



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS PRIVATE LIMITED, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

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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)(±)
LOCATION 1-NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	1 A to 20 A	0.094 % to 0.104 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	100 µA to 100 mA	0.042 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	100 mA to 1 A	0.041 % to 0.094 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	1 A to 20 A	0.50 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	20 A to 700 A	0.5 % to 1.0 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	700 A to 1000 A	1.0 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50Hz @ 0.2 Lag 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	2.4 W to 960 W	0.5 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50Hz @ 0.5 Lag 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	6 W to 2.4 kW	0.6 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50Hz @ 0.8 Lead 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	9.6 W to 3.8 kW	0.25 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50Hz @ UPF 120 V to 240 V, 0.01 A to 20 A	Using Digital Power Meter by Direct method	1.2 W to 4.8 kW	0.26 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	1 mV to 100 mV	0.820 % to 0.014 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	1 V to 100 V	0.017 % to 0.073 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	100 mV to 1 V	0.014 % to 0.017 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (45 Hz to 1 kHz)	Using 8½ Digital Multimeter by Direct method	100 V to 1000 V	0.01 % to 0.019 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 kHz to 500 kHz)	Using 8½ Digital Multimeter by Direct method	1 V to 20 V	0.07 % to 0.230 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	1 µF to 100 µF	0.05 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	1 nF to 100 nF	0.056 % to 0.061 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	100 nF to 1 µF	0.05 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (1 kHz)	Using LCR Meter by Direct method	100 µH to 100 mH	0.236 % to 0.065 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	inductance (1 kHz)	Using LCR Meter by Direct method	100 mH to 10 H	0.065 % to 0.073 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Multiproduct Calibrator by Direct method	220 pF to 1 µF	5.85 % to 1.55 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Capacitance (1 kHz)	Using Decade Capacitance Box by Direct method	1 nF to 100 µF	1.15 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Capacitance (100 Hz)	Using Multiproduct Calibrator by Direct method	1 µF to 30 µF	1.55 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.073 % to 0.14 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	3.3 mA to 1 A	0.15 % to 0.074 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	30 µA to 330 µA	0.56 % to 0.17 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	330 µA to 3.3 mA	0.17 % to 0.15 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	3.3 mA to 3 A	0.28 % to 0.24 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 1kHz)	Using Multiproduct Calibrator by Direct method	330 µA to 3.3 mA	0.81 % to 0.26 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 5 kHz)	Using Multiproduct Calibrator by Direct method	3 A to 20 A	0.23 % to 0.20 %



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31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Current source by Direct method	1 A to 1000 A	1.0 %
32	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Multiproduct Calibrator & Current Coil by Direct method	20 A to 1000 A	0.68 % to 0.37 %
33	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power ,UPF @50Hz, 0.01 A to 20 A, 120 V to 240 V	Using Multiproduct Calibrator by Direct method	1.2 W to 4.8 kW	0.17 %
34	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power , 0.2 Lag @50Hz, 0.01 A to 20 A, 120 V to 240 V	Using Multiproduct Calibrator by Direct method	2.4 W to 960 W	0.57 %
35	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power 0.5 Lag @ 50Hz, 0.01A to 20A, 120V to 240V	Using Multiproduct Calibrator by Direct method	6 W to 2.4 kW	0.46 %
36	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power, 0.8 Lead @50Hz 120 V to 240 V, 0.1 A to 20 A	Using Multiproduct Calibrator by Direct method	9.6 W to 3.8 kW	0.2 %



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37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	1 V to 30 V	0.080 % to 0.042 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	100 mV to 1 V	0.087 % to 0.080 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 100 mV	0.12 % to 0.086 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	30 V to 300 V	0.20 % to 0.026 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	300 V to 1000 V	0.026% % to 0.039 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	1 mV to 3 mV	0.75 % to 0.24 %



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43	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	3 mV to 30 mV	0.24 % to 0.042 %
44	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (450kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 3 V	1.116 % to 0.121 %
45	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (50 kHz to 90 kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 30 V	0.452 % to 0.054 %
46	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (90 kHz to 100 kHz)	Using Multiproduct Calibrator by Direct method	30 V to 100 V	0.054 % to 0.024 %
47	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance (1 kHz)	Using Decade Inductance Box by Direct method	10 µH to 10 H	2.35 % to 1.16 %
48	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @50 Hz, 0.01A to 20A, 120V to 240V	Using Multiproduct Calibrator by Direct method	0.2 Lag to UPF	0.0003 PF



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49	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @50Hz , 0.01 A to 20 A, 120 V to 240 V	using master Standard Calibrator by Direct Method	0.2 Lead to UPF	0.0003 PF
50	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	1 A to 20 A	0.080 % to 0.052 %
51	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Shunt with Digital Multimeter by Direct method	1 A to 20 A	1.19 %
52	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	1 mA to 100 mA	0.002 % to 0.009 %
53	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	10 µA to 100 µA	0.001 %
54	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 µA to 1 mA	0.001 % to 0.002 %



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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 mA to 1 A	0.062 % to 0.080 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with Digital Multimeter by Direct method	20 A to 1000 A	1.2 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	1 mV to 100 mV	0.47 % to 0.0003 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	1 V to 100 V	0.00033 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	100 mV to 1 V	0.00033 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	100 V to 1000 V	0.0007 %



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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	1 Gohm to 10 Gohm	0.116 % to 0.133 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	1 Mohm to 10 Mohm	0.001 % to 0.0031 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using master LCR Meter Direct Method	1 mohm to 100 mohm	0.061 % to 0.207 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	1 ohm to 100 ohm	0.036 % to 0.0010 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	10 kohm to 100 kohm	0.0007 % to 0.0008 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	10 Mohm to 100 Mohm	0.0031 % to 0.008 %



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67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	100 kohm to 1 Mohm	0.0008 % to 0.001 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	100 Mohm to 1 Gohm	0.008 % to 0.116 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Micro Ohmmeter by Direct method	100 mohm to 150 mohm	0.206 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	100 ohm to 10 kohm	0.0010 % to 0.0007 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Micro Ohm meter by Direct method	150 mohm to 1 ohm	0.206 % to 0.0015 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.028 % to 0.063 %



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73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	1 mA to 100 mA	0.016 % to 0.011 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 µA to 100 µA	0.25 % to 0.023 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 A to 20 A	0.063 % to 0.12 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Current source by Direct method	10 A to 200 A	0.5 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	100 µA to 1 mA	0.023 % to 0.016 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	100 mA to 1 A	0.011 % to 0.028 %



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79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator & Current Coil by Direct method	20 A to 1000 A	0.062 % to 0.32 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1V to 1000V, 1mA to 20A	Using Multiproduct Calibrator by Direct method	1 kW to 19.9 kW	0.45 % to 0.65 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1V to 1000V, 1mA to 20A	Using Multiproduct Calibrator by Direct method	10 W to 1 kW	0.08 % to 0.45 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 mV to 10 mV	0.25 % to 0.023 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 V to 10 V	0.0017 % to 0.0016 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 mV to 100 mV	0.023 % to 0.0039 %



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85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 V to 1000 V	0.0016 % to 0.0025 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	100 mV to 1 V	0.0039 % to 0.0015 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using high stability Decade Megohm Box by Direct method	0.1 Mohm to 1 Mohm	5.89 % to 4.91 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	1 kohm to 10 kohm	0.0038 % to 0.0035 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Resistor Box by Direct method	1 mohm	0.61 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	1 Mohm to 10 Mohm	0.0042 % to 0.014 %



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91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using high stability Decade Mega Ohm Box by Direct method	1 Mohm to 100 Gohm	1.2 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	1 ohm to 10 ohm	0.12 % to 0.015 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	10 kohm to 100 kohm	0.0035 % to 0.0037 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Resistor Box by Direct method	10 mohm	0.61 %
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	10 Mohm to 300 Mohm	0.014 % to 0.38 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	10 ohm to 100 ohm	0.015 % to 0.004 %



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97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using high stability Decade Mega Ohm Box by Direct method	100 Gohm to 1 Tohm	1.2 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	100 kohm to 1 Mohm	0.0037 % to 0.0041 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Direct Method using fixed resistor box	100 mohm	0.609 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	100 ohm to 1 kohm	0.004 % to 0.0038 %
101	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Resistor Box by Direct method	150 mohm	0.61 %
102	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	300 Mohm to 1 Gohm	0.38 % to 1.78 %



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103	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Direct Method using fixed resistor box	5 mohm	0.61 %
104	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope	Using Multiproduct Calibrator by Direct method	1 mV to 130 V	0.29 % to 0.096 %
105	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Amplitude-Sq wave Oscilloscope @1 kHz	Using Multiproduct Calibrator by Direct method	1 mV to 55 Vp-p	0.6 % to 0.3 %
106	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Bandwidth - Oscilloscope	Using Multiproduct Calibrator by Direct method	50 kHz to 1 GHz	0.23 % to 0.87 %
107	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Timer Marker / Oscilloscope	Using Multiproduct Calibrator by Direct method	1 ns to 5 s	0.0003 %
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B type Thermocouple	Using Multiproduct Calibrator & 6½ Digital Multimeter by Direct method	600 °C to 1750 °C	0.4 °C



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109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E type thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 900 °C	0.27 °C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J type Thermocouple	Using Multiproduct Calibrator & 6½ Digital Multimeter by Direct method	-200 °C to 1200 °C	0.31 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 1350 °C	0.48 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N type Thermocouple	Using Multiproduct Calibrator by Direct method	200 °C to 1300 °C	0.35 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R type Thermocouple	Using Multiproduct Calibrator by Direct method	10 °C to 1750 °C	0.48 °C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD type	Using 6½ Digit Multimeter by Direct method	-200 °C to 800 °C	0.05 °C



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115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S type Thermocouple	Using Multiproduct Calibrator by Direct method	10 °C to 1450 °C	0.56 °C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 400 °C	0.17 °C
117	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	600 °C to 1750 °C	0.11 °C
118	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 900 °C	0.49 °C
119	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J type Temperature Indicator / Recorder / Controller type	Using Multiproduct Calibrator by Direct method	-200 °C to 1200 °C	0.25 °C
120	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 1350 °C	0.48 °C



