National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

ACCURATE CALIBRATION & TESTING CENTER LLP

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

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

for its facilities at

168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2188

Issue Date: 20/10/2024 **Valid Until:** 19/10/2028

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

Name of Legal Entity: ACCURATE CALIBRATION & TESTING CENTER LLP

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	1 mA to 10 A	0.25 % to 0.32 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	100 µA to 1 mA	0.30 % to 0.25 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	30 µA to 100 µA	0.88 % to 0.30 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	10 mV to 100 mV	4.74 % to 0.12 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	100 mV to 1000 V	0.12 % to 0.1 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using 6½ Precision Digital Multimeter by Direct Method	1 nF to 10 µF	1.74 % to 1.74 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator By Direct Method	10 A to 20 A	0.25 % to 0.32 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator By Direct Method	100 µA to 2 mA	0.35 % to 0.15 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator By Direct Method	2 A to 10 A	0.15 % to 0.25 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator By Direct Method	2 mA to 2 A	0.15 % to 0.15 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	10 mV to 200 mV	4.70 % to 0.24 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	10 V to 1000 V	0.15 % to 0.11 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	200 mV to 10 V	0.24 % to 0.15 %

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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using Decade Capacitance Box By Direct method	1 nF to 10 µF	1.16 % to 1.16 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box By Direct method	0.1 mH to 1 H	2.33 % to 1.27 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Precision Multimeter By Direct Method	1 A to 10 A	0.08 % to 0.19 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Precision Multimeter By Direct Method	1 mA to 1 A	0.08 % to 0.08 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Precision Multimeter By Direct Method	10 µA to 1 mA	0.36 % to 0.08 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using DC Shunt & 6½ Precision Digital Multimeter by Direct Method	10 A to 20 A	0.15 % to 0.15 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Precision Multimeter By Direct Method	1 mV to 100 mV	0.42 % to 0.01 %

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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Precision Multimeter By Direct Method	100 mV to 1000 V	0.01 % to 0.01 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Precision Multimeter By Direct Method	1 MOhm to 10 MOhm	0.03 % to 0.06 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Precision Multimeter By Direct Method	10 MOhm to 100 MOhm	0.06 % to 0.94 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Precision Multimeter By Direct Method	100 MOhm to 1000 MOhm	0.94 % to 2.4 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire/2 wire)	Using 6½ Precision Multimeter By Direct Method	1 Ohm to 10 Ohm	0.36 % to 0.05 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire/2 wire)	Using 6½ Precision Multimeter By Direct Method	10 Ohm to 100 Ohm	0.05 % to 0.02 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire/2 wire)	Using 6½ Precision Multimeter By Direct Method	100 Ohm to 1 MOhm	0.02 % to 0.03 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	10 µA to 2 mA	0.3 % to 0.08 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	2 A to 20 A	0.09 % to 0.13 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	2 mA to 20 mA	0.08 % to 0.14 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	20 mA to 2 A	0.14 % to 0.09 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using Universal Calibrator with 50 turn Current Coil by Direct Method	20 A to 1000 A	0.8 % to 0.8 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator By Direct Method	1 mV to 200 mV	4.93 % to 0.07 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator By Direct Method	200 mV to 1000 V	0.07 % to 0.06 %

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35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (discrete resistances - 2 wire) upto 1kV	Using High Resistance Standard (discrete resistances) by direct method	1 MOhm to 10 GOhm	1.18 % to 1.18 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Decade Resistance Box by direct method	10 MOhm to 100 MOhm	0.12 % to 1.88 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Decade Resistance Box by direct method	10 Ohm to 10 MOhm	0.12 % to 0.12 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	0.0005 Ohm	1.63 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	0.001 Ohm	0.82 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	0.01 Ohm	0.55 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	0.1 Ohm	0.55 %

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42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	1 kOhm	0.02 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	1 MOhm	0.12 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	1 Ohm	0.55 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	10 kOhm	0.02 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	10 Ohm	0.25 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	100 kOhm	0.02 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	100 Ohm	0.03 %

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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Fix values with multiplayer 1k ohm) as (10ohm,24ohm, 50ohm, 100ohm, 240ohm, 500ohm, 1k ohm, 2.4 k ohm, 5k ohm, 10k ohm, 24 k ohm) (2 wire)	Using Universal Calibrator By Direct Method	10 Ohm to 24 MOhm	0.48 % to 0.24 %
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	600 °C to 1800 °C	0.15 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	(-) 200 °C to 1000 °C	0.15 °C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	(-) 200 °C to 1200 °C	0.15 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	(-) 200 °C to 1370 °C	0.15 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	(-) 200 °C to 1300 °C	0.15 °C

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55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	0 °C to 1750 °C	0.15 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100)	Using 6½ Precision Digital Multimeter by Direct Method	(-) 200 °C to 600 °C	0.15 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	0 °C to 1750 °C	0.15 °C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	(-) 200 °C to 400 °C	0.15 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using Universal Calibrator By Direct Method	600 °C to 1800 °C	0.6 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple	Using Universal Calibrator By Direct Method	(-) 200 °C to 1000 °C	0.4 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1200 °C	0.4 °C

