National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

REVA PHOENIX LABS & CONSULTANTS 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

REVA PHOENIX COMPLEX, NO. 14, 4TH STREET, RAJARAJESWARI NAGAR, MADIPAKKAM, CHENNAI, TAMIL NADU, INDIA

in the field of

CALIBRATION

Certificate Number: CC-4178

Issue Date: 19/12/2024 **Valid Until:** 29/10/2028

This certificate supersedes the Certificate No. CC-2428 with issue date 30/10/2024 in view of change in legal entity of the laboratory

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

Name of Legal Entity: REVA PHOENIX LABS & CONSULTANTS PRIVATE LIMITED

Signed for and on behalf of NABL

Anita Rani
Director

N. Venkateswaran
Chief Executive Officer

SCOPE OF ACCREDITATION

Laboratory Name : REVA PHOENIX LABS & CONSULTANTS PRIVATE LIMITED, REVA PHOENIX COMPLEX, NO. 14, 4TH STREET, RAJARAJESWARI NAGAR, MADIPAKKAM, CHENNAI, 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 @ 1 kHz to 5 kHz	Using 8½ Digit Multimeter by Direct Method	1 A to 20 A	0.11 % to 0.3 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to 5 kHz	Using 8½ Digit Multimeter by Direct Method	1 mA to 1 A	0.058 % to 0.11 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 1 kHz	Using 8½ Digit Multimeter by Direct Method	1 A to 20 A	0.094 % to 0.11 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 1 kHz	Using 8½ Digit Multimeter by Direct Method	1 mA to 1 A	0.058 % to 0.094 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 1 kHz	Using 8½ Digit Multimeter by Direct Method	100 µA to 1 mA	0.079 % to 0.058 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 1 kHz	Using 8½ Digit Multimeter by Direct Method	30 µA to 100 µA	0.14 % to 0.079 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter with Shunt by V/I Method	150 A to 1000 A	1.42 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Probe with Digital Multimeter by Direct Method	1 kV to 28 kV	6 % to 2.8 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1 kHz	Using LCR Meter by Direct Method	1 ohm to 100 ohm	0.3 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 20 kHz	Using 8½ Digit Multimeter by Direct Method	100 mV to 1000 V	0.045 % to 0.03 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 kHz to 100 kHz	Using 8½ Digit Multimeter by Direct Method	100 mV to 100 V	0.105 % to 0.082 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 8½ Digit Multimeter by Direct Method	1 mV to 100 mV	0.48 % to 0.02 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 8½ Digit Multimeter by Direct Method	100 mV to 1000 V	0.02 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Meter by Direct Method	1 µF to 10 µF	0.23 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Meter by Direct Method	10 nF to 1 µF	0.23 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Meter by Direct Method	10 pF to 100 pF	0.35 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Meter by Direct Method	100 pF to 10 nF	0.35 % to 0.23 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 100 Hz	Using LCR Meter by Direct Method	1 µF to 10 µF	0.24 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using LCR Meter by Direct Method	100 µH to 10 H	0.46 % to 0.24 %

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Active Energy @ (45 Hz to 65 Hz, 0.2 (Lead/ Lag) to UPF, 63.5 V to 240 V, 0.05 A to 10 A)	Using 3Ø Energy Calibration Source by Direct Method	0.64 Wh to 2.4 kWh	0.21 % to 0.19 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Active Energy @ (45 Hz to 65 Hz, 0.2 (Lead/ Lag) to UPF, 63.5 V to 240 V, 10 A to 20 A)	Using 3Ø Energy Calibration Source by Direct Method	0.127 kWh to 4.8 kWh	0.19 % to 0.16 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Active Power @ (50 Hz, 0.2 (Lead / Lag), 120 V to 240 V, 0.1 A to 20 A)	Using Multi Product Calibrator by Direct Method	2.4 W to 960 W	1.2 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Active Power @ (50 Hz, 0.5 (Lead / Lag), 120 V to 240 V, 0.1 A to 20 A)	Using Multi Product Calibrator by Direct Method	6 W to 2.4 kW	0.37 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Active Power @ (50 Hz, 0.8 (Lead / Lag), 120 V to 240 V, 0.1 A to 20 A)	Using Multi Product Calibrator by Direct Method	9.6 W to 3.8 kW	0.16 %

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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Active Power @ (50 Hz, 120 V to 240 V, 0.01 A to 20 A, UPF)	Using Multi Product Calibrator by Direct Method	1.2 W to 4.8 kW	0.12 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Power Factor @ (50 Hz, 120 V to 240 V, 0.1 A to 20 A)	Using Multi Product Calibrator by Direct Method	0.2 (Lead / Lag) to UPF	0.002 PF to 0.001 PF
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 3 Wire, AC Active Energy @ (45 Hz to 65 Hz, 0.2 (Lead/ Lag) to UPF, 63.5 V to 240 V, 0.05 A to 10 A)	Using 3Ø Energy Calibration Source by Direct Method	1.10 Wh to 4.16 kWh	0.21 % to 0.19 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 3 Wire, AC Active Energy @ (45 Hz to 65 Hz, 0.2 (Lead/ Lag) to UPF, 63.5 V to 240 V, 10 A to 20 A)	Using 3Ø Energy Calibration Source by Direct Method	0.219 kWh to 8.31 kWh	0.19 % to 0.16 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 3 Wire, AC Active Power @ (50 Hz, 0.2 Lead / Lag to UPF, 63.5 V to 240 V, 0.05 A to 20 A)	Using 3Ø Energy Calibration Source by Direct Method	1.09 W to 8.31 kW	0.13 % to 0.25 %

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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, AC Power Factor @ (50 Hz, 240 V, 1 A to 5 A)	Using 3Ø Energy Calibration Source by Direct Method	0.2 (Lead / Lag) to UPF	0.004 PF
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 mA to 10 A	0.13 % to 0.14 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 A to 20 A	0.14 % to 0.2 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 µA to 1 mA	0.26 % to 0.13 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	30 µA to 100 µA	0.53 % to 0.26 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with 50 Turns Current Coil by Direct Method	10 A to 1000 A	0.33 %

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36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @1 kHz to 10 kHz	Using Multi Product Calibrator by Direct Method	19 mA to 3 A	0.25 % to 3.08 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 50 kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.056 % to 0.048 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 50 kHz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.036 % to 0.056 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.047 % to 0.043 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 45 Hz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.051 % to 0.047 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 mV to 100 mV	0.72 % to 0.036 %

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42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 V to 1000 V	0.025 % to 0.038 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.036 % to 0.025 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 kHz to 450 kHz	Using Multi Product Calibrator by Direct Method	30 mV to 3 V	1.12 % to 0.037 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	using Decade Capacitance Box by Direct Method	100 pF to 220 pF	0.66 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	220 pF to 1 nF	0.66 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	300 nF to 10 µF	0.63 %

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48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	1 nF to 300 nF	0.66 % to 0.63 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multi Product Calibrator by Direct Method	700 nF to 10 µF	0.46 % to 0.41 %
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multi Product Calibrator by Direct Method	1 nF to 700 nF	1.73 % to 0.46 %
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multi Product Calibrator by Direct Method	10 µF to 109 µF	0.41 % to 0.63 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	0.69 % to 0.74 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct Method	1 µA to 10 µA	0.11 % to 0.01 %

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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct Method	1 A to 20 A	0.022 % to 0.048 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct Method	10 µA to 100 µA	0.01 % to 0.003 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct Method	100 µA to 100 mA	0.003 % to 0.005 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct Method	100 mA to 1 A	0.005 % to 0.022 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter with shunt by V/I Method	150 A to 1000 A	1.03 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with Digital Multimeter by Direct Method	0.5 kV to 20 kV	3.56 % to 1.97 %

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60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with Digital Multimeter by Direct Method	20 kV to 40 kV	1.97 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 8½ Digit Multimeter by Direct Method	10 Mohm to 2 Gohm	0.003 % to 0.15 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 8½ Digit Multimeter by Direct Method	100 kohm to 10 Mohm	0.001 % to 0.003 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 8½ Digit Multimeter by Direct Method	2 Gohm to 20 Gohm	0.15 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 8½ Digit Multimeter by Direct Method	1 mohm to 1 ohm	0.47 % to 0.002 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 8½ Digit Multimeter by Direct Method	1 ohm to 100 kohm	0.002 % to 0.001 %

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66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 8½ Digit Multimeter by Direct Method	1 ohm to 100 kohm	0.023 % to 0.012 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct Method	0.1 mV to 1 mV	0.13 % to 0.012 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct Method	1 mV to 10 mV	0.012 % to 0.0048 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.0048 % to 0.00082 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct Method	100 mV to 1000 V	0.00082 % to 0.00077 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using Multi Product Calibrator with 8½ Digital Multimeter by V/I Method	75 µohm to 1 mohm	0.5 %

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72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 µA to 100 µA	0.25 % to 0.04 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 A to 20 A	0.028 % to 0.12 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with 50 Turns Current Coil by Direct Method	10 A to 1000 A	0.3 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 mA to 1 A	0.015 % to 0.028 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 µA to 10 mA	0.04 % to 0.015 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power @ 1 V to 1000 V, 10 mA to 20 A	Using Multi Product Calibrator by Direct Method	10 mW to 20 kW	0.4 % to 0.081 %

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78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi Product Calibrator by Direct Method	1 Mohm to 100 Mohm	0.0042 % to 0.059 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Megaohm Box by Direct Method	1 Mohm to 100 Mohm	0.58 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi Product Calibrator by Direct Method	100 kohm to 1 Mohm	0.0034 % to 0.0042 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Megaohm Box by Direct Method	100 kohm to 1 Mohm	0.012 % to 0.58 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Megaohm Box by Direct Method	100 Mohm to 1 Gohm	0.58 % to 0.6 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire @ 1000 V	Using Decade Megaohm Box by Direct Method	1 Gohm to 100 Gohm	0.6 % to 2.6 %

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84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire @ 1000 V	Using Decade Megaohm Box by Direct Method	100 Gohm to 1000 Gohm	2.6 % to 4.1 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 kohm to 100 kohm	0.0034 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 ohm to 100 ohm	0.0076 % to 0.0034 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	1 ohm to 100 ohm	0.024 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	100 ohm to 1 kohm	0.0034 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	100 ohm to 100 kohm	0.024 % to 0.012 %

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90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	0.1 mV to 1 mV	1.17 % to 0.12 %
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	0.12 % to 0.014 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 V to 1000 V	0.002 % to 0.0024 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.014 % to 0.004 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.004 % to 0.002 %
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multi Product Calibrator by Direct Method	100 Mohm to 1000 Mohm	0.059 % to 1.85 %

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96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	0.01 ohm to 1 ohm	0.061 % to 0.007 %
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 kohm to 100 kohm	0.0029 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 ohm to 100 ohm	0.007 % to 0.0029 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	100 ohm to 1 kohm	0.0029 %
100	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Magnet, Magnet	Using Reference Gauss Meter by Direct Method	100 Gauss to 10000 Gauss	5.5 % to 5.52 %
101	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Magnet, Magnet	Using Reference Gauss Meter by Direct Method	2.5 Gauss to 100 Gauss	5.5 %

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102	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter - (0.1 µS to 200 mS)	Using Decade Resistance Box & Decade Megaohm Box by Direct Method	20 ohm to 10 Mohm	1.61 % to 7.86 %
103	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Gauss Meter	Using Reference Gauss Meter & Standard Reference Magnets by Comparison Method	2.5 Gauss to 10000 Gauss	6.6 %
104	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth @ 50 kHz	Using Multi Product Calibrator by Direct Method	50 kHz to 1 GHz	6 %
105	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time Base	Using Multi Product Calibrator by Direct Method	1 ns to 5 s	0.03 % to 0.58 %
106	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope AC Amplitude (Vertical Axis Deflection Factor) @ 1 kHz - 1 Mohm	Using Multi Product Calibrator by Direct Method	1 mV to 130 V	4.73 % to 0.14 %
107	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope DC Amplitude (Vertical Axis Deflection Factor) @ 1 Mohm	Using Multi Product Calibrator by Direct Method	1 mV to 130 V	4.7 % to 0.06 %

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108	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter - (0 to 20 pH)	Using Multi Product Calibrator by Direct Method	(-) 400 mV to 400 mV	0.057 %
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD {(PT 385 (100 O), PT 385 (200 O), PT 385 (500 O), PT 385 (1000 O)}	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 800 °C	0.015 °C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using 8½ Digit Multimeter by Direct Method	600 °C to 1800 °C	0.05 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using 8½ Digit Multimeter by Direct Method	(-) 250 °C to 1000 °C	0.04 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1200 °C	0.04 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1370 °C	0.04 °C

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114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - L Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 900 °C	0.04 °C
115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1300 °C	0.04 °C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using 8½ Digit Multimeter by Direct Method	0 °C to 1760 °C	0.05 °C
117	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using 8½ Digit Multimeter by Direct Method	0 °C to 1750 °C	0.05 °C
118	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using 8½ Digit Multimeter by Direct Method	(-) 250 °C to 400 °C	0.04 °C
119	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - U Type	Using 8½ Digit Multimeter by Direct Method	(-) 250 °C to 600 °C	0.04 °C

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120	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD {PT 385 (100 O), PT 385 (200 O), PT 385 (500 O), PT 385 (1000 O)}	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.05 °C
121	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Multi Product Calibrator by Direct Method	600 °C to 1820 °C	0.14 °C
122	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.06 °C
123	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.07 °C
124	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.08 °C
125	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - L Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 900 °C	0.06 °C

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126	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.08 °C
127	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Multi Product Calibrator by Direct Method	0 °C to 1767 °C	0.17 °C
128	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Multi Product Calibrator by Direct Method	0 °C to 1767 °C	0.15 °C
129	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Multi Product Calibrator by Direct Method	(-) 250 °C to 400 °C	0.06 °C
130	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - U Type	Using Multi Product Calibrator by Direct Method	(-) 250 °C to 600 °C	0.06 °C
131	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	3 Hz to 300 kHz	0.058 % to 0.012 %

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132	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	300 kHz to 1 MHz	0.012 % to 0.013 %
133	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	0.1 s to 60 s	0.011 s to 0.018 s
134	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	1800 s to 3600 s	0.03 s to 0.059 s
135	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	3600 s to 36000 s	0.059 s to 0.77 s
136	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	36000 s to 86400 s	0.77 s to 1.51 s
137	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	60 s to 600 s	0.018 s to 0.03 s

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138	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	600 s to 1800 s	0.03 s
139	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1 Hz to 1000 Hz	0.001 % to 0.0006 %
140	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 kHz to 2 MHz	0.0003 %
141	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1000 Hz to 100 kHz	0.0006 % to 0.0003 %
142	FLUID FLOW-FLOW MEASURING DEVICES	Analog / Digital - Flow Meter, Gas Flow Meter, Mass Flow Controller, Mass Flow Meter, Rotameter, Orifice Flow Meter, Dry Gas Meter, Flow Calibrator (Medium - Air / Gas)	Using Orifice Flow Calibrator by Comparison Method	50 lpm to 500 lpm	1 %

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143	FLUID FLOW-FLOW MEASURING DEVICES	Analog / Digital - Gas Flow Meter, Mass Flow Controller, Mass Flow Meter, Rotameter, Orifice Flow Meter, Dry Gas Meter, Flow Calibrator (Medium - Air / Gas)	Using Laminar Gas Flow Calibrator by Comparison Method	1 ccm to 500 ccm	1.5 %
144	FLUID FLOW-FLOW MEASURING DEVICES	Analog / Digital - Gas Flow Meter, Rotameter, Dry Gas Meter, Orifice Flow Meter, Flow Calibrator (Medium - Air)	Using Laminar Gas Flow Calibrator by Comparison Method	0.5 lpm to 50 lpm	0.9 %
145	FLUID FLOW-FLOW MEASURING DEVICES	Anemometer, Air Velocity Sensor, Air Velocity Meter with Pen Type Sensor, Hot Wire Anemometer, Velocity Transmitter, Velocity Meter, Pitot Tube (Hot Wire / Vane Type)	Using Digital Anemometer & Wind Tunnel by Comparison Method	0.22 m/s to 23 m/s	7.5 %

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146	FLUID FLOW-FLOW MEASURING DEVICES	Digital / Analog - Water Flow Meter, Rotameter, Digital Flow Meter, Electro Magnetic Flow Meter, Ultrasonic Flow Calibrator	Using Magnetic Flow Meter, 6½ Digit Multimeter by Comparison Method	2.5 m^3/hr to 160 m^3/hr	1.2 %
147	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source, RPM Stirrer, RPM Mixer	Using Digital Tachometer by Comparison Method	> 10000 RPM to 50000 RPM	3 RPM
148	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source, RPM Stirrer, RPM Mixer	Using Digital Tachometer by Comparison Method	> 50000 RPM to 99999 RPM	3.42 RPM
149	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source, RPM Stirrer, RPM Mixer	Using Digital Tachometer by Comparison Method	> 60 RPM to 10000 RPM	1.6 RPM
150	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source, RPM Stirrer, RPM Mixer	Using Digital Tachometer by Comparison Method	15 RPM to 60 RPM	1.6 RPM
151	MECHANICAL-ACCELERATION AND SPEED	RPM Source, RPM Mixer - Contact Mode	Using Digital Tachometer by Comparison Method	> 100 RPM to 9999 RPM	1.4 RPM
152	MECHANICAL-ACCELERATION AND SPEED	RPM Source, RPM Mixer - Contact Mode	Using Digital Tachometer by Comparison Method	20 RPM to 100 RPM	0.41 RPM
153	MECHANICAL-ACCELERATION AND SPEED	Stroboscope, RPM Source, RPM Stirrer, RPM Mixer - Non - Contact Mode	Using Digital Tachometer by Comparison Method	> 10000 RPM to 50000 RPM	2.79 RPM

