



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

BANSAL CALIBRATION AND TEST LAB PRIVATE LIMITED, 49/39, SITE-IV, INDUSTRIAL AREA, SAHIBABAD, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4269

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Validity

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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)	1 Phase (1P2W) Active Energy @ 50 Hz (63.5 V to 240 V, 1 A to 120 A, 0.5 PF Lead / Lag to UPF)	Using Energy Logger by Direct Method	5 Wh to 500 Wh	1.5 % to 2.7 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase (1P2W) Active Power @ 50 Hz (63.5 V & 240 V, 10 A to 120 A, 0.5 PF Lead/Lag to UPF)	Using Energy Logger by Direct Method	1 kW to 12 kW	3.2 % to 2 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase (3P4W) Active Energy @ 50 Hz (63.5 V to 240 V, 1 A to 120 A, 0.5 PF Lead / Lag to UPF)	Using Energy Logger by Direct Method	5 Wh to 500 Wh	1.5 % to 2.7 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase (3P4W) Active Power @ 50 Hz (63.5 V & 240 V, 1 A to 120 A, 0.5 PF Lead / Lag to UPF)	Using Energy Logger by Direct Method	1 kW to 86 kW	3.2 % to 2 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 A to 10 A	0.25 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Energy Logger with I Flex Cable by Direct Method	10 A to 1000 A	0.34 % to 1.7 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 µA to 100 mA	0.14 % to 0.16 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.72 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz (240 V, 2 A & 10 A, Lead / Lag)	Using Energy Logger by Direct Method	0.2 PF to UPF	0.008 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	300 mV to 3 V	0.17 % to 0.027 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase (1P2W) Active Power @ 50 Hz (10 V to 600 V, 3 A to 20 A, 0.5 PF Lead/Lag to UPF)	Using Multi Product Calibrator by Direct Method	30 W to 12 kW	0.2 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator with Current Coil (50 turn) by Direct Method	20 A to 1000 A	1 % to 2.54 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	3 A to 20 A	0.15 % to 0.04 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 mV to 300 mV	1.38 % to 0.17 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	3 V to 300 V	0.027 %



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16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	300 V to 1000 V	0.027 % to 0.037 %
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multi Product Calibrator by Direct Method	10 μ F to 100 μ F	0.6 % to 0.8 %
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (240 V, 2 A, Lead / Lag)	Using Multi Product Calibrator by Direct Method	0.2 PF to UPF	0.008 %
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	10 V to 1000 V	0.005 % to 0.0084 %
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	1 A to 10 A	0.08 % to 0.23 %
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	10 μ A to 10 mA	0.15 % to 0.08 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	10 mA to 1 A	0.08 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe With DMM by Direct Method	1 kV to 30 kV	4.85 % to 3.54 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	1 Mohm to 100 Mohm	0.06 % to 0.92 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digital Multimeter by Direct Method	1 ohm to 10 ohm	0.5 % to 0.06 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digital Multimeter by Direct Method	10 ohm to 100 ohm	0.06 % to 0.016 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digital Multimeter by Direct Method	100 ohm to 1 kohm	0.016 % to 0.013 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 mV	0.076 % to 0.0084 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 mV to 10 V	0.0084 % to 0.005 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	3 V to 300 V	0.0018 % to 0.003 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with Current Coil (50 turn) by Direct Method	20 A to 1000 A	1 % to 2.54 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	3 A to 20 A	0.066 % to 0.57 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 1000 V, 3 A to 20 A)	Using Multi Product Calibrator by Direct Method	30 W to 20 kW	1.11 % to 0.3 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multi Product Calibrator by Direct Method	1 Mohm to 1000 Mohm	0.046 % to 1.7 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multi Product Calibrator by Direct Method	100 ohm to 1 Mohm	0.0037 % to 0.046 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multi Product Calibrator by Direct Method	1 ohm to 100 ohm	0.0056 % to 0.004 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Resistance Box by Direct Method	100 mohm to 1 kohm	0.87 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 500 V	Using Resistance Box by Direct Method	100 Mohm to 200 Gohm	5 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 300 mV	0.12 % to 0.0028 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	300 mV to 3 V	0.0028 % to 0.0018 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	300 V to 1000 V	0.003 % to 0.006 %
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT100)	Using Temperature Scanner by Direct Method	(-) 200 °C to 800 °C	0.04 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Temperature Scanner by Direct Method	600 °C to 1800 °C	1.09 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E Type	Using Temperature Scanner by Direct Method	(-) 200 °C to 1000 °C	0.28 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Temperature Scanner by Direct Method	(-) 200 °C to 1000 °C	0.33 °C