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62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1370 °C	0.4 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple	Using Universal Calibrator By Direct Method	(-) 200 °C to 1300 °C	0.4 °C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1750 °C	0.6 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using Universal Calibrator By Direct Method	(-) 200 °C to 800 °C	0.3 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1750 °C	0.6 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple	Using Universal Calibrator By Direct Method	(-) 200 °C to 400 °C	0.3 °C
68	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Precision Multimeter By Direct Method	10 Hz to 1 MHz	0.11 % to 0.012 %

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69	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval (Timer / Stop Watch)	Using Digital Time Interval Meter By Comparison Method	2 s to 3600 s	0.15 s to 0.30 s
70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	10 Hz to 10 kHz	0.55 % to 0.03 %
71	MECHANICAL-ACOUSTICS	Sound Level Meter @1 kHz	Using Sound Level Calibrator by Direct Method	94 and 114 dB	0.6 dB
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor(L.C.: 5' & Coarse)	Using Angle Gauge Blocks by Direct Method	0 ° to 90 °	4 min of arc
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (For Transmission Accuracy Check only)	Using Dial Calibration Tester by Direct Method	0 to 1 mm	3.0 µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier/ Dial/ Electronic (L.C.: 0.01 mm & coarser)	Using Caliper Checker & Length Bars by Direct Method	0 to 1000 mm	15.0 µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Meter	Using Master Foils by Direct Method	0 to 2 mm	2.5 µm

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76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of work table)	Using Electronic Comparator by Direct Method	(200 X 200) mm to (300 X 300) mm	4.5 µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of work table)	Using Electronic Comparator by Direct Method	(40 X 40) mm to (200 X 200) mm	1.2 µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of work table)	Using Optical Flat by Direct Method	Diameter: 30 mm to 100 mm	0.3 µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator with Stand / Comparator Dial / Electronic Probe With DRO (L.C.: 0.00001 mm)	Using Gauge Block Set by Direct Method	0 to 20 µm	0.12 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator with Stand/ Comparator Dial/ Electronic Probe With DRO (L.C.: 0.0001 mm & Coarser)	Using Gauge Blocks Set by Direct Method	0 to 25 mm	0.4 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Squares - Flatness of end faces	Using Surface plate & Digital Dial Indicator by comparison method	0 to 600 mm	3.5 µm

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82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Squares - Straightness of cylinder side	Using Surface plate & Digital Dial Indicator by comparison method	0 to 600 mm	3.5 µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Squares / Granite L-Square (Squareness measurement)	Using Master Granite L-Square and 2D Electronic Height Gauge by Comparison Method	0 to 600 mm	3.5 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Degree Protractor (L.C.: 1 °)	Using Angle Gauge Blocks by Direct Method	0 ° to 360 °	43 arc min
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Dial/ Digital/ Vernier (L.C.: 0.01 mm & Coarser)	Using Gauge Blocks Set, Holding Fixture and Surface Plate by Direct Method	0 to 300 mm	10.0 µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks Set, Holding Fixture and Surface Plate by Direct Method	0 to 300 mm	7.0 µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge – Lever Type (L.C.: 0.001 mm & coarser)	Using Dial Calibration Tester by Direct Method	0 to 2 mm	1.1 µm

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88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge – Plunger Type (L.C.: 0.001 mm)	Using Dial Calibration Tester by Direct Method	0 to 2 mm	1.0 µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge – Plunger Type (L.C.: 0.001 mm)	Using Universal Length Measuring Machine by Direct Method	0 to 50 mm	2.0 µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge – Plunger Type (L.C.: 0.002 mm)	Using Dial Calibration Tester by Direct Method	0 to 5 mm	2.0 µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge – Plunger Type (L.C.: 0.010 mm)	Using Dial Calibration Tester by Direct Method	0 to 25 mm	3.0 µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge – Flatness	Using Gauge Blocks Set & Optical Flat by Direct Method	0 to 200 mm	0.3 µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge – Instrumental Error & Parallelism	Using Gauge Blocks Set & Optical Flat by Direct Method	0 to 200 mm	3.0 µm

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94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Square (Squareness)	Using Comparator & 2D Electronic Height Gauge by Comparison Method	50 mm to 600 mm	8.6 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Square - Straightness of blade edge	Using Surface plate & Digital Dial Indicator by comparison method	50 mm to 600 mm	8.6 µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Square – Parallelism of edges of blade	Using Comparator & 2D Electronic Height Gauge by Comparison Method	50 mm to 600 mm	8.6 µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C. 0.001 mm & Coarser)	Using Gauge Blocks Set & Length Bars by Direct Method	300 mm to 600 mm	8.0 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C. 0.001 mm & Coarser)	Using Gauge Blocks Set & Length Bars by Direct Method	600 mm to 1000 mm	11.0 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks Set & Length Bars by Direct Method	0 to 150 mm	1.6 µm

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100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks Set & Length Bars by Direct Method	150 mm to 300 mm	5.0 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge / Shims (Foils) of Coating Thickness Gauge	Using Electronic Comparator with Stand by Direct Method	0.01 mm to 2 mm	1.5 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Granite L-Square - Flatness of working faces	Using Surface plate & Digital Dial Indicator by comparison method	0 to 600 mm	3.5 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier/ Dial/ Electronic (L.C.: 0.01 mm & Coarser)	Using Caliper Checker & Length Bars, Granite surface plate by comparision Method	0 to 1000 mm	15.0 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper - 2 Points (L.C.: 0.001 mm & Coarser)	Using Slip Gauge Set Accessories & Caliper Checker by Direct Method	2.5 mm to 150 mm	7.6 µm