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154	MECHANICAL-ACCELERATION AND SPEED	Stroboscope, RPM Source, RPM Stirrer, RPM Mixer - Non - Contact Mode	Using Digital Tachometer by Comparison Method	> 50000 RPM to 99999 RPM	3.42 RPM
155	MECHANICAL-ACCELERATION AND SPEED	Stroboscope, RPM Source, RPM Stirrer, RPM Mixer - Non - Contact Mode	Using Digital Tachometer by Comparison Method	> 60 RPM to 10000 RPM	1.63 RPM
156	MECHANICAL-ACCELERATION AND SPEED	Stroboscope, RPM Source, RPM Stirrer, RPM Mixer - Non - Contact Mode	Using Digital Tachometer by Comparison Method	15 RPM to 60 RPM	0.3 RPM
157	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer and RPM Source by Comparison Method	> 100 RPM to 9999 RPM	1.4 RPM
158	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer and RPM Source by Comparison Method	20 RPM to 100 RPM	0.41 RPM
159	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non - Contact Type	Using Digital Tachometer and RPM Source by Comparison Method	> 10000 RPM to 50000 RPM	2.79 RPM
160	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non - Contact Type	Using Digital Tachometer and RPM Source by Comparison Method	> 50000 RPM to 99999 RPM	3.42 RPM

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161	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non - Contact Type	Using Digital Tachometer and RPM Source by Comparison Method	> 60 RPM to 10000 RPM	1.63 RPM
162	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non - Contact Type	Using Digital Tachometer and RPM Source by Comparison Method	15 RPM to 60 RPM	0.3 RPM
163	MECHANICAL-ACCELERATION AND SPEED	Vibration Machine, Vibration Shaker, Portable Vibration Calibrator - Acceleration @ 10 Hz to 1280 Hz	Using Accelerometer with Signal Analyser & Precision Multimeter by Comparison Method	0.5 m/s^2 to 199.9 m/s^2	5 %
164	MECHANICAL-ACCELERATION AND SPEED	Vibration Machine, Vibration Shaker, Portable Vibration Calibrator - Displacement @ 10 Hz to 1280 Hz	Using Accelerometer with Signal Analyser & Precision Multimeter by Comparison Method	0.014 mm to 1.999 mm	5 %
165	MECHANICAL-ACCELERATION AND SPEED	Vibration Machine, Vibration Shaker, Portable Vibration Calibrator - Velocity @ 10 Hz to 1280 Hz	Using Accelerometer with Signal Analyser & Precision Multimeter by Comparison Method	0.5 mm/s to 199.9 mm/s	5 %

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166	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter - Displacement @ 10 Hz to 320 Hz	Using Vibration Calibration Reference System, Vibration Meter & Precision Multimeter by Comparison Method as per ISO 16063	0.014 mm to 1.999 mm	5.4 %
167	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter - Velocity @ 10 Hz to 1280 Hz	Using Vibration Calibration Reference System, Vibration Meter & Precision Multimeter by Comparison Method as per ISO 16063	1 mm/s to 199.9 mm/s	5.4 %
168	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter, Vibration Sensor - Acceleration @ 10 Hz to 1280 Hz	Using Vibration Calibration Reference System, Vibration Meter & Precision Multimeter by Comparison Method as per ISO 16063	0.5 m/s^2 to 199.9 m/s^2	5 %
169	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz (Weighing A & C)	Using Sound Level Calibrator by Direct Method as per IS 15575-2 & OIML R58	114 dB	0.58 dB

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170	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz (Weighing A & C)	Using Sound Level Calibrator by Direct Method as per IS 15575-2 & OIML R58	94 dB	0.58 dB
171	MECHANICAL-DENSITY AND VISCOSITY	Alcoholmeter	Using Standard Hydrometer and Liquid of known Densities as per IS 3608	0 % v/v to 100 % v/v	1 % v/v
172	MECHANICAL-DENSITY AND VISCOSITY	Baume Hydrometer	Using Standard Hydrometer and Liquid of known Densities as per IS 1255	0 °Be to 70 °Be	0.1 °Be
173	MECHANICAL-DENSITY AND VISCOSITY	Brix Hydrometer	Using Standard Hydrometer and Liquid of known Densities by Hydrostatic Weighing Method as per IS 7324	0 °Brix to 100 °Brix	0.05 °Brix
174	MECHANICAL-DENSITY AND VISCOSITY	Density of Liquid	Using Semi Micro Balance of Range 220 g (Readability : 0.01 mg) with Calibrated Pycnometer as per IS 4730 & OIML G 14	0.6 g/ml to 2 g/ml	0.00004 g/ml

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175	MECHANICAL-DENSITY AND VISCOSITY	Density of Solid	Using Semi Micro Balance of Range 220 g (Readability : 0.01 mg) with Density Determination Kit by Archimedes Principle as per OIML G14	0.5 g/ml to 15 g/ml	0.0031 g/ml
176	MECHANICAL-DENSITY AND VISCOSITY	Ford Cup, DIN Cup, ISO Cup, Sheen Cup, B1 to B5 Cup, Dip Cup, Flow Cup, Shell Cup, Zahn Cup (Orifice Diameter: 1 mm to 7.12 mm)	Using Standard Viscosity Solutions, Timer, Temperature Indicator with Sensor by Comparison Method as per IS 3944 & ASTM D1200	17.05 cSt to 455.1 cSt	0.12 % to 0.17 %
177	MECHANICAL-DENSITY AND VISCOSITY	Lactometer	Using Standard Hydrometer and Liquid of known Densities by Hydrostatic Weighing Method as per IS 3104	1 g/ml to 1.04 g/ml	0.04 g/ml
178	MECHANICAL-DENSITY AND VISCOSITY	Sikes Hydrometer	Using Standard Hydrometer and Liquid of known Densities by Hydrostatic Weighing Method as per IS 3608	0 °sk to 100 °sk	0.4 °sk

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179	MECHANICAL-DENSITY AND VISCOSITY	Specific Gravity / Relative Density - Density Hydrometer, Specific Gravity Hydrometer	Using Hydrostatic Weighing Set Up, Weighing Balance with Underside Weighing Arrangement as per Cuckow Method, SIM MWG7/cg-03/v.00, OIML G14	0.6 g/ml to 2 g/ml	0.0003 g/ml
180	MECHANICAL-DENSITY AND VISCOSITY	Twaddle Hydrometer	Using Standard Hydrometer and Liquid of known Densities by Hydrostatic Weighing Method as per IS 3104	0 °Tw to 104 °Tw	0.25 °Tw
181	MECHANICAL-DENSITY AND VISCOSITY	Viscosity (Dynamic Viscosity) - Rotational Viscometer, Krebs Viscometer, Paddle Viscometer, Brook Field Viscometer	Using Calibrated Newtonian Liquids by Comparison Method as per ISO 2555 & ISO 1652	1000 cP to 10000 cP	0.5 %
182	MECHANICAL-DENSITY AND VISCOSITY	Viscosity (Dynamic Viscosity) - Rotational Viscometer, Krebs Viscometer, Paddle Viscometer, Brook Field Viscometer	Using Calibrated Newtonian Liquids by Comparison Method as per ISO 2555 & ISO 1652	10000 cP to 94960 cP	0.5 %

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183	MECHANICAL-DENSITY AND VISCOSITY	Viscosity (Dynamic Viscosity) - Rotational Viscometer, Krebs Viscometer, Paddle Viscometer, Brook Field Viscometer	Using Calibrated Newtonian Liquids by Comparison Method as per ISO 2555 & ISO 1652	500 cP to 1000 cP	0.5 %
184	MECHANICAL-DENSITY AND VISCOSITY	Viscosity (Dynamic Viscosity) - Rotational Viscometer, Krebs Viscometer, Paddle Viscometer, Brook Field Viscometer	Using Calibrated Newtonian Liquids by Comparison Method as per ISO 2555 & ISO 1652	39.82 cP to 500 cP	0.5 %
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate, Box Angle Plate - Flatness	Using Plunger Dial, Surface Plate by Comparison Method	0 to 600 mm	3.8 µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate, Box Angle Plate - Parallelism	Using Plunger Dial, Surface Plate by Comparison Method	Up to 600 mm	3.8 µm

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187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate, Box Angle Plate - Squareness	Using Cylindrical Square, Surface Plate, Gauge Block by Comparison Method	Up to 600 mm	3.8 µm
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bridge Cam Gauge - Angle	Using Profile Projector by Direct Method	0 ° to 60 °	2.47 minute of arc
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bridge Cam Gauge - Linear	Using Profile Projector by Direct Method	Up to 60 mm	4.6 µm
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Brinell Ball Indenter - Linear	Using Profile Projector by Direct Method	Up to 10 mm	2.61 µm
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital / Groove (L.C.: 0.01 mm & Coarser)	Using Long Slip Gauge, Gauge Block by Comparison Method	0 to 1000 mm	10.55 µm

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192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital / Groove (L.C.: 0.01 mm & Coarser)	Using Long Slip Gauge, Gauge Block by Comparison Method	0 to 2000 mm	13.8 µm
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital / Groove (L.C.: 0.01 mm & Coarser)	Using Step Gauge (Caliper Checker), Gauge Block by Comparison Method	0 to 600 mm	8.8 µm
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital / Groove (L.C.: 0.01 mm & Coarser)	Using Step Gauge (Caliper Checker), Gauge Block by Comparison Method	0 to 300 mm	6.69 µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Chamfer Gauge Set - Angle	Using Profile Projector by Comparison Method	0 ° to 90 °	10 minute of arc
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Chamfer Gauge Set - Length	Using Profile Projector by Comparison Method	0 to 50 mm	11.4 µm

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197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Clinometer (L.C.: 0.5° & Coarser)	Using Sine Bar, Gauge Block Set by Comparison Method as per MOY/SCMI/36	0 ° to 90 °	1.49 minute of arc
198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge, DFT Gauge, DFT Meter (L.C.: 0.001 mm)	Using Foils by Comparison Method	0.01 mm to 2 mm	0.6 µm
199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge, DFT Gauge, DFT Meter (L.C.: 0.01 mm or Coarser)	Using Foils by Comparison Method	> 2 mm to 5 mm	5.1 µm
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set (L.C.: 1°)	Using Profile Projector by Direct Method	0° - 90° - 0°	19.29 minute of arc
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using LVDT Electronic Comparator and Optical Flat by Direct Method	Up to 50 mm	0.3 µm

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202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cone Master - Angle	Using Profile Projector by Direct Method	55° & 60 °	3 minute of arc
203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Crimping Tool - Angular	Using Profile Projector by Comparison Method	0 ° to 180 °	6 minute of arc
204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Crimping Tool - Linear	Using Profile Projector by Comparison Method	Up to 50 mm	7 µm
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter - Angle	Using Profile Projector by Direct Method	45 °	3.6 minute of arc
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter - Pitch	Using Profile Projector by Direct Method	Up to 3 mm	2.8 µm

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207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould, Rectangular Mould, Cylindrical Mould - Linear	Using Digital Caliper by Comparison Method as per IS 10086	Up to 300 mm	26.5 µm
208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Degree Protractor (L.C.: 0.1° & Coarser)	Using Profile Projector by Direct Method	0 ° to 180 °	5.36 minute of arc
209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Dial / Hook / Digital (L.C.: 0.01 mm & Coarser)	Using Slip Gauge and Long Slip Gauge by Comparison Method	> 300 mm to 1000 mm	8.6 µm
210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Dial / Hook / Digital (L.C.: 0.01 mm & Coarser)	Using Slip Gauge and Long Slip Gauge by Comparison Method	0 to 300 mm	4.3 µm
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Dial / Hook / Digital (L.C.: 0.01 mm & Coarser)	Using Step Gauge (Depth Micro - Checker) & Gauge Block by Comparison Method	0 to 300 mm	7.39 µm

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212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer - Dial / Digital / Analog (L.C.: 0.001 mm & Coarser)	Using Slip Gauge and Long Slip Gauge by Comparison Method as per JIS B 7544	> 100 mm to 300 mm	2.04 µm
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer - Dial / Digital / Analog (L.C.: 0.001 mm & Coarser)	Using Slip Gauge and Long Slip Gauge by Comparison Method as per JIS B 7544	0 to 100 mm	1.06 µm
214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer - Dial / Digital / Analog (L.C.: 0.001 mm & Coarser)	Using Step Gauge (Depth Micro - Checker), Slip Gauge by Comparison Method as per JIS B 7544	0 to 300 mm	3.86 µm
215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge, Bore Gauge - Transmission Error (L.C.: 0.001 mm & Coarser) (Stem / Split Type)	Using Electronic Dial Calibration Tester & Dial Indicator by Comparison Method as per JIS B 7515	Up to 1.5 mm	2.01 µm
216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge, Bore Gauge - Transmission Error (L.C.: 0.001 mm & Coarser) (Stem / Split Type)	Using Length Measuring Machine by Direct Method as per JIS B 7515	Up to 2 mm	0.78 µm

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217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge, Groove Dial Gauge - Dial / Digital (Internal Type) (L.C.: 0.005 mm & Coarser)	Using Gauge Block, Slip Gauge Accessories Set by Comparison Method	2.5 mm to 50 mm	2.82 µm
218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge, Groove Dial Gauge - Dial / Digital (Internal Type) (L.C.: 0.005 mm & Coarser)	Using Long Gauge Blocks, Slip Gauge Accessories Set by Comparison Method	> 100 mm to 200 mm	2.92 µm
219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge, Groove Dial Gauge - Dial / Digital (Internal Type) (L.C.: 0.005 mm & Coarser)	Using Gauge Block, Slip Gauge Accessories Set by Comparison Method	> 50 mm to 100 mm	2.85 µm
220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Comparator, Plunger Type Dial Gauge, Digital Indicator (L.C.: 0.0001 mm)	Using Length Measuring Machine by Comparison Method	0 to 25 mm	0.66 µm
221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge, Dial Snap Micrometer - Digital / Dial (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks by Comparison Method	> 50 mm to 100 mm	1.07 µm

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222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge, Dial Snap Micrometer - Digital / Dial (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks by Comparison Method	0 to 50 mm	0.98 µm
223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge - Length	Using Profile Projector by Direct Method	14.7 mm to 81 mm	2.97 µm
224	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Parallel, Parallel Block - Parallelism	Using Surface Plate, Gauge Block, Dial Indicator / Precision Level by Comparison Method	Up to 300 mm	2.18 µm
225	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Parallel, Parallel Block - Squareness	Using Surface Plate, Gauge Block & Dial Indicator, Cylindrical Square by Comparison Method	Up to 300 mm	2.18 µm
226	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Parallel, Parallel Block - Width & Height Variation of Matched Pairs	Using Surface Plate, Gauge Block & LVDT by Comparison Method	Up to 300 mm	2.18 µm

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227	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Square, Try Square - Flatness	Using Surface Plate & Dial Gauge by Comparison Method	Up to 600 mm	4.4 µm
228	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Square, Try Square - Parallelism	Using Surface Plate & Dial Gauge by Comparison Method	Up to 600 mm	4.4 µm
229	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Square, Try Square - Squareness	Using Granite Square, Surface Plate & Dial Gauge by Comparison Method	Up to 600 mm	4.4 µm
230	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer (L.C.: 0.001 mm & Coarser)	Using Extensometer Calibration Stand with DRO & Digital Caliper by Comparison Method as per ASTM E83 & ISO 9513	Up to 5 mm	2.95 µm

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231	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Flange / Ball / Blade / Point / Disc / Groove / Spline / Sheet / Pitch (Analog / Digital) (L.C.: 0.0001 mm & Coarser)	Using Gauge Block Set by Comparison Method	0 to 25 mm	0.54 µm
232	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Flange / Ball / Blade / Point / Disc / Groove / Spline / Sheet / Pitch Type (Analog / Digital) (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks, Length Bars and Long Slip Gauge Set by Comparison Method	> 100 mm to 300 mm	2.51 µm
233	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Flange / Ball / Blade / Point / Disc / Groove / Spline / Sheet / Pitch Type (Analog / Digital) (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks, Length Bars and Long Slip Gauge Set by Comparison Method	> 300 mm to 600 mm	5.53 µm

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234	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Flange / Ball / Blade / Point / Disc / Groove / Spline / Sheet / Pitch Type (Analog / Digital) (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks by Comparison Method	> 50 mm to 100 mm	0.75 µm
235	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Flange / Ball / Blade / Point / Disc / Groove / Spline / Sheet / Pitch Type (Analog / Digital) (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks by Comparison Method	0 to 50 mm	0.54 µm
236	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Flange / Ball / Blade / Point / Disc / Groove / Spline / Sheet / Pitch Type (Analog / Digital) (L.C.: 0.01 mm & Coarser)	Using Gauge Blocks, Length Bars and Long Slip Gauge Set by Comparison Method	> 1200 mm to 1800 mm	12.46 µm

