



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**ROOTS METROLOGY & TESTING LABORATORY (A
DIVISION OF ROOTS INDUSTRIES INDIA PRIVATE
LIMITED)**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

PLOT NO. 26, 27, METROLOGY LAB - TRISOOL LAYOUT, SHRI BHAVANI ARCADE, BAGALUR ROAD,
NALLUR, HOSUR, KRISHNAGIRI, TAMIL NADU, INDIA

in the field of

CALIBRATION

Certificate Number: NABLC0726TN04815

Issue Date: 01/07/2026

Valid Until: 30/06/2030

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued
satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: ROOTS INDUSTRIES INDIA PRIVATE LIMITED

Signed for and on behalf of NABL



Anita Rani
Director

Dr. Ramanand N. Shukla
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ROOTS METROLOGY & TESTING LABORATORY (A DIVISION OF ROOTS INDUSTRIES INDIA PRIVATE LIMITED), PLOT NO. 26, 27, METROLOGY LAB - TRISOOL LAYOUT, SHRI BHAVANI ARCADE, BAGALUR ROAD, NALLUR, HOSUR, KRISHNAGIRI, TAMIL NADU, INDIA

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	1 mA to 10 mA	0.21 % to 0.57 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	10 µA to 100 µA	0.95 % to 0.57 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	10 mA to 100 mA	0.57 % to 0.20 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	100 µA to 1 mA	0.57 % to 0.21 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	100 mA to 10 A	0.20 % to 0.65 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	4.74 % to 0.60 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.55 % to 0.39 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	100 mV to 750 V	0.39 % to 0.13 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	1 mH	0.59 %



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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Energy (1 Phase 2 Wire) @ 50 Hz (63.5 V to 230 V, 0.05 A to 15 A @ 0.2 (Lag / Lead) to UPF)	Using 1 Phase Calibration Source by Direct Method	0.635 Wh to 3.45 kWh	4.29 % to 0.23 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Power (1 Phase 2 Wire) @ 50 Hz (40 V to 240 V, 0.5 A to 20 A @ 0.5 Lag / Lead)	Using Multi Product Calibrator by Direct Method	10 W to 2.4 kW	0.97 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Power (1 Phase 2 Wire) @ 50 Hz (40 V to 240 V, 0.5 A to 20 A @ 0.8 Lag / Lead)	Using Multi Product Calibrator by Direct Method	16 W to 3.84 kW	0.55 % to 1.74 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Power (1 Phase 2 Wire) @ 50 Hz (40 V to 240 V, 0.5 A to 20 A @ UPF)	Using Multi Product Calibrator by Direct Method	20 W to 4.8 kW	0.42 % to 1.40 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Power (1 Phase 2 Wire) @ 50 Hz (40 V to 240 V, 0.5 A to 20 A @ 0.1 Lag / Lead)	Using Multi Product Calibrator by Direct Method	2 W to 480 W	4.48 % to 5.52 %
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Power (1 Phase 2 Wire) @ 50 Hz (63.5 V to 230 V, 50 mA to 15 A, 0.2 (Lag / Lead) to UPF)	Using 1 Phase Calibration Source by Direct Method	0.635 W to 3.45 kW	4.87 % to 0.93 %



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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator with 2 turn Current Coil by Direct Method	10 A to 60 A	1.88 % to 2.77 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct calibrator with 50 turn Current Coil by Direct Method	250 A to 1000 A	1.72 % to 1.68 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator with 10 Turn Current Coil by Direct Method	50 A to 300 A	2.67 % to 1.72 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 µA to 100 mA	1.17 % to 0.62 %
20	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	0.62 % to 0.49 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 1 Phase Calibration Source by Direct Method	10 mV to 3 V	0.35 %



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22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	5.92 % to 0.69 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using 1 Phase Calibration Source by Direct Method	100 mV to 1 V	0.69 % to 0.35 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.10 % to 0.08 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.08 % to 0.04 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	3 V to 10 V	0.35 % to 0.10 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	1 μ F	0.70 %



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28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	1 nF	0.35 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	10 µF	0.70 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	10 nF	0.35 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	100 µF	0.70 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	100 nF	0.35 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	20 nF	0.35 %



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34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	50 nF	0.35 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	1 H	0.61 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	10 mH	0.61 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance box by Direct Method	10 µH to 10 H	1.31 % to 1.15 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	10 H	0.61 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	100 mH	0.61 %



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40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	20 mH	0.61 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	30 mH	0.61 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	50 mH	0.61 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (Lag / Lead) 230 V, 5A	Using Multi Product Calibrator by Direct Method	0.2 (Lag / Lead) PF to UPF	0.008 PF to 0.066 PF
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct method	10 µA to 100 µA	0.43 % to 0.12 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 10 A	0.12 % to 0.16 %



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	0.43 % to 0.48 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct method	1 V to 10 V	0.023 % to 0.007 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.48 % to 0.02 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct method	10 V to 100 V	0.007 % to 0.011 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.02 % to 0.023 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct method	100 V to 1000 V	0.011 % to 0.012 %