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105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer - 2 Points {Traverse of Micrometer Head upto 25 mm with interchangeable setting rod not more than 400 mm) (L.C. 0.001 mm & coarser)}	Using Slip Gauge Set Accessories & Caliper Checker by Direct Method	50 mm to 2100 mm	8.9 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins	Using Electronic Comparator with Stand by Comparison Method	0.17 mm to 20 mm	0.3 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C. 0.5mm & coarser)	Using Scale & Tape Calibrator by Direct Method	0 to 1000 mm	144 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C. 1mm & coarser)	Using Scale & Tape Calibrator by Direct Method	0 to 1 m	144 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape with step of 1 meter (L.C. 1mm & coarser)	Using Scale & Tape Calibrator by Direct Method	1 m to 50 m	144 x Sqrt(L/1000) µm; where L in mm

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110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head (L.C. 0.001 mm & coarser)	Using Electronic Comparator by Direct Method	0 to 25 mm	0.8 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.1 mm & coarser)	Using Gauge Blocks Set by Direct Method	0 to 65 mm	66.0 µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug / Setting Master / Width / Thickness Gauges	Using Gauge Blocks Set & Electronic Comparator with Stand by Comparison Method	0.5 mm to 50 mm	0.7 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug / Setting Master / Width / Thickness Gauges	Using Gauge Blocks Set & Electronic Comparator with Stand by Comparison Method	100 mm to 200 mm	2.0 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug / Setting Master / Width / Thickness Gauges	Using Gauge Blocks Set & Electronic Comparator with Stand by Comparison Method	200 mm to 300 mm	3.0 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug / Setting Master / Width / Thickness Gauges	Using Gauge Blocks Set & Electronic Comparator with Stand by Comparison Method	50 mm to 100 mm	1.0 µm

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116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge	Using Universal Length Measuring Machine and master setting ring by Comparison Method	2.5 mm to 50 mm	1.0 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge	Using Universal Length Measuring Machine by Comparison Method	50 mm to 150 mm	2.5 µm to 2.0 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using Gauge Blocks Set by Direct Method	2 mm to 300 mm	3.0 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge Set	Using Vision Measuring Machine by Direct Method	0.4 mm to 25 mm	6.4 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Parallelism of working surface to contact surface)	Using Electronic comparator and Surface plate of Grade-0 by direct method	100 mm to 300 mm	3.3 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Centre distance between rollers)	Using 2D Electronic Height Gauge, Gauge Blocks Grade-0 by comparison method	100 mm to 300 mm	3.3 µm

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122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar / Sine Center (Angular)	Using Gauge Blocks Grade-0, Angle Gauge Block & electronic comparator by Comparison Method	Center Distance: 100 mm to Center Distance: 300 mm	6 sec of arc
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Center (Centre distance between rollers)	Using 2D Electronic Height Gauge, Gauge Blocks Grade-0 by comparison method	100 mm to 300 mm	3.3 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Center (Coaxiality of Centres)	Using Electronic comparator and Surface plate of Grade-0 by direct method	100 mm to 300 mm	3.3 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Center (Parallelism of centre axis to bottom contact plane of rollers & Parallelism of Roller Axis over lengths)	Using Electronic comparator, Surface plate of Grade-0 and Cylindrical Mandrels by direct method	100 mm to 300 mm	3.3 µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite & Cast Iron)	Using Electronic Level by Direct Method	(250 x 250) mm to (4000 x 4000) mm	1 x sqrt ((L+W)/120) µm; Where L & W in mm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale / Taper Bore Gauge	Using Vision Measuring Machine by Direct Method	0 to 60 mm	5.6 µm

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128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Diameter Only)	Using Universal Length Measuring Machine, Thread Measuring Wires by Comparison Method	100 mm to 200 mm	2.5 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Diameter Only)	Using FCDM, Cylindrical Setting Masters & Thread Measuring Wires by Comparison Method	3 mm to 100 mm	4.0 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Diameter Only)	Using Universal Length Measuring Machine by Comparison Method	3 mm to 110 mm	2.3 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Caliper by Direct Method	3 mm to 125 mm	37.5 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Vision measuring Machine by Direct Method	32 µm to 3 mm	5.6 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge - Dial & Electronic (L.C.: 0.001 mm & coarser)	Using Gauge Blocks Set by Direct Method	0 to 10 mm	1 µm

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134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wires / Three Wire Unit	Using Electronic Comparator with Stand by Comparison Method	0.17 mm to 6.35 mm	0.3 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Flank Angle)	Using Vision Measuring Machine by Direct Method	55 ° to 60 °	30 sec of arc
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Vision Measuring Machine by Direct Method	0.25 mm to 8.0 mm	5.6 µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter & Major Diameter)	Using FCDM, Cylindrical Setting Master & Thread Measuring Wires by Comparison Method	1 mm to 100 mm	3.6 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter & Major Diameter)	Using Universal Length Measuring Machine & Thread Measuring Wires by Comparison Method	100 mm to 200 mm	2.5 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter only)	Using Universal Length Measuring Machine & T-Stylus by Comparison Method	100 mm to 150 mm	2.8 µm