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237	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Flange / Ball / Blade / Point / Disc / Groove / Spline / Sheet / Pitch Type (Analog / Digital) (L.C.: 0.01 mm & Coarser)	Using Gauge Blocks, Length Bars by Comparison Method	600 mm to 1200 mm	11.57 µm
238	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge Set, Thickness Gauge, Thickness Standard	Using Electronic Comparator & Comparator Stand by Comparison Method	0.01 mm to 2 mm	0.6 µm
239	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge Set, Thickness Gauge, Thickness Standard	Using Length Measuring Machine by Direct Method	0.01 mm to 2 mm	0.6 µm
240	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin	Using Slip Gauge, Electronic Comparator, Comparator Stand by Comparison Method	0.2 mm to 200 mm	3.2 µm

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241	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge (Step Limit)	Using Electronic Comparator & Gauge Block by Comparison Method	Up to 5 mm	1.78 µm
242	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gear Tooth Vernier (L.C.: 0.01 mm)	Using Gauge Blocks by Comparison Method	0 to 50 mm	6.7 µm
243	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Micrometer (L.C.: 0.01 mm & Coarser)	Using Gauge Block by Comparison Method	0 to 100 mm	3.47 µm
244	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Electronic Comparator with DRO by Direct Method	0 to 100 µm	0.94 µm
245	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Electronic / Digital (L.C.: 0.01 mm & Coarser)	Using Caliper Checker by Comparison Method	0 to 300 mm	3.8 µm

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246	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Electronic / Digital (L.C.: 0.01 mm & Coarser)	Using Caliper Checker by Comparison Method	0 to 600 mm	7.4 µm
247	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Electronic / Digital (L.C.: 0.01 mm & Coarser)	Using Gauge Block, Long Slip Gauge by Comparison Method	0 to 1000 mm	7.8 µm
248	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hi - Lo Gauge - Linear	Using Profile Projector & Gauge Blocks by Direct Method	Up to 100 mm	2.99 µm
249	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Impact Ball, Steel Sphere, Sphere, Reference Sphere - Diameter	Using Length Measuring Machine by Direct Method	Up to 50 mm	0.14 µm
250	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer - Analog / Digital (L.C.: 0.01° & Coarser)	Using Sine Bar & Gauge Block Set by Comparison Method	0 ° to 180 °	6.1 minute of arc

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251	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer, Internal Micrometer (Caliper Type) (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks & Gauge Block Accessories Set by Comparison Method	5 mm to 25 mm	2 µm
252	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer, Internal Micrometer with Connecting Rod (Stick / Jaw / Tubular Type) (L.C.: 0.01 mm & Coarser)	Using Gauge Blocks, Long Slip Gauge Set, Electronic Comparator with Stand / Lever Dial Indicator by Comparison Method	13 mm to 1000 mm	5.5 µm
253	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Joint Finger Probe - Length	Using Digital Caliper by Comparison Method	0 to 300 mm	20.5 µm
254	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Keyway Symmetry Gauge - ID	Using Profile Projector by Comparison Method	0 to 100 mm	10.41 µm
255	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Keyway Symmetry Gauge - OD	Using Profile Projector by Comparison Method	0 to 100 mm	10.41 µm

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256	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Gauge - Linear	Using Gauge Blocks by Comparison Method	0 to 200 mm	2.48 µm
257	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.001 mm & Coarser)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 0.14 mm	2 µm
258	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.001 mm & Coarser)	Using Length Measuring Machine by Comparison Method	0 to 0.14 mm	0.68 µm
259	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.002 mm & Coarser)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 0.6 mm	2.91 µm
260	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.002 mm & Coarser)	Using Length Measuring Machine by Comparison Method	0 to 0.6 mm	0.92 µm

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261	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.01 mm & Coarser)	Using Length Measuring Machine by Comparison Method	0 to 2 mm	0.96 µm
262	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.01 mm & Coarser)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 2 mm	2 µm
263	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge, Profile Gauge, Special Gauge, Industrial Inspection Gauge (Height, Length, Width, Diameter, Depth, Gap, Knife Edge, Inspection Jig & Fixture - Geometrical Dimension	Using Profile Projector by Direct Method	Up to 300 mm	4.07 µm
264	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge, Profile Gauge, Special Gauge, Industrial Inspection Gauge - Angle	Using Profile Projector by Direct Method	Up to 360 °	3.2 minute of arc

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265	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Foil, Thickness Foil, Standard Foil	Using Length Measuring Machine by Comparison Method	> 2 mm to 10 mm	0.93 µm
266	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Foil, Thickness Foil, Standard Foil	Using Electronic Comparator with DRO by Comparison Method	> 2 mm to 10 mm	0.8 µm
267	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Foil, Thickness Foil, Standard Foil	Using Electronic Comparator with DRO by Comparison Method	0.01 mm to 2 mm	0.45 µm
268	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Foil, Thickness Foil, Standard Foil	Using Length Measuring Machine by Comparison Method	0.01 mm to 2 mm	0.77 µm
269	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin, Pin Gauge, Cylindrical Measuring Pin	Using LMM by Comparison Method	0.1 mm to 25 mm	0.59 µm

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270	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Steel Rule, Steel Scale, Plastic Rule (L.C.: 0.5 mm & Coarser)	Using Tape & Scale Measuring Machine by Comparison Method	Up to 2000 mm	115.8 x sqrt (L) µm, where L is in mm
271	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape, Pie Tape (L.C.: 0.5 mm & 1 mm)	Using Tape & Scale Measuring Machine by Comparison Method	Up to 50 m	110.4 x sqrt (L) µm, where L is in mm
272	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micro Dial Comparator (L.C.: 0.1 µm & Coarser)	Using Electronic Probe with DRO by Comparison Method	(±) 0.05 mm to	0.55 µm
273	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head - Digital (L.C.: 0.0002 mm & Coarser)	Using LMM by Comparison Method	0 to 50 mm	0.76 µm
274	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head - Digital (L.C.: 0.0002 mm & Coarser)	Using LMM by Comparison Method	> 50 mm to 100 mm	0.86 µm

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275	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head - Digital (L.C.: 0.0002 mm & Coarser)	Using Electronic Probe with DRO by Comparison Method	> 50 mm to 100 mm	1.91 µm
276	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head - Digital (L.C.: 0.0002 mm & Coarser)	Using Electronic Comparator by Comparison Method	0 to 25 mm	1.74 µm
277	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head - Digital (L.C.: 0.0002 mm & Coarser)	Using Electronic Probe with DRO by Comparison Method	0 to 50 mm	1.76 µm
278	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Length Measuring Machine, Long Gauge Block by Comparison Method	> 100 mm to 300 mm	2.1 µm
279	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Slip Gauge & Electronic Probe by Comparison Method	25 mm to 100 mm	0.9 µm

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280	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Long Slip Gauge & LVDT Probe by Comparison Method	300 mm to 1000 mm	6.8 µm
281	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Length Measuring Machine, Slip Gauge & Long Gauge Block by Comparison Method	50 mm to 100 mm	2.1 µm
282	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Notch Profile Template - Angular	Using Profile Projector by Direct Method	0 ° to 45 °	2.4 minute of arc
283	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Notch Profile Template - Linear	Using Profile Projector by Direct Method	Up to 75 mm	2.61 µm
284	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Paddle Gauge (Plain Plug Gauge)	Using Electronic Comparator & Comparator Stand by Direct Method	1 mm to 300 mm	2.1 µm

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285	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Paddle Gauge (Plain Plug Gauge)	Using Electronic Comparator with DRO by Comparison Method	1 mm to 50 mm	1.1 µm
286	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PCD Gauge - Linear	Using 2D Electronic Height Gauge by Comparison Method	2.5 mm to 100 mm	5.1 µm
287	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer (Plunger Dial Gauge) (L.C.: 0.1 mm & Coarser)	Using Gauge Block Set by Direct Method	0 to 40 mm	61.1 µm
288	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.001 mm & Coarser)	Using Gauge Block, Long Gauge Block by Comparison Method	0 to 100 mm	1.91 µm
289	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper, OD Caliper, OD Groove Dial Gauge (L.C.: 0.1 mm & Coarser)	Using Gauge Block, Long Gauge Block by Comparison Method	0 to 250 mm	61.1 µm

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290	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer - Angular (L.C.: 0.001 mm & Coarser)	Using Profile Projector by Direct Method	45 °	2.47 minute of arc
291	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer - Linear (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks by Comparison Method	> 100 mm to 300 mm	3.16 µm
292	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer - Linear (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks by Comparison Method	0 to 100 mm	0.86 µm
293	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Gap Gauge, Hub Gauge, Snap Gauge - Fixed / Adjustable	Using Long Gauge Blocks by Comparison Method	> 100 mm to 200 mm	1.95 µm
294	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Gap Gauge, Hub Gauge, Snap Gauge - Fixed / Adjustable	Using Long Gauge Blocks by Comparison method	> 200 mm to 300 mm	2.2 µm

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295	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Gap Gauge, Hub Gauge, Snap Gauge - Fixed / Adjustable	Using Gauge Blocks by Comparison Method	> 50 mm to 100 mm	1.02 µm
296	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Gap Gauge, Hub Gauge, Snap Gauge - Fixed / Adjustable	Using Gauge Blocks by Comparison Method	1 mm to 50 mm	0.73 µm
297	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge, Air Plug Gauge	Using LMM by Comparison Method	> 100 mm to 300 mm	2.5 µm
298	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge, Air Plug Gauge	Using LMM by Comparison Method	> 50 mm to 100 mm	1.5 µm
299	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge, Air Plug Gauge	Using LMM by Comparison Method	1 mm to 50 mm	0.9 µm

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300	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge, Setting Ring Gauge, Air Ring Gauge	Using LMM by Comparison Method	3 mm to 50 mm	1.31 µm
301	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge, Setting Ring Gauge, Air Ring Gauge, Master Ring Gauge	Using LMM by Comparison Method	> 100 mm to 150 mm	1.8 µm
302	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge, Setting Ring Gauge, Air Ring Gauge, Master Ring Gauge	Using LMM by Comparison Method	> 215 mm to 300 mm	2.2 µm
303	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge, Setting Ring Gauge, Air Ring Gauge, Master Ring Gauge	Using LMM by Comparison Method	> 50 mm to 100 mm	1.7 µm
304	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge, Setting Ring Gauge, Air Ring Gauge, Master Ring Gauge	Using LMM by Comparison Method	> 150 mm to 215 µm	2.1 µm

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305	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge, Dial Indicator - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using LMM by Comparison Method	0 to 50 mm	0.35 µm
306	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge, Dial Indicator - Analog / Digital (L.C.: 0.01 mm & Coarser)	Using Length Measuring Machine by Comparison Method	0 to 100 mm	3.12 µm
307	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge, Dial Indicator - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Electronic Dial Calibration Tester & Gauge Blocks by Comparison Method	0 to 25 mm	2.51 µm
308	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge, Dial Indicator - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Electronic Dial Calibration Tester & Gauge Blocks by Comparison Method	0 to 5 mm	2.5 µm
309	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Proximity Sensor, Laser Distance Meter (L.C.: 1 mm & Coarser)	Using Length Bar & Gauge Block Set by Direct Method	0 to 1000 mm	446.1 µm

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310	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge, Radius Template - Concave / Convex	Using Profile Projector by Direct Method	0.6 mm to 40 mm	4.9 µm
311	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiver Gauge - Linear	Using 2D Electronic Height Gauge by Direct Method	Up to 200 mm	4.7 µm
312	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Riser Block - Linear	Using Lever Dial Probe with Indicator, Check Master by Comparison Method	Up to 300 mm	2.44 µm
313	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Rockwell Diamond Cone Indenter - Angular	Using Profile Projector by Direct Method as per ASTM E18	Up to 120 °	2.5 minute of arc
314	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Rockwell Diamond Cone Indenter - Radius	Using Profile Projector by Direct Method as per ASTM E18	Up to 0.2 mm	3.89 µm

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315	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level, Frame Level, Coincidence Level (Type 1 & 2 & 3) (L.C.: 10 µm / m & Coarser) - Base Length (Up to 300 mm)	Using Electronic Level And Tilting Table by Comparison Method	(±) 2 mm	6.07 µm/m
316	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauge - Dimension between Measuring Pins	Using LMM & Measuring Pins by Comparison Method as per DIN 5480-1	10 mm to 100 mm	1.02 µm
317	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauge - Dimension between Measuring Pins	Using LMM & Measuring Pins by Comparison Method as per DIN 5480-1	> 100 mm to 300 mm	1.9 µm
318	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauge - Dimension between Measuring Pins	Using FCDM & Measuring Pins by Comparison Method as per DIN 5480-1	10 mm to 100 mm	2.58 µm
319	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge - Dimension between Measuring Pins	Using LMM & Measuring Pins by Comparison Method as per DIN 5480-1	10 mm to 100 mm	2.2 µm

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320	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step Thickness Gauge Block	Using LVDT and Long Gauge Block by Comparison Method	1 mm to 300 mm	21.36 µm
321	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step Thickness Gauge Block	Using Electronic Comparator with DRO and Gauge Block Set by Comparison Method	2 mm to 20 mm	1.11 µm
322	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Parallelism	Using Surface Plate, LVDT & Dial Gauge with Stand by Comparison Method	Up to 1000 mm	5.4 µm
323	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Straightness	Using Surface Plate & Electronic Level by Comparison Method	Up to 1000 mm	5.4 µm
324	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Granite / Cast Iron	Using Electronic Level by Comparison Method	Up to 3000 x 3000 mm	0.53 x sqrt {(L + W) / 100} µm, where L & W are in mm

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325	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge - Diameter	Using LMM, Gauge Blocks & Measuring Pin by Comparison Method	> 100 mm to 300 mm	2.09 µm
326	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge - Diameter	Using LMM, Gauge Blocks & Measuring Pins by Comparison Method	6 mm to 100 mm	1.34 µm
327	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge - Taper Angle	Using LMM, Gauge Block & Measuring Pin by Comparison Method	Up to 18 °	25 second of arc
328	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge - Taper Angle	Using LMM, Gauge Block & Measuring Pin by Comparison Method	Up to 28 °	33 second of arc
329	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge - Diameter	Using LMM by Comparison Method	6 mm to 100 mm	1.5 µm

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330	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge - Diameter	Using LMM by Comparison Method	> 100 mm to 300 mm	1.74 µm
331	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge - Taper Angle	Using LMM by Comparison Method	Up to 18 °	25 second of arc
332	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge - Taper Angle	Using LMM by Comparison Method	Up to 28 °	31 second of arc
333	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale, Taper Bore Gauge (L.C.: 0.1 mm & Coarser)	Using Profile Projector by Comparison Method	0.1 mm to 60 mm	2.96 µm
334	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Effective Diameter	Using FCDM & Thread Measuring Wire by Comparison Method	3 mm to 50 mm	3.4 µm

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335	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Effective Diameter	Using LMM & Thread Measuring Wire by Comparison Method	> 100 mm to 300 mm	2 µm
336	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Effective Diameter	Using LMM & Thread Measuring Wire by Comparison Method	> 50 mm to 100 mm	1 µm
337	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Effective Diameter	Using FCDM & Thread Measuring Wire by Comparison Method	> 50 mm to 100 mm	4 µm
338	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Effective Diameter	Using LMM & Thread Measuring Wire by Comparison Method	3 mm to 50 mm	1.01 µm
339	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Major Diameter	Using LMM by Comparison Method	> 100 mm to 300 mm	1.8 µm

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340	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Major Diameter	Using LMM by Comparison Method	> 50 mm to 100 mm	0.85 µm
341	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Major Diameter	Using FCDM by Comparison Method	> 50 mm to 100 mm	3.8 µm
342	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Major Diameter	Using LMM by Comparison Method	3 mm to 50 mm	0.89 µm
343	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Major Diameter	Using FCDM by Comparison Method	3 mm to 50 mm	3.2 µm
344	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge - Effective Diameter	Using LMM by Comparison Method	> 100 mm to 200 mm	1.8 µm

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345	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge - Effective Diameter	Using LMM by Comparison Method	3 mm to 100 mm	0.63 µm
346	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template - Angular	Using Profile Projector by Direct Method	Up to 360 °	2.5 minute of arc
347	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template - Linear	Using Profile Projector by Direct Method	Up to 100 mm	3.69 µm
348	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve - Perforated Plate / Wire Cloth	Using Vernier Caliper by Direct Method	> 5 mm to 125 mm	14 µm
349	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve - Perforated Plate / Wire Cloth	Using Profile Projector by Direct Method	0.032 mm to 5 mm	4 µm

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350	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (Flakiness Gauge)	Using Profile Projector by Direct Method	4.89 mm to 33.9 mm	2.97 µm
351	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge - Digital / Dial (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks by Comparison Method	0 to 100 mm	1.07 µm
352	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge - Digital / Dial (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks by Comparison Method	0 to 50 mm	0.98 µm
353	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Prism - Angle	Using Profile Projector by Direct Method	Up to 45 °	3.46 minute of arc
354	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Prism - Linear	Using Electronic Comparator & Comparator Stand by Comparison Method	3 mm to 6 mm	1.1 µm