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121	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 1300 °C	0.30 °C
122	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	10 °C to 1750 °C	0.60 °C
123	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 800 °C	0.16 °C
124	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	10 °C to 1750 °C	0.80 °C
125	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 400 °C	0.16 °C
126	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter by Direct method	10 Hz to 1 GHz	0.0011 % to 0.0024 %



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127	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Calibrator by Comparison method	1 s to 9000 s	0.06 % to 0.05 %
128	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct method	1 Hz to 1 GHz	0.004 % to 0.006 %
129	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @160 Hz	Using Digital Vibration meter by Comparison method	50.1 m/s ²	3 %
130	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @160Hz	Using Digital Vibration meter by Comparison method	10.0 m/s ²	2.83 %
131	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @160Hz	Using Digital Vibration meter by Comparison method	20.1 m/s ²	2.48 %
132	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @160Hz	Using Digital Vibration meter by Comparison method	40.2 m/s ²	2.44 %
133	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @40Hz	Using Digital Vibration meter by Comparison method	12.3 m/s ²	2.56 %
134	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @40Hz	Using Digital Vibration meter by Comparison method	20.5 m/s ²	2.49 %



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135	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @40Hz	Using Digital Vibration meter by Comparison method	28.8 m/s ²	2.49 %
136	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @40Hz	Using Digital Vibration meter by Comparison method	4.0 m/s ²	3.43 %
137	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @80Hz	Using Digital Vibration meter by Comparison method	11.5 m/s ²	2.63 %
138	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @80Hz	Using Digital Vibration meter by Comparison method	16.7 m/s ²	2.53 %
139	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @80Hz	Using Digital Vibration meter by Comparison method	2.8 m/s ²	5.04 %
140	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @80Hz	Using Digital Vibration meter by Comparison method	6.6 m/s ²	2.96 %
141	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @160Hz	Using Digital Vibration meter by Comparison method	0.009 mm	11.87 %
142	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @160Hz	Using Digital Vibration meter by Comparison method	0.030 mm	3.78 %
143	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @160Hz	Using Digital Vibration meter by Comparison method	0.050 mm	3.24 %



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144	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @160Hz	Using Digital Vibration meter by Comparison method	0.126 mm	2.56 %
145	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @40Hz	Using Digital Vibration meter by Comparison method	0.065 mm	2.89 %
146	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @40Hz	Using Digital Vibration meter by Comparison method	0.196 mm	2.53 %
147	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @40Hz	Using Digital Vibration meter by Comparison method	0.263 mm	2.53 %
148	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @40Hz	Using Digital Vibration Meter by Comparison Method	0.459 mm	2.44 %
149	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @80 Hz	Using Digital Vibration meter by Comparison method	0.011 mm	10.27 %
150	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @80 Hz	Using Digital Vibration meter by Comparison method	0.026 mm	4.79 %
151	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @80 Hz	Using Digital Vibration meter by Comparison method	0.046 mm	3.08 %
152	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @80 Hz	Using Digital Vibration meter by Comparison method	0.067 mm	2.8 %



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153	MECHANICAL-ACCELERATION AND SPEED	Stroboscope, Tachometer (Non Contact Type) Resolution: 0.1 rpm / 1 rpm	Using Tachometer Calibrator & Tachometer Calibration Source by Comparison method	60 rpm to 25000 rpm	2.7 %
154	MECHANICAL-ACCELERATION AND SPEED	Stroboscope, tachometer (Non Contact Type)	Using Tachometer Calibrator & Tachometer Calibration Source by Comparison method	25000 rpm to 45000 rpm	0.036 %
155	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type) Resolution: 0.1 rpm / 1 rpm	Using Tachometer Calibrator & Tachometer Calibration Source by Comparison method	100 rpm to 7000 rpm	0.8 %
156	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) @160 Hz	Using Digital Vibration meter by Comparison method	9.9 mm/s	2.893 %
157	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) @80Hz	Using Digital Vibration meter by Comparison method	33.3 mm/s	2.573 %
158	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) 82.0 mm/s @40Hz	Using Digital Vibration meter by Comparison method	82.0 mm/s	2.42 %
159	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) mm/s @40Hz	Using Digital Vibration meter by Comparison method	16.1 mm/s	2.52 %



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160	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) mm/s @40Hz	Using Digital Vibration meter by Comparison method	48.7 mm/s	2.43 %
161	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak)mm/s @40Hz	Using Digital Vibration meter by Comparison method	65.1 mm/s	2.42 %
162	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @160 Hz	Using Digital Vibration meter by Comparison method	39.9 mm/s	2.893 %
163	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @160 Hz	Using Digital Vibration meter by Comparison method	69.7 mm/s	2.41 %
164	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @160 Hz	Using Digital Vibration meter by Comparison method	99.3 mm/s	2.41 %
165	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @80Hz	Using Digital Vibration meter by Comparison method	13.2 mm/s	2.67 %
166	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @80Hz	Using Digital Vibration meter by Comparison method	22.8 mm/s	2.59 %
167	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @80Hz	Using Digital Vibration meter by Comparison method	5.7 mm/s	3.074 %
168	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator by Comparison method	114 dB @1kHz	0.3 dB



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169	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound level Calibrator by Comparison Method	94 dB @1kHz	0.3 dB
170	MECHANICAL-DENSITY AND VISCOSITY	Density - Hydrometer with L.C: 0.0005 g/ ml	Using Hydrometer and liquid of appropriate density by Comparison method	0.600 g/ml to 1.8 g/ml	0.0009 g/ml
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale Resolution: 0.1 mm	Using Scale & Tape Calibration Machine by Comparison method	1 mm to 30 mm	2xSQRT(L) µm where L in mm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	'V' - Block (Parallelism)	Using Mandrel & Lever Dial Gauge & Linear Height Master as per standard based on IS 2949	Up to 200 mm	3.0 µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	'V' - Block (Squareness)	Using Mandrel & Lever Dial Gauge & Linear Height Master by Comparison method	Up to 200 mm	3.0 µm



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174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	'V' - Block (Symmetricity)	Using Mandrel & Lever Dial Gauge & Linear Height Master by Comparison method	Up to 200 mm	3.0 µm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	2D Height Gauge (Linearity), Resolution : 0.0001 mm	Using Gauge Block Set by Comparison Method	0 to 1000 mm	4.8 µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	2D Height Gauge (Squareness), Resolution : 0.0001 mm	Using Granite Square & Surface Table	0 to 1000 mm	13 µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	3 Point Micrometer, Resolution: 0.001 mm	Using Ring Gauges by Comparison method	0 to 100 mm	3.6 µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Flatness)	Using Lever Dial Gauge, 2D Height Gauge, Granite Square, Surface Plate by comparison method	450*350 mm	5.9 µm



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179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Parallelism)	Using Lever Dial Gauge, 2D Height Gauge, Granite Square, Granite Surface Plate by Comparison method	450*350 mm	6.14 μ m
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Squareness)	Using Lever Dial Gauge, 2D Height Gauge, Granite Square, Surface Plate by comparison method	450 *350 mm	10.1 μ m
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co-axiality)	Using Taper Mandrel , Lever dial gauge by Comparison method	300 mm to 500 mm	2.4 μ m
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (parallelism)	Using Taper Mandrel by Comparison method	300 mm to 500 mm	3.0 μ m
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor, Resolution: 1 minute	Using Profile Projector by Comparison method	0°-90°-0°	5.66 minute of arc



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184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (0.001mm)	Using Electronic Dial gauge calibration Tester by Comparison method	2 mm Transmission only	2.4 µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bridge Cam Gauge	Using Profile Projector by Direct method	0° to 60°	50 minute of arc
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bridge Cam Gauge	Using Profile Projector by Direct method	Up to 100 mm	6.0 µm
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calibration Foils	Using Universal Length Machine by Comparison method	Up to 2000 µm	1.1 µm
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Analog / Dial / Digital) Resolution: 0.01 mm	Using Caliper Checker & Gauge Block by Comparison method	0 to 1000 mm	8.6 µm



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189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (Resolution: 1 µm)	Using Standard Thickness Foils by Comparison method	0 to 2000 µm	3.4 µm
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set, Resolution: 1°	Using Profile Projector as per standard by comparison method	0° to 180°	13.2 minute of arc
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Dial Stand (Flatness)	Using Lever dial & Linear height master by Comparison method	Up to 300 mm	7.0 µm
192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cone Master (Angle)	Using Profile Projector by Direct method	55° & 60°	50 minute of arc
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Angle)	Using Profile Projector by Direct method	45°	53.3 minute of arc



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194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Pitch)	Using Profile Projector by Direct method	0.3 mm to 5 mm	3.69 μ m
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Moulds, Protector Mould (Length, Width & Depth Measurement)	Using Digital Caliper / Profile projector as per IS 10086 by Comparison method	Up to 300 mm x 300 mm	12 μ m
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical setting master (Diameter)	Using Length Measuring Machine by Comparison method	3 mm to 100 mm	1.7 μ m
197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical setting master (Runout)	Using Length Measuring Machine by Comparison method	3 mm to 100 mm	5.6 μ m
198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer, Resolution: 0.001 mm	Using Gauge Block Set by Comparison method	0 to 300 mm	4.0 μ m



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199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier (Analog / Dial / Digital), Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 600 mm	15.2 µm
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge- Plunger type (Analog / Digital), Resolution: 0.001 mm	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 10 mm	2.6 µm
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge- Plunger type (Analog /Digital), Resolution: 0.001 mm	Using Universal Length Measuring Machine by Comparison method	0 to 50 mm	1.0 µm
202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge: Plunger type (Analog / Digital), Resolution: 0.001 mm	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 1 mm	2.3 µm
203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge: Plunger type (Analog / Digital), Resolution: 0.01 mm	Using Universal Length Measuring Machine by Comparison method	0 to 100 mm	6.0 µm