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140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter only)	Using Universal Length Measuring Machine & T-Stylus by Comparison Method	3 mm to 100 mm	2.2 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge	Using Step Master & Steel Length Bars by Direct Method	0 to 200 mm	60.0 µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Parallelism)	Using Cylindrical Mandrel & Comparator	25 mm to 150 mm	6.8 µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Squareness)	Using 2D Electronic Height Gauge by Comparison Method	25 mm to 150 mm	8.3 µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Symmetricity)	Using Cylindrical Mandrel & Comparator	25 mm to 150 mm	6.8 µm
145	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge - Linear Accuracy (L.C.: 0.0001 mm & Coarser)	Using Length Bars & Surface Plate by Direct Method	0 to 600 mm	(2.5+ L/1000) µm; where L in mm

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146	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge - Squareness Error (L.C.: 0.0001 mm & Coarser)	Using Granite Square & Surface Plate by Comparison Method	0 to 600 mm	3.5 µm
147	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Angle Gauge Block	Using Gauge Blocks Grade-0, Sine Bar & Electronic Comparator by Comparison Method	0 ° to 90 °	4.4 sec of arc
148	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Angular Graticule (Scale)	Using Vision Measuring Machine by Direct Method	0 ° to 360 °	12.6 sec of arc
149	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker / Step Gauge/ Internal Micro Checker	Using 2D Electronic Height Gauge, Length Bars, Gauge Blocks by Comparison Method	0 to 1070 mm	6 µm
150	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker / Step Gauge/ Internal Micro Checker	Using 2D Electronic Height Gauge, Length Bars, Gauge Blocks by Comparison Method	0 to 670 mm	4.6 µm
151	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master – Concentricity Measurement	Using Electronic Comparator & FCDM by Comparison Method	Diameter: 1 mm to 200 mm	1.1 µm
152	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master – Diameter Measurement	Using Gauge Blocks Set & Electronic Comparator by Comparison Method	Diameter > 100 mm to 200 mm	1.5 µm
153	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master – Diameter Measurement	Using Gauge Blocks Set & Electronic Comparator by Comparison Method	Diameter: 1 mm to 100 mm	1.0 µm

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154	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Depth Micro Checker	Using 2D Electronic Height Gauge, Length Bars, Gauge Blocks by Comparison Method	0 to 300 mm	3.5 µm
155	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (L.C.: 0.0001 mm & Coarser)	Using Electronic Comparator by Direct Method	0 to 25 mm	0.75 µm
156	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Level (L.C.: 0.001mm/m & coarser) Spirit Level / Frame Level (L.C.: 0.01mm/m & coarser)	Using Electronic Comparator and Tilting Table by Comparison Method	0 to ±2 mm/m	2.4 µm/m
157	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine (L.C.: 0.0001 mm & coarser)	Using Cylindrical Setting Masters, Electronic Comparator, Optical Flat, Measuring Pin, Gauge Blocks by Direct Method	0 to 200 mm	1.6 µm
158	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block - Central Length Deviation	Using Gauge Block Comparator & Reference ''K'' Grade Gauge Block Set by Comparison Method	>25 mm to 50 mm	0.1 µm
159	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block - Central Length Deviation	Using Gauge Block Comparator & Reference ''K'' Grade Gauge Block Set by Comparison Method	>50 mm to 75 mm	0.12 µm

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160	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block - Central Length Deviation	Using Gauge Block Comparator & Reference ''K'' Grade Gauge Block Set by Comparison Method	>75 mm to 100 mm	0.13 µm
161	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block - Central Length Deviation	Using Gauge Block Comparator & Reference ''K'' Grade Gauge Block Set by Comparison Method	0.5 mm to 25 mm	0.07 µm
162	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block - Parameters "fo, fu and fs or v"	Using Gauge Block Comparator by Comparison Method	0.5 mm to 100 mm	(0.04 + L/3000) µm; where L in mm
163	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine - Horizontal (L.C.: 0.0001 mm & coarser)	Using Gauge Blocks by Direct Method	0 to 100 mm	0.8 µm
164	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine - Horizontal (L.C.: 0.0001 mm & coarser)	Using Gauge Blocks by Direct Method	100 mm to 300 mm	1.03 µm
165	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Standard / Length Bar / Long Gauge Block	Using Gauge Blocks Set and Electronic Comparator with Stand by Comparison Method	>300 mm to 500 mm	1.3 µm
166	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Standard / Length Bar / Long Gauge Block	Using Gauge Blocks Set, Length Bars & Electronic Comparator with Stand by Comparison Method	>500 mm to 700 mm	2.0 µm

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167	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Standard / Length Bar / Long Gauge Block	Using Gauge Blocks Set, Length Bars & Electronic Comparator with Stand by Comparison Method	>700 mm to 1000 mm	3.5 µm
168	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Standard / Length Bar / Long Gauge Block	Using Gauge Blocks Set and Electronic Comparator with Stand by Comparison Method	25 mm to 300 mm	0.9 µm
169	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Flat - Flatness	Using Reference Optical Flat, Sodium Monochromatic Light Source by Direct Method	Diameter 10 mm to 100 mm	0.16 µm
170	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Parallel - Parallelism	Using gauge block calibrator by Direct Method	Diameter: 10 mm to Diameter 30 mm	0.1 µm
171	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Optical Microscope / Tool Makers Microscope / Brinell Microscope / Vision Measuring Machine - Linear X Axis, Y Axis (L.C.: 0.00001 mm & coarser)	Using Linear Glass Scale by Direct Method	0 to 200 mm	2.7 µm
172	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Tool Makers Microscope / Vision Measuring Machine - Angular (Least Count: 1 sec of arc)	Using Angular Graticule by Direct Method	0 ° to 360 °	13.1 sec of arc