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355	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Prism - Linear	Using Profile Projector by Comparison Method	3 mm to 6 mm	1.17 µm
356	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire, Cylinder Wire, Three Wire Unit	Using LMM by Direct Method	0.17 mm to 6.35 mm	0.25 µm
357	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Flank Angle	Using Profile Projector by Direct Method	55° & 60 °	1.6 minute of arc
358	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Pitch	Using Profile Projector by Direct Method	0.2 mm to 25 mm	3.32 µm
359	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Effective Diameter	Using FCDM & Thread Measuring Wires by Comparison Method	> 50 mm to 100 mm	3.71 µm

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360	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Effective Diameter	Using LMM & Thread Measuring Wire by Comparison method	> 100 mm to 300 mm	1.97 µm
361	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Effective Diameter	Using LMM & Thread Measuring Wire by Comparison Method	> 50 mm to 100 mm	0.95 µm
362	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Effective Diameter	Using FCDM & Thread Measuring Wires by Comparison Method	1 mm to 50 mm	3.55 µm
363	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Effective Diameter	Using LMM & Thread Measuring Wire by Comparison Method	3 mm to 50 mm	0.77 µm
364	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Major Diameter	Using LMM by Comparison Method	> 100 mm to 300 mm	1.89 µm

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365	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Major Diameter	Using LMM by Comparison Method	> 50 mm to 100 mm	0.83 µm
366	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Major Diameter	Using LMM by Comparison Method	3 mm to 50 mm	0.69 µm
367	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Major Diameter & Minor Diameter	Using FCDM by Comparison Method	1 mm to 50 mm	3.18 µm
368	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, Wear Check Plug Gauge - Major Diameter & Minor Diameter	Using FCDM by Comparison Method	> 50 mm to 100 mm	3.26 µm
369	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge, Wear Check Ring Gauge - Effective Diameter	Using LMM by Comparison Method as per ANSI/ASME B1.2	> 50 mm to 100 mm	1.7 µm

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370	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge, Wear Check Ring Gauge - Effective Diameter	Using LMM by Comparison Method as per ANSI/ASME B1.2	3 mm to 50 mm	1.33 µm
371	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge, Wear Check Ring Gauge - Effective Diameter	Using LMM by Comparison Method as per ANSI/ASME B1.2	> 100 mm to 300 mm	2.2 µm
372	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer, Bore Micrometer - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Setting Ring Gauges Set by Comparison Method	> 100 mm to 225 mm	3.4 µm
373	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer, Bore Micrometer - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Setting Ring Gauges Set by Comparison Method	2.5 mm to 100 mm	3.4 µm
374	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.01 mm & Coarser)	Using Gauge Blocks by Comparison Method	0.5 mm to 100 mm	13 µm

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375	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.1 mm & Coarser)	Using Gauge Blocks by Comparison Method	> 100 mm to 300 mm	65 µm
376	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Universal Bevel Protractor, Bevel Protractor (All 4 Quadrants) (L.C.: 5 second of arc & Coarser)	Using Profile Projector by Direct Method	0° - 90° - 0°	3 minute of arc
377	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Anvil Micrometer, Lobbing Micrometer - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Cylindrical Setting Master by Direct Method	1 mm to 100 mm	2.8 µm
378	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Angular	Using Profile Projector by Direct Method	Up to 300 x 200 x 200 mm	3 minute of arc
379	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Flatness	Using Surface Plate, Electronic Comparator by Comparison Method	Up to 450 x 150 x 150 mm	6 µm

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380	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Flatness	Using Surface Plate, Electronic Comparator by Comparison Method	Up to 300 x 200 x 200 mm	4 µm
381	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Parallelism	Using Surface Plate, Test Mandrel & Lever Dial by Comparison Method	Up to 300 x 200 x 200 mm	4 µm
382	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Parallelism	Using Surface Plate, Test Mandrel & Lever Dial by Comparison Method	Up to 450 x 150 x 150 mm	6 µm
383	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Squareness	Using Surface Plate, Slip Gauge & Granite Square by Comparison Method	Up to 300 x 200 x 200 mm	3 µm
384	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Squareness	Using Surface Plate, Slip Gauge & Granite Square by Comparison Method	Up to 450 x 150 x 150 mm	6 µm

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385	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Symmetricity	Using Surface Plate, Test Mandrels & Lever Dial by Comparison Method	Up to 300 x 200 x 200 mm	4 µm
386	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Symmetricity	Using Surface Plate, Test Mandrel & Lever Dial by Comparison Method	Up to 450 x 150 x 150 mm	6 µm
387	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Notch Gauge - Angular	Using Profile Projector by Direct Method as per ISO 148, ASTM E23	Up to 45 °	2.4 minute of arc
388	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Notch Gauge - Linear	Using Profile Projector by Direct Method as per ISO 148, ASTM E23	Up to 0.25 mm	1.5 µm
389	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vickers Diamond Cone Indenter - Angular	Using Profile Projector by Direct Method as per ASTM E92, ASTM E384, ISO 6507-2	Up to 136 °	2.48 minute of arc

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390	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge - Linear	Using Profile Projector by Direct Method	Up to 50 mm	2.93 µm
391	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge - Angle	Using Profile Projector by Direct Method	0 ° to 90 °	1.3 minute of arc
392	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge - Linear	Using Profile Projector by Direct Method	Up to 200 mm	3.08 µm
393	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet / Dry Film Applicator - Linear	Using Profile Projector by Direct Method	0 to 3000 µm	2.93 µm
394	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness Gauge - Linear	Using Profile Projector by Direct Method	25 µm to 3000 µm	2.93 µm

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395	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Electronic Comparator & Comparator Stand, Gauge Block by Comparison Method	2 mm to 50 mm	1.17 µm
396	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using 2D Height Gauge by Comparison Method	2 mm to 50 mm	4.7 µm
397	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Electronic Comparator & Comparator Stand, Gauge Block by Comparison Method	50 mm to 100 mm	1.47 µm
398	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge, Standard Wire Gauge	Using Profile Projector by Direct Method	0.19 mm to 25 mm	2.92 µm
399	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Linear Height Gauge - Linear (L.C.: 0.0001 mm & Coarser)	Using Long Gauge Block by Comparison Method	> 600 mm to 1000 mm	8.8 µm

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400	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Linear Height Gauge - Linear (L.C.: 0.0001 mm & Coarser)	Using Check Master by Comparison method	Up to 600 mm	4.56 µm
401	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Linear Height Gauge - Squareness (L.C.: 0.0001 mm & Coarser)	Using Cylindrical Square by Comparison Method	Up to 600 mm	7.14 µm
402	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Linear Height Gauge - Squareness (L.C.: 0.0001 mm & Coarser)	Using Cylindrical Square by Comparison method	> 600 mm to 1000 mm	5.9 µm
403	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Angle Gauge Block	Using Sine Bar & Gauge Block Set by Comparison Method	0 ° to 90 °	3.2 second of arc
404	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Angular Glass Scale, Glass Protractor - Ocular / Graticule (L.C.: 0.5° & Coarser)	Using Profile Projector by Direct Method	0 ° to 360 °	1.37 minute of arc
405	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Comparator Stand - Flatness	Using Electronic Comparator by Direct Method	Up to 300 mm	1.97 µm
406	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Comparator Stand - Flatness	Using Optical Flat by Direct Method	Up to 60 mm	1.07 µm

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407	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master, Mandrel, Test Mandrel, Concentricity Gauge - Concentricity	Using Lever Dial Gauge, V Block by Comparison method	> 50 mm to 100 mm	1.18 µm
408	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master, Mandrel, Test Mandrel, Concentricity Gauge - Concentricity	Using V Block, Lever Dial Gauge by Comparison Method	> 100 mm to 200 mm	1.5 µm
409	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master, Mandrel, Test Mandrel, Concentricity Gauge - Concentricity	Using V Block and Lever Dial Gauge by Comparison Method	3 mm to 50 mm	1.7 µm
410	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master, Mandrel, Test Mandrel, Concentricity Gauge - Diameter	Using Electronic Comparator & Gauge Block by Comparison Method	> 50 mm to 100 mm	1.18 µm
411	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master, Mandrel, Test Mandrel, Concentricity Gauge - Diameter	Using Electronic Comparator & Gauge Block by Comparison Method	3 mm to 50 mm	1.1 µm
412	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master, Mandrel, Test Mandrel, Concentricity Gauge - Diameter	Using Electronic Comparator & Gauge Block by Comparison Method	> 100 mm to 200 mm	1.5 µm

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413	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master, Mandrel, Test Mandrel, Concentricity Gauge - Diameter	Using Electronic Comparator & Gauge Block by Comparison Method	> 200 mm to 300 mm	1.93 µm
414	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master, Mandrel, Test Mandrel, Concentricity Gauge - Run Out	Using Electronic Comparator & Dial Gauge by Comparison Method	> 50 mm to 100 mm	2.08 µm
415	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master, Mandrel, Test Mandrel, Concentricity Gauge - Run Out	Using Electronic Comparator & Dial Gauge by Comparison Method	3 mm to 50 mm	2.08 µm
416	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (L.C.: 0.0001 mm & Coarser)	Using Electronic Comparator & Gauge Blocks by Comparison Method	Up to 25 mm	0.54 µm
417	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Level (L.C.: 1 µm/m & Coarser)	Using Electronic Level and Robust Tilting Table by Comparison Method as per JIS B 7510	(±) 2 mm/m to	5.39 µm/m
418	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO, Dial Comparator, LVDT (L.C.: 0.0001 mm & Coarser)	Using Gauge Blocks by Comparison Method	0 to 100 mm	0.5 µm

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419	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO, Dial Comparator, LVDT (L.C.: 0.0001 mm & Coarser)	Using LMM by Comparison Method	0 to 100 mm	0.8 µm
420	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO, Dial Comparator, LVDT (L.C.: 0.0001 mm & Coarser)	Using Gauge Blocks by Comparison Method	0 to 2 mm	0.11 µm
421	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO, Dial Comparator, LVDT (L.C.: 0.0001 mm & Coarser)	Using LMM by Comparison Method	0 to 2 mm	0.61 µm
422	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO, Dial Comparator, LVDT (L.C.: 0.0001 mm & Coarser)	Using Gauge Blocks by Comparison Method	0 to 25 mm	0.18 µm
423	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO, Dial Comparator, LVDT (L.C.: 0.0001 mm & Coarser)	Using LMM by Comparison Method	0 to 25 mm	0.63 µm
424	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO, Dial Comparator, LVDT (L.C.: 0.0001 mm & Coarser)	Using Gauge Blocks by Comparison Method	0 to 50 mm	0.27 µm

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425	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO, Dial Comparator, LVDT (L.C.: 0.0001 mm & Coarser)	Using LMM by Comparison method	0 to 50 mm	0.68 µm
426	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine - Concentricity of Center Points (L.C.: 0.0001 mm & Coarser)	Using Cylindrical Setting Masters, Electronic Comparator LVDT by Comparison Method as per MOY/SCMI/9	Up to 175 mm	1.96 µm
427	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine - Parallelism (L.C.: 0.0001 mm & Coarser)	Using Cylindrical Setting Masters, Electronic Comparator LVDT by Comparison Method as per MOY/SCMI/9	Up to 175 mm	1.96 µm
428	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine - Squareness (L.C.: 0.0001 mm & Coarser)	Using Mandrels, Electronic Comparator LVDT by Comparison Method as per MOY/SCMI/9	Up to 175 mm	1.96 µm
429	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine - Straightness (L.C.: 0.0001 mm & Coarser)	Using Mandrels, Electronic Comparator LVDT by Comparison Method as per MOY/SCMI/9	Up to 175 mm	1.96 µm

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430	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block (Material : Steel, Carbide, Ceramic) (Grade: 0, 1, 2)	Using Gauge Block Calibration Tester & Grade 'K' Gauge Blocks by Comparison Method	0.5 mm to 25 mm	0.09 µm
431	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block (Material : Steel, Carbide, Ceramic) (Grade: 0, 1, 2)	Using Gauge Block Calibration Tester & Grade 'K' Gauge Blocks by Comparison Method	> 25 mm to 50 mm	0.12 µm
432	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block (Material : Steel, Carbide, Ceramic) (Grade: 0, 1, 2)	Using Gauge Block Calibration Tester & Grade 'K' Gauge Blocks by Comparison Method	> 50 mm to 100 mm	0.17 µm
433	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Micrometer, Height Master - Error in Micrometer Screw, Error in Height Setting on Entire Range, Indexing Error on Micrometer Drum (L.C.: 0.001 mm & Coarser)	Using Lever Dial Probe with Indicator & Check Master by Comparison Method	Up to 300 mm	1.07 µm
434	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Industrial Angle Gauge	Using Profile Projector by Comparison Method	0 ° to 360 °	1.3 minute of arc

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435	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar, Long Gauge Block	Using Slip Gauge & Electronic Probe by Comparison Method	25 mm to 100 mm	0.9 µm
436	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar, Long Gauge Block	Using Length Measuring Machine, Slip Gauge & Long Gauge Block by Comparison Method	> 100 mm to 300 mm	2.1 µm
437	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar, Long Gauge Block	Using Long Slip Gauge Grade “K” & LVDT Probe by Comparison Method	> 300 mm to 1000 mm	6.8 µm
438	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine, Universal Length Measuring Machine (L.C.: 0.0001 mm & Coarser)	Using Grade ‘K’ Gauge Blocks by Comparison method	500 mm to 1000 mm	4.4 µm
439	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine, Universal Length Measuring Machine (L.C.: 0.0001 mm & Coarser)	Using Grade ‘K’ Gauge Blocks by Comparison Method	100 mm to 500 mm	2.6 µm

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440	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine, Universal Length Measuring Machine (L.C.: 0.0001 mm & Coarser)	Using Grade 'K' Gauge Blocks by Comparison method	Up to 100 mm	0.5 µm
441	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Linear Travel of Microscope (Brinell Measuring Device) (L.C.: 1 µm)	Using Stage Micrometer / Glass Scale by Comparison Method as per ASTM E10, ISO 6506-2	0 to 7 mm	1.35 µm
442	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Linear Travel of Microscope (Vickers Measuring Device) (L.C.: 0.1 µm)	Using Stage Micrometer / Glass Scale by Comparison Method as per ASTM E10, ISO 6506-2	0 to 7 mm	1.35 µm
443	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Mandrel, Test Mandrel, Concentricity Gauge - Concentricity	Using V Block, Lever Dial Gauge by Comparison Method	> 200 mm to 300 mm	1.93 µm
444	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Master Cylinder, Cylindrical Square, Granite L-Square - Flatness	Using Gauge Blocks, Granite Square & Lever Dial Indicator by Comparison Method	Up to 600 mm	3.99 µm
445	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Master Cylinder, Cylindrical Square, Granite L-Square - Squareness	Using Master Cylinder Square, Gauge Blocks, Lever Dial Indicator by Comparison Method	Up to 600 mm	4.19 µm

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446	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Flat - Flatness	Using Optical Flat, Monochromatic Light Source by Comparison Method	Up to 60 mm	0.081 µm
447	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine - Angle (L.C.: 1 second of arc & Coarser)	Using Glass Protractor by Comparison Method as per JIS B 7184	Up to 360 °	1.85 minute of arc
448	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine, Metallurgical Microscope, Tool Makers Microscope, Microscope - Linear (L.C.: 1 µm & Coarser)	Using Glass Scale by Comparison Method as per JIS B 7184	Up to 300 mm	2.26 µm
449	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine, Metallurgical Microscope, Tool Makers Microscope, Microscope - Magnification	Using Glass Scales, Vernier Caliper by Comparison Method as per JIS B 7184	10 X to 100 X	0.68 %
450	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Sine Bar, Sine Center - Angular	Using Angle Gauge & Gauge Block by Comparison Method	15°, 30°, 45°, 60° to	3.1 second of arc

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451	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Sine Bar, Sine Center - Parallelism	Using Gauge Block, LVDT Probe & Surface Plate by Comparison Method	Up to 500 mm	3.26 µm
452	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Sine Bar, Sine Center - Roller Distance	Using 2D Height Gauge by Comparison Method	Up to 500 mm	5.9 µm
453	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Accessories Set - Flatness	Using Optical Flat by Comparison Method	Up to 300 mm	1.23 µm
454	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Accessories Set - Parallelism	Using Electronic Comparator, Comparator Stand, LVDT Probe by Comparison Method	Up to 300 mm	1.46 µm
455	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge (Caliper Checker / Check Master / Depth Micro Checker)	Using Lever Dial Probe with Indicator & Long Slip Gauge by Comparison Method	0 to 1000 mm	7.1 µm
456	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge (Caliper Checker / Check Master / Depth Micro Checker)	Using Lever Dial Probe with Indicator & Long Slip Gauge by Comparison Method	0 to 300 mm	2.4 µm