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204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial thickness Gauge (Length), Resolution : 0.001 mm	Using Slip Gauge by Comparison method	0 to 10 mm	1 um
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	Up to 10 mm	7.0 µm
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Plunger Dial Gauge, Resolution : 0.0001 mm	Using ULMM by Comparison method	0 to 25 mm	0.96 um
207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation gauge	Using Digital Caliper by Comparison Method	6.3 mm to 81 mm	24 µm
208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel (Equality of Pairs)	Using Lever Dial Gauge, 2D Height Gauge, Granite Square, Surface Plate by comparison method	Up to 200 mm	10.2 um



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209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel (Parallelism)	Using Lever Dial Gauge, 2D Height Gauge, Granite Square, Surface Plate by comparison method	Up to 200 mm	10.2 um
210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel (Thickness)	Using Lever Dial Gauge, 2D Height Gauge, Granite Square, Granite Surface Plate by Comparison method	Up to 200 mm	8 um
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel (Width)	Using Lever Dial Gauge, 2D Height Gauge, Granite Square, Surface Plate by comparison method	Up to 200 mm	10.1 um
212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square (Parallelism)	Using Lever dial gauge, 2D height gauge, Granite Square, Surface plate by comparison method	350 * 250 mm	10.2 um
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square (Squareness)	Using Lever Dial Gauge, 2D Height Gauge, Granite Square, Granite Surface Plate by Comparison method	350 * 250 mm	9.88 um



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214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square (Straightness)	Using lever dial gauge, 2D height gauge, granite square, surface plate by comparison method	350 * 250 mm	10.3 um
215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch), Resolution: 0.001 mm	Using Gauge Block Set by Comparison method	0 to 50 mm	6.5 µm
216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch), Resolution: 0.001 mm	Using Gauge Block Set by Comparison method	100 mm to 300 mm	6.5 µm
217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch), Resolution: 0.001 mm	Using Gauge Block Set by Comparison method	50 mm to 100 mm	6.5 µm
218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital) Resolution: 0.001 mm	Using Gauge Block Set by Comparison method	300 mm to 600 mm	6.5 µm



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219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital), Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	600 mm to 1000 mm	7 µm
220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer, Resolution : 0.0001 mm	Using Gauge Block Set by Comparison method	0 to 25 mm	0.26 µm
221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer, Resolution : 0.001 mm	Using Gauge Block Set by Comparison method	0 to 300 mm	2 µm
222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer, Resolution : 0.001 mm	Using Gauge Block Set by Comparison method	300 * 600 mm	2 µm
223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler gauge	Using Universal Length Machine by Comparison method	Up to 1 mm	1.1 µm



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224	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Profile Projector by Comparison method	4.89 mm to 33.9 mm	7.0 µm
225	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge	Using Slip Gauge Set & Digital Comparator by Comparison method	Up to 100 mm	3 µm
226	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Granite Square (Squareness)	Using Lever Dial Gauge and Linear height Master by Comparison method	0 to 600 mm	13.5 µm
227	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial / Leg Caliper (OD & ID) Gauge, Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	Up to 150 mm	7.0 µm
228	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Digital Comparator by Comparison method	0 to 100 µm	5.0 µm



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229	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial / Digital & Analog) Resolution: 0.01 mm	Using Caliper checker by Comparison method	0 to 600 mm	10.0 µm
230	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial / Digital & Analog) Resolution: 0.01 mm	Using Caliper checker by Comparison method	0 to 1000 mm	10.0 µm
231	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Impact Test Specimen (Linear)	Using Profile Projector by Direct method as per ISO 148, ASTM E 23	0 to 75 mm	6.0 µm
232	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Impact Test Specimen (Radius)	Using Profile Projector by Direct method as per ASTM E23 & ISO 148	0 to 1 mm	6.0 µm
233	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Impact Test Specimen V & U Notch (Angular)	Using Profile Projector by Direct method as per ISO 148, ASTM E 23	0° to 45°	50 minute of arc



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234	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer / Digital Protractor L.C: 0.05°	Using Sine Bar & Angle Gauge blocks by Comparison method	10° to 90°	5 minute of arc
235	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Gauge- (Plain Work Piece) (Angle)	Using Profile Projector by Comparison method	0° to 180°	6 minute of arc
236	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Gauges - Plain Work Piece (Length)	Using Profile Projector by Comparison method	45 µm to 200 mm	6.0 µm
237	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Gauges- (Plain Work Piece) (Diameter)	Using Profile Projector / Universal Length Measuring Machine by Comparison method	0.1 mm to 20 mm	6.0 µm
238	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer / Stick Micrometer (Including Extension Rod) Resolution: 0.01 mm	Using Gauge Block Set & Gauge Block Accessories by Comparison method	0 to 300 mm	8.0 µm



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239	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Laser Distance meter L.C: 0.10 mm	Using Slip Gauge Block by Comparison method	0 to 1000 mm	350 μ m
240	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.001 mm)	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 0.14 mm	2.4 μ m
241	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.002 mm)	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 0.2 mm	3.1 μ m
242	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.01 mm)	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 1 mm	5.3 μ m
243	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins (Grade 1 & 2)	Using Universal Length Machine by Comparison method	0.1 mm to 20 mm	2.0 μ m



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244	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape / Pi Tape, Resolution: 0.5 mm	Using Scale & Tape Calibration Machine by Comparison method	0 to 50000 mm	42xSQRT(L) µm where L in m
245	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head, Resolution: 0.001 mm	Using Lever Dial Gauge & Linear Height Master by Comparison method	Up to 25 mm	1.3 µm
246	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer (L.C: 0.1 mm)	Using Slip Gauge Set by Comparison method	0 to 40 mm	0.07 mm
247	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (Resolution: 0.01 mm)	Using Gauge Block Set by Comparison method	0 to 100 mm	6.0 µm
248	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer, Resolution : 0.01 mm	Using Gauge Block Set by Comparison method	Up to 200 mm	7.0 µm



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249	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges	Using Universal Length Measuring Machine by Comparison method	1 mm to 300 mm	2.8 µm
250	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauges	Using Universal Length Measuring Machine by Direct method	4 mm to 300 mm	2.8 µm
251	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using ULMM by Comparison method	3 mm to 10 mm	1 µm
252	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Portable Roughness tester Ra/ Rz	Using Surface Roughness Master Block by Comparison method	Up to 100 µm	6.41 µm
253	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauges	Using Profile Projector by Comparison method	0.5 mm to 25.0 mm	6.0 µm



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254	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Riser Block	Using Gauge block by Comparison method	Up to 200 mm	5 µm
255	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rods & Extensions Rods	Using Gauge Block Set by Comparison method	Up to 975 mm	10.0 µm
256	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine bar / sine centre / sine table (Angle measurement)	Using Gauge Blocks, Angle Gauge blocks and Lever Dial gauge by Comparison method	0° to 45°	7.0 s of arc
257	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine bar / sine centre / sine table (Centre Distance between Rollers)	Using Gauge Blocks, Angle Gauge blocks and Lever Dial gauge by Comparison method	0 to 200 mm	7.0 µm
258	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine bar / sine centre / sine table (Parallelism)	Using Gauge Blocks, Angle Gauge blocks and Lever Dial gauge by Comparison method	0 to 200 mm	7.0 µm



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259	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone (Diameter)	Using Digital Caliper by direct method	0 to 150 mm	13 μ m
260	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone (Height)	Using 2D height gauge by comparison method	0 to 300 mm	6.18 μ m
261	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauges / Dial Snap Gauges / Width Gauges	Using Universal Length Machine by Comparison method	10 mm to 300 mm	2.5 μ m
262	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sphere (Diameter measurement)	Using Length Measuring Machine by Direct method	0 to 50 mm	0.72 μ m
263	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level / Frame Level, Resolution: 10 μ m/m	Using Electronic Level as per standard based by comparison method	0.12 mm/m	15.0 μ m/m



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264	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Stage Micrometer L.C: 0.01 mm	Using Profile Projector by Direct method	Up to 7 mm	6 µm
265	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel scale Resolution: 0.1 mm	Using Scale & Tape Calibration Machine by Comparison method	0 to 1000 mm	2xSQRT(L) µm where L in mm
266	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism of working face)	Using Linear Height Master and lever Dial Gauge by Comparison method	0 to 1000 mm	13.5µm
267	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness of working face)	Using Linear Height Master and lever Dial Gauge by Comparison method	0 to 1000 mm	13.5 µm
268	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite / Cast Iron Surface Plate)	Using Electronic Level as per standard based by comparison method	6000 mm x 2000 mm	2.0xSQRT(L+W/150) µm where L and W in mm



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269	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Specimen Ra, Rz	Using Surface Roughness Tester (Stand Alone unit) & Master Specimen by Comparison method	Up to 12.5 μ m	3.4 μ m
270	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape Scale Calibrator Resolution: 0.001 mm	Using Slip Gauge Set and Long Slip Gauges by Comparison method	0 to 1000 mm	4.5 μ m
271	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Diameter)	Using Universal Length Measuring Machine by Comparison method	3 mm to 100 mm	3.0 μ m
272	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Diameter)	Using Universal Length Measuring Machine by Comparison method	3 mm to 100 mm	4.8 μ m
273	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates (Angular)	Using Profile Projector by Direct method	Up to 180°	50 minute of arc



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274	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates (Linear)	Using Profile Projector by Direct method	Up to 100 mm	6 µm
275	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel - Diameter	Using ULM by Comparison method	0 to 300 mm	2.4µm
276	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel - Straightness	Using Lever type dial gauge, Bench centre by Comparison method	0 to 300 mm	2.1µm
277	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel -Total Runout	Using Lever type dial gauge, Bench centre by Comparison method	0 to 300 mm	2.3µm
278	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Comparison method	0.16 mm to 1 mm	5.0 µm