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173	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Tool Makers Microscope / Vision Measuring Machine - Angular (Least Count: 1 sec of arc)	Using Angle Gauge Blocks by Direct Method	0 ° to 360 °	5 sec of arc
174	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Optical Microscope/ Vision Measuring Machine - Magnification	Using Linear Glass Scale, Gauge Block, Digital Caliper by Direct Method	2 X to 1000 X	0.5 %
175	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale & Tape Calibration Machine (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks & Length Bars by Direct Method	0 to 1000 mm	10 µm
176	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester – Portable (Ra Value)	Using Surface Roughness Specimens - 3 different values by Direct Method	0.1 µm to 6.0 µm	7.2 %
177	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester – Portable (Rz & Rmax Values)	Using Surface Roughness Specimens - 3 different values by Direct Method	0.1 µm to 23 µm	7.2 %
178	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester – Standalone (Ra Value)	Using Surface Roughness Specimens -3 different Ra values by Direct Method	0.1 µm to 6.0 µm	7.2 %
179	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester - Standalone (Rz & Rmax Values)	Using Surface Roughness Specimens -3 different values by Direct Method	0.1 µm to 23.0 µm	7.2 %

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180	MECHANICAL-DUROMETER	Shore ‘A’ Hardness Tester	Using Shore Hardness Tester Calibrator by Direct Method as per ASTM D 2240	0 to 100 Shore-A	0.59 Shore-A
181	MECHANICAL-DUROMETER	Shore ‘D’ Hardness Tester	Using Shore Hardness Tester Calibrator by Direct Method as per ASTM D 2240	0 to 100 Shore-D	0.55 Shore-D
182	MECHANICAL-DUROMETER	Verification of Force of Shore ‘A’ Hardness Tester Calibrator	Using loadcell with indicator as per ASTM D 2240 by Direct Method	0 to 100 Shore-A	0.47 Shore-A
183	MECHANICAL-DUROMETER	Verification of Force of Shore ‘D’ Hardness Tester Calibrator	Using loadcell with indicator as per ASTM D 2240 by Direct Method	0 to 100 Shore-D	0.46 Shore-D
184	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital and Dial Pressure Gauges, Pressure Transmitters)	Using Digital Pressure Gauge & Hydraulic Pressure Pump, 6½ Digital Multimeter By Comparison Method as per DKD-R 6-1	0 to 70 bar	0.10 bar
185	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital and Dial Pressure Gauges, Pressure Transmitters)	Using Digital Pressure Gauge & Hydraulic Pressure Pump, 6½ Digital MultimeterBy Comparison Method as per DKD-R 6-1	0 to 700 bar	0.6 bar

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186	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure (Digital and Dial Vacuum Gauges, Vacuum Transmitters)	Using Digital Vacuum Gauge with Vacuum Pump, 6½ Digital Multimeter & By Comparison Method (DKD-R 6-1)	(-) 0.8 bar to 0	0.006 bar
187	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Digital & Dial Pressure Gauge, Manometer, Magnehelic Gauge, Differential Pressure Gauge, Pressure Transmitter)	Using Digital Differential Pressure Gauge, Pneumatic Low Pressure Pump, 6½ Digital Multimeter as per DKD-R 6-1	0 to 20 mbar	0.017 mbar
188	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Digital and Dial Pressure Gauges, Pressure Transmitters)	Using Digital Pressure Gauge & Pneumatic Pressure Pump, 6½ Digital Multimeter By Comparison Method as per DKD-R 6-1	0 to 7 bar	0.015 bar
189	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches Type–I Class A,B,C,D,E Type – II Class A,B,C,D,E,F,G	Using Digital Torque Calibration System with Four Torque Sensors & Digital Torque Indicator by Comparison Method as per ISO 6789-1: 2017 and ISO 6789-2: 2017	0 to 1000 Nm	1.75 %
190	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with sensor of Humidity Calibrator / Generator / Environmental Chamber @ 25°C (Single Position Calibration)	Using RH and Temp Probe with Indicator by comparison method	20 %RH to 90 %RH	1.1 %RH

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191	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature / Relative Humidity meter with Sensor, Temperature / Relative Humidity meter with inbuilt Sensor, Datalogger, Thermohygrometer @ 25°C	Using Temperature / Humidity Generator along- with RH & Temp Probe with Indicator by comparison method.	20 %RH to 90 %RH	1.1 %RH
192	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature / Relative Humidity meter with Sensor, Temperature / Relative Humidity meter with inbuilt Sensor, Datalogger, Thermohygrometer @ 50% RH	Using Temperature/Humidity Generator alongwith RH & Temp Probe with Indicator by comparison method	10 °C to 50 °C	0.5 °C
193	THERMAL-TEMPERATURE	IR Thermometer, Pyrometer, Thermal Imager	Using Standard IR Thermometer & Black Body Furnace (Emissivity 0.95) by Comparison Method	50 °C to 500 °C	2.5 °C
194	THERMAL-TEMPERATURE	IR Thermometer, Pyrometer, Thermal Imager	Using Standard IR Thermometer & Black Body Furnace (Emissivity 0.99) by Comparison Method	500 °C to 1000 °C	3.9 °C
195	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Temperature Gauge, Dial Thermometer	Using 6½ Digit Multimeter, 4 Wire RTD Sensor & Liquid Bath By Comparison Method	(-) 30 °C to 250 °C	0.36 °C

