	Using Pneumatic Hand Pressure Pump, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	(-) 1 bar to 0 bar	0.0006 bar
212	MECHANICAL-PRESSURE INDICATING DEVICES	Analog, Digital - Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Recorder, Manometer - Pneumatic Absolute Pressure	Using Pneumatic Hand Pressure Pump, Multifunction Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0.014 bar (abs) to 21 bar (abs)	0.0032 bar (abs)
213	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog - Differential Pressure Gauge, Pressure Gauge, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer - Pneumatic Differential Pressure	Using Low Pressure Pump, Differential Low Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 490 Pa	0.38 Pa

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214	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog - Differential Pressure Gauge, Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer - Pneumatic Differential Pressure	Using Low Pressure Pump, Differential Low Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 1034 Pa	0.35 Pa
215	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog - Differential Pressure, Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer - Pneumatic Differential Pressure	Using Low Pressure Pump, Differential Low Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 2068 Pa	1.42 Pa
216	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I & Coarser (Readability : 0.0001 g)	Using E1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 5 kg	0.9 mg
217	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I & Coarser (Readability : 0.0001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 6 g	0.005 mg
218	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I & Coarser (Readability : 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 50 g	0.005 mg

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219	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I & Coarser (Readability : 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 200 g	0.027 mg
220	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I & Coarser (Readability : 1 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 1 kg	1.1 mg
221	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I & Coarser (Readability : 2 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 50 kg	20 mg
222	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class II & Coarser (Readability : 10 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 6 kg	11 mg
223	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class III & Coarser (Readability : 5g)	Using F1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 75 kg	4 g
224	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class IIII (Readability : 20 g)	Using F1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 200 kg	20 g
225	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class IIII (Readability : 20 g)	Using F1 Class Weights by Comparison Method as per OIML R 76-1:2006(E)	0 to 500 kg	20 g

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226	THERMAL-SPECIFIC HEAT & HUMIDITY	Portable Temperature Indicator / Recorder / Logger	Using Standard RTD, Precision Temperature Scanner with Data Monitoring System and Temperature Chamber by Comparison Method	(-) 30 °C to 85 °C	0.13 °C
227	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Test / Calibration Chamber, Environment Test Chamber / Room, Climatic Test / Calibration Chamber / Room @ 23°C to 50°C - Multi Position (Minimum 9 Sensors)	Using Temperature & Humidity Recorder with Data Monitoring System by Comparison Method	10 % RH to 95 % RH	1.86 % RH
228	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Test / Calibration Chamber, Environment Test Chamber / Room, Climatic Test / Calibration Chamber / Room @ 25°C - Multi Position (Minimum 9 Sensors)	Using Temperature & Humidity Recorder with Data Monitoring System by Comparison Method	10 % RH to 95 % RH	1.7 % RH

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229	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Test / Calibration Chamber, Environment Test Chamber / Room, Climatic Test / Calibration Chamber / Room @ 50%RH - Multi Position (Minimum 9 Sensors)	Using Temperature & Humidity Recorder with Data Monitoring System by Comparison Method	5 °C to 50 °C	0.85 °C
230	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo hygrometer with Internal Sensor, Digital Humidity Meter, Humidity Sensor with Indicator, Humidity Transmitter with Indicator, Temperature & Humidity Recorder @ 50% RH	Using Standard Digital RH & Temperature Indicator with Sensor, Precision Digital Multimeter, Stable Relative Humidity & Temperature Chamber by Comparison Method	5 °C to 50 °C	0.2 °C
231	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo hygrometer with Internal Sensor, Digital Humidity Meter, Temperature Humidity Sensor with Indicator, Temperature Humidity Transmitter, Temperature & Humidity Recorder @ 23°C to 50°C	Using Digital RH & Temperature Indicator with Sensor, Precision Digital Multimeter and Stable Relative Humidity & Temperature Chamber by Comparison Method	10 % RH to 95 % RH	1.88 % RH

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232	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo hygrometer with Internal Sensor, Digital Humidity Meter, Temperature Humidity Sensor with Indicator, Temperature Humidity Transmitter, Temperature & Humidity Recorder @ 25 °C	Using Digital RH & Temperature Indicator with Sensor, Precision Digital Multimeter, Stable Relative Humidity & Temperature Chamber by Comparison Method	10 % RH to 95 % RH	0.7 % RH
233	THERMAL-TEMPERATURE	Indicator with Sensor of Temperature Dry Block Calibrator, Temperature Furnace -Single Position	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner by Comparison Method	280 °C to 660 °C	0.12 °C
234	THERMAL-TEMPERATURE	Indicator with Sensor of Temperature Dry Block Calibrator, Temperature Furnace -Single Position	Using S Type Thermocouple Sensor, Precision Temperature Scanner by Comparison Method	660 °C to 1200 °C	1.72 °C
235	THERMAL-TEMPERATURE	Indicator with Sensor of Temperature Liquid Bath Calibrator, Temperature Dry Block Calibrator - Single Position	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner by Comparison Method	140 °C to 280 °C	0.02 °C