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279	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Direct method	1 mm to 75 mm	5.0 µm
280	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Vernier Caliper by Direct method	75 mm to 100 mm	16.0 µm
281	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Length Measuring Machine by Comparison method	0.17 mm to 6.35 mm	0.93 µm
282	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge, Set Pitch Flank Angle	Using Profile Projector by Comparison method	0.3 mm to 6.0 mm	3.0 µm
283	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge, Set Pitch Flank Angle	Using Profile Projector by Comparison method	55° & 60°	5.1 minute of arc



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284	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread plug Gauge (Effective Diameter)	Using Universal Length Measuring Machine by Comparison method	1 mm to 300 mm	3.2 µm
285	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	Using Universal Length Measuring Machine by Comparison method	3 mm to 300 mm	3.0 µm
286	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C 0.01mm	Using Gauge Block Set by Comparison method	Up to 200 mm	7.3 µm
287	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge	Using Profile Projector by Comparison method	0 to 25 mm	10.1 µm
288	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld gauge	Using Profile Projector by Comparison method	0° to 90°	3 minute of arc



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289	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge (Angle)	Using Profile Projector by Comparison method	0° to 90°	3 minute of arc
290	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet / Dry Film Applicator	Using Profile Projector by Comparison method	0 to 600 mm	8.68 µm
291	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness Gauge	Using Profile Projector by Direct method	0.025 mm to 5 mm	9.4 µm
292	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Comparison method	0.025 mm to 12.7 mm	8.8 µm
293	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Gauge Block Set & Height Measuring System by Comparison method	0 to 1000 mm	8.0 µm



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294	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester , Resolution: 0.1 µm	Using Universal Length Measuring Machine and Slip gauge by Comparison method	Up to 25 mm	0.90 µm
295	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe / LVDT Probe, Resolution : 0.0001 mm	Using Slip Gauge by Comparison method	0 to 100 mm	1.4 um
296	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe/ LVDT Probe L.C: 0.0001 mm	Using Grade '0' Gauge Blocks by Comparison method	Up to 25 mm	1.4 µm
297	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set	Using Gauge Block Grade 'k' by Comparison method	0.5 mm to 25 mm	0.12 µm
298	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set	Using Gauge Block Grade 'k' by Comparison method	25 mm to 50 mm	0.12 µm
299	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set	Using Gauge Block Grade 'k' by Comparison method	50 mm to 75 mm	0.14 µm
300	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set	Using Gauge Block Grade 'k' by Comparison method	75 mm to 100 mm	0.14 µm



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301	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Granite Square (Flatness)	Using Lever Dial Gauge and Linear height Master by Comparison method:	0 to 600 mm	13.5µm
302	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bars	Using Length Measuring Machine and Slip Gauge Block by Comparison method	100 mm to 300 mm	2.9 µm
303	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Microscope / Tool Microscope	Using Slip Gauge by Comparison method	Magnification: 10X to 100	0.6 %
304	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring System / microscope Resolution: 0.001 mm	Using Slip Gauge by Comparison method	Linear : 0 to 200 mm	1.8 µm
305	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring System, Resolution: 1s	Using Angle Gauge Block by Comparison method	Angular: Up to 360°	5 minute of arc
306	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C 0.1µm	Using Gauge Block Set by Comparison method	Up to 100 mm	0.5 µm
307	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge	Using Stain Less Weights as per VDI / VDE 2624 Part 2.1:2008	3 N to 50 N	0.5 N



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308	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge	Using Stain Less Weights as per VDI / VDE 2624 Part 2.1: 2008	50 N to 1000 N	1.4 N
309	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Vacuum Gauges / Transmitters / Transducers, Compound Gauges	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to -0.75 bar	0.00080 bar
310	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Vacuum Gauges / Transmitters / Transducers, Compound Gauges	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 2 bar	0.00061 bar
311	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure, Digital / Analog Pressure Gauges, Compound Gauge, Pressure Indicator With Transducer / Transmitter, Pressure Switch	Using Digital Pressure Calibrator & 6½ Multimeter by Comparison method	0 to 1000 bar	0.055 bar
312	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Digital / Dial Gauges / Pressure Indicator With Transmitter / Transducer, Compound Gauge	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 70 bar	0.0028 bar



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313	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Digital / Dial Gauges / Pressure Indicator With Transmitter / Transducer, Compound Gauge	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	2 bar to 20 bar	0.0010 bar
314	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Absolute) (Absolute Gauges, Barometers, Manometers) Pneumatic Pressure, Magnehelic gauges, Differential Pressure Transmitters, Low Pressure Indicators / Transducers, Barometer	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 2000 mbar	0.47 bar
315	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Absolute) (Absolute Gauges, Barometers, Manometers) Pneumatic Pressure, Magnehelic gauges, Differential Pressure Transmitters, Low Pressure Indicators / Transducers, Barometer	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 500 mbar	0.020 bar



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316	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Absolute) (Absolute Gauges, Barometers, manometers)Pneumatic Pressure, Magnehelic gauges, Differential Pressure Transmitters, Low Pressure Indicators / Transducers, Barometer	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 70 mbar	0.037 mbar
317	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type- I) Class B, C, D, E, (Type- II) Class A, B, C, D	Using Torque wrench Calibration System as per IS 16906-2018	0 to 20 Nm	0.36 %
318	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type- I) Class B, C, D, E, (Type- II) Class A, B, C, D	Using Torque wrench Calibration System as per IS 16906-2018	20 Nm to 200 Nm	1.5 %
319	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type- I) Class B, C, D, E, (Type- II) Class A, B, C, D	Using Torque wrench Calibration System as per IS 16906-2018	200 Nm to 1000 Nm	1.2 %
320	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, Burette	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 10 ml	0.03 ml



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321	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, Burette	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 100 ml	0.2 ml
322	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, Burette	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 25 ml	0.06 ml
323	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, Burette	Using Weights of Accuracy Class E2, Balance (Readability : 0.001mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 5 ml	0.02 ml



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324	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, Burette	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 50 ml	0.1 ml
325	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 10 ml	0.03 ml
326	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg & 0.001g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 100 ml	0.17 ml



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327	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 1000 ml	1.14 ml
328	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01g & 0.1g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 10000 ml	75.0 ml
329	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 20 ml	0.06 ml



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330	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg & 0.001g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 200 ml	0.32 ml
331	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 2000 ml	12.0 ml
332	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 5 ml	0.1 ml



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333	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 50 ml	0.14 ml
334	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.001g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 500 ml	0.60 ml
335	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 5000 ml	25.0 ml



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336	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E1, Micro Balance (Readability : 0.001 mg) & Distilled water by Gravimetric method as per ISO 8655(part 6)	1 µl	0.01 µl
337	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E2, Micro Balance (Readability: 0.01 mg / 0.1 mg) & Distilled water by Gravimetric method as per ISO 8655 (part 6)	100 µl	0.26 µl
338	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E2, Micro Balance (Readability: 0.01 mg / 0.1 mg) & Distilled water by Gravimetric method as per ISO 8655 (part 6)	20 µl	0.04 µl



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339	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E1, Micro Balance (Readability : 0.001 mg) & Distilled water by Gravimetric method as per ISO 8655(part 6)	5 µl	0.02 µl
340	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E2, Micro Balance (Readability: 0.01 mg / 0.1 mg) & Distilled water by Gravimetric method as per ISO 8655(part 6)	500 µl	2.9 µl
341	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E1, Micro Balance (Readability: 0.001 mg) & Distilled water by Gravimetric method as per ISO 8655(part 6)	Up to 10 µl	0.015 µl



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342	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E2, Micro Balance (Readability: 0.01 mg / 0.1 mg) & Distilled water by Gravimetric method as per ISO 8655 (part 6)	Up to 1000 µl	5.8 µl
343	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E2, Micro Balance (Readability: 0.01 mg / 0.1 mg) & Distilled water by Gravimetric method as per ISO 8655 (part 6)	Up to 50 µl	0.16 µl
344	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E2, Micro Balance (Readability: 0.01 mg / 0.1 mg) & Distilled water by Gravimetric method as per ISO 8655 (part 6)	Up to 5000 µl	30.13 µl



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345	MECHANICAL-VOLUME	Micropipette / Syringe(Industrial Purpose Only)	Using Weights of Accuracy Class E1, Micro Balance (Readability : 0.001 mg) & Distilled water by Gravimetric method as per ISO 8655(part 6)	Up to 2 µl	0.01 µl
346	MECHANICAL-VOLUME	Micropipette /Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E2, Micro Balance (Readability: 0.01 mg / 0.1 mg) & Distilled water by Gravimetric method as per ISO 8655 (part 6)	Up to 200 µl	1.2 µl
347	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 5 ml	0.02 ml



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348	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	50 ml	0.1 ml
349	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 10 ml	0.03 ml
350	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric methods on ISO 4787:2010 & ISO 20461	Up to 100 ml	0.2 ml



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351	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.001g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 1000 ml	2.2 ml
352	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 20 ml	0.06 ml
353	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg & 0.001g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 200 ml	0.41 ml



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354	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg & 0.001g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 2000 ml	4.6 ml
355	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.001g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461:	Up to 500 ml	1.03 ml
356	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance	Using Stainless Steel Newtonian Weights by Comparison method	50 N to 1000 N	1.4 N
357	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 0.0001 mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 2.1 g	0.003 mg
358	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 0.1mg (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 200 g	0.10 mg



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359	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 1 g (Class - III)	Using Weights of Accuracy Class F1 as per OIML R76:2006	1 g to 100 kg	1 g
360	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 1 mg (Class-II)	Using Weights of Accuracy Class E1 & E2 as per OIML R-76: 2006	1 mg to 1 kg	0.002 g
361	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 10 g (Class-IV)	Using Weights of Accuracy Class F1 as per OIML R76:2006	10 g to 100 kg	10 g
362	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 g, (Class-IV)	Using Weights of Accuracy Class F1 as per OIML R76:2007	2 kg to 1000 kg	100 g
363	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 mg (Class-III)	Using Weights of Accuracy Class E1, F1 & F2 as per OIML R-76: 2006	0.1 g to 20 kg	0.10 g
364	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 mg, (Class-III)	Using Weights of Accuracy Class E1, F1 as per OIML R-76: 2006	0.1 g to 35 kg	0.100 g
365	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 mg, (Class-III)	Using Weights of Accuracy Class E1, F1 & F2 as per OIML R-76: 2006	0.1 mg to 10 kg	0.100 g