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196	THERMAL-TEMPERATURE	RTD / Thermocouples with or without Indicator / Controller / Recorder / Data logger, Temperature Transmitter with or without indicator, Digital Thermometer	Using 6½ Digit Multimeter, 4 Wire RTD Sensor, Liquid Bath by Comparison Method	(-) 30 °C to 250 °C	0.26 °C
197	THERMAL-TEMPERATURE	RTD / Thermocouples with or without Indicator / Controller / Recorder / Data logger, Temperature Transmitter with or without indicator, Digital Thermometer	Using 6½ Digit Multimeter, 4 Wire RTD Sensor & Dry Block Temp Furnace By Comparison Method	250 °C to 400 °C	0.4 °C
198	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Bath/Oven/Furnace (Single Position Calibration)	Using 6½ Digit Multimeter, R-Type Thermocouple by comparison method	250 °C to 1200 °C	2.6 °C
199	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Bath/Oven/Furnace/ Freezer/Chamber/Incubator for non-medical purpose only (Single Position Calibration)	Using 6½ Digit Multimeter, 4 Wire RTD Sensor by comparison method	(-) 30 °C to 250 °C	0.3 °C

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200	THERMAL-TEMPERATURE	Thermocouples with or without Indicator / Controller / Recorder / Data logger, Temperature Transmitter with or without indicator	Using 6½ Digit Multimeter, R-Type Thermocouple & Dry Block Temp. Furnace By Comparison Method	250 to 1200	2.6

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	1 mA to 10 A	0.25 % to 0.32 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	100 µA to 1 mA	0.30 % to 0.25 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	30 µA to 100 µA	0.88 % to 0.30 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @50Hz	Using HV Probe with DMM by direct method	1 kV to 5 kV	3.8 % to 3.7 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	10 mV to 100 mV	4.74 % to 0.12 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	100 mV to 1000 V	0.12 % to 0.1 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using 6½ Precision Digital Multimeter by Direct Method	1 nF to 10 µF	1.74 % to 1.74 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator By Direct Method	10 A to 20 A	0.25 % to 0.32 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator By Direct Method	100 µA to 2 mA	0.35 % to 0.15 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator By Direct Method	2 A to 10 A	0.15 % to 0.25 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator By Direct Method	2 mA to 2 A	0.15 % to 0.15 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	10 mV to 200 mV	4.70 % to 0.24 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	10 V to 1000 V	0.15 % to 0.11 %

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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	200 mV to 10 V	0.24 % to 0.15 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using Decade Capacitance Box By Direct method	1 nF to 10 µF	1.16 % to 1.16 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box By Direct method	0.1 mH to 1 H	2.33 % to 1.27 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Precision Multimeter By Direct Method	1 A to 10 A	0.08 % to 0.19 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Precision Multimeter By Direct Method	1 mA to 1 A	0.08 % to 0.08 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Precision Multimeter By Direct Method	10 µA to 1 mA	0.36 % to 0.08 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using DC Shunt & 6½ Precision Digital Multimeter by Direct Method	10 A to 20 A	0.15 % to 0.15 %

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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by direct method	1 kV to 5 kV	3.7 % to 3.5 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Precision Multimeter By Direct Method	1 mV to 100 mV	0.42 % to 0.01 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Precision Multimeter By Direct Method	100 mV to 1000 V	0.01 % to 0.01 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Precision Multimeter By Direct Method	1 MOhm to 10 MOhm	0.03 % to 0.06 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Precision Multimeter By Direct Method	10 MOhm to 100 MOhm	0.06 % to 0.94 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Precision Multimeter By Direct Method	100 MOhm to 1000 MOhm	0.94 % to 2.4 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire/2 wire)	Using 6½ Precision Multimeter By Direct Method	1 Ohm to 10 Ohm	0.36 % to 0.05 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire/2 wire)	Using 6½ Precision Multimeter By Direct Method	10 Ohm to 100 Ohm	0.05 % to 0.02 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire/2 wire)	Using 6½ Precision Multimeter By Direct Method	100 Ohm to 1 MOhm	0.02 % to 0.03 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	10 µA to 2 mA	0.3 % to 0.08 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	2 A to 20 A	0.09 % to 0.13 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	2 mA to 20 mA	0.08 % to 0.14 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	20 mA to 2 A	0.14 % to 0.09 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using Universal Calibrator with 50 turn Current Coil by Direct Method	20 A to 1000 A	0.8 % to 0.8 %