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236	THERMAL-TEMPERATURE	Indicator with Sensor of Temperature Liquid Bath Calibrator, Temperature Water Bath, Temperature Dry Block Calibrator - Single Position	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner by Comparison Method	(-) 95 °C to 140 °C	0.01 °C
237	THERMAL-TEMPERATURE	Infrared Thermometer, Infrared Temperature Sensor / Transmitter, Thermal Imaging Camera (Only Temperature) (Emissivity @ 0.95)	Using Non Contact Infrared Thermometer, Precision Digital Multimeter, Black Body Source by Comparison Method	> 100 °C to 500 °C	2.32 °C
238	THERMAL-TEMPERATURE	Infrared Thermometer, Infrared Temperature Sensor / Transmitter, Thermal Imaging Camera (Only Temperature) (Emissivity @ 0.95)	Using Standard RTD Temperature Sensor, Precision Temperature Scanner, Precision Digital Multimeter, Black Body Source by Comparison Method	(-) 20 °C to 100 °C	0.58 °C
239	THERMAL-TEMPERATURE	Infrared Thermometer, Infrared Temperature Sensor / Transmitter, Thermal Imaging Camera (Only Temperature) (Emissivity @ 0.95)	Using Non Contact Infrared Thermometer, Precision Digital Multimeter, Black Body Source by Comparison Method	(-) 20 °C to 100 °C	1 °C

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240	THERMAL-TEMPERATURE	Infrared Thermometer, Infrared Temperature Sensor / Transmitter, Thermal Imaging Camera (Only Temperature) (Emissivity @ 0.95)	Using S - Type Thermocouple Sensor, Precision Temperature Scanner, Precision Digital Multimeter, Black Body Source by Comparison Method	> 100 °C to 500 °C	2.12 °C
241	THERMAL-TEMPERATURE	Infrared Thermometer, Infrared Temperature Sensor / Transmitter, Thermal Imaging Camera (Only Temperature) (Emissivity @ 0.99)	Using S Type Thermocouple Sensor, Precision Temperature Scanner, Precision Digital Multimeter, Black Body Source by Comparison Method	> 500 °C to 1200 °C	5.66 °C
242	THERMAL-TEMPERATURE	Infrared Thermometer, Infrared Temperature Sensor / Transmitter, Thermal Imaging Camera (Only Temperature) (Emissivity @ 0.99)	Using Non Contact Infrared Thermometer, Precision Digital Multimeter, Black Body Source by Comparison Method	> 500 °C to 1200 °C	7.36 °C
243	THERMAL-TEMPERATURE	Liquid-In-Glass Thermometer	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner, Liquid Bath by Comparison Method	(-) 80 °C to 0 °C	0.62 °C

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244	THERMAL-TEMPERATURE	Liquid-In-Glass Thermometer	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner, Liquid Bath by Comparison Method	0 °C to 150 °C	0.62 °C
245	THERMAL-TEMPERATURE	Liquid-In-Glass Thermometer	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner, Liquid Bath by Comparison Method	150 °C to 280 °C	0.62 °C
246	THERMAL-TEMPERATURE	Oven, Furnace - Multi Position (Minimum 9 Sensors)	Using N - Type Thermocouple with Data Monitoring System by Comparison Method	300 °C to 1200 °C	4.22 °C
247	THERMAL-TEMPERATURE	Temperature Test Chamber, Environment Test Chamber, Incubator (For Non-Medical Applications), Refrigerator, Deep Freezer, Cold Room, Storage Room - Multi Position (Minimum 9 Sensors)	Using RTD Sensor with Data Monitoring System by Comparison Method	(-) 80 °C to 180 °C	0.47 °C
248	THERMAL-TEMPERATURE	Temperature Test Chamber, Oven - Multi Position (Minimum 9 Sensors)	Using RTD Sensor with Data Monitoring System by Comparison Method	180 °C to 300 °C	0.52 °C

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249	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, RTD with / without Indicator, Temperature Gauge, Temperature Sensor with Indicator, Digital Thermometer with Sensor, Temperature Switch / Controller	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner, Precision Digital Multimeter and Liquid Nitrogen bath by Comparison Method	(-) 196 °C	0.4 °C
250	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, RTD with / without Indicator, Temperature Gauge, Temperature Sensor with Indicator, Digital Thermometer with Sensor, Temperature Switch / Controller	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner, Precision Digital Multimeter and Dry Block Calibrator by Comparison Method	280 °C to 660 °C	0.16 °C
251	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, RTD with / without Indicator, Temperature Gauge, Temperature Sensor with Indicator, Digital Thermometer with Sensor, Temperature Switch / Controller	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner, Precision Digital Multimeter and Dry Block Calibrator by Comparison Method	(-) 95 °C to 140 °C	0.03 °C

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Validity 15/08/2025 to 14/08/2029 **Last Amended on** 18/08/2025

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
252	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, RTD with / without Indicator, Temperature Gauge, Temperature Sensor with Indicator, Digital Thermometer with Sensor, Temperature Switch / Controller	Using Standard PRTD Temperature Sensor, Precision Temperature Scanner, Precision Digital Multimeter and Liquid Temperature Calibrator by Comparison Method	140 °C to 280 °C	0.02 °C
253	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, Temperature Gauge, Temperature Sensor with Indicator, Digital Thermometer with Sensor, Temperature Switch / Controller	Using S Type Thermocouple Sensor, Precision Temperature Scanner, Precision Digital Multimeter, Temperature Furnace Calibrator by Comparison Method	660 °C to 1200 °C	1.69 °C

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