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46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Temperature Scanner by Direct Method	0 °C to 1350 °C	0.45 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Temperature Scanner by Direct Method	0 °C to 1300 °C	0.32 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Temperature Scanner by Direct Method	500 °C to 1750 °C	0.55 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Temperature Scanner by Direct Method	500 °C to 1750 °C	0.62 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Temperature Scanner by Direct Method	(-) 200 °C to 390 °C	0.44 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT100)	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.26 °C



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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Multi Product Calibrator by Direct Method	600 °C to 1800 °C	0.48 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.57 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.3 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multi Product Calibrator by Direct Method	0 °C to 1350 °C	0.42 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multi Product Calibrator by Direct Method	0 °C to 1300 °C	0.31 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multi Product Calibrator by Direct Method	500 °C to 1750 °C	0.46 °C



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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multi Product Calibrator by Direct Method	500 °C to 1750 °C	0.53 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 390 °C	0.39 °C
60	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	10 Hz to 1 MHz	0.07 % to 0.01 %
61	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Stop Watch Calibrator by Comparison Method	10 s to 90 minute	0.42 s
62	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Stop Watch Calibrator by Comparison Method	90 minute to 22.22 hr	0.42 s to 0.75 s
63	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	10 Hz to 1 MHz	0.005 % to 0.0068 %



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64	MECHANICAL-ACCELERATION AND SPEED	Centrifuge	Using Digital Tachometer by Comparison Method	100 rpm to 3000 rpm	3 %
65	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer, RPM Source by Comparison Method	> 1000 rpm to 25000 rpm	0.7 %
66	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer, RPM Source by Comparison Method	12 rpm to 1000 rpm	3 %
67	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	114 dB	0.66 %
68	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	94 dB	0.66 %
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate/Precision Angle Plate (Flatness)	Using Electronic Level Meter, Surface Plate by Comparison Method	150 mm to 300 mm	8.5 μm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate/Precision Angle Plate (Parallelism)	Using Surface Plate, Dial Gauge by Comparison Method	150 mm to 300 mm	9.02 μm



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71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate/Precision Angle Plate (Squareness)	Using Master Cylinder, Surface Plate, Gauge Block by Comparison Method	150 mm to 300 mm	8.5 µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Angle Protractor/Inclinometer L.C.: 5 minute	Using Angle Gauge Set by Comparison Method	0°-90°- 0°	5.8 minute
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Electronic) L.C.: 0.01 mm	Using Caliper Checker, Gauge Block by Comparison Method	0 to 600 mm	12.9 µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CD Gauge/PCD Gauge/Receiving Gauge/Jig & Fixture (Linear)	Using Vision Measurement Machine by Direct Method	0.5 mm to 55 mm	2.3 µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C.: 0.001 mm	Using Thickness Foils by Comparison Method	50 µm to 1000 µm	6 µm



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76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set/Angle Protractor L.C.: 1°	Using Angle Gauge Set by Comparison Method	0°-180°-0°	42.14 minute of arc
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness)	Using Surface Plate, Dial Gauge with Stand by Comparison Method	300 mm x 300 mm	6.7 µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould - Cube Type, Cylindrical (Linear)	Using Digital Caliper by Direct Method	Up to 300 mm	0.024 mm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using ULMM by Direct Method	0.5 mm to 20 mm	1.44 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier/Dial/Electronic) L.C.: 0.01 mm	Using Depth Micro Checker by Comparison Method	Up to 300 mm	8.8 µm