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457	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge (Caliper Checker / Check Master / Depth Micro Checker)	Using Lever Dial Probe with Indicator & Long Slip Gauge by Comparison Method	0 to 600 mm	4.1 µm
458	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Specimen, Surface Roughness Comparator - Ra	Using Surface Roughness Master Specimen & Surface Roughness Tester by Comparison Method	Up to 12.5 µm	7.4 %
459	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Specimen, Surface Roughness Comparator - Ry	Using Surface Roughness Master Specimen & Surface Roughness Tester by Comparison Method	Up to 12.7 µm	7.4 %
460	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Specimen, Surface Roughness Comparator - Rz	Using Surface Roughness Master Specimen & Surface Roughness Tester by comparison Method	Up to 50 µm	9 %
461	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Ra 3.0µm, Ry 11.3µm, Rz 11.7µm)	Using Master Roughness Specimens by Comparison Method	Up to 1000 µm	6.9 %
462	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibrator, Tape & Scale Calibrating Machine (L.C.: 0.001 mm & Coarser)	Using Long Gauge Blocks, Gauge Block Set and LVDT by Comparison Method	0 to 1000 mm	6.7 µm

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463	MECHANICAL-DUROMETER	Hardness Tester	Using LMM by Depth Indentation Method as per ASTM D 2240	0 to 2 mm	1.02 µm
464	MECHANICAL-DUROMETER	Hardness Tester	Using Electronic Comparator by Depth Indentation Method as per ASTM D 2240	0 to 2 mm	1.66 µm
465	MECHANICAL-DUROMETER	Rubber / Shore Hardness Tester (Durometer) - A, B, E, O, OO, OOO, OOOS, AM, AO, DO, C1L	Using Loadcell with Indicator by Spring Force Method as per ASTM D2240	0 Shore to 100 Shore	0.3 Shore
466	MECHANICAL-DUROMETER	Rubber / Shore Hardness Tester (Durometer) - C, D, DO, O, OO, OOO, OOOS, AM, AO, DO, C1L	Using Loadcell with Indicator by Spring Force Method as per ASTM D2240	0 Shore to 100 Shore	0.3 Shore
467	MECHANICAL-HARDNESS TESTING MACHINES	Leeb (Dynamic) Hardness Tester, Leeb Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per ASTM A956	D Scale	7.7 HLD
468	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge, Tension Gauge	Using Differential Denominations of Newton Weights as per VDI/VDE 2624 Part 2.1	> 500 N to 2000 N	3.06 N

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469	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge, Tension Gauge	Using Differential Denominations of Newton Weights as per VDI/VDE 2624 Part 2.1	Up to 500 N	0.5 N
470	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Data Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with / without Indicator - Hydraulic Pressure	Using Hydraulic Dead Weight Tester & Pressure Calibrator by Direct Method as per DKD-R 6-1	14 bar to 200 bar	0.021 %rdg

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471	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Data Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with / without Indicator - Hydraulic Pressure	Using Hydraulic Dead Weight Tester & Pressure Calibrator by Direct Method as per DKD-R 6-1	200 bar to 700 bar	0.012 %rdg
472	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Data Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with / without Indicator, Pressure Switch - Hydraulic Pressure	Using Digital Pressure Gauge, Pressure Calibrator, Hydraulic Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 1400 bar	0.202 bar

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473	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Data Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with / without Indicator, Pressure Switch - Hydraulic Pressure	Using Pressure Gauge, Pressure Calibrator, Hydraulic Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 200 bar	0.025 bar
474	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Data Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with / without Indicator, Pressure Switch - Hydraulic Pressure	Using Process Calibrator with External Sensor & Pressure Calibrator by Comparison Method as per DKD-R 6-1	0 to 2500 bar	0.96 bar

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475	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Data Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with / without Indicator, Pressure Switch - Hydraulic Pressure	Using Process Calibrator with External Sensor & Pressure Calibrator by Comparison Method as per DKD-R 6-1	0 to 4000 bar	1.1 bar
476	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Data Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with / without Indicator, Pressure Switch - Hydraulic Pressure	Using Digital Pressure Gauge, Pressure Calibrator, Hydraulic Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.08 bar

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477	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Data Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with / without Indicator, Pressure Switch - Hydraulic Pressure	Using Hydraulic Dead Weight Tester & Pressure Calibrator by Direct Method as per DKD-R 6-1	700 bar to 1379 bar	0.012 %rdg
478	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with or without Indicator, Pressure Switch - Pneumatic Pressure	Using Digital Pressure Gauge and Pressure Calibrator, Pneumatic Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 2 bar	0.0006 bar

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479	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with or without Indicator, Pressure Switch - Pneumatic Pressure	Using Digital Pressure Gauge, Pressure Calibrator, Pneumatic Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.0026 bar
480	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with or without Indicator, Pressure Switch - Pneumatic Pressure	Using Digital Pressure Gauge, Pressure Calibrator, Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.006 bar

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481	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with or without Indicator, Pressure Switch - Pneumatic Pressure	Using Pressure Calibrator, Pressure Calibrator, Pneumatic Hand pump by Comparison Method as per DKD-R 6-1	0 to 40 bar	0.0052 bar
482	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with or without Indicator, Pressure Switch - Pneumatic Pressure	Using Pneumatic Dead Weight Tester, Pressure Calibrator by Comparison Method as per DKD-R 6-1	2 bar to 20 bar	0.01 %rdg

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483	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with or without Indicator, Pressure Switch - Pneumatic Pressure	Using Pneumatic Dead Weight Tester, Pressure Calibrator by Comparison Method as per DKD-R 6-1	20 bar to 35 bar	0.01 %rdg
484	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with or without Indicator, Pressure Switch - Pneumatic Pressure	Using Pneumatic Dead Weight Tester, Pressure Calibrator by Comparison Method as per DKD-R 6-1	200 mbar to 2000 mbar	0.01 %rdg

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485	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Transmitter, Pressure Transducer, Manometer, Magnehelic Pressure Gauge, Pressure Module - Pneumatic Pressure	Using Digital Manometer, Low Pressure Comparator Pump, Pressure Calibrator by Comparison Method as per DKD-R 6-1	0 to 50 mbar	0.017 mbar
486	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Transmitter, Pressure Transducer, Manometer, Magnehelic Pressure Gauge, Pressure Module - Pneumatic Pressure	Using Digital Manometer, Low Pressure Comparator Pump, Pressure Calibrator by Comparison Method as per DKD-R 6-1	50 mbar to 500 mbar	0.0672 mbar

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487	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Transmitter, Pressure Transducer, Manometer, Magnehelic Pressure Gauge, Pressure Module - Pneumatic Pressure	Using Digital Manometer, Low Pressure Comparator Pump & Pressure Calibrator by Comparison Method as per DKD-R 6-1	(-) 50 mbar to (-) 500 mbar	0.0672 mbar
488	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Transmitter, Pressure Transducer, Manometer, Magnehelic Pressure Gauge, Pressure Module - Pneumatic Pressure	Using Digital Manometer, Low Pressure Comparator Pump & Pressure Calibrator by Comparison Method as per DKD-R 6-1	(-) 50 mbar to 0 mbar	0.017 mbar

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489	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Transmitter, Pressure Transducer, Manometer, Magnehelic Pressure Gauge, Pressure Module - Pneumatic Pressure	Using Digital Manometer, Low Pressure Comparator Pump, Pressure Calibrator by Comparison Method as per DKD-R 6-1	0 to 500 mbar	0.058 mbar
490	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Recorder, Pressure Controller, Pressure Switch, Pressure Transmitter, Pressure Transducer with / without Indicator, Manometer, Barometer, Absolute Pressure Gauge - Pneumatic Pressure	Using Absolute Pressure Gauge with Pneumatic Pump, Pressure Calibrator by Comparison Method as per DKD-R 6-1 & OIML R 97	0.015 bar (abs) to 4 bar (abs)	0.00042 bar (abs)

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491	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Gauge, Vacuum Calibrator, Vacuum Indicator, Vacuum Controller, Vacuum Logger, Vacuum Module, Vacuum Transmitter, Vacuum Transducer, Manometer, Vacuum Switch - Pneumatic Pressure	Using Digital Pressure Calibrator and Pressure Calibrator by Comparison Method as per DKD-R 6-1	(-) 945 mbar to 0 mbar	0.2 mbar
492	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Gauge, Vacuum Calibrator, Vacuum Indicator, Vacuum Controller, Vacuum Logger, Vacuum Module, Vacuum Transmitter, Vacuum Transducer, Manometer, Vacuum Switch - Pneumatic Pressure	Using Pneumatic Dead Weight Tester, Pressure Calibrator by Comparison Method as per DKD-R 6-1	(-) 1000 mbar to (-) 30 mbar	0.12 mbar
493	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Torque Screw Driver, Torque Spanner - Type I (Class B, C, D, E) & Type II (Class A, B, D, E, F, G)	Using Torque Transducer with Indicator, Torque Wrench Tester by Comparison Method as per ISO 6789-1:2017, ISO 6789-2:2017	> 50 Nm to 200 Nm	0.75 % rdg

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494	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Torque Screw Driver, Torque Spanner - Type I (Class B, C, D, E) & Type ll (Class A, B, D, E, F, G)	Using Torque Transducer with Indicator, Torque Wrench Tester by Comparison Method as per ISO 6789-1:2017, ISO 6789-2:2017	5 Nm to 50 Nm	1 % rdg
495	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Torque Screw Driver, Torque Spanner, Torque Gauge - Type I (Class A, B, C, D, E) & Type ll (Class A, B, C, D, E, F, G)	Using Torque Transducer with Indicator, Torque Wrench Tester by Comparison Method as per ISO 6789-1:2017, ISO 6789-2:2017	> 2 Nm to 10 Nm	1.46 % rdg
496	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Torque Screw Driver, Torque Spanner, Torque Gauge - Type I (Class A, B, C, D, E) & Type ll (Class A, B, C, D, E, F, G)	Using Torque Transducer with Indicator, Torque Wrench Tester by Comparison Method as per ISO 6789-1:2017, ISO 6789-2:2017	0.01 Nm to 2 Nm	0.6 % rdg

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497	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Torque Spanner - Type I (Class B, C, D, E) & Type II (Class A, B, D, E, F, G)	Using Torque Transducer with Indicator, Torque Wrench Tester by Comparison Method as per ISO 6789-1:2017, ISO 6789-2:2017	> 1000 Nm to 3000 Nm	0.84 % rdg
498	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Torque Spanner - Type I (Class B, C, D, E) & Type II (Class A, B, D, E, F, G)	Using Torque Transducer with Indicator, Torque Wrench Tester by Comparison Method as per ISO 6789-1:2017, ISO 6789-2:2017	> 200 Nm to 1000 Nm	0.47 % rdg
499	MECHANICAL-TORQUE MEASURING DEVICES	Torque Sensor with Indicator / Calibrator, Torque Transducer with / without Indicator, Torque Meter, Rotary / Impact / Torque Gauge, Torque Tester	Using Dead Weight Torque Calibration System of Lever Arm, SS Dead Weights & Digital Multimeter as per BS 7882	0.05 Nm to 200 Nm	0.12 %

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500	MECHANICAL-TORQUE MEASURING DEVICES	Torque Sensor with Indicator / Calibrator, Torque Transducer with / without Indicator, Torque Meter, Rotary / Impact / Torque Gauge, Torque Tester	Using Dead Weight Torque Calibration System of Lever Arm, SS Dead Weights & Digital Multimeter as per BS 7882	200 Nm to 2000 Nm	0.15 %
501	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine (UTM / CTM), Creep Testing Machine, Spring Testing Machine, Flexural Testing Machine - Compression Mode	Using Load Cell with Indicator by Comparison Method as per IS 1828 (Part 1) : 2022 ISO 7500-1 : 2018, JIS B 7221 - 2010	100 N to 1000 kN	0.3 %
502	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine (UTM), Tensile / Creep Testing Machine, Spring Testing Machine, Flexural Testing Machine - Tension Mode	Using Load Cell with Indicator by Comparison Method as per IS 1828 (Part 1) : 2022 ISO 7500-1 : 2018, JIS B 7221 - 2010	100 N to 1000 kN	0.5 %

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503	MECHANICAL-VOLUME	Burette, Pycnometer, Separating Funnel	Using Electronic Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 4787:2021 & ISO 3507:1999	> 10 ml to 50 ml	7.4 µl
504	MECHANICAL-VOLUME	Burette, Pycnometer, Separating Funnel	Using Electronic Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 4787:2021 & ISO 3507:1999	> 50 ml to 100 ml	10.1 µl
505	MECHANICAL-VOLUME	Burette, Pycnometer, Separating Funnel	Using Electronic Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 4787:2021 & ISO 3507:1999	0.1 ml to 10 ml	7.4 µl
506	MECHANICAL-VOLUME	Measuring Cylinder, Measuring Jar, Graduated Jar, Density Bottle, Crow Receiver, Centrifuge Filter Tube	Using Electronic Semi Micro Balance (Readability : 0.01mg) by Gravimetric Method as per ISO 4787:2021 & ISO 3507:1999	> 10 ml to 50 ml	7.4 µl

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507	MECHANICAL-VOLUME	Measuring Cylinder, Measuring Jar, Graduated Jar, Density Bottle, Crow Receiver, Centrifuge Filter Tube	Using Electronic Weighing Balance (Readability : 1 mg) by Gravimetric Method as per ISO 4787:2021	> 100 ml to 1000 ml	0.05 ml
508	MECHANICAL-VOLUME	Measuring Cylinder, Measuring Jar, Graduated Jar, Density Bottle, Crow Receiver, Centrifuge Filter Tube	Using Electronic Weighing Balance (Readability : 1 mg) by Gravimetric Method as per ISO 4787:2021	> 1000 ml to 2000 ml	0.05 ml
509	MECHANICAL-VOLUME	Measuring Cylinder, Measuring Jar, Graduated Jar, Density Bottle, Crow Receiver, Centrifuge Filter Tube	Using Electronic Weighing Balance (Readability : 1 mg) by Gravimetric Method as per ISO 4787:2021	> 2000 ml to 4000 ml	5.8 ml
510	MECHANICAL-VOLUME	Measuring Cylinder, Measuring Jar, Graduated Jar, Density Bottle, Crow Receiver, Centrifuge Filter Tube	Using Electronic Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 4787:2021	> 50 ml to 100 ml	10.1 µl

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511	MECHANICAL-VOLUME	Measuring Cylinder, Measuring Jar, Graduated Jar, Density Bottle, Crow Receiver, Centrifuge Filter Tube	Using Electronic Semi Micro Balance (Readability : 0.01mg) by Gravimetric Method as per ISO 4787:2021 & ISO 3507:1999	1 ml to 10 ml	2 µl
512	MECHANICAL-VOLUME	Micropipette, Piston Pipette	Using Electronic Micro Balance (Readability : 0.001 mg) by Gravimetric Method as per ISO 8655-6:2022	> 100 µl to 1000 µl	4.2 µl
513	MECHANICAL-VOLUME	Micropipette, Piston Pipette	Using Electronic Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 8655-6:2022	> 5000 µl to 10000 µl	6 µl
514	MECHANICAL-VOLUME	Micropipette, Piston Pipette	Using Electronic Micro Balance (Readability : 0.001 mg) by Gravimetric Method as per ISO 8655-6:2022	> 10 µl to 100 µl	0.52 µl

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515	MECHANICAL-VOLUME	Micropipette, Piston Pipette	Using Electronic Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 8655-6:2022	> 1000 µl to 5000 µl	4.2 µl
516	MECHANICAL-VOLUME	Micropipette, Piston Pipette	Using Electronic Micro Balance (Readability : 0.001 mg) by Gravimetric Method as per ISO 8655-6:2022	1 µl to 10 µl	0.03 µl
517	MECHANICAL-VOLUME	Pipette, Single Volume Pipette, Graduated Volume Pipette, Dilution Pipette	Using Electronic Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 4787:2021	> 25 ml to 50 ml	10.1 µl
518	MECHANICAL-VOLUME	Pipette, Single Volume Pipette, Graduated Volume Pipette, Dilution Pipette	Using Electronic Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 4787:2021	> 50 ml to 100 ml	10.1 µl
519	MECHANICAL-VOLUME	Pipette, Single Volume Pipette, Graduated Volume Pipette, Dilution Pipette	Using Electronic Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 4787:2021	0.01 ml to 0.1 ml	1.7 µl

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520	MECHANICAL-VOLUME	Pipette, Single Volume Pipette, Graduated Volume Pipette, Dilution Pipette	Using Electronic Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 4787:2021	0.1 ml to 1 ml	1.7 µl
521	MECHANICAL-VOLUME	Pipette, Single Volume Pipette, Graduated Volume Pipette, Dilution Pipette	Using Electronic Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 4787:2021	> 1 ml to 10 ml	7.4 µl
522	MECHANICAL-VOLUME	Pipette, Single Volume Pipette, Graduated Volume Pipette, Dilution Pipette	Using Electronic Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 4787:2021	> 10 ml to 25 ml	7.4 µl
523	MECHANICAL-VOLUME	Pipette, Single Volume Pipette, Graduated Volume Pipette, Dilution Pipette	Using Electronic Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 4787:2021	> 100 ml to 1000 ml	10.1 µl
524	MECHANICAL-VOLUME	Volumetric Flask, Le Chatlier Flask, Standard Flask, Conical Flask, Beaker, Specific Gravity Bottle	Using Electronic Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 4787:2021	> 10 ml to 50 ml	10.1 µl