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366	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 50 g, (Class-IV)	Using Weights of Accuracy Class F1 as per OIML R76:2006	2 kg to 500 kg	50 g
367	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.001mg (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 5.1 g	0.005 mg
368	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.01 mg (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 50 g	0.011 mg
369	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 100 g (Class-IV)	Using Weights of Accuracy Class F1 & M1 Class as per OIML R76:2007	2 kg to 2000 kg	3.0 kg
370	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance, Readability : 1mg, (Class-II)	Using Weights of Accuracy Class E1 & E2 as per OIML R 76:2006	0.1 mg to 5 kg	0.011 g
371	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance, Readability: 0.01 mg, (Class-I)	Using Weights of Accuracy Class E1 & E2 as per OIML R 76:2006	0.1 mg to 2 kg	0.011 mg
372	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	1 g	0.004 mg



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373	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	1 mg	0.002 mg
374	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Substitution method	10 g	0.012 mg
375	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	10 mg	0.002 mg
376	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	100 mg	0.003 mg
377	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	2 g	0.004 mg



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378	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	2 mg	0.002 mg
379	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Substitution method	20 g	0.016 mg
380	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	20 mg	0.002 mg
381	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Substitution method	200 g	0.099 mg
382	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	200 mg	0.003 mg



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383	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	5 g	0.011 mg
384	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	5 mg	0.002 mg
385	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Substitution method	50 g	0.023 mg
386	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	50 mg	0.002 mg
387	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	500 mg	0.003 mg



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388	MECHANICAL-WEIGHTS	Weights (F1 Class & Coarser)	Using Weights of Accuracy Class E2 and Precision Balances as per OIML R 111-1:2004 by Substitution method	1 kg	0.001 g
389	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	Using Weights of Accuracy Class F1 and Precision Balances as per OIML R 111-1:2004 by Substitution method	2 kg	0.009 g
390	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	Using Weights of Accuracy Class F1 and Precision Balances as per OIML R 111-1:2004 by Substitution method	20 kg	0.090 g
391	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	Using Weights of Accuracy Class F1 and Precision Balances as per OIML R 111-1:2004 by Substitution method	5 kg	0.010 g



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392	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	Using Weights of Accuracy Class E2 and Precision Balances as per OIML R 111-1:2004 by Substitution method	500 g	0.001 g
393	MECHANICAL-WEIGHTS	Weights (M1 Class & Coarser)	Using Weights of Accuracy Class F1 and Precision Balances as per OIML R 111-1:2004 by Substitution method	10 kg	0.083 g
394	MECHANICAL-WEIGHTS	Weights(F1 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Substitution method	100 g	0.089 mg
395	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity (Digital and Analog) Thermohygro Meters / Temperature and Humidity Meters / Temperature and Humidity Transmitters, Data Logger, Indicators, Controllers with Sensors	Using Standard SPRT Indicator and Temperature Generator by Comparison method	10 °C to 50 °C @ 50%rh	0.248 °C



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396	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity (Digital and Analog) Thermohygro Meters / Temperature and Humidity Meters / Temperature and Humidity Transmitters, Data Loggers Indicators, Controllers with Sensors	Using Standard Humidity Meter and Humidity Generator by Comparison method	10 %rh to 95 %rh @ 25°C	0.934 %rh
397	THERMAL-TEMPERATURE	Liquid in Glass Thermometers, Dial Thermometers, Temperature Gauges	Using Standard SPRT Indicator and Oil Bath by Comparison method	25 °C to 250 °C	0.402 °C
398	THERMAL-TEMPERATURE	Liquid in Glass Thermometers, Dial Thermometers, Temperature Gauges	Using Standard SPRT with Indicator and Ethanol Bath by Comparison method	-80 °C to 25 °C	0.62 °C
399	THERMAL-TEMPERATURE	Non - Contact Thermometer, Pyrometer, Infrared Thermometer, Thermal Imager @ Emissivity 0.95	Using Standard Non-Contact IR Pyrometer and Black Body by Comparison method	50 °C to 600 °C	4.87 °C



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400	THERMAL-TEMPERATURE	Non - Contact Thermometer, Pyrometer, Infrared Thermometer, Thermal Imager @ Emissivity 0.95	Using Standard Non-Contact IR Pyrometer and Black Body by Comparison method	600 °C to 1200 °C	5.51 °C
401	THERMAL-TEMPERATURE	Non-Contact Thermometer, Pyrometer, Infrared Thermometer, Thermal Imager(non-Medical purpose only)	Using Standard Non-Contact IR Pyrometer @ Emissivity 0.95 and Black Body by Comparison method	-15 °C to 50 °C	2.72 °C
402	THERMAL-TEMPERATURE	RTD's, Thermocouples (With / Without Indicators), Data Loggers, Recorders, Transmitters, Digital/Analog Thermometers, Temperature Gauges and Transmitters with / Without Indicator	Using Standard SPRT with Indicator, Nitrogen Bath and Digital Multimeter by Comparison method	-196 °C	0.132 °C



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403	THERMAL-TEMPERATURE	RTD's, Thermocouples (With / Without Indicators), Data Loggers, Recorders, Transmitters, Digital/Analog Thermometers, Temperature Gauges and Transmitters with / Without Indicator	Using Standard SPRT with Indicator, Dry Bath and Digital Multimeter by Comparison method	-95 °C to 140 °C	0.041 °C
404	THERMAL-TEMPERATURE	RTD's, Thermocouples (With and Without Indicators), Data Loggers, Recorders, Transmitters, Digital/Analog Thermometers, Temperature Gauges and Transmitters with / Without Indicator	Using Standard SPRT with Indicator, Dry Bath and Digital Multimeter by Comparison method	140 °C to 600 °C	0.132 °C
405	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Low and High Temp. Dry Bath / Block, Furnace, Environmental Chamber, Oven (Single Position)	Using Standard SPRT with Indicator by Comparison method	140 °C to 600 °C	0.092 °C



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406	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Black Body Source	Using Standard Non-Contact IR Pyrometer @ Emissivity 0.95 by Comparison method	-15 °C to 50 °C	2.77 °C
407	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Black body Source	Using Standard Non-Contact IR Pyrometer (Emissivity 0.95) by Comparison method	50 °C to 600 °C	4.87 °C
408	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Black body Source	Using Standard Non-Contact IR Pyrometer (Emissivity 0.95) by Comparison method	600 °C to 1200 °C	5.53 °C
409	THERMAL-TEMPERATURE	Temperature Indicator with sensor of High Temp. Dry Bath / Block, Environmental Chamber, Oven (Single Position)	Using S Type Thermocouple with indicator by Comparison method	600 °C to 1200 °C	1.201 °C



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410	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid/Oil Bath, Low and High Temp. Dry Bath / Block, Furnace, Freezer, Environmental Chamber, Oven, Incubator, Autoclave, Centrifuge Chamber (Single Position)	Using Standard SPRT with Indicator by Comparison method	-95 °C to 140 °C	0.032 °C
411	THERMAL-TEMPERATURE	Thermocouples (With / Without Indicators), Data Loggers, Recorders, Transmitters, Digital / Analog Thermometers and Transmitters with / Without Indicator	Using Standard S Type Thermocouple with Indicator, Dry Bath and Digital multimeter by Comparison method	600 °C to 1200 °C	1.288 °C



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LOCATION 1-NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	1 A to 20 A	0.094 % to 0.104 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	100 µA to 100 mA	0.042 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	100 mA to 1 A	0.041 % to 0.094 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	1 A to 20 A	0.50 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	20 A to 700 A	0.5 % to 1.0 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	700 A to 1000 A	1.0 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct method	1 kV to 25 kV	6.33 % to 7.72 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50Hz @ 0.2 Lag 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	2.4 W to 960 W	0.5 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50Hz @ 0.5 Lag 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	6 W to 2.4 kW	0.6 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50Hz @ 0.8 Lead 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	9.6 W to 3.8 kW	0.25 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50Hz @ UPF 120 V to 240 V, 0.01 A to 20 A	Using Digital Power Meter by Direct method	1.2 W to 4.8 kW	0.26 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	1 mV to 100 mV	0.820 % to 0.014 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	1 V to 100 V	0.017 % to 0.073 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	100 mV to 1 V	0.014 % to 0.017 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (45 Hz to 1 kHz)	Using 8½ Digital Multimeter by Direct method	100 V to 1000 V	0.01 % to 0.019 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 kHz to 500 kHz)	Using 8½ Digital Multimeter by Direct method	1 V to 20 V	0.07 % to 0.230 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	1 µF to 100 µF	0.05 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	1 nF to 100 nF	0.056 % to 0.061 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	100 nF to 1 µF	0.05 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (1 kHz)	Using LCR Meter by Direct method	100 μ H to 100 mH	0.236 % to 0.065 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	inductance (1 kHz)	Using LCR Meter by Direct method	100 mH to 10 H	0.065 % to 0.073 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Multiproduct Calibrator by Direct method	220 pF to 1 μ F	5.85 % to 1.55 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Capacitance (1 kHz)	Using Decade Capacitance Box by Direct method	1 nF to 100 μ F	1.15 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Capacitance (100 Hz)	Using Multiproduct Calibrator by Direct method	1 μ F to 30 μ F	1.55 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.073 % to 0.14 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	3.3 mA to 1 A	0.15 % to 0.074 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	30 µA to 330 µA	0.56 % to 0.17 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	330 µA to 3.3 mA	0.17 % to 0.15 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	3.3 mA to 3 A	0.28 % to 0.24 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 1kHz)	Using Multiproduct Calibrator by Direct method	330 µA to 3.3 mA	0.81 % to 0.26 %