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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 - Wire)	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.07 % to 0.069 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 - Wire)	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.069 % to 0.35 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 - Wire)	Using 6½ Digit Multimeter by Direct Method	100 ohm to 1 Mohm	0.24 % to 0.07 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 - Wire)	Using 6½ Digit Multimeter by Direct Method	1 ohm to 10 ohm	0.52 % to 1.16 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 - Wire)	Using 6½ Digit Multimeter by Direct Method	10 ohm to 100 ohm	1.16 % to 0.24 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.01 % to 0.04 %



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58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 mA to 100 mA	0.02 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	10 µA to 100 µA	0.13 % to 0.02 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 A to 20 A	0.04 % to 0.14 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with 2 Turn Current Coil by Direct Method	10 A to 60 A	1.76 % to 0.85 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 µA to 1 mA	0.02 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.02 % to 0.01 %



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64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with 50 Turn Current Coil by Direct Method	250 A to 1000 A	0.98 % to 1.50 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with 10 Turn Current Coil by Direct Method	50 A to 300 A	1.08 % to 0.98 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.003 % to 0.002 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	5.89 % to 0.69 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 V to 1000 V	0.002 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 1 Phase Calibration Source by Direct Method	100 mV to 1 V	0.69 % to 0.35 %



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70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 - Wire)	Using Decade Resistance box by Direct Method	10 kohm to 10 Mohm	0.004 % to 0.12 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 - Wire)	Using Decade Resistance box by Direct Method	10 Mohm to 1000 Mohm	0.12 % to 0.6 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using 4 Wire Low Resistance Standard by Direct Method	1 mohm	0.14 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using 4 Wire Low Resistance Standard by Direct Method	1 ohm	0.14 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using Decade Resistance box by Direct Method	1 ohm to 10 kohm	0.23 % to 0.019 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using 4 Wire Low Resistance Standard by Direct Method	10 µohm	1.08 %



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76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using 4 Wire Low Resistance Standard by Direct Method	10 mohm	0.14 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using 4 Wire Low Resistance Standard by Direct Method	100 µohm	0.18 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using 4 Wire Low Resistance Standard by Direct Method	100 mohm	0.14 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using 4 Wire Low Resistance Standard by Direct Method	50 µohm	0.36 %
80	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude @ 1 kHz Sinewave (12 mV to 120 V)	Using Multi Product Calibrator by Direct Method	2 mV/div to 20 V/div	0.29 % to 0.12 %
81	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth @ upto 600 mV(p-p)	Using Multi Product Calibrator by Direct Method	5 MHz to 600 MHz	1.52 % to 8.67 %



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82	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Timebase (p-p)	Using Multi Product Calibrator by Direct Method	2 ns/div to 5 s /div	0.29 % to 0.12 %
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type Thermocouple	Using Multi Product Calibrator by Direct Method	600 °C to 1800 °C	0.80 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.50 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.27 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1340 °C	0.31 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.49 °C



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88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.94 °C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt 100) - 4 Wire	Using Multi Function Calibrator by Direct Method	(-) 100 °C to 800 °C	0.64 °C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.94 °C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.69 °C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using Multi Product Calibrator by Direct Method	600 °C to 1800 °C	0.85 °C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.50 °C



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94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.27 °C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1340 °C	0.32 °C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.50 °C
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.93 °C
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt 100) - 2 Wire	Using Multi Product Calibrator by Direct Method	(-) 100 °C to 800 °C	0.60 °C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.94 °C



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100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.70 °C
101	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 100 kHz	0.08 % to 0.015 %
102	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	100 kHz to 300 kHz	0.015 % to 0.012 %
103	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	3 Hz to 10 Hz	0.21 % to 0.08 %
104	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method	1 s to 24 Hr	0.12 s to 7.21 s
105	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1 Hz to 10 Hz	0.02 % to 0.003 %



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106	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	10 Hz to 10 MHz	0.003 % to 0.017 %
107	MECHANICAL-ACCELERATION AND SPEED	Digital / Analog Tachometer (Contact Type)	Using Digital Tachometer & Rotating Disc by Electric Motor (as a source) by Comparison Method	> 100 rpm to 1000 rpm	1.65 %
108	MECHANICAL-ACCELERATION AND SPEED	Digital / Analog Tachometer (Contact Type)	Using Digital Tachometer & Rotating Disc by Electric Motor (as a source) by Comparison Method	> 1000 rpm to 9200 rpm	0.25 %
109	MECHANICAL-ACCELERATION AND SPEED	Digital / Analog Tachometer (Contact Type)	Using Digital Tachometer and Rotating Disc by Electric Motor (as Source) by Comparison Method	10 rpm to 100 rpm	1.77 %
110	MECHANICAL-ACCELERATION AND SPEED	Digital / Analog Tachometer (Non-Contact Type)	Using Digital Tachometer using Rotating Disc by Electric Motor (as Source) by Comparison Method	> 100 rpm to 1000 rpm	1.65 %