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525	MECHANICAL-VOLUME	Volumetric Flask, Le Chatlier Flask, Standard Flask, Conical Flask, Beaker, Specific Gravity Bottle	Using Electronic Weighing Balance (Readability : 1 mg) by Gravimetric Method as per ISO 4787:2021	> 200 ml to 500 ml	0.04 ml
526	MECHANICAL-VOLUME	Volumetric Flask, Le Chatlier Flask, Standard Flask, Conical Flask, Beaker, Specific Gravity Bottle	Using Electronic Weighing Balance (Readability : 100 mg) by Gravimetric Method as per ISO 4787:2021	> 2000 ml to 5000 ml	5.8 ml
527	MECHANICAL-VOLUME	Volumetric Flask, Le Chatlier Flask, Standard Flask, Conical Flask, Beaker, Specific Gravity Bottle	Using Electronic Weighing Balance (Readability : 1 mg) by Gravimetric Method as per ISO 4787:2021	> 1000 ml to 2000 ml	0.05 ml
528	MECHANICAL-VOLUME	Volumetric Flask, Le Chatlier Flask, Standard Flask, Conical Flask, Beaker, Specific Gravity Bottle	Using Electronic Weighing Balance (Readability : 1 mg) by Gravimetric Method as per ISO 4787:2021	> 50 ml to 200 ml	11 µl
529	MECHANICAL-VOLUME	Volumetric Flask, Le Chatlier Flask, Standard Flask, Conical Flask, Beaker, Specific Gravity Bottle	Using Electronic Weighing Balance (Readability : 1 mg) by Gravimetric Method as per ISO 4787:2021	> 500 ml to 1000 ml	0.05 ml

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530	MECHANICAL-VOLUME	Volumetric Flask, Le Chatlier Flask, Standard Flask, Conical Flask, Beaker, Specific Gravity Bottle	Using Electronic Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 4787:2021	1 ml to 10 ml	7.4 µl
531	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.0001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 2.1 g	0.005 mg
532	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.0001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 6.1 g	0.01 mg
533	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 22 g	0.01 mg
534	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 220 g	0.04 mg
535	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.1 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 1000 g	0.15 mg
536	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 1 mg)	Using E1, E2 Class Weights by Comparison Method as per OIML R 76-1	0 to 10 kg	1.5 mg

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537	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 10 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 6.2 kg	6 mg
538	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 100 mg)	Using E1, E2, F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 36 kg	62 mg
539	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 100 mg)	Using E2, F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 75 kg	300 mg
540	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 5 mg)	Using E2, F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 40 kg	10 mg
541	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III and coarser (Readability: 1 g)	Using E2, F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 60 kg	0.6 g
542	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III and Coarser (Readability: 2 g)	Using E2, F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 100 kg	1.2 g
543	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III and Coarser (Readability: 2 g)	Using E2, F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 60 kg	1.2 g

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544	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class IIII (Readability: 100 g)	Using F2, M1 Class Weights by Comparison Method as per OIML R 76-1	0 to 2000 kg	62 g
545	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class IIII (Readability: 10 g)	Using E2, F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 300 kg	13 g
546	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class IIII (Readability: 50 g)	Using E2, F1, F2, M1 Class Weights by Comparison Method as per OIML R 76-1	0 to 500 kg	30 g
547	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (Readability : 10 g)	Using Differential Newton Weights as per IS 16514-1: 2024	0.2 g to 50 kg	2.9 g
548	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance Readability : 100 g)	Using Differential Newton Weights as per IS 16514-1: 2024	> 50 kg to 200 kg	28.89 g
549	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 1 µg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1	1 g	0.003 mg

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550	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 1 µg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1	1 mg	0.001 mg
551	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 0.01 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1	10 g	0.0061 mg
552	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 1 µg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1	10 mg	0.001 mg

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553	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	100 g	0.015 mg
554	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 1 µg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1	100 mg	0.0015 mg
555	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 1 µg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1	2 g	0.004 mg

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556	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 1 µg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1	2 mg	0.001 mg
557	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 0.01 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1	20 g	0.007 mg
558	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 1 µg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1	20 mg	0.001 mg

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559	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	200 g	0.03 mg
560	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 1 µg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1	200 mg	0.0015 mg
561	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 0.01 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1	5 g	0.0051 mg

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562	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 1 µg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1	5 mg	0.001 mg
563	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 0.01 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1	50 g	0.01 mg
564	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 1 µg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1	50 mg	0.001 mg

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565	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weight and Electronic Micro Balance (Readability : 1 µg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1	500 mg	0.002 mg
566	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Electronic Precision Balance (Readability : 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1	2 kg	1 mg
567	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Electronic Precision Balance (Readability : 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1	5 kg	1.7 mg

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568	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Class Weight and Electronic Precision Balance (Readability : 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1	1 kg	0.9 mg
569	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weight and Electronic Precision Balance (Readability : 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1	500 g	0.82 mg
570	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 & F1 Class Standard Weight and Electronic Precision Balance (Readability : 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1	20 kg	100 mg

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571	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weight and Electronic Precision Balance (Readability : 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1	10 kg	85 mg
572	OPTICAL-OPTICAL	Illuminance Meter, Lux Meter, Light Meter	Using V - Lambda and Cosine Corrected Photometer (Detector based Photometry), DC Power Supply by Comparison Method	> 1000 lx to 50000 lx	2.7 %
573	OPTICAL-OPTICAL	Illuminance Meter, Lux Meter, Light Meter	Using V - Lambda and Cosine Corrected Photometer (Detector based Photometry), DC Power Supply by Comparison Method	> 50000 lx to 200000 lx	2.65 %

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574	OPTICAL-OPTICAL	Illuminance Meter, Lux Meter, Light Meter	Using Standard Luminous Intensity Lamp and V - Lambda & Cosine corrected Photometer (Detector based Photometry) by Comparison Method	1 lx to 1000 lx	2.55 %
575	OPTICAL-OPTICAL	Luminous Intensity of Light Source, Tungsten Halogen Lamp	Using V - Lambda and Cosine Corrected Photometer (Detector based Photometry), DC Power Supply by Comparison Method	1 cd to 1200 cd	1.82 %
576	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital - Hygrometer, Temperature & Humidity Indicator with Sensor / Probe, Thermo Hygrograph, Humidity Transmitter with / without Indicator, Data Logger with Sensor @ 50%RH	Using Temperature & Humidity Indicator with Sensor, PRT Sensor with Precision Multimeter and Temperature & Humidity Generator by Comparison Method	5 °C to 60 °C	0.15 °C

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577	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital - Hygrometer, Temperature & Humidity Indicator with Sensor / Probe, Thermo Hygrograph, Humidity Transmitter with / without Indicator, Data Logger with Sensor @10°C to 60°C	Using Temperature & Humidity Indicator with Sensor and Temperature & Humidity Generator by Comparison Method	10 %RH to 95 %RH	1.27 %RH
578	THERMAL-TEMPERATURE	Black Body Source, IR Thermal Source, IR Calibrator, Black Body Cavity (Built in Temperature Sensor with Display Unit) (Emissivity : 0.95)	Using Pyrometer by Comparison Method	50 °C to 500 °C	1.8 °C
579	THERMAL-TEMPERATURE	Black Body Source, IR Thermal Source, IR Calibrator, Black Body Cavity (Built in Temperature Sensor with Display Unit) (Emissivity : 0.99)	Using Pyrometer by Comparison Method	> 1200 °C to 1700 °C	4.12 °C

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580	THERMAL-TEMPERATURE	Black Body Source, IR Thermal Source, IR Calibrator, Black Body Cavity (Built in Temperature Sensor with Display Unit) (Emissivity : 0.99)	Using Pyrometer by Comparison Method	> 950 °C to 1200 °C	4 °C
581	THERMAL-TEMPERATURE	Black Body Source, IR Thermal Source, IR Calibrator, Black Body Cavity (Built in Temperature Sensor with Display Unit) (Emissivity : 0.99)	Using Pyrometer by Comparison Method	500 °C to 950 °C	4 °C
582	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Temperature Bath, Dry Block Calibrator - Single Position	Using S - Type Thermocouple with Indicator by Comparison Method	650 °C to 1200 °C	1.56 °C
583	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Dry Bath, Low & High Temperature Bath - Single Position	Using SSPRT with Precision Multimeter by Comparison Method	125 °C to 650 °C	0.08 °C
584	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Low & High Temperature Bath - Single Position	Using SSPRT with Precision Multimeter by Comparison Method	(-) 80 °C to (-) 30 °C	0.09 °C

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585	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Low & High Temperature Bath - Single Position	Using SSPRT with Precision Multimeter by Comparison Method	> (-) 30 °C to 125 °C	0.04 °C
586	THERMAL-TEMPERATURE	IR Thermometer, Non-Contact Thermometer, Pyrometer, Thermal Imaging Camera (Only Temperature) (Emissivity : 0.95)	Using IR Thermometer and Black Body Source by Comparison Method	50 °C to 100 °C	1.55 °C
587	THERMAL-TEMPERATURE	IR Thermometer, Non-Contact Thermometer, Pyrometer, Thermal Imaging Camera (Only Temperature) (Emissivity : 0.95)	Using IR Thermometer and Black Body Source by Comparison Method	> 100 °C to 500 °C	1.8 °C
588	THERMAL-TEMPERATURE	IR Thermometer, Non-Contact Thermometer, Pyrometer, Thermal Imaging Camera (Only Temperature) (Emissivity : 0.95)	Using Pyrometer with Digital Indicator and Black Body Source by Comparison Method	> 100 °C to 500 °C	2 °C

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589	THERMAL-TEMPERATURE	IR Thermometer, Non-Contact Thermometer, Pyrometer, Thermal Imaging Camera (Only Temperature) (Emissivity : 0.95)	Using Pyrometer with Digital Indicator and Black Body Source by Comparison Method	50 °C to 100 °C	1.55 °C
590	THERMAL-TEMPERATURE	IR Thermometer, Non-Contact Thermometer, Pyrometer, Thermal Imaging Camera (Only Temperature) (Emissivity : 0.99)	Using Pyrometer with Digital Indicator and Black Body Source by Comparison Method	> 1200 °C to 1700 °C	4.12 °C
591	THERMAL-TEMPERATURE	IR Thermometer, Non-Contact Thermometer, Pyrometer, Thermal Imaging Camera (Only Temperature) (Emissivity : 0.99)	Using Pyrometer with Digital Indicator and Black Body Source by Comparison Method	> 950 °C to 1200 °C	2.02 °C
592	THERMAL-TEMPERATURE	IR Thermometer, Non-Contact Thermometer, Pyrometer, Thermal Imaging Camera (Only Temperature) (Emissivity : 0.99)	Using Pyrometer with Digital Indicator and Black Body Source by Comparison Method	500 °C to 950 °C	3.94 °C

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593	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Precision Multimeter, Liquid Bath by Comparison Method	(-) 80 °C to (-) 30 °C	0.1 °C
594	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Precision Multimeter, Liquid Bath by Comparison Method	> (-) 30 °C to 25 °C	0.07 °C
595	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Precision Multimeter, Liquid Bath by Comparison Method	> 100 °C to 250 °C	0.11 °C
596	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Precision Multimeter, Liquid Bath by Comparison Method	> 25 °C to 100 °C	0.07 °C

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597	THERMAL-TEMPERATURE	RTD & Thermocouple with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using SSPRT with Precision Multimeter, Dry Block Calibrator, Temperature Indicator by Comparison Method	(-) 80 °C to (-) 30 °C	0.09 °C
598	THERMAL-TEMPERATURE	RTD & Thermocouple with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using SSPRT with Precision Multimeter, Liquid Bath, Temperature Indicator by Comparison Method	> (-) 30 °C to 0 °C	0.04 °C

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599	THERMAL-TEMPERATURE	RTD & Thermocouple with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using SSPRT with Precision Multimeter, Liquid Bath, Temperature Indicator by Comparison Method	> 0 °C to 125 °C	0.04 °C
600	THERMAL-TEMPERATURE	RTD & Thermocouple with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using SSPRT with Precision Multimeter, Dry Block Calibrator, Temperature Indicator by Comparison Method	> 125 °C to 400 °C	0.07 °C

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601	THERMAL-TEMPERATURE	RTD & Thermocouple with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using SSPRT with Precision Multimeter, Dry Block Calibrator, Temperature Indicator by Comparison Method	> 400 °C to 650 °C	0.1 °C
602	THERMAL-TEMPERATURE	RTD Sensor with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using SSPRT with Precision Multimeter & Liquid Nitrogen (LN2) Apparatus by Comparison Method	(-) 196 °C	0.09 °C

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603	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using S - Type Thermocouple with Indicator, Dry Block Calibrator, Digital Thermometer by Comparison Method	650 °C to 1200 °C	1.5 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter with Shunt by V/I Method	15 A to 150 A	1.42 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter with Shunt by V/I Method	150 A to 1000 A	1.42 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.17 % to 0.3 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	100 mA to 1 A	0.17 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Probe with Digital Multimeter by Direct Method	1 kV to 28 kV	6 % to 2.8 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1 kHz	Using LCR Meter by Direct Method	1 ohm to 100 ohm	0.3 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	4.74 % to 0.12 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	10 V to 1000 V	0.12 % to 0.1 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	100 mV to 10 V	0.12 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	100 mV to 1000 V	0.12 % to 0.103 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Meter by Direct Method	1 µF to 10 µF	0.23 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Meter by Direct Method	10 nF to 1 µF	0.23 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Meter by Direct Method	10 pF to 100 pF	0.35 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Meter by Direct Method	100 pF to 10 nF	0.35 % to 0.23 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 100 Hz	Using LCR Meter by Direct Method	1 µF to 10 µF	0.24 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using LCR Meter by Direct Method	100 µH to 10 H	0.46 % to 0.24 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Active Energy @ (45 Hz to 65 Hz, 0.2 (Lead/ Lag) to UPF, 63.5 V to 240 V, 0.05 A to 10 A)	Using 3Ø Energy Calibration Source by Direct Method	0.64 Wh to 2.4 kWh	0.21 % to 0.19 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Active Energy @ (45 Hz to 65 Hz, 0.2 (Lead/ Lag) to UPF, 63.5 V to 240 V, 10 A to 20 A)	Using 3Ø Energy Calibration Source by Direct Method	0.127 kWh to 4.8 kWh	0.19 % to 0.16 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Active Power @ (50 Hz, 0.2 (Lead / Lag), 120 V to 240 V, 0.1 A to 20 A)	Using Multi Product Calibrator by Direct Method	2.4 W to 960 W	1.2 %

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Active Power @ (50 Hz, 0.5 (Lead / Lag), 120 V to 240 V, 0.1 A to 20 A)	Using Multi Product Calibrator by Direct Method	6 W to 2.4 kW	0.37 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Active Power @ (50 Hz, 0.8 (Lead / Lag), 120 V to 240 V, 0.1 A to 20 A)	Using Multi Product Calibrator by Direct Method	9.6 W to 3.8 kW	0.16 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Active Power @ (50 Hz, 120 V to 240 V, 0.01 A to 20 A, UPF)	Using Multi Product Calibrator by Direct Method	1.2 W to 4.8 kW	0.12 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Power Factor @ (50 Hz, 120 V to 240 V, 0.1 A to 20 A)	Using Multi Product Calibrator by Direct Method	0.2 (Lead / Lag) to UPF	0.002 PF to 0.001 PF
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 3 Wire, AC Active Energy @ (45 Hz to 65 Hz, 0.2 (Lead/ Lag) to UPF, 63.5 V to 240 V, 0.05 A to 10 A)	Using 3Ø Energy Calibration Source by Direct Method	1.10 Wh to 4.16 kWh	0.21 % to 0.19 %

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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) (Source)	3Ø, 3 Wire, AC Active Energy @ (45 Hz to 65 Hz, 0.2 (Lead/ Lag) to UPF, 63.5 V to 240 V, 10 A to 20 A)	Using 3Ø Energy Calibration Source by Direct Method	0.219 kWh to 8.31 kWh	0.19 % to 0.16 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, 3 Wire, AC Active Power @ (50 Hz, 0.2 Lead / Lag to UPF, 63.5 V to 240 V, 0.05 A to 20 A)	Using 3Ø Energy Calibration Source by Direct Method	1.09 W to 8.31 kW	0.13 % to 0.25 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, AC Power Factor @ (50 Hz, 240 V, 1 A to 5 A)	Using 3Ø Energy Calibration Source by Direct Method	0.2 (Lead / Lag) to UPF	0.004 PF
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 mA to 10 A	0.13 % to 0.14 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 A to 20 A	0.14 % to 0.2 %

SCOPE OF ACCREDITATION

Laboratory Name : REVA PHOENIX LABS & CONSULTANTS PRIVATE LIMITED, REVA PHOENIX COMPLEX, NO. 14, 4TH STREET, RAJARAJESWARI NAGAR, MADIPAKKAM, CHENNAI, TAMIL NADU, INDIA

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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 µA to 1 mA	0.26 % to 0.13 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	30 µA to 100 µA	0.53 % to 0.26 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with 50 Turns Current Coil by Direct Method	10 A to 1000 A	0.33 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @1 kHz to 10 kHz	Using Multi Product Calibrator by Direct Method	19 mA to 3 A	0.25 % to 3.08 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 50 kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.056 % to 0.048 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 50 kHz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.036 % to 0.056 %

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36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.047 % to 0.043 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 45 Hz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.051 % to 0.047 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 mV to 100 mV	0.72 % to 0.036 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 V to 1000 V	0.025 % to 0.038 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.036 % to 0.025 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 kHz to 450 kHz	Using Multi Product Calibrator by Direct Method	30 mV to 3 V	1.12 % to 0.037 %