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35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator By Direct Method	1 mV to 200 mV	4.93 % to 0.07 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator By Direct Method	200 mV to 1000 V	0.07 % to 0.06 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (discrete resistances - 2 wire) upto 1kV	Using High Resistance Standard (discrete resistances) by direct method	1 MOhm to 10 GOhm	1.18 % to 1.18 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Decade Resistance Box by direct method	10 MOhm to 100 MOhm	0.12 % to 1.88 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Decade Resistance Box by direct method	10 Ohm to 10 MOhm	0.12 % to 0.12 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	0.0005 Ohm	1.63 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	0.001 Ohm	0.82 %

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42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	0.01 Ohm	0.55 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	0.1 Ohm	0.55 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	1 kOhm	0.02 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	1 MOhm	0.12 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	1 Ohm	0.55 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	10 kOhm	0.02 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	10 Ohm	0.25 %

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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	100 kOhm	0.02 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Standard Resistor by Direct Method	100 Ohm	0.03 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Fix values with multiplayer 1k ohm) as (10ohm,24ohm, 50ohm, 100ohm, 240ohm, 500ohm, 1k ohm, 2.4 k ohm, 5k ohm, 10k ohm, 24 k ohm) (2 wire)	Using Universal Calibrator By Direct Method	10 Ohm to 24 MOhm	0.48 % to 0.24 %
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	600 °C to 1800 °C	0.15 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	(-) 200 °C to 1000 °C	0.15 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	(-) 200 °C to 1200 °C	0.15 °C

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55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	(-) 200 °C to 1370 °C	0.15 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	(-) 200 °C to 1300 °C	0.15 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	0 °C to 1750 °C	0.15 °C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100)	Using 6½ Precision Digital Multimeter by Direct Method	(-) 200 °C to 600 °C	0.15 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	0 °C to 1750 °C	0.15 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Thermocouple	Using 6½ Precision Digital Multimeter by Direct Method	(-) 200 °C to 400 °C	0.15 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using Universal Calibrator By Direct Method	600 °C to 1800 °C	0.6 °C

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62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple	Using Universal Calibrator By Direct Method	(-) 200 °C to 1000 °C	0.4 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1200 °C	0.4 °C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1370 °C	0.4 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple	Using Universal Calibrator By Direct Method	(-) 200 °C to 1300 °C	0.4 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1750 °C	0.6 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using Universal Calibrator By Direct Method	(-) 200 °C to 800 °C	0.3 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1750 °C	0.6 °C

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69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple	Using Universal Calibrator By Direct Method	(-) 200 °C to 400 °C	0.3 °C
70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Precision Multimeter By Direct Method	10 Hz to 1 MHz	0.11 % to 0.012 %
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval (Timer / Stop Watch)	Using Digital Time Interval Meter By Comparison Method	2 s to 3600 s	0.15 s to 0.30 s
72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	10 Hz to 10 kHz	0.55 % to 0.03 %
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite & Cast Iron)	Using Electronic Level by Direct Method	(250 x 250) mm to (4000 x 4000) mm	1 x sqrt ((L+W)/120) µm; Where L & W in mm
74	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge - Linear Accuracy (L.C.: 0.0001 mm & Coarser)	Using Length Bars & Surface Plate by Direct Method	0 to 600 mm	(2.5+ L/1000) µm; where L in mm
75	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge - Squareness Error (L.C.: 0.0001 mm & Coarser)	Using Granite Square & Surface Plate by Comparison Method	0 to 600 mm	3.5 µm

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76	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine - Horizontal (L.C.: 0.0001 mm & coarser)	Using Gauge Blocks by Direct Method	0 to 100 mm	0.8 µm
77	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine - Horizontal (L.C.: 0.0001 mm & coarser)	Using Gauge Blocks by Direct Method	100 mm to 300 mm	1.03 µm
78	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Optical Microscope / Tool Makers Microscope / Brinell Microscope / Vision Measuring Machine - Linear X Axis, Y Axis (L.C.: 0.00001 mm & coarser)	Using Linear Glass Scale by Direct Method	0 to 200 mm	2.7 µm
79	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Tool Makers Microscope / Vision Measuring Machine - Angular (Least Count: 1 sec of arc)	Using Angular Graticule by Direct Method	0 ° to 360 °	13.1 sec of arc
80	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Tool Makers Microscope / Vision Measuring Machine - Angular (Least Count: 1 sec of arc)	Using Angle Gauge Blocks by Direct Method	0 ° to 360 °	5 sec of arc
81	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Optical Microscope/ Vision Measuring Machine - Magnification	Using Linear Glass Scale, Gauge Block, Digital Caliper by Direct Method	2 X to 1000 X	0.5 %

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82	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale & Tape Calibration Machine (L.C.: 0.001 mm & Coarser)	Using Gauge Blocks & Length Bars by Direct Method	0 to 1000 mm	10 µm
83	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester – Standalone (Ra Value)	Using Surface Roughness Specimens -3 different Ra values by Direct Method	0.1 µm to 6.0 µm	7.2 %
84	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester - Standalone (Rz & Rmax Values)	Using Surface Roughness Specimens -3 different values by Direct Method	0.1 µm to 23.0 µm	7.2 %
85	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital and Dial Pressure Gauges, Pressure Transmitters)	Using Digital Pressure Gauge & Hydraulic Pressure Pump, 6½ Digital Multimeter By Comparison Method as per DKD-R 6-1	0 to 70 bar	0.10 bar
86	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital and Dial Pressure Gauges, Pressure Transmitters)	Using Digital Pressure Gauge & Hydraulic Pressure Pump, 6½ Digital MultimeterBy Comparison Method as per DKD-R 6-1	0 to 700 bar	0.6 bar
87	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure (Digital and Dial Vacuum Gauges, Vacuum Transmitters)	Using Digital Vacuum Gauge with Vacuum Pump, 6½ Digital Multimeter & By Comparison Method (DKD-R 6-1)	(-) 0.8 bar to 0	0.006 bar