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111	MECHANICAL-ACCELERATION AND SPEED	Digital / Analog Tachometer (Non-Contact Type)	Using Digital Tachometer using Rotating Disc by Electric Motor (as source) by Comparison Method	> 1000 rpm to 90000 rpm	0.07 %
112	MECHANICAL-ACCELERATION AND SPEED	Digital / Analog Tachometer (Non-Contact Type)	Using Digital Tachometer using Rotating Disc by Electric Motor (as source) by Comparison Method	10 rpm to 100 rpm	2.93 %
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (L.C : 1')	Using Vision Measuring Machine by Comparison Method	Up to 360°	37.86 arc second
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Dial Gauge (Transmission error only) (L.C : 1.0 µm & Coarser)	Using Universal Length Measuring System by Comparison Method	Up to 2.0 mm	1.06 µm



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115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial / Groove (L.C : 0.01 mm & Coarser)	Using Slip Gauge, Long Slip Gauge, Slip Gauge Accessories, Digital External Micrometer (To Measure width of jaws) by Comparison Method	> 300 mm to 600 mm	7.22 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial / Groove (L.C : 0.01 mm & Coarser)	Using Slip Gauge, Long Slip Gauge, Slip Gauge Accessories and Digital External Micrometer - (To Measure width of jaws) by Comparison Method	> 600 mm to 1000 mm	9.14 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial / Groove (L.C : 0.01 mm & Coarser)	Using Slip Gauge, Long Slip Gauge, Slip Gauge Accessories by Comparison Method	0 to 300 mm	6.54 µm



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118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial / Groove (L.C : 0.02 mm & Coarser)	Using Slip Gauge, Long Slip Gauge, Slip Gauge Accessories and Digital External Micrometer (To Measure width of Jaws) by Comparison Method	> 1000 mm to 2000 mm	13.68 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Foil	Using Universal Length Measuring System by Direct Method	0.01 mm to 2.0 mm	0.23 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C : 0.1 µm)	Using Standard Coating Thickness Foils by Comparison Method	0.01 mm to 2 mm	1.19 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set / Degree Protractor (L.C : 1° & Coarser)	Using Vision Measuring Machine by Comparison Method	0° to 180°	17.33 arc minute



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122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using Universal Length Measuring System by Comparison Method	0.5 mm to 20 mm	0.24 μ m
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Diameter, Variation in Diameter)	Using Universal Length Measuring System by Comparison Method	1 mm to 100 mm	1.51 μ m
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Digital / Dial (L.C : 0.01 mm & Coarser)	Using Slip Gauges / Long Slip Gauges by Comparison Method	> 300 mm to 600 mm	8.15 μ m
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Digital / Dial / Hook (L.C : 0.01 mm & Coarser)	Using Slip Gauges / Long Slip Gauges by Comparison Method	0 to 300 mm	6.72 μ m
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (Analog / Digital) (L.C : 0.001 mm & Coarser)	Using Slip Gauges / Long Slip Gauges by Comparison Method	> 100 mm to 300 mm	1.48 μ m



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127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (Analog / Digital) (L.C : 0.001 mm & Coarser)	Using Slip Gauges by Comparison Method	0 to 100 mm	1.26 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digital Thickness Gauge (L.C : 0.001 mm & Coarser)	Using Universal Length Measuring System & Slip Gauges by Comparison Method	0 to 12.7 mm	0.89 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge / Dial Groove Gauge (L.C : 0.01 mm & Coarser)	Using Slip Gauges / Long Slip Gauges / Slip Gauge Accessories by Comparison Method	> 12.5 mm to 150 mm	4.24 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge (L.C: 0.001 mm & Coarser)	Using Slip Gauges / Long Slip Gauges by Comparison Method	2 mm to 200 mm	1.18 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Indicator / LVDT / Electronic Probe (L.C : 0.0001 mm & Coarser)	Using Universal Length Measuring System by Comparison Method	0 to 25 mm	0.24 µm



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132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge / Thickness Standards	Using Universal Length Measuring System by Comparison Method	0.01 mm to 1 mm	1.31 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Fillet Gauge (Angular)	Using Vision Measuring Machine by Comparison Method	0° to 60°	35.40 arc second
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Fillet Gauge (Linear)	Using Vision Measuring Machine by Comparison Method	Up to 60 mm	1.41 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gear Tooth Vernier (L.C : 0.01 mm & Coarser)	Using Slip Gauges by Comparison Method	0 to 50 mm	6.55 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Digital / Dial (L.C: 0.01 mm & Coarser)	Using Slip Gauges, Long Slip Gauges and Granite Surface Plate by Comparison Method	> 300 mm to 600 mm	7.30 µm



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137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Digital / Dial (L.C: 0.01 mm & Coarser)	Using Slip Gauges, Long Slip Gauges and Granite Surface Plate by Comparison Method	> 600 mm to 1000 mm	13.92 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Digital / Dial (L.C: 0.01 mm & Coarser)	Using Slip Gauges, Long Slip Gauges and Granite Surface Plate by Comparison Method	0 to 300 mm	6.79 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever type Dial Gauge (L.C : 0.01 mm & Coarser)	Using Universal Length Measuring System by Comparison Method	0 to 2 mm	2.93 µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever type Dial Gauge (L.C: 0.001 mm & Coarser)	Using Universal Length Measuring System by Comparison Method	0 to 0.14 mm	0.40 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever type Dial Gauge (L.C: 0.002 mm & Coarser)	Using Universal Length Measuring System by Comparison Method	0 to 0.6 mm	0.62 µm