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31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 5 kHz)	Using Multiproduct Calibrator by Direct method	3 A to 20 A	0.23 % to 0.20 %
32	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Current source by Direct method	1 A to 1000 A	1.0 %
33	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Multiproduct Calibrator & Current Coil by Direct method	20 A to 1000 A	0.68 % to 0.37 %
34	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power ,UPF @50Hz, 0.01 A to 20 A, 120 V to 240 V	Using Multiproduct Calibrator by Direct method	1.2 W to 4.8 kW	0.17 %
35	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power , 0.2 Lag @50Hz, 0.01 A to 20 A, 120 V to 240 V	Using Multiproduct Calibrator by Direct method	2.4 W to 960 W	0.57 %
36	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power 0.5 Lag @ 50Hz, 0.01A to 20A, 120V to 240V	Using Multiproduct Calibrator by Direct method	6 W to 2.4 kW	0.46 %



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37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power, 0.8 Lead @50Hz 120 V to 240 V, 0.1 A to 20 A	Using Multiproduct Calibrator by Direct method	9.6 W to 3.8 kW	0.2 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	1 V to 30 V	0.080 % to 0.042 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	100 mV to 1 V	0.087 % to 0.080 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 100 mV	0.12 % to 0.086 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	30 V to 300 V	0.20 % to 0.026 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	300 V to 1000 V	0.026% % to 0.039 %



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43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	1 mV to 3 mV	0.75 % to 0.24 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	3 mV to 30 mV	0.24 % to 0.042 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (450kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 3 V	1.116 % to 0.121 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 kHz to 90 kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 30 V	0.452 % to 0.054 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (90 kHz to 100 kHz)	Using Multiproduct Calibrator by Direct method	30 V to 100 V	0.054 % to 0.024 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance (1 kHz)	Using Decade Inductance Box by Direct method	10 µH to 10 H	2.35 % to 1.16 %



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49	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @50 Hz, 0.01A to 20A, 120V to 240V	Using Multiproduct Calibrator by Direct method	0.2 Lag to UPF	0.0003 PF
50	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @50Hz , 0.01 A to 20 A, 120 V to 240 V	using master Standard Calibrator by Direct Method	0.2 Lead to UPF	0.0003 PF
51	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	1 A to 20 A	0.080 % to 0.052 %
52	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Shunt with Digital Multimeter by Direct method	1 A to 20 A	1.19 %
53	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	1 mA to 100 mA	0.002 % to 0.009 %
54	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	10 µA to 100 µA	0.001 %



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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 µA to 1 mA	0.001 % to 0.002 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 mA to 1 A	0.062 % to 0.080 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with Digital Multimeter by Direct method	20 A to 1000 A	1.2 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Probe with Digital Multimeter by Direct method	1 kV to 20 kV	1.7 % to 1.67 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	1 mV to 100 mV	0.47 % to 0.0003 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	1 V to 100 V	0.00033 %



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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	100 mV to 1 V	0.00033 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	100 V to 1000 V	0.0007 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Probe with Digital Multimeter by Direct method	20 kV to 40 kV	1.67 % to 1.65 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	1 Gohm to 10 Gohm	0.116 % to 0.133 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	1 Mohm to 10 Mohm	0.001 % to 0.0031 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using master LCR Meter Direct Method	1 mohm to 100 mohm	0.061 % to 0.207 %



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67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	1 ohm to 100 ohm	0.036 % to 0.0010 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	10 kohm to 100 kohm	0.0007 % to 0.0008 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	10 Mohm to 100 Mohm	0.0031 % to 0.008 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	100 kohm to 1 Mohm	0.0008 % to 0.001 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	100 Mohm to 1 Gohm	0.008 % to 0.116 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Micro Ohmmeter by Direct method	100 mohm to 150 mohm	0.206 %



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73	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	100 ohm to 10 kohm	0.0010 % to 0.0007 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Micro Ohm meter by Direct method	150 mohm to 1 ohm	0.206 % to 0.0015 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.028 % to 0.063 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	1 mA to 100 mA	0.016 % to 0.011 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 µA to 100 µA	0.25 % to 0.023 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 A to 20 A	0.063 % to 0.12 %



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79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Current source by Direct method	10 A to 200 A	0.5 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	100 µA to 1 mA	0.023 % to 0.016 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	100 mA to 1 A	0.011 % to 0.028 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator & Current Coil by Direct method	20 A to 1000 A	0.062 % to 0.32 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1V to 1000V, 1mA to 20A	Using Multiproduct Calibrator by Direct method	1 kW to 19.9 kW	0.45 % to 0.65 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1V to 1000V, 1mA to 20A	Using Multiproduct Calibrator by Direct method	10 W to 1 kW	0.08 % to 0.45 %



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85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 mV to 10 mV	0.25 % to 0.023 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 V to 10 V	0.0017 % to 0.0016 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 mV to 100 mV	0.023 % to 0.0039 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 V to 1000 V	0.0016 % to 0.0025 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	100 mV to 1 V	0.0039 % to 0.0015 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using high stability Decade Megohm Box by Direct method	0.1 Mohm to 1 Mohm	5.89 % to 4.91 %



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91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	1 kohm to 10 kohm	0.0038 % to 0.0035 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Resistor Box by Direct method	1 mohm	0.61 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	1 Mohm to 10 Mohm	0.0042 % to 0.014 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using high stability Decade Mega Ohm Box by Direct method	1 Mohm to 100 Gohm	1.2 %
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	1 ohm to 10 ohm	0.12 % to 0.015 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	10 kohm to 100 kohm	0.0035 % to 0.0037 %



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97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Resistor Box by Direct method	10 mohm	0.61 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	10 Mohm to 300 Mohm	0.014 % to 0.38 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	10 ohm to 100 ohm	0.015 % to 0.004 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using high stability Decade Mega Ohm Box by Direct method	100 Gohm to 1 Tohm	1.2 %
101	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	100 kohm to 1 Mohm	0.0037 % to 0.0041 %
102	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Direct Method using fixed resistor box	100 mohm	0.609 %



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103	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	100 ohm to 1 kohm	0.004 % to 0.0038 %
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Resistor Box by Direct method	150 mohm	0.61 %
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	300 Mohm to 1 Gohm	0.38 % to 1.78 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Direct Method using fixed resistor box	5 mohm	0.61 %
107	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope	Using Multiproduct Calibrator by Direct method	1 mV to 130 V	0.29 % to 0.096 %
108	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Amplitude-Sq wave Oscilloscope @1 kHz	Using Multiproduct Calibrator by Direct method	1 mV to 55 Vp-p	0.6 % to 0.3 %



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109	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Bandwidth - Oscilloscope	Using Multiproduct Calibrator by Direct method	50 kHz to 1 GHz	0.23 % to 0.87 %
110	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Timer Marker / Oscilloscope	Using Multiproduct Calibrator by Direct method	1 ns to 5 s	0.0003 %
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B type Thermocouple	Using Multiproduct Calibrator & 6½ Digital Multimeter by Direct method	600 °C to 1750 °C	0.4 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E type thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 900 °C	0.27 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J type Thermocouple	Using Multiproduct Calibrator & 6½ Digital Multimeter by Direct method	-200 °C to 1200 °C	0.31 °C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 1350 °C	0.48 °C



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115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N type Thermocouple	Using Multiproduct Calibrator by Direct method	200 °C to 1300 °C	0.35 °C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R type Thermocouple	Using Multiproduct Calibrator by Direct method	10 °C to 1750 °C	0.48 °C
117	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD type	Using 6½ Digit Multimeter by Direct method	-200 °C to 800 °C	0.05 °C
118	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S type Thermocouple	Using Multiproduct Calibrator by Direct method	10 °C to 1450 °C	0.56 °C
119	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 400 °C	0.17 °C
120	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	600 °C to 1750 °C	0.11 °C



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121	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 900 °C	0.49 °C
122	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J type Temperature Indicator / Recorder / Controller type	Using Multiproduct Calibrator by Direct method	-200 °C to 1200 °C	0.25 °C
123	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 1350 °C	0.48 °C
124	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 1300 °C	0.30 °C
125	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	10 °C to 1750 °C	0.60 °C
126	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 800 °C	0.16 °C



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127	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	10 °C to 1750 °C	0.80 °C
128	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 400 °C	0.16 °C
129	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter by Direct method	10 Hz to 1 GHz	0.0011 % to 0.0024 %
130	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Calibrator by Comparison method	1 s to 9000 s	0.06 % to 0.05 %
131	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct method	1 Hz to 1 GHz	0.004 % to 0.006 %



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132	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate (Media : Water), Analog and Digital Flow meters, Volume Flow rate measuring devices	Using Ultra sonic hand held flow meter with multiple clamp on sensors by Comparison method	18 lpm to 13500 lpm	2.8 %
133	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / Centrifugal Motor / Speed (Non-Contact)	Using Tachometer by Comparison method	12 rpm to 15000 rpm	5.833 %
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	2D Height Gauge (Linearity), Resolution : 0.0001 mm	Using Gauge Block Set by Comparison Method	0 to 1000 mm	4.8 um
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	2D Height Gauge (Squareness), Resolution : 0.0001 mm	Using Granite Square & Surface Table	0 to 1000 mm	13 um
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co-axiality)	Using Taper Mandrel , Lever dial gauge by Comparison method	300 mm to 500 mm	2.4 µm



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137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (parallelism)	Using Taper Mandrel by Comparison method	300 mm to 500 mm	3.0 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Moulds, Protector Mould (Length, Width & Depth Measurement)	Using Digital Caliper / Profile projector as per IS 10086 by Comparison method	Up to 300 mm x 300 mm	12 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite / Cast Iron Surface Plate)	Using Electronic Level as per standard based by comparison method	6000 mm x 2000 mm	2.0xSQRT(L+W/150) µm where L and W in mm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Verification of Displacement Measuring System and Devices used in Material Testing Machine	Using Digital Height gauge, length measuring Instruments as per ASTM E 2309	20 mm to 600 mm	916.11 µm
141	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Microscope / Tool Microscope	Using Slip Gauge by Comparison method	Magnification: 10X to 100	0.6 %