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88	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Digital & Dial Pressure Gauge, Manometer, Magnehelic Gauge, Differential Pressure Gauge, Pressure Transmitter)	Using Digital Differential Pressure Gauge, Pneumatic Low Pressure Pump, 6½ Digital Multimeter as per DKD-R 6-1	0 to 20 mbar	0.017 mbar
89	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Digital and Dial Pressure Gauges, Pressure Transmitters)	Using Digital Pressure Gauge & Pneumatic Pressure Pump, 6½ Digital Multimeter By Comparison Method as per DKD-R 6-1	0 to 7 bar	0.015 bar
90	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability d = 0.1mg & Coarser) (Class I & Coarser)	Using E2 Class Standard Weights by Direct Method as per OIML R 76 - 1	1 mg to 230 g	0.12 mg
91	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability d = 100mg & Coarser) (Class-II & Coarser)	Using E2/F1 Class Standard Weights by Direct Method as per OIML R 76 - 1	0 to 20 kg	0.09 g
92	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability d = 10g & Coarser) (Class-IV)	Using F1 Class Standard Weights by Direct Method as per OIML R 76 - 1	0 to 150 kg	7.7 g
93	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability d = 10mg & Coarser) (Class-II & Coarser)	Using E2/F1 Class Standard Weights by Direct Method as per OIML R 76 - 1	0 to 3 kg	0.007 g
94	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability d = 1g & Coarser) (Class-III & Coarser)	Using F1 Class Standard Weights by Direct Method as per OIML R 76 - 1	0 to 50 kg	1.2 g

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95	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with sensor of Humidity Calibrator / Generator / Environmental Chamber @ 25°C (Single Position Calibration)	Using RH and Temp Probe with Indicator by comparison method	20 %RH to 90 %RH	1.1 %RH
96	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature / Relative Humidity meter with Sensor, Temperature / Relative Humidity meter with inbuilt Sensor, Datalogger, Thermohygrometer @ 25°C	Using Temperature / Humidity Generator along- with RH & Temp Probe with Indicator by comparison method.	20 %RH to 90 %RH	1.1 %RH
97	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature / Relative Humidity meter with Sensor, Temperature / Relative Humidity meter with inbuilt Sensor, Datalogger, Thermohygrometer @ 50% RH	Using Temperature/Humidity Generator alongwith RH & Temp Probe with Indicator by comparison method	10 °C to 50 °C	0.5 °C
98	THERMAL-TEMPERATURE	Bath/Oven/Chamber/Freezer/Autoclave/Incubator for non-medical purpose only (Multi-Position Calibration)	Using RTD (Pt-100) Sensors with Data-Logger (Minimum 9 Sensors) by comparison method	(-) 30 °C to 250 °C	2.0 °C
99	THERMAL-TEMPERATURE	IR Thermometer, Pyrometer, Thermal Imager	Using Standard IR Thermometer & Black Body Furnace (Emissivity 0.95) by Comparison Method	50 °C to 500 °C	2.5 °C

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100	THERMAL-TEMPERATURE	IR Thermometer, Pyrometer, Thermal Imager	Using Standard IR Thermometer & Black Body Furnace (Emissivity 0.99) by Comparison Method	500 °C to 1000 °C	3.9 °C
101	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Temperature Gauge, Dial Thermometer	Using 6½ Digit Multimeter, 4 Wire RTD Sensor & Liquid Bath By Comparison Method	(-) 30 °C to 250 °C	0.36 °C
102	THERMAL-TEMPERATURE	RTD / Thermocouples with or without Indicator / Controller / Recorder / Data logger, Temperature Transmitter with or without indicator, Digital Thermometer	Using 6½ Digit Multimeter, 4 Wire RTD Sensor, Liquid Bath by Comparison Method	(-) 30 °C to 250 °C	0.26 °C
103	THERMAL-TEMPERATURE	RTD / Thermocouples with or without Indicator / Controller / Recorder / Data logger, Temperature Transmitter with or without indicator, Digital Thermometer	Using 6½ Digit Multimeter, 4 Wire RTD Sensor & Dry Block Temp Furnace By Comparison Method	250 °C to 400 °C	0.4 °C
104	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Bath/Oven/Furnace (Single Position Calibration)	Using 6½ Digit Multimeter, R-Type Thermocouple by comparison method	250 °C to 1200 °C	2.6 °C

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105	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Bath/Oven/Furnace/ Freezer/Chamber/Incubator for non-medical purpose only (Single Position Calibration)	Using 6½ Digit Multimeter, 4 Wire RTD Sensor by comparison method	(-) 30 °C to 250 °C	0.3 °C
106	THERMAL-TEMPERATURE	Thermocouples with or without Indicator / Controller / Recorder / Data logger, Temperature Transmitter with or without indicator	Using 6½ Digit Multimeter, R-Type Thermocouple & Dry Block Temp. Furnace By Comparison Method	250 to 1200	2.6

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