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142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge (Angle)	Using Vision Measuring Machine by Comparison Method	Up to 360°	30.2 arc second
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge (Depth / Length / Width)	Using Vision Measuring Machine by Comparison Method	Up to 300 mm	2.81 µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge (Diameter)	Using Vision Measuring Machine by Comparison Method	Up to 200 mm	2.81 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge (Height)	Using Height Measuring System by Comparison Method	Up to 300 mm	2.81 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C: 1 mm & Coarser)	Using Scale & Tape Measuring Calibrator by Comparison Method	0 to 30 m	290.55 x sqrt(L) µm (Where L> 1000 mm and L in meter)



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147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer (Analog / Digital / Flange / Point / Blade / Ball) (L.C : 0.001 mm & Coarser)	Using Slip Gauges / Long Slip Gauges by Comparison Method	> 25 mm to 100 mm	0.98 μ m
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer (Analog / Digital / Flange / Point / Blade / Ball) (L.C: 0.001 mm & Coarser)	Using Slip Gauges by Comparison Method	0 to 25 mm	0.71 μ m
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer (Analog / Digital) (L.C: 0.001 mm & Coarser)	Using Slip Gauges / Long Slip Gauges by Comparison Method	> 300 mm to 500 mm	2.25 μ m
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer (Analog / Digital) (L.C: 0.001 mm & Coarser)	Using Slip Gauges / Long Slip Gauges by Comparison Method	> 500 mm to 1000 mm	5.29 μ m
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer (Analog / Digital) (L.C: 0.01 mm & Coarser)	Using Slip Gauges / Long Slip Gauges by Comparison Method	> 1000 mm to 1500 mm	9.46 μ m



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152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head (L.C : 0.01 mm & Coarser)	Using Universal Length Measuring System by Comparison Method	Up to 100 mm	5.78 μ m
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer(Analog / Digital / Flange / Point / Blade / Ball) (L.C : 0.001 mm & Coarser)	Using Slip Gauges / Long Slip Gauges by Comparison Method	> 100 mm to 300 mm	1.47 μ m
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PI Tape (L.C.: 0.01 mm & Coarser)	Using Scale and Tape Measuring Calibrator by Comparison Method	0 to 3 m	88 x Sqrt (L) μ m (where L> 1000 mm and L is in meter)
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper / OD Caliper / OD Groove Dial Gauge (L.C : 0.1 mm & Coarser)	Using Slip Gauges by Comparison Method	0 to 100 mm	43.59 μ m
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Air Plug Gauge / Setting Plug Gauge	Using Universal Length Measuring System by Comparison Method	> 400 mm to 500 mm	3.56 μ m



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157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Air Plug Gauge / Setting Plug Gauge / Segmental Plug Gauge	Using Universal Length Measuring System by Comparison Method	> 100 mm to 200 mm	2.04 μ m
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Air Plug Gauge / Setting Plug Gauge / Segmental Plug Gauge	Using Universal Length Measuring System by Comparison Method	> 200 mm to 300 mm	2.58 μ m
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Air Plug Gauge / Setting Plug Gauge / Segmental Plug Gauge	Using Universal Length Measuring System by Comparison Method	> 300 mm to 400 mm	3.11 μ m
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Air Plug Gauge / Setting Plug Gauge / Width Gauge / Slot checking Gauge / Segmental Plug Gauge	Using Universal Length Measuring System by Comparison Method	1 mm to 100 mm	0.70 μ m
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge / Air Ring Gauge / Master Ring Gauge	Using Universal Length Measuring System by Comparison Method	> 140 mm to 230 mm	3.01 μ m



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162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge / Air Ring Gauge / Master Ring Gauge	Using Universal Length Measuring Systemby Comparison Method	> 230 mm to 320 mm	4.01 µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge / Air Ring Gauge / Master Ring Gauge	Using Universal Length measuring system by Comparison Method	> 320 mm to 400 mm	4.59 µm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge / Air Ring Gauge / Master Ring Gauge	Using Universal Length Measuring System by Comparison Method	> 50 mm to 140 mm	1.96 µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge / Air Ring Gauge / Master Ring Gauge	Using Universal Length Measuring System by Comparison Method	3 mm to 50 mm	1.60 µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger type Dial Gauge (Mechanical / Digital) (L.C: 0.001 mm & Coarser)	Using Universal Length Measuring System by Comparison Method	0 to 50 mm	0.66 µm



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167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger type Dial Gauge (Mechanical / Digital) (L.C: 0.01 mm & Coarser)	Using Universal Length Measuring System by Comparison Method	0 to 100 mm	2.94 μ m
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Vision Measuring Machine by Comparison Method	Up to 50 mm	0.94 μ m
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale (L.C.: 1 mm & Coarser)	Using Scale & Tape Measuring Calibrator by Comparison Method	0 to 2000 mm	149 x Sqrt (L) μ m (where Where L> 1000 mm and L in m)
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod For Micrometer	Using Universal Length Measuring Systemby Comparison Method	> 100 mm to 500 mm	3.56 μ m
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod for Micrometer	Using Height Measuring System by Comparison Method	> 500 mm to 1000 mm	5.91 μ m