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142	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Slip Gauge by Comparison method	10x,20x,50x,100x	0.6 %
143	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring System / microscope Resolution: 0.001 mm	Using Slip Gauge by Comparison method	Linear : 0 to 200 mm	1.8 µm
144	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring System, Resolution: 1s	Using Angle Gauge Block by Comparison method	Angular: Up to 360°	5 minute of arc
145	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C 0.1µm	Using Gauge Block Set by Comparison method	Up to 100 mm	0.5 µm
146	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VMS/ Profile Projector (Angular)	Using Angle Gauge Block by Comparison method	Up to 360 °	5 min of arc
147	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VMS/ Profile Projector (Linearity), Resolution : 0.0001 mm	Using Slip Gauge by Comparison method	Up to 300 mm	1.8 um
148	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks IS:1500 (Part 2) :2021	HBW 10/3000	1.41%



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149	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks IS:1500 (Part 2) :2021	HBW 5/750	2.02 %
150	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV0.1	8.01%
151	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV0.2	7.5%
152	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV0.5	4.11%
153	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV1	5.12%
154	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness	Using Standard Hardness Blocks IS 1586 (Part2) : 2018	HRA	1.0HRA
155	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness	Using Standard Hardness Blocks IS 1586 (Part2) :2018	HRB	1.2HRB



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156	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness	Using Standard Hardness Blocks IS 1586 (Part2) : 2018	HRC	0.85HRC
157	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV1	5.12%
158	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) :2020	HV10	2.50%,
159	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV30	2.0%
160	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV5	3.72%
161	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Vacuum Gauges / Transmitters / Transducers, Compound Gauges	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to -0.75 bar	0.00080 bar
162	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Vacuum Gauges / Transmitters / Transducers, Compound Gauges	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 2 bar	0.00061 bar



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163	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure, Digital / Analog Pressure Gauges, Compound Gauge, Pressure Indicator With Transducer / Transmitter, Pressure Switch	Using Digital Pressure Calibrator & 6½ Multimeter by Comparison method	0 to 1000 bar	0.055 bar
164	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Digital / Dial Gauges / Pressure Indicator With Transmitter / Transducer, Compound Gauge	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 70 bar	0.0028 bar
165	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Digital / Dial Gauges / Pressure Indicator With Transmitter / Transducer, Compound Gauge	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	2 bar to 20 bar	0.0010 bar
166	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Absolute) (Absolute Gauges, Barometers, Manometers) Pneumatic Pressure, Magnehelic gauges, Differential Pressure Transmitters, Low Pressure Indicators / Transducers, Barometer	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 2000 mbar	0.47 bar



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167	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Absolute) (Absolute Gauges, Barometers, Manometers) Pneumatic Pressure, Magnehelic gauges, Differential Pressure Transmitters, Low Pressure Indicators / Transducers, Barometer	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 500 mbar	0.020 bar
168	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Absolute) (Absolute Gauges, Barometers, manometers)Pneumatic Pressure, Magnehelic gauges, Differential Pressure Transmitters, Low Pressure Indicators / Transducers, Barometer	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 70 mbar	0.037 mbar
169	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, Spring Testing Machine, Flexural Testing Machine (Tensile Mode)	Using Load Cells as per IS 1828 Part 1:2022	1 kN to 50 kN	0.6 %



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170	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Compression Mode)	Using Load Cells as per IS 1828 Part 1:2022	10 N to 100 N	0.85 %
171	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Tensile Mode)	Using Load Cells as per IS 1828 Part 1: 2022	10 N to 100 N	0.85 %
172	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Tensile Mode)	Using Load Cells as per IS 1828 Part 1:2022	100 N to 1000 N	0.6 %
173	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, CBR Apparatus, Spring Testing Machine, Flexural Testing Machine (Compression Mode)	Using Proving Ring, Load Cells as per IS 1828 Part 1:2022	100 N to 1000 kN	0.6 %
174	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, CBR Apparatus, Spring Testing, Flexural Testing Machine (Compression Mode)	Using Proving Ring as per IS 1828 Part 1:2022	200 kN to 2000 kN	0.6 %



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175	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 0.0001 mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 2.1 g	0.003 mg
176	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 0.1mg (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 200 g	0.10 mg
177	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 1 g (Class - III)	Using Weights of Accuracy Class F1 as per OIML R76:2006	1 g to 100 kg	1 g
178	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 1 mg (Class-II)	Using Weights of Accuracy Class E1 & E2 as per OIML R-76: 2006	1 mg to 1 kg	0.002 g
179	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 10 g (Class-IV)	Using Weights of Accuracy Class F1 as per OIML R76:2006	10 g to 100 kg	10 g
180	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 g, (Class-IV)	Using Weights of Accuracy Class F1 as per OIML R76:2007	2 kg to 1000 kg	100 g
181	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 mg (Class-III)	Using Weights of Accuracy Class E1, F1 & F2 as per OIML R-76: 2006	0.1 g to 20 kg	0.10 g



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182	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 mg, (Class-III)	Using Weights of Accuracy Class E1, F1 as per OIML R-76: 2006	0.1 g to 35 kg	0.100 g
183	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 mg, (Class-III)	Using Weights of Accuracy Class E1, F1 & F2 as per OIML R-76: 2006	0.1 mg to 10 kg	0.100 g
184	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 50 g, (Class-IV)	Using Weights of Accuracy Class F1 as per OIML R76:2006	2 kg to 500 kg	50 g
185	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.001mg (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 5.1 g	0.005 mg
186	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.01 mg (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 50 g	0.011 mg
187	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 100 g (Class-IV)	Using Weights of Accuracy Class F1 & M1 Class as per OIML R76:2007	2 kg to 2000 kg	3.0 kg
188	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance, Readability : 1mg, (Class-II)	Using Weights of Accuracy Class E1 & E2 as per OIML R 76:2006	0.1 mg to 5 kg	0.011 g



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189	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance, Readability: 0.01 mg, (Class-I)	Using Weights of Accuracy Class E1 & E2 as per OIML R 76:2006	0.1 mg to 2 kg	0.011 mg
190	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers, Climatic Chambers, Environmental Chambers, Humidity Generators, Humidity Source and Sterilizers (Multi Position)	Using Standard Temperature and Humidity Data Loggers (minimum 9 Sensors) by Comparison method	10°C to 50°C @ 50%rh	0.7°C
191	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers, Climatic Chambers, Environmental Chambers, Humidity Generators, Humidity Source and Sterilizers (Multi Position)	Using Standard Temperature and Humidity Data Loggers (minimum 9 Sensors) by Comparison method	20 %rh to 95 %rh @ 25°C	1.741%rh
192	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Humidity Chambers, Climatic Chambers, Environmental Chambers, Humidity Generators, Humidity Source and Sterilizers (Single Position)	Using Standard Humidity Meter and SPRT with Indicator by Comparison method	10 %rh to 95 %rh @ 25°C	1.081 %rh



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193	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Humidity Chambers, Climatic Chambers, Environmental Chambers, Humidity Generators, Humidity Source and Sterilizers (Single Position)	Using Standard Humidity Meter and SPRT with Indicator by Comparison method	5°C to 60°C @ 50%rh	0.278°C
194	THERMAL-TEMPERATURE	Liquid/Oil/Water Bath, Low and High Temp. Bath, Incubators, Freezer, Deep Freezers, Ultra Deep Freezers, Refrigerators, BOD Incubators, Environmental Chambers, Ovens, Autoclaves, Clean Rooms, Cold Room (Multi Position)	Using RTD Sensors and Multichannel Temperature Recorders (minimum 9 Sensors) by Comparison method	-80 °C to 300 °C	0.515 °C



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195	THERMAL-TEMPERATURE	Low and High Temp. Bath, Incubators(Non medical purpose), Freezer, Deep Freezers, Ultra Deep Freezers, Refrigerators, BOD Incubators(Non medical purpose), Environmental Chambers, Ovens, Autoclaves (Non medical purpose), Clean Rooms, Cold Room	Using N type Sensors and Multichannel Temperature Recorders (minimum 9 sensors) by multiposition method	300 °C to 1200 °C	3.22 °C
196	THERMAL-TEMPERATURE	RTD's, Thermocouples (With / Without Indicators), Data Loggers, Recorders, Transmitters, Digital/Analog Thermometers, Temperature Gauges and Transmitters with / Without Indicator	Using Standard SPRT with Indicator, Nitrogen Bath and Digital Multimeter by Comparison method	-196 °C	0.132 °C



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197	THERMAL-TEMPERATURE	RTD's, Thermocouples (With / Without Indicators), Data Loggers, Recorders, Transmitters, Digital/Analog Thermometers, Temperature Gauges and Transmitters with / Without Indicator	Using Standard SPRT with Indicator, Dry Bath and Digital Multimeter by Comparison method	-95 °C to 140 °C	0.041 °C
198	THERMAL-TEMPERATURE	RTD's, Thermocouples (With and Without Indicators), Data Loggers, Recorders, Transmitters, Digital/Analog Thermometers, Temperature Gauges and Transmitters with / Without Indicator	Using Standard SPRT with Indicator, Dry Bath and Digital Multimeter by Comparison method	140 °C to 600 °C	0.132 °C
199	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Low and High Temp. Dry Bath / Block, Furnace, Environmental Chamber, Oven (Single Position)	Using Standard SPRT with Indicator by Comparison method	140 °C to 600 °C	0.092 °C



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200	THERMAL-TEMPERATURE	Temperature Indicator with sensor of High Temp. Dry Bath / Block, Environmental Chamber, Oven (Single Position)	Using S Type Thermocouple with indicator by Comparison method	600 °C to 1200 °C	1.201 °C
201	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid/Oil Bath, Low and High Temp. Dry Bath / Block, Furnace, Freezer, Environmental Chamber, Oven, Incubator, Autoclave, Centrifuge Chamber (Single Position)	Using Standard SPRT with Indicator by Comparison method	-95 °C to 140 °C	0.032 °C
202	THERMAL-TEMPERATURE	Thermocouples (With / Without Indicators), Data Loggers, Recorders, Transmitters, Digital / Analog Thermometers and Transmitters with / Without Indicator	Using Standard S Type Thermocouple with Indicator, Dry Bath and Digital multimeter by Comparison method	600 °C to 1200 °C	1.288 °C