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42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	using Decade Capacitance Box by Direct Method	100 pF to 220 pF	0.66 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	220 pF to 1 nF	0.66 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	300 nF to 10 µF	0.63 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	1 nF to 300 nF	0.66 % to 0.63 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multi Product Calibrator by Direct Method	700 nF to 10 µF	0.46 % to 0.41 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multi Product Calibrator by Direct Method	1 nF to 700 nF	1.73 % to 0.46 %

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48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multi Product Calibrator by Direct Method	10 µF to 109 µF	0.41 % to 0.63 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	0.69 % to 0.74 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 µA to 100 µA	3.74 % to 0.09 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.086 % to 0.19 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 1 A	0.09 % to 0.086 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter with Shunt by V/I Method	15 A to 150 A	1.52 %

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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter with shunt by V/I Method	150 A to 1000 A	1.03 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with Digital Multimeter by Direct Method	0.5 kV to 20 kV	3.56 % to 1.97 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with Digital Multimeter by Direct Method	20 kV to 40 kV	1.97 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	10 kohm to 100 Mohm	0.013 % to 0.93 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	100 Mohm to 1 Gohm	0.93 % to 2.32 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	0.1 ohm to 1 ohm	3.67 % to 0.36 %

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60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 10 kohm	0.36 % to 0.013 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 100 kohm	0.36 % to 0.011 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	0.1 mV to 1 mV	4.04 % to 0.46 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	0.46 % to 0.008 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	0.004 % to 0.006 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.008 % to 0.004 %

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66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 µA to 100 µA	0.25 % to 0.04 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 A to 20 A	0.028 % to 0.12 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with 50 Turns Current Coil by Direct Method	10 A to 1000 A	0.3 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 mA to 1 A	0.015 % to 0.028 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 µA to 10 mA	0.04 % to 0.015 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power @ 1 V to 1000 V, 10 mA to 20 A	Using Multi Product Calibrator by Direct Method	10 mW to 20 kW	0.4 % to 0.081 %

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72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi Product Calibrator by Direct Method	1 Mohm to 100 Mohm	0.0042 % to 0.059 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Megaohm Box by Direct Method	1 Mohm to 100 Mohm	0.58 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi Product Calibrator by Direct Method	100 kohm to 1 Mohm	0.0034 % to 0.0042 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Megaohm Box by Direct Method	100 kohm to 1 Mohm	0.012 % to 0.58 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Megaohm Box by Direct Method	100 Mohm to 1 Gohm	0.58 % to 0.6 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire @ 1000 V	Using Decade Megaohm Box by Direct Method	1 Gohm to 100 Gohm	0.6 % to 2.6 %

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78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire @ 1000 V	Using Decade Megaohm Box by Direct Method	100 Gohm to 1000 Gohm	2.6 % to 4.1 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 kohm to 100 kohm	0.0034 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 ohm to 100 ohm	0.0076 % to 0.0034 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	1 ohm to 100 ohm	0.024 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	100 ohm to 1 kohm	0.0034 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	100 ohm to 100 kohm	0.024 % to 0.012 %

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84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	0.1 mV to 1 mV	1.17 % to 0.12 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	0.12 % to 0.014 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 V to 1000 V	0.002 % to 0.0024 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.014 % to 0.004 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.004 % to 0.002 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multi Product Calibrator by Direct Method	100 Mohm to 1000 Mohm	0.059 % to 1.85 %

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90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	0.01 ohm to 1 ohm	0.061 % to 0.007 %
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 kohm to 100 kohm	0.0029 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	1 ohm to 100 ohm	0.007 % to 0.0029 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multi Product Calibrator by Direct Method	100 ohm to 1 kohm	0.0029 %
94	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Magnet, Magnet	Using Reference Gauss Meter by Direct Method	100 Gauss to 10000 Gauss	5.5 % to 5.52 %
95	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Reference Magnet, Magnet	Using Reference Gauss Meter by Direct Method	2.5 Gauss to 100 Gauss	5.5 %

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96	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Gauss Meter	Using Reference Gauss Meter & Standard Reference Magnets by Comparison Method	2.5 Gauss to 10000 Gauss	6.6 %
97	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth @ 50 kHz	Using Multi Product Calibrator by Direct Method	50 kHz to 1 GHz	6 %
98	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time Base	Using Multi Product Calibrator by Direct Method	1 ns to 5 s	0.03 % to 0.58 %
99	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope AC Amplitude (Vertical Axis Deflection Factor) @ 1 kHz - 1 Mohm	Using Multi Product Calibrator by Direct Method	1 mV to 130 V	4.73 % to 0.14 %
100	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope DC Amplitude (Vertical Axis Deflection Factor) @ 1 Mohm	Using Multi Product Calibrator by Direct Method	1 mV to 130 V	4.7 % to 0.06 %
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD {(PT 385 (100 O), PT 385 (200 O), PT 385 (500 O), PT 385 (1000 O)}	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 800 °C	0.015 °C

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102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using 8½ Digit Multimeter by Direct Method	600 °C to 1800 °C	0.05 °C
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using 8½ Digit Multimeter by Direct Method	(-) 250 °C to 1000 °C	0.04 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1200 °C	0.04 °C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1370 °C	0.04 °C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - L Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 900 °C	0.04 °C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using 8½ Digit Multimeter by Direct Method	(-) 200 °C to 1300 °C	0.04 °C

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108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using 8½ Digit Multimeter by Direct Method	0 °C to 1760 °C	0.05 °C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using 8½ Digit Multimeter by Direct Method	0 °C to 1750 °C	0.05 °C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using 8½ Digit Multimeter by Direct Method	(-) 250 °C to 400 °C	0.04 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - U Type	Using 8½ Digit Multimeter by Direct Method	(-) 250 °C to 600 °C	0.04 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD {PT 385 (100 O)}	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 800 °C	0.46 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.2 °C

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114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Multi Function Calibrator by Direct Method	(-) 250 °C to 1000 °C	0.31 °C
115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.38 °C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.5 °C
117	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.5 °C
118	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Multi Function Calibrator by Direct Method	0 °C to 1767 °C	0.92 °C
119	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Multi Function Calibrator by Direct Method	0 °C to 1767 °C	0.92 °C

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120	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 400 °C	0.14 °C
121	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - U Type	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 600 °C	0.14 °C
122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	3 Hz to 300 kHz	0.058 % to 0.012 %
123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	300 kHz to 1 MHz	0.012 % to 0.013 %
124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method	0.1 s to 60 s	0.011 s to 0.018 s
125	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method	1800 s to 3600 s	0.03 s to 0.059 s

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126	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method	3600 s to 36000 s	0.059 s to 0.77 s
127	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method	36000 s to 86400 s	0.77 s to 1.51 s
128	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method	60 s to 600 s	0.018 s to 0.03 s
129	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method	600 s to 1800 s	0.03 s
130	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1 Hz to 1000 Hz	0.001 % to 0.0006 %
131	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 kHz to 2 MHz	0.0003 %

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132	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1000 Hz to 100 kHz	0.0006 % to 0.0003 %
133	FLUID FLOW-FLOW MEASURING DEVICES	Analog / Digital - Flow Meter, Gas Flow Meter, Mass Flow Controller, Mass Flow Meter, Rotameter, Orifice Flow Meter, Dry Gas Meter, Flow Calibrator (Medium - Air / Gas)	Using Orifice Flow Calibrator by Comparison Method	50 lpm to 500 lpm	1 %
134	FLUID FLOW-FLOW MEASURING DEVICES	Analog / Digital - Gas Flow Meter, Mass Flow Controller, Mass Flow Meter, Rotameter, Orifice Flow Meter, Dry Gas Meter, Flow Calibrator (Medium - Air / Gas)	Using Laminar Gas Flow Calibrator by Comparison Method	1 ccm to 500 ccm	1.5 %
135	FLUID FLOW-FLOW MEASURING DEVICES	Analog / Digital - Gas Flow Meter, Rotameter, Dry Gas Meter, Orifice Flow Meter, Flow Calibrator (Medium - Air)	Using Laminar Gas Flow Calibrator by Comparison Method	0.5 lpm to 50 lpm	0.9 %

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136	FLUID FLOW-FLOW MEASURING DEVICES	Digital / Analog - Water Flow Meter, Rotameter, Digital Flow Meter, Electro Magnetic Flow Meter	Using Ultrasonic Clamp on Liquid Flow Meter & 6½ Digit Multimeter by Comparison Method	1.4 m^3/hr to 1090 m^3/hr	1.2 %
137	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source, RPM Stirrer, RPM Mixer	Using Digital Tachometer by Comparison Method	> 10000 RPM to 50000 RPM	3 RPM
138	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source, RPM Stirrer, RPM Mixer	Using Digital Tachometer by Comparison Method	> 50000 RPM to 99999 RPM	3.42 RPM
139	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source, RPM Stirrer, RPM Mixer	Using Digital Tachometer by Comparison Method	> 60 RPM to 10000 RPM	1.6 RPM
140	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source, RPM Stirrer, RPM Mixer	Using Digital Tachometer by Comparison Method	15 RPM to 60 RPM	1.6 RPM
141	MECHANICAL-ACCELERATION AND SPEED	RPM Source, RPM Mixer - Contact Mode	Using Digital Tachometer by Comparison Method	> 100 RPM to 9999 RPM	1.4 RPM
142	MECHANICAL-ACCELERATION AND SPEED	RPM Source, RPM Mixer - Contact Mode	Using Digital Tachometer by Comparison Method	20 RPM to 100 RPM	0.41 RPM
143	MECHANICAL-ACCELERATION AND SPEED	Stroboscope, RPM Source, RPM Stirrer, RPM Mixer - Non - Contact Mode	Using Digital Tachometer by Comparison Method	> 10000 RPM to 50000 RPM	2.79 RPM

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144	MECHANICAL-ACCELERATION AND SPEED	Stroboscope, RPM Source, RPM Stirrer, RPM Mixer - Non - Contact Mode	Using Digital Tachometer by Comparison Method	> 50000 RPM to 99999 RPM	3.42 RPM
145	MECHANICAL-ACCELERATION AND SPEED	Stroboscope, RPM Source, RPM Stirrer, RPM Mixer - Non - Contact Mode	Using Digital Tachometer by Comparison Method	> 60 RPM to 10000 RPM	1.63 RPM
146	MECHANICAL-ACCELERATION AND SPEED	Stroboscope, RPM Source, RPM Stirrer, RPM Mixer - Non - Contact Mode	Using Digital Tachometer by Comparison Method	15 RPM to 60 RPM	0.3 RPM
147	MECHANICAL-ACCELERATION AND SPEED	Vibration Machine, Vibration Shaker, Portable Vibration Calibrator - Acceleration @ 10 Hz to 1280 Hz	Using Accelerometer with Signal Analyser & Precision Multimeter by Comparison Method	0.5 m/s^2 to 199.9 m/s^2	5 %
148	MECHANICAL-ACCELERATION AND SPEED	Vibration Machine, Vibration Shaker, Portable Vibration Calibrator - Displacement @ 10 Hz to 1280 Hz	Using Accelerometer with Signal Analyser & Precision Multimeter by Comparison Method	0.014 mm to 1.999 mm	5 %
149	MECHANICAL-ACCELERATION AND SPEED	Vibration Machine, Vibration Shaker, Portable Vibration Calibrator - Velocity @ 10 Hz to 1280 Hz	Using Accelerometer with Signal Analyser & Precision Multimeter by Comparison Method	0.5 mm/s to 199.9 mm/s	5 %

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150	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter - Displacement @ 10 Hz to 320 Hz	Using Vibration Calibration Reference System, Vibration Meter & Precision Multimeter by Comparison Method as per ISO 16063	0.014 mm to 1.999 mm	5.4 %
151	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter - Velocity @ 10 Hz to 1280 Hz	Using Vibration Calibration Reference System, Vibration Meter & Precision Multimeter by Comparison Method as per ISO 16063	1 mm/s to 199.9 mm/s	5.4 %
152	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter, Vibration Sensor - Acceleration @ 10 Hz to 1280 Hz	Using Vibration Calibration Reference System, Vibration Meter & Precision Multimeter by Comparison Method as per ISO 16063	0.5 m/s^2 to 199.9 m/s^2	5 %
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center - Co-axiality	Using Straight Mandrel & Lever Dial Gauge by Comparison Method	Up to 1000 mm	9.28 µm

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154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center - Co-Axiality	Using Mandrel & Lever Dial Gauge by Comparison Method	Up to 300 mm	3.38 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center - Parallelism	Using Taper Shank Mandrel & Lever Dial Gauge by Comparison Method	Up to 1000 mm	5.5 µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center - Parallelism	Using Taper Shank Mandrel & Lever Dial Gauge by Comparison Method	Up to 300 mm	3.38 µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer (L.C.: 0.001 mm & Coarser)	Using Extensometer Calibration Stand with DRO & Digital Caliper by Comparison Method as per ASTM E83 & ISO 9513	Up to 5 mm	2.95 µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Electronic / Digital (L.C.: 0.01 mm & Coarser)	Using Caliper Checker by Comparison Method	0 to 300 mm	3.8 µm

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159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Electronic / Digital (L.C.: 0.01 mm & Coarser)	Using Caliper Checker by Comparison Method	0 to 600 mm	7.4 µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Granite / Cast Iron	Using Electronic Level by Comparison Method	Up to 3000 x 3000 mm	0.53 x sqrt {(L + W) / 100} µm, where L & W are in mm
161	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Linear Height Gauge - Linear (L.C.: 0.0001 mm & Coarser)	Using Long Gauge Block by Comparison Method	> 600 mm to 1000 mm	8.8 µm
162	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Linear Height Gauge - Linear (L.C.: 0.0001 mm & Coarser)	Using Check Master by Comparison method	Up to 600 mm	4.56 µm
163	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Linear Height Gauge - Squareness (L.C.: 0.0001 mm & Coarser)	Using Cylindrical Square by Comparison Method	Up to 600 mm	7.14 µm
164	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Linear Height Gauge - Squareness (L.C.: 0.0001 mm & Coarser)	Using Cylindrical Square by Comparison method	> 600 mm to 1000 mm	5.9 µm

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165	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	3D Co-ordinate Measuring Machine (L.C.: 0.0001 mm & Coarser)	Using Check Master & Sphere by Comparison Method	Up to 1000 x 1000 x 1000 mm	3.84 + 2(L) µm, where L is in meter
166	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine - Concentricity of Center Points (L.C.: 0.0001 mm & Coarser)	Using Cylindrical Setting Masters, Electronic Comparator LVDT by Comparison Method as per MOY/SCMI/9	Up to 175 mm	1.96 µm
167	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine - Parallelism (L.C.: 0.0001 mm & Coarser)	Using Cylindrical Setting Masters, Electronic Comparator LVDT by Comparison Method as per MOY/SCMI/9	Up to 175 mm	1.96 µm
168	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine - Squareness (L.C.: 0.0001 mm & Coarser)	Using Mandrels, Electronic Comparator LVDT by Comparison Method as per MOY/SCMI/9	Up to 175 mm	1.96 µm
169	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine - Straightness (L.C.: 0.0001 mm & Coarser)	Using Mandrels, Electronic Comparator LVDT by Comparison Method as per MOY/SCMI/9	Up to 175 mm	1.96 µm

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170	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine, Universal Length Measuring Machine (L.C.: 0.0001 mm & Coarser)	Using Grade 'K' Gauge Blocks by Comparison method	500 mm to 1000 mm	4.4 µm
171	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine, Universal Length Measuring Machine (L.C.: 0.0001 mm & Coarser)	Using Grade 'K' Gauge Blocks by Comparison Method	100 mm to 500 mm	2.6 µm
172	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine, Universal Length Measuring Machine (L.C.: 0.0001 mm & Coarser)	Using Grade 'K' Gauge Blocks by Comparison method	Up to 100 mm	0.5 µm
173	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine - Angle (L.C.: 1 second of arc & Coarser)	Using Glass Protractor by Comparison Method as per JIS B 7184	Up to 360 °	1.85 minute of arc

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174	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine, Metallurgical Microscope, Tool Makers Microscope, Microscope - Linear (L.C.: 1 µm & Coarser)	Using Glass Scale by Comparison Method as per JIS B 7184	Up to 300 mm	2.26 µm
175	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine, Metallurgical Microscope, Tool Makers Microscope, Microscope - Magnification	Using Glass Scales, Vernier Caliper by Comparison Method as per JIS B 7184	10 X to 100 X	0.68 %
176	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibrator, Tape & Scale Calibrating Machine (L.C.: 0.001 mm & Coarser)	Using Long Gauge Blocks, Gauge Block Set and LVDT by Comparison Method	0 to 1000 mm	6.7 µm
177	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine / Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 : Part 2 : 2021 / ISO 6506-2:2017 / ASTM E10-23	HBW 10/1000	1.35 %

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178	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine / Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 : Part 2 : 2021 / ISO 6506-2:2017 / ASTM E10-23	HBW 10/500	1.65 %
179	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine / Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 : Part 2 : 2021 / ISO 6506-2:2017 / ASTM E10-23	HBW 10/3000	1.53 %
180	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine / Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 : Part 2 : 2021 / ISO 6506-2:2017 / ASTM E10-23	HBW 2.5 / 187.5	1.65 %
181	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine / Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 : Part 2 : 2021 / ISO 6506-2:2017 / ASTM E10-23	HBW 5/750	1.88 %