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172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod for Micrometer	Using Universal Length Measuring System by Comparison Method	25 mm to 100 mm	0.38 µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge - Fixed / Adjustable / Gap Gauge	Using Slip Gauge / Long Slip Gauges by Comparison Method	> 200 mm to 300 mm	1.57 µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge - Fixed / Adjustable / Gap Gauge	Using Slip Gauge / Long Slip Gauges by Comparison Method	> 300 mm to 400 mm	2.09 µm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge - Fixed / Adjustable / Gap Gauge	Using Slip Gauge / Long Slip Gauges by Comparison Method	100 mm to 200 mm	1.32 µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge - Fixed / Adjustable / Gap Gauge	Using Slip Gauge by Comparison Method	3 mm to 50 mm	1.04 µm



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177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level (Type 1, 2 & 3) (Sensitivity : 0.01 mm/m)	Using Electronic Level & Tilting Table by Comparison Method	Up to 2 mm/m	3.73 µm/m
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Stick Micrometer / Tubular (L.C : 0.01 mm & Coarser)	Using Slip Gauges / Long Slip Gauges by Comparison Method	> 500 mm to 1000 mm	5.79 µm
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Stick Micrometer / Tubular (L.C : 0.01 mm & Coarser)	Using Universal Length Measuring System, Slip Gauges / Long Slip Gauges by Comparison Method	50 mm to 500 mm	4.30 µm
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Granite / Cast Iron	Using Electronic Level by Comparison Method	Up to 3500 mm x 2600 mm	0.54 x sqrt(L+W)/100 µm, L, W is in mm
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale (L.C : 0.1 mm)	Using Vision Measuring Machine by Comparison Method	Up to 15 mm	28.90 µm



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182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective diameter)	Using Universal Length Measuring System & Thread Measuring Cylinders by Comparison Method	> 100 mm to 200 mm	2.31 µm
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective diameter)	Using Universal Length Measuring System & Thread Measuring Cylinders by Comparison Method	7 mm to 100 mm	1.61 µm
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective diameter)	Using Universal Length Measuring System and Setting Ring Gauge by Comparison Method	7 mm to 100 mm	1.71 µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve (Perforated Plate / Wire Cloth)	Using Digital Caliper by Comparison Method	> 10 mm to 125 mm	11.87 µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve (Perforated Plate / Wire Cloth)	Using Vision Measuring Machine by Comparison Method	0.025 mm to 4 mm	0.88 µm



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187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Cylinder	Using Universal Length measuring System by Comparison Method	0.1 mm to 6.35 mm	0.21 µm
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angle)	Using Vision Measuring Machine by Comparison Method	55° to 60°	33.49 arc second
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Vision Measuring Machine by Comparison Method	0.2 mm to 7 mm	1.66 µm
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Diameter & Effective Diameter)	Using Universal Length Measuring System & Thread Measuring Cylinders by Comparison Method	> 300 mm to 400 mm	3.06 µm
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major diameter & Effective Diameter)	Using Universal Length Measuring System & Thread Measuring Cylinders by Comparison Method	200 mm to 300 mm	2.81 µm



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192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / Wear Check Plug Gauge (Major diameter & Effective Diameter)	Using Universal Length Measuring System and Setting Ring Gauge by Comparison Method	> 100 mm to 200 mm	2.05 µm
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / Wear Check Plug Gauge (Major diameter & Effective Diameter)	Using Universal Length Measuring System& Thread Measuring Cylinders by Comparison Method	1 mm to 100 mm	0.59 µm
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective diameter)	Using Universal Length Measuring System and Setting Ring Gauge by Comparison Method	> 100 mm to 200 mm	2.05 µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	Using Universal Length Measuring System and Setting Ring Gauge by Comparison Method	> 200 mm to 300 mm	3.06 µm
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	Using Universal Length Measuring System and Setting Ring Gauge by Comparison Method	> 300 mm to 400 mm	3.21 µm



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197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge / Wear Check Ring Gauge (Effective diameter)	Using Universal Length Measuring System and Setting Ring Gauge by Comparison Method	3 mm to 100 mm	1.66 μ m
198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C : 0.01 mm & Coarser)	Using Slip Gauges by Comparison Method	0 to 100 mm	57.74 μ m
199	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic - Digital & Dial Pressure Gauge / Pressure Transmitter / Transducer with or without indicator, Pressure Switch with indicator	Using Portable Pressure Calibrator and Multifunction Calibrator by Comparison Method based on DKD R-6- 1	0 to 700 bar	0.05 %
200	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic - Pneumatic Digital & Dial Pressure Gauge / Pressure Transmitter / Transducer with or without indicator, Pressure Switch with indicator	Using Portable Pressure Calibrator and Multifunction Calibrator by Comparison Method based on DKD R-6- 1	0 to 20 bar	0.09 %