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LOCATION 2 - #216, 1ST CROSS, RAJIV GANDHI NAGAR, J.B.KAVAL, NANDHINI LAYOUT POST, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct / Comparison method	1 kV to 28 kV	2.33 %
2	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Digital Multimeter by Direct / Comparison method	1 kV to 40 kV	1.98 % to 2.09 %
3	FLUID FLOW-FLOW MEASURING DEVICES	Velocity - Anemometer / Hot wire anemometer / Pitot Tube / Wind Speed / Velocity sensors / Kinetic energy tester / Velocity transmitter / Wind tunnel / Air capture hood / fume hood	Using Wind tunnel control unit Thermal anemometer and 'L' Type Pitot Tube by Comparison method	5 m/s to 28 m/s	1.00 m/s



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4	FLUID FLOW- FLOW MEASURING DEVICES	Velocity - Anemometer/ Hot wire anemometer / Pitot Tube/Wind Speed / Velocity sensors / Kinetic energy tester / Velocity transmitter / Wind tunnel / Air capture hood / fume hood	Using Wind tunnel control unit Thermal anemometer and 'L' Type Pitot Tube by Comparison method	2 m/s to 5 m/s	0.24 m/s
5	FLUID FLOW- FLOW MEASURING DEVICES	Velocity - Anemometer/ Pitot Tube/Wind Speed/Velocity sensors/Kinetic energy tester/Velocity transmitter/Wind tunnel/ Air capture hood/ fume hood	Using Wind tunnel control unit Thermal anemometer and 'L' Type Pitot Tube by Comparison method	0.4 m/s to 2 m/s	0.14 m/s
6	MECHANICAL- DENSITY AND VISCOSITY	Density Hydrometer, Brix Hydrometer, Baume Hydrometer, Twaddle Hydrometer, Specific Gravity Hydrometer, Lactometer, Alcoholmeter	Using Cuckow's method and ASTM E 126	0.6 g/ml to 2.0 g/ml	0.000093 g/ml



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7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Graticule L.C: 1°	Using Video Measuring System by Comparison method	0° to 180°	1.8 minute
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor, L.C: 5 minute	Using Video Measuring System by Direct method	(0°-90°-0°)	1.25 minute of arc
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (0.001mm)	Using Electronic Dial gauge calibration Tester by Comparison method	2 mm Transmission only	2.1 µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Analog /Dial / Digital) Resolution: 0.01 mm	Using Caliper Checker & Gauge Block by Comparison method	0 to 1000 mm	9.6 µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge, Resolution: 0.1 µm	Using Standard Thickness Foils by Comparison method	0 to 2000 µm	2.0 µm



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12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set, Resolution :1°	Using Video Measuring System as per standard based on IS 4239	(0°-90°-0°)	6.7 minute of arc
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Dial Stand (Flatness)	Using Lever dial & Height Gauge by Comparison method	0 to 300 mm	5.0 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer, Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 300 mm	7.2 µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier (Analog / Dial / Digital), Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 300 mm	7.6 µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge- Plunger type (Analog / Digital), Resolution: 0.001mm	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 1 mm	2.3 µm



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17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge- Plunger type (Analog / Digital), Resolution: 0.001mm	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 10 mm	2.6 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge- Plunger type (Analog / Digital), Resolution: 0.001 mm	Using Electronic Dial Calibration Gauge Tester by Comparison method	0 to 25 mm	2.3 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge, Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 10 mm	6.0 µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch), Resolution: 0.001 mm	Using Gauge Block Set by Comparison method	0 to 600 mm	6.5 µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch), Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 50 mm	6.0 µm



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22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch), Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	100 mm to 300 mm	6.0 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch), Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	50 mm to 100 mm	6.0 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital) Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	300 mm to 600 mm	6.0 µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial / Leg Caliper (OD & ID)Gauge, Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 150 mm (25 mm stroke length)	3.0 µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial / Digital & Analog) Resolution: 0.01 mm	Using Caliper Checker by Comparison method	0 to 1000 mm	9.0 µm



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27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial / Digital & Analog) Resolution: 0.01 mm	Using Caliper Checker by Comparison method	0 to 600 mm	8.6 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.001 mm)	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 0.14 mm	1.9 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.002 mm)	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 0.2 mm	1.7 µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.01 mm)	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 1 mm	1.7 µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauges	Using Video Measuring System by Comparison method	0.5 mm to 25.0 mm	3.0 µm



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32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rods & Extensions Rods	Using Gauge Block Set by Comparison method	0 to 600 mm	10.0 µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Stage Micrometer L.C: 0.01 mm	Using Video Measuring System by Direct method	0 to 7 mm	28 µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates (Angular)	Using Video Measuring System by Direct method	0° to 180°	3 minute of arc
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates (Linear)	Using Video Measuring System by Direct method	0 to 100 mm	3.69 µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Video Measuring System by Direct method	0.032 mm to 1 mm	3.0 µm



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37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Video Measuring System by Direct method	1 mm to 100 mm	3.0 µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge, Set Pitch Flank Angle	Using Video Measuring System by Comparison method	0.3 mm to 6.0 mm	3.0 µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge, Set Pitch Flank Angle	Using Video Measuring System by Comparison method	55° to 60°	3.0 minute of arc
40	MECHANICAL-FORCE PROVING INSTRUMENTS	Load cell with Indicator, Proven Rings, Dynamometer (Compression & Tension mode) Class 0.5 & Coarser	Using Dead weight force calibration machine with chrome plated steel alloy dead weights and loading hangers as per IS: 4169-2014, ISO 376- 2011	100 N to 10 kN	0.05 %



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41	MECHANICAL-HARDNESS TESTING MACHINES	Shore Hardness Tester, Durometer (Type A, B, C, D, E, M, O, OO, OOO, OOO-S, AM, AO, DO, C1L): Spring Force Measurement Method	Using Load Cell with Indicator, ASTM D2240	0 to 100 Shore A	0.36 Shore A
42	MECHANICAL-HARDNESS TESTING MACHINES	Shore Hardness Tester, Durometer (Type A, B, C, D, E, M, O, OO, OOO, OOO-S, AM, AO, DO, C1L): Spring Force Measurement Method	Using Load Cell with Indicator, ASTM D2240	0 to 100 Shore D	0.12 Shore D
43	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge	Using Stainless Steel Weights as per VDI/VDE 2624 Part 2.1 (2008)	3 N to 500 N	0.7 N
44	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge	Using Stainless Steel Weights as per VDI / VDE 2624 Part 2.1 (2008)	500 N to 2000 N	1.0 N



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45	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches / Screw Drivers, Pneumatic / Electrical Screw Drivers/ Torque Gauges, Type I Class A,B,C,D,E & Torque setting Type II, Class A,B,C,D,E,F,G	Using a Torque wrench Calibrator having four calibrated transducers of 2,20,200,2000 Nm of class 0.2 as per BS 7882 in compliance of ISO 6789:2017(Part 1 & 2)	20 Nm to 200 Nm	0.37 %
46	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches / Screw Drivers, Pneumatic / Electrical Screw Drivers / Torque Gauges, Type I Class A,B,C,D,E & Torque setting Type II, Class A,B,C,D,E,F,G	Using a Torque wrench Calibrator having four calibrated transducers of 2, 20, 200, 2000 Nm of class 0.2 as per BS 7882 in compliance of ISO 6789:2017(Part 1 & 2)	200 Nm to 2000 Nm	0.26 %



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47	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches / Screw Drivers, Pneumatic / Electrical Screw Drivers/ Torque Gauges, Type I Class A, B, C, D, E & Torque setting Type II, Class A, B, C, D, E, F, G	Using a Torque wrench Calibrator having four calibrated transducers of 2,20,200,2000 Nm of class 0.2 as per BS 7882 in compliance of ISO 6789:2017(Part 1 & 2)	0.2 Nm to 2.0 Nm	0.74 %
48	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches / Screw Drivers, Pneumatic / Electrical Screw Drivers/ Torque Gauges, Type I Class A,B,C,D,E & Torque setting Type II, Class A, B, C, D, E, F, G	Using a Torque wrench Calibrator having four calibrated transducers of 2,20,200,2000 Nm of class 0.2 as per BS 7882 in compliance of ISO 6789:2017(Part 1 & 2)	2 Nm to 20 Nm	0.39 %
49	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers and Torque Sensors with Indicator, Torque Meters and Torque Tester	Using Dead Weight Torque Calibration System Consisting of Lever Arm and Stainless Steel / Aluminum Dead Weights as per BS:7882:2008	20 Nm to 200 Nm	0.02 %



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50	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers and Torque Sensors with Indicator, Torque Meters and Torque Tester	Using Dead Weight Torque Calibration System Consisting of Lever Arm and Stainless Steel / Aluminum Dead Weights, as per BS:7882:2008	200 Nm to 2000 Nm	0.02 %
51	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers and Torque Sensors with Indicator, Torque Meters and Torque Tester	Using Dead Weight Torque Calibration System Consisting of Pulley and Aluminum Dead Weights as per BS:7882:2008	0.2 Nm to 2 Nm	0.03 %
52	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers and Torque Sensors with Indicator, Torque Meters and Torque Tester	Using Dead Weight Torque Calibration System Consisting of Lever Arm and Stain Less / Aluminum Dead Weights as per BS: 7882:2008	2 Nm to 20 Nm	0.03 %
53	OPTICAL-OPTICAL	Lux Meter / Light Meter / Illuminance Meter	Using Standard Lux meter by Comparison method	10 lux to 19000 lux	3.6 %rdg

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