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182	MECHANICAL-HARDNESS TESTING MACHINES	Leeb (Dynamic) Hardness Tester, Leeb Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per ASTM A956	D Scale	7.7 HLD
183	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020 / ISO 6507-2 : 2018 / ASTM E384-22 / ASTM E92-23	HV 0.3	2.65 %
184	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020 / ISO 6507-2 : 2018 / ASTM E384-22 / ASTM E92-23	HV 0.5	2.77 %
185	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020 / ISO 6507-2 : 2018 / ASTM E384-22 / ASTM E92-23	HV 0.2	2.72 %

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186	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020 / ISO 6507-2 : 2018 / ASTM E384-22 / ASTM E92-23	HV 1	2.85 %
187	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 : Part 2 : 2018 / ISO 6508-2:2023 / ASTM E18-22	HR 15N	0.53 HR 15N
188	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 : Part 2 : 2018 / ISO 6508-2:2023 / ASTM E18-22	HR 30N	0.57 HR 30N
189	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 : Part 2 : 2018 / ISO 6508-2:2023 / ASTM E18-22	HR 45N	0.62 HR 45N

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190	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 : Part 2 : 2018 / ISO 6508-2:2023 / ASTM E18-22	HRA	0.54 HRA
191	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 : Part 2 : 2018 / ISO 6508-2:2023 / ASTM E18-22	HRBW	0.62 HRBW
192	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 : Part 2 : 2018 / ISO 6508-2:2023 / ASTM E18-22	HRC	0.53 HRC
193	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS: 1501 Part 2: 2020 / ISO 6507-2:2018 / ASTM E384-22 / ASTM E92-23	HV 10	1.68 %

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194	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS: 1501 Part 2: 2020 / ISO 6507-2:2018 / ASTM E384-22 / ASTM E92-23	HV 30	1.65 %
195	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS: 1501 Part 2: 2020 / ISO 6507-2:2018 / ASTM E384-22 / ASTM E92-23	HV 50	1.65 %
196	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS: 1501 Part 2: 2020 / ISO 6507-2:2018 / ASTM E384-22 / ASTM E92-23	HV 5	1.79 %

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197	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine - Charpy	Using Impact Calibration kit and Standard Reference Test Pieces by Direct and Indirect Verification as per ISO 148-2:2016, ASTM-E23-23, BS 131-4:2020	0 to 300 J	0.95 %
198	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine - Izod	Using Impact Calibration Kit by Direct method as per ASTM-E23-23, BS 131-4:2020	0 to 168 J	0.6 %
199	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Data Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with / without Indicator, Pressure Switch - Hydraulic Pressure	Using Digital Pressure Gauge, Pressure Calibrator, Hydraulic Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 1400 bar	0.202 bar

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200	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Data Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with / without Indicator, Pressure Switch - Hydraulic Pressure	Using Pressure Gauge, Pressure Calibrator, Hydraulic Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 200 bar	0.025 bar
201	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Data Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with / without Indicator, Pressure Switch - Hydraulic Pressure	Using Process Calibrator with External Sensor & Pressure Calibrator by Comparison Method as per DKD-R 6-1	0 to 2500 bar	0.96 bar

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202	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Data Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with / without Indicator, Pressure Switch - Hydraulic Pressure	Using Digital Pressure Gauge, Pressure Calibrator, Hydraulic Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.08 bar
203	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with or without Indicator, Pressure Switch - Pneumatic Pressure	Using Digital Pressure Gauge and Pressure Calibrator, Pneumatic Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 2 bar	0.0006 bar

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204	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with or without Indicator, Pressure Switch - Pneumatic Pressure	Using Digital Pressure Gauge, Pressure Calibrator, Pneumatic Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.0026 bar
205	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with or without Indicator, Pressure Switch - Pneumatic Pressure	Using Digital Pressure Gauge, Pressure Calibrator, Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.006 bar

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206	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Logger, Pressure Module, Pressure Transmitter, Pressure Transducer with or without Indicator, Pressure Switch - Pneumatic Pressure	Using Pressure Calibrator, Pressure Calibrator, Pneumatic Hand pump by Comparison Method as per DKD-R 6-1	0 to 40 bar	0.0052 bar
207	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Transmitter, Pressure Transducer, Manometer, Magnehelic Pressure Gauge, Pressure Module - Pneumatic Pressure	Using Digital Manometer, Low Pressure Comparator Pump, Pressure Calibrator by Comparison Method as per DKD-R 6-1	0 to 50 mbar	0.017 mbar

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208	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Transmitter, Pressure Transducer, Manometer, Magnehelic Pressure Gauge, Pressure Module - Pneumatic Pressure	Using Digital Manometer, Low Pressure Comparator Pump, Pressure Calibrator by Comparison Method as per DKD-R 6-1	50 mbar to 500 mbar	0.0672 mbar
209	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Transmitter, Pressure Transducer, Manometer, Magnehelic Pressure Gauge, Pressure Module - Pneumatic Pressure	Using Digital Manometer, Low Pressure Comparator Pump & Pressure Calibrator by Comparison Method as per DKD-R 6-1	(-) 50 mbar to (-) 500 mbar	0.0672 mbar

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210	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Transmitter, Pressure Transducer, Manometer, Magnehelic Pressure Gauge, Pressure Module - Pneumatic Pressure	Using Digital Manometer, Low Pressure Comparator Pump & Pressure Calibrator by Comparison Method as per DKD-R 6-1	(-) 50 mbar to 0 mbar	0.017 mbar
211	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Transmitter, Pressure Transducer, Manometer, Magnehelic Pressure Gauge, Pressure Module - Pneumatic Pressure	Using Digital Manometer, Low Pressure Comparator Pump, Pressure Calibrator by Comparison Method as per DKD-R 6-1	0 to 500 mbar	0.058 mbar

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212	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Recorder, Pressure Controller, Pressure Switch, Pressure Transmitter, Pressure Transducer with / without Indicator, Manometer, Barometer, Absolute Pressure Gauge - Pneumatic Pressure	Using Absolute Pressure Gauge with Pneumatic Pump, Pressure Calibrator by Comparison Method as per DKD-R 6-1 & OIML R 97	0.015 bar (abs) to 4 bar (abs)	0.00042 bar (abs)
213	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Gauge, Vacuum Calibrator, Vacuum Indicator, Vacuum Controller, Vacuum Logger, Vacuum Module, Vacuum Transmitter, Vacuum Transducer, Manometer, Vacuum Switch - Pneumatic Pressure	Using Digital Pressure Calibrator and Pressure Calibrator by Comparison Method as per DKD-R 6-1	(-) 945 mbar to 0 mbar	0.2 mbar

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214	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Displacement Measuring System and Device used in UTM	Using Linear Scale with Digital Readout as per ISO 9513:2012, ASTM E2309-20	> 300 mm to 1000 mm	0.16 mm
215	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Displacement Measuring System and Device used in UTM	Using Linear Scale with DRO as per ISO 9513:2012, ASTM E2309-20	0 to 300 mm	0.06 mm
216	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Speed in UTM	Using Linear Scale with Digital Readout & Stop Watch as per ASTM E2658-23	1.5 mm/min to 1000 mm/min	0.8 mm/min
217	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine (UTM / CTM), Creep Testing Machine, Spring Testing Machine, Flexural Testing Machine - Compression Mode	Using Load Cell with Indicator by Comparison Method as per IS 1828 (Part 1) : 2022 ISO 7500-1 : 2018, JIS B 7221 - 2010	100 N to 1000 kN	0.3 %

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218	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine (UTM), Tensile / Creep Testing Machine, Spring Testing Machine, Flexural Testing Machine - Tension Mode	Using Load Cell with Indicator by Comparison Method as per IS 1828 (Part 1) : 2022 ISO 7500-1 : 2018, JIS B 7221 - 2010	100 N to 1000 kN	0.5 %
219	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.0001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 2.1 g	0.005 mg
220	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.0001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 6.1 g	0.01 mg
221	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 22 g	0.01 mg
222	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 220 g	0.04 mg
223	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.1 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 1000 g	0.15 mg

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224	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 1 mg)	Using E1, E2 Class Weights by Comparison Method as per OIML R 76-1	0 to 10 kg	1.5 mg
225	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 10 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 6.2 kg	6 mg
226	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 100 mg)	Using E1, E2, F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 36 kg	62 mg
227	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 100 mg)	Using E2, F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 75 kg	300 mg
228	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 5 mg)	Using E2, F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 40 kg	10 mg
229	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III and coarser (Readability: 1 g)	Using E2, F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 60 kg	0.6 g
230	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III and Coarser (Readability: 2 g)	Using E2, F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 100 kg	1.2 g

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231	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III and Coarser (Readability: 2 g)	Using E2, F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 60 kg	1.2 g
232	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class IIII (Readability: 100 g)	Using F2, M1 Class Weights by Comparison Method as per OIML R 76-1	0 to 2000 kg	62 g
233	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class IIII (Readability: 10 g)	Using E2, F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 300 kg	13 g
234	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class IIII (Readability: 50 g)	Using E2, F1, F2, M1 Class Weights by Comparison Method as per OIML R 76-1	0 to 500 kg	30 g
235	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator / Controller with Sensor of Environmental Chamber, Humidity Chamber, Climatic Chamber (Multi Point Calibration) - @ 10°C to 60°C	Using Temperature & Humidity Indicator with Sensor by Comparison Method	10 %RH to 95 %RH	1.6 %RH

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236	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator / Controller with Sensor of Environmental Chamber, Humidity Chamber, Climatic Chamber - Single Position @ 10°C to 60 °C	Using Temperature & Humidity Indicator with Sensor by Comparison Method	10 %RH to 95 %RH	1.27 %RH
237	THERMAL-TEMPERATURE	Bath, Deep Freezer, Refrigerator, Incubator, Thermal Chamber, Cold Room, Temperature Calibrator, BOD Incubator, Autoclave, Liquid Bath, Hot Air Oven - Multi Position (Minimum 9 Sensors)	Using RTD Sensor with Multi Channel Recorder by Comparison Method	(-) 80 °C to 100 °C	0.82 °C
238	THERMAL-TEMPERATURE	Bath, Hot Air Oven, Furnace - Multi Position (Minimum 9 Sensors)	Using N Type Thermocouple with Multi Channel Recorder by Comparison Method	400 °C to 1200 °C	2.7 °C

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239	THERMAL-TEMPERATURE	Bath, Incubator, Thermal Chamber, Temperature Calibrator, BOD Incubator, Autoclave, Hot Air Oven - Multi Position (Minimum 9 Sensors)	Using RTD Sensor with Multi Channel Recorder by Comparison Method	100 °C to 400 °C	0.82 °C
240	THERMAL-TEMPERATURE	Black Body Source, IR Thermal Source, IR Calibrator, Black Body Cavity (Built in Temperature Sensor with Display Unit) (Emissivity : 0.95)	Using Pyrometer by Comparison Method	50 °C to 500 °C	1.8 °C
241	THERMAL-TEMPERATURE	Black Body Source, IR Thermal Source, IR Calibrator, Black Body Cavity (Built in Temperature Sensor with Display Unit) (Emissivity : 0.99)	Using Pyrometer by Comparison Method	> 1200 °C to 1700 °C	4.12 °C
242	THERMAL-TEMPERATURE	Black Body Source, IR Thermal Source, IR Calibrator, Black Body Cavity (Built in Temperature Sensor with Display Unit) (Emissivity : 0.99)	Using Pyrometer by Comparison Method	> 950 °C to 1200 °C	4 °C

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243	THERMAL-TEMPERATURE	Black Body Source, IR Thermal Source, IR Calibrator, Black Body Cavity (Built in Temperature Sensor with Display Unit) (Emissivity : 0.99)	Using Pyrometer by Comparison Method	500 °C to 950 °C	4 °C
244	THERMAL-TEMPERATURE	Indicator with Sensor of Bath, Deep Freezer, Freezer, Refrigerator, Thermal Chamber, Cold Room, Cold Chamber - Single Position	Using PRT Sensor with Indicator by Comparison Method	(-) 80 °C to (-) 30 °C	0.11 °C
245	THERMAL-TEMPERATURE	Indicator with Sensor of Bath, Freezer, Refrigerator, Incubator, Autoclave, Thermal / Cold Chamber, Cold Room, Water Bath - Single Position	Using PRT Sensor with Indicator by Comparison Method	(-) 30 °C to 125 °C	0.09 °C
246	THERMAL-TEMPERATURE	Indicator with Sensor of Bath, Furnace - Single Position	Using R - Type Thermocouple with Indicator by Comparison Method	600 °C to 1200 °C	1.95 °C

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247	THERMAL-TEMPERATURE	Indicator with Sensor of Bath, Incubator, Chamber, Hot Air Oven, Furnace - Single Position	Using PRT Sensor with Indicator by Comparison Method	125 °C to 600 °C	0.07 °C
248	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Temperature Bath, Dry Block Calibrator - Single Position	Using S - Type Thermocouple with Indicator by Comparison Method	650 °C to 1200 °C	1.56 °C
249	THERMAL-TEMPERATURE	Indicator with Sensor of Hot Air Oven, Furnace - Single Point	Using Thermocouple R Type with Multifunction Calibrator by Comparison Method	1200 °C to 1500 °C	2.9 °C
250	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Dry Bath, Low & High Temperature Bath - Single Position	Using SSPRT with Precision Multimeter by Comparison Method	125 °C to 650 °C	0.08 °C
251	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Low & High Temperature Bath - Single Position	Using SSPRT with Precision Multimeter by Comparison Method	(-) 80 °C to (-) 30 °C	0.09 °C

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252	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Low & High Temperature Bath - Single Position	Using SSPRT with Precision Multimeter by Comparison Method	> (-) 30 °C to 125 °C	0.04 °C
253	THERMAL-TEMPERATURE	IR Thermometer, Non-Contact Thermometer, Pyrometer, Thermal Imaging Camera (Only Temperature) (Emissivity : 0.95)	Using IR Thermometer and Black Body Source by Comparison Method	50 °C to 100 °C	1.55 °C
254	THERMAL-TEMPERATURE	IR Thermometer, Non-Contact Thermometer, Pyrometer, Thermal Imaging Camera (Only Temperature) (Emissivity : 0.95)	Using IR Thermometer and Black Body Source by Comparison Method	> 100 °C to 500 °C	1.8 °C
255	THERMAL-TEMPERATURE	IR Thermometer, Non-Contact Thermometer, Pyrometer, Thermal Imaging Camera (Only Temperature) (Emissivity : 0.95)	Using Pyrometer with Digital Indicator and Black Body Source by Comparison Method	> 100 °C to 500 °C	2 °C

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256	THERMAL-TEMPERATURE	IR Thermometer, Non-Contact Thermometer, Pyrometer, Thermal Imaging Camera (Only Temperature) (Emissivity : 0.95)	Using Pyrometer with Digital Indicator and Black Body Source by Comparison Method	50 °C to 100 °C	1.55 °C
257	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Precision Multimeter, Liquid Bath by Comparison Method	> (-) 30 °C to 25 °C	0.07 °C
258	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Precision Multimeter, Liquid Bath by Comparison Method	> 100 °C to 250 °C	0.11 °C
259	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Precision Multimeter, Liquid Bath by Comparison Method	> 25 °C to 100 °C	0.07 °C

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260	THERMAL-TEMPERATURE	RTD & Thermocouple with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using PRT Sensor with Indicator, 6½ Digit Multimeter, Multi Function Calibrator, Liquid Bath by Comparison Method	(-) 30 °C to 50 °C	0.09 °C
261	THERMAL-TEMPERATURE	RTD & Thermocouple with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using PRT Sensor with Indicator, 6½ Digit Multimeter, Multi Function Calibrator, Dry Block Calibrator by Comparison Method	> 300 °C to 600 °C	0.14 °C

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262	THERMAL-TEMPERATURE	RTD & Thermocouple with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using SSPRT with Precision Multimeter, Liquid Bath, Temperature Indicator by Comparison Method	> 0 °C to 125 °C	0.04 °C
263	THERMAL-TEMPERATURE	RTD & Thermocouple with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using SSPRT with Precision Multimeter, Dry Block Calibrator, Temperature Indicator by Comparison Method	> 125 °C to 400 °C	0.07 °C

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264	THERMAL-TEMPERATURE	RTD & Thermocouple with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using SSPRT with Precision Multimeter, Dry Block Calibrator, Temperature Indicator by Comparison Method	> 400 °C to 650 °C	0.1 °C
265	THERMAL-TEMPERATURE	RTD & Thermocouple with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using PRT Sensor with Indicator, 6½ Digit Multimeter, Multi Function Calibrator, Dry Block Calibrator by Comparison Method	> 50 °C to 300 °C	0.11 °C

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266	THERMAL-TEMPERATURE	RTD Sensor with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using SSPRT with Precision Multimeter & Liquid Nitrogen (LN2) Apparatus by Comparison Method	(-) 196 °C	0.09 °C
267	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using S - Type Thermocouple with Indicator, Dry Block Calibrator, Digital Thermometer by Comparison Method	650 °C to 1200 °C	1.5 °C

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268	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter, Temperature Thermister	Using R - Type Thermocouple with Indicator, Dry Block Calibrator, Temperature Indicator by Comparison Method	600 °C to 1200 °C	2 °C

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