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201	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum - Digital & Dial Vacuum Gauge / Vacuum Transmitter / Transducer with or without indicator, Pressure Switch with Indicator	Using Portable Pressure Calibrator and Multifunction Calibrator by Comparison Method based on DKD R-6- 1	(-) 0.9 bar to 0	0.90 %
202	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Controller, Data Logger with Sensor, Thermometer with Probe, Temperature Transmitter	Using SSPRT Sensor, Multifunction Calibrator, Portable Furnace by Comparison Method	(-) 25 °C to 0 °C	0.21 °C
203	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Controller, Data Logger with sensor, Thermometer with Probe, Temperature Transmitter	Using SSPRT Sensor, Multifunction Calibrator, Portable Furnace by Comparison Method	> 0 °C to 660 °C	0.51 °C



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204	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Deep Freezer, Freezer, Refrigerator, Liquid Bath, Low Temperature Bath, Environmental Chamber, Cold Chamber, Temperature Chamber Temperature Bath - Single Position Calibration	Using 4 Wire RTD Sensor with indicator by Comparison Method	(-) 80 °C to 0 °C	0.61 °C
205	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Freezer, Incubator (for non-medical applications only), Refrigerator, Oven, Furnace, Autoclave, Temperature / Liquid Bath, Hot Air Oven, Chamber (Temperature / Salt Spray) - Single Position Calibration	Using 4 Wire RTD Sensor with Multifunction Calibrator by Comparison Method	> 0 °C to 200 °C	0.34 °C



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206	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Furnace, Dry Block Temperature Calibrator - Single Position Calibration	Using S-Type Thermocouple with Multifunction Calibrator by Comparison Method	> 1200 °C to 1500 °C	2.85 °C
207	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Furnace, Dry Block Temperature Calibrator, Muffle Furnace - Single Position Calibration	Using S-Type Thermocouple with indicator by Comparison Method	> 400 °C to 1200 °C	1.5 °C
208	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Oven, Furnace, Temperature Bath, Hot Air Oven, Muffle Furnace - Single Position Calibration	Using 4 Wire RTD sensor with indicator by Comparison Method	> 200 °C to 400 °C	0.32 °C
209	THERMAL-TEMPERATURE	Thermocouple with or without Indicator / Controller, Data Logger with Sensor, Thermometer with Probe, Temperature Transmitter	Using S-Type Thermocouple with Indicator, Multifunction Calibrator & Portable Furnace by Comparison Method	> 660 °C to 1200 °C	1.47 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	1 mA to 10 mA	0.21 % to 0.57 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	10 µA to 100 µA	0.95 % to 0.57 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	10 mA to 100 mA	0.57 % to 0.20 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	100 µA to 1 mA	0.57 % to 0.21 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	100 mA to 10 A	0.20 % to 0.65 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	4.74 % to 0.60 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.55 % to 0.39 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	100 mV to 750 V	0.39 % to 0.13 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	1 mH	0.59 %



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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Energy (1 Phase 2 Wire) @ 50 Hz (63.5 V to 230 V, 0.05 A to 15 A @ 0.2 (Lag / Lead) to UPF)	Using 1 Phase Calibration Source by Direct Method	0.635 Wh to 3.45 kWh	4.29 % to 0.23 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Power (1 Phase 2 Wire) @ 50 Hz (40 V to 240 V, 0.5 A to 20 A @ 0.5 Lag / Lead)	Using Multi Product Calibrator by Direct Method	10 W to 2.4 kW	0.97 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Power (1 Phase 2 Wire) @ 50 Hz (40 V to 240 V, 0.5 A to 20 A @ 0.8 Lag / Lead)	Using Multi Product Calibrator by Direct Method	16 W to 3.84 kW	0.55 % to 1.74 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Power (1 Phase 2 Wire) @ 50 Hz (40 V to 240 V, 0.5 A to 20 A @ UPF)	Using Multi Product Calibrator by Direct Method	20 W to 4.8 kW	0.42 % to 1.40 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Power (1 Phase 2 Wire) @ 50 Hz (40 V to 240 V, 0.5 A to 20 A @ 0.1 Lag / Lead)	Using Multi Product Calibrator by Direct Method	2 W to 480 W	4.48 % to 5.52 %
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Power (1 Phase 2 Wire) @ 50 Hz (63.5 V to 230 V, 50 mA to 15 A, 0.2 (Lag / Lead) to UPF)	Using 1 Phase Calibration Source by Direct Method	0.635 W to 3.45 kW	4.87 % to 0.93 %



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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator with 2 turn Current Coil by Direct Method	10 A to 60 A	1.88 % to 2.77 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct calibrator with 50 turn Current Coil by Direct Method	250 A to 1000 A	1.72 % to 1.68 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator with 10 Turn Current Coil by Direct Method	50 A to 300 A	2.67 % to 1.72 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 µA to 100 mA	1.17 % to 0.62 %
20	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	0.62 % to 0.49 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 1 Phase Calibration Source by Direct Method	10 mV to 3 V	0.35 %



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22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	5.92 % to 0.69 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using 1 Phase Calibration Source by Direct Method	100 mV to 1 V	0.69 % to 0.35 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.10 % to 0.08 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.08 % to 0.04 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi Product Calibrator by Direct Method	3 V to 10 V	0.35 % to 0.10 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	1 μ F	0.70 %



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28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	1 nF	0.35 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	10 µF	0.70 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	10 nF	0.35 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	100 µF	0.70 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	100 nF	0.35 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	20 nF	0.35 %



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34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	50 nF	0.35 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	1 H	0.61 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	10 mH	0.61 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance box by Direct Method	10 µH to 10 H	1.31 % to 1.15 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	10 H	0.61 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	100 mH	0.61 %



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40	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	20 mH	0.61 %
41	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	30 mH	0.61 %
42	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Multi Product Calibrator by Direct Method	50 mH	0.61 %
43	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (Lag / Lead) 230 V, 5A	Using Multi Product Calibrator by Direct Method	0.2 (Lag / Lead) PF to UPF	0.008 PF to 0.066 PF
44	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct method	10 µA to 100 µA	0.43 % to 0.12 %
45	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 10 A	0.12 % to 0.16 %



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	0.43 % to 0.48 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct method	1 V to 10 V	0.023 % to 0.007 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.48 % to 0.02 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct method	10 V to 100 V	0.007 % to 0.011 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.02 % to 0.023 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct method	100 V to 1000 V	0.011 % to 0.012 %



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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 - Wire)	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.07 % to 0.069 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 - Wire)	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.069 % to 0.35 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 - Wire)	Using 6½ Digit Multimeter by Direct Method	100 ohm to 1 Mohm	0.24 % to 0.07 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 - Wire)	Using 6½ Digit Multimeter by Direct Method	1 ohm to 10 ohm	0.52 % to 1.16 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 - Wire)	Using 6½ Digit Multimeter by Direct Method	10 ohm to 100 ohm	1.16 % to 0.24 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.01 % to 0.04 %



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58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 mA to 100 mA	0.02 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	10 µA to 100 µA	0.13 % to 0.02 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with 2 Turn Current Coil by Direct Method	10 A to 60 A	1.76 % to 0.85 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 µA to 1 mA	0.02 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.02 % to 0.01 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with 50 Turn Current Coil by Direct Method	250 A to 1000 A	0.98 % to 1.50 %



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64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with 10 Turn Current Coil by Direct Method	50 A to 300 A	1.08 % to 0.98 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.003 % to 0.002 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	5.89 % to 0.69 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 V to 1000 V	0.002 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 1 Phase Calibration Source by Direct Method	100 mV to 1 V	0.69 % to 0.35 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 - Wire)	Using Decade Resistance box by Direct Method	10 kohm to 10 Mohm	0.004 % to 0.12 %



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70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 - Wire)	Using Decade Resistance box by Direct Method	10 Mohm to 1000 Mohm	0.12 % to 0.6 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using 4 Wire Low Resistance Standard by Direct Method	1 mohm	0.14 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using 4 Wire Low Resistance Standard by Direct Method	1 ohm	0.14 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using Decade Resistance box by Direct Method	1 ohm to 10 kohm	0.23 % to 0.019 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using 4 Wire Low Resistance Standard by Direct Method	10 µohm	1.08 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using 4 Wire Low Resistance Standard by Direct Method	10 mohm	0.14 %



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76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using 4 Wire Low Resistance Standard by Direct Method	100 μ ohm	0.18 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using 4 Wire Low Resistance Standard by Direct Method	100 mohm	0.14 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 - Wire)	Using 4 Wire Low Resistance Standard by Direct Method	50 μ ohm	0.36 %
79	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude @ 1 kHz Sinewave (12 mV to 120 V)	Using Multi Product Calibrator by Direct Method	2 mV/div to 20 V/div	0.29 % to 0.12 %
80	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth @ upto 600 mV(p-p)	Using Multi Product Calibrator by Direct Method	5 MHz to 600 MHz	1.52 % to 8.67 %
81	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Timebase (p-p)	Using Multi Product Calibrator by Direct Method	2 ns/div to 5 s /div	0.29 % to 0.12 %



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82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type Thermocouple	Using Multi Product Calibrator by Direct Method	600 °C to 1800 °C	0.80 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.50 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.27 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1340 °C	0.31 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.49 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.94 °C



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88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt 100) - 4 Wire	Using Multi Function Calibrator by Direct Method	(-) 100 °C to 800 °C	0.64 °C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.94 °C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.69 °C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using Multi Product Calibrator by Direct Method	600 °C to 1800 °C	0.85 °C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.50 °C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.27 °C



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94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1340 °C	0.32 °C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.50 °C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.93 °C
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt 100) - 2 Wire	Using Multi Product Calibrator by Direct Method	(-) 100 °C to 800 °C	0.60 °C
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.94 °C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.70 °C



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100	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 100 kHz	0.08 % to 0.015 %
101	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	100 kHz to 300 kHz	0.015 % to 0.012 %
102	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	3 Hz to 10 Hz	0.21 % to 0.08 %
103	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method	1 s to 24 Hr	0.12 s to 7.21 s
104	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1 Hz to 10 Hz	0.02 % to 0.003 %
105	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	10 Hz to 10 MHz	0.003 % to 0.017 %



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106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer (Analog / Digital) (L.C: 0.01 mm & Coarser)	Using Slip Gauges / Long Slip Gauges by Comparison Method	> 1000 mm to 1500 mm	9.46 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Granite / Cast Iron	Using Electronic Level by Comparison Method	Up to 3500 mm x 2600 mm	0.54 x sqrt(L+W)/100 µm, L, W is in mm
108	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic - Digital & Dial Pressure Gauge / Pressure Transmitter / Transducer with or without indicator, Pressure Switch with indicator	Using Portable Pressure Calibrator and Multifunction Calibrator by Comparison Method based on DKD R-6- 1	0 to 700 bar	0.05 %
109	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic - Pneumatic Digital & Dial Pressure Gauge / Pressure Transmitter / Transducer with or without indicator, Pressure Switch with indicator	Using Portable Pressure Calibrator and Multifunction Calibrator by Comparison Method based on DKD R-6- 1	0 to 20 bar	0.09 %



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110	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum - Digital & Dial Vacuum Gauge / Vacuum Transmitter / Transducer with or without indicator, Pressure Switch with Indicator	Using Portable Pressure Calibrator and Multifunction Calibrator by Comparison Method based on DKD R-6- 1	(-) 0.9 bar to 0	0.90 %
111	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature and Humidity Indicator of Humidity Chamber, Environmental & Humidity Chamber, Conditional Chamber - Single Position Calibration	Using Digital Temperature & Humidity Indicator with sensor by comparison method	20 %rh to 95 %rh @ 20 °C to 50 °C	1.27 %rh
112	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature and Humidity Indicator of Humidity Chamber, Environmental & Humidity Chamber, Conditional Chamber - Single Position Calibration	Using Digital Temperature & Humidity Indicator with Sensor by Comparison Method	20 °C to 50 °C @ 50 %rh	0.37 °C



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113	THERMAL-TEMPERATURE	Deep Freezer, Freezer, Refrigerator, Incubator Environmental Chamber, Cold Chamber, Temperature Chamber - Multi Position Calibration	Using RTD Sensors with Data Logger (Minimum 9) by Comparison Method	(-) 80 °C to 0 °C	0.72 °C
114	THERMAL-TEMPERATURE	Incubator (for non-medical applications only), Oven, Hot Air Oven, Furnace, Auto Clave, Hot Chamber, Salt Spray Chamber, Environmental Chamber - Multi Position Calibration	Using RTD Sensors with Data Logger (Minimum 9) by Comparison Method	> 0 °C to 200 °C	1.8 °C
115	THERMAL-TEMPERATURE	Oven, Furnace, Thermal Chamber, Vacuum Furnace, Hot Air Oven - Multi Position Calibration	Using N type Thermocouples with Data logger (Minimum 9) by Comparison Method	> 200 °C to 1200 °C	3.2 °C



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116	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Controller, Data Logger with Sensor, Thermometer with Probe, Temperature Transmitter	Using SSPRT Sensor, Multifunction Calibrator, Portable Furnace by Comparison Method	(-) 25 °C to 0 °C	0.21 °C
117	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Controller, Data Logger with sensor, Thermometer with Probe, Temperature Transmitter	Using SSPRT Sensor, Multifunction Calibrator, Portable Furnace by Comparison Method	> 0 °C to 660 °C	0.51 °C
118	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Deep Freezer, Freezer, Refrigerator, Liquid Bath, Low Temperature Bath, Environmental Chamber, Cold Chamber, Temperature Chamber Temperature Bath - Single Position Calibration	Using 4 Wire RTD Sensor with indicator by Comparison Method	(-) 80 °C to 0 °C	0.61 °C



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119	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Freezer, Incubator (for non-medical applications only), Refrigerator, Oven, Furnace, Autoclave, Temperature / Liquid Bath, Hot Air Oven, Chamber (Temperature / Salt Spray) - Single Position Calibration	Using 4 Wire RTD Sensor with Multifunction Calibrator by Comparison Method	> 0 °C to 200 °C	0.34 °C
120	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Furnace, Dry Block Temperature Calibrator - Single Position Calibration	Using S-Type Thermocouple with Multifunction Calibrator by Comparison Method	> 1200 °C to 1500 °C	2.85 °C
121	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Furnace, Dry Block Temperature Calibrator, Muffle Furnace - Single Position Calibration	Using S-Type Thermocouple with indicator by Comparison Method	> 400 °C to 1200 °C	1.5 °C



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122	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Oven, Furnace, Temperature Bath, Hot Air Oven, Muffle Furnace - Single Position Calibration	Using 4 Wire RTD sensor with indicator by Comparison Method	> 200 °C to 400 °C	0.32 °C
123	THERMAL-TEMPERATURE	Thermocouple with or without Indicator / Controller, Data Logger with Sensor, Thermometer with Probe, Temperature Transmitter	Using S-Type Thermocouple with Indicator, Multifunction Calibrator & Portable Furnace by Comparison Method	> 660 °C to 1200 °C	1.47 °C

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