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81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (Analog/Digital) L.C.: 0.01 mm	Using Gauge Block Set, Depth Micro Checker, Surface Plate by Comparison Method	Up to 300 mm	4.7 µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge (Transmission Mechanism) L.C.: 0.001 mm	Using ULMM by Comparison Method	0 to 1 mm	4.2 µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.: 0.001 mm	Using Gauge Block Set by Comparison Method	0 to 12.7 mm	1.6 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.: 0.01 mm	Using Gauge Block Set by Comparison Method	0 to 50 mm	5.74 µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Dial Caliper by Direct Method	6.3 mm to 50 mm	0.021 mm



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86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square/Tri Square/Right Angle (Parallelism)	Using Dial Gauge, Surface Plate by Comparison Method	Up to 600 mm	8.61 μm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square/Tri Square/Right Angle (Squareness)	Using Master Cylinder, Slip Gauge, Surface Plate by Comparison Method	Up to 600 mm	8.64 μm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog/Digital) L.C.: 0.001 mm	Using Gauge Block, Length Bar by Comparison Method	0 to 150 mm	1.6 μm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog/Digital) L.C.: 0.01 mm	Using Long Gauge Block by Comparison Method	100 mm to 500 mm	7.35 μm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using ULMM by Direct Method	0.01 mm to 1 mm	1.49 μm



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91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Dial Caliper by Direct Method	6.3 mm to 63 mm	0.024 mm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Electronic) L.C.: 0.01 mm	Using Caliper Checker, Gauge Block, Surface Plate by Comparison Method	Up to 600 mm	8.75 µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper L.C.: 0.01 mm	Using Gauge Block Set, Gauge Block Accessories by Comparison Method	5 mm to 75 mm	8.6 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer/Stick Micrometer (Tow Point) (Analog/Digital) L.C.: 0.001 mm	Using Caliper Checker, Gauge Block Accessories by Comparison Method	Up to 500 mm	8 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C.: 0.001 mm	Using ULMM by Comparison Method	0 to 0.14 mm	1.83 µm



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96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C.: 0.002 mm	Using ULMM by Comparison Method	0 to 0.2 mm	1.9 µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C.: 0.01 mm	Using ULMM by Comparison Method	0 to 1 mm	5.96 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Cylinder (Flatness)	Using Gauge Block, Surface Plate, Master Cylinder by Comparison Method	0 to 600 mm	8.2 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Cylinder (Parallelism)	Using Dial Indicator, Surface Plate by Comparison Method	0 to 600 mm	8.2 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Cylinder (Squareness)	Using Gauge Block, Surface Plate, Master Cylinder by Comparison Method	0 to 600 mm	8.43 µm



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101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale/Steel Scale L.C.: 0.5 mm/1 mm	Using Scale & Tape Calibration Machine by Direct Method	Up to 1000 mm	17.07 μ m
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape L.C.: 1 mm	Using Scale & Tape Calibrator by Direct Method	0 to 50 m	18.51xSQRT(L/1000) μ m, where L in mm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Thread Plug Gauge/Wear Check Plug Gauge (Pitch Diameter)	Using ULMM, Thread Measuring Wire by Comparison Method	2 mm to 100 mm	1.72 μ m
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Thread Ring Gauge/Wear Check Ring Gauge (Pitch Diameter)	Using ULMM, Master Ring, Thread Measuring Probe by Comparison Method	2 mm to 100 mm	1.74 μ m
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Width Gauge	Using ULMM by Comparison Method	1 mm to 100 mm	1.7 μ m



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106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Mandrel (Diameter)	Using Dial Indicator, Gauge Block, Length Bar by Comparison Method	2 mm to 300 mm	8 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Mandrel (Run Out)	Using Dial Indicator, Surface Plate by Comparison Method	2 mm to 300 mm	8 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/Air Plug Gauge/Step Gauge	Using ULMM by Direct Method	1 mm to 100 mm	1.7 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge L.C.: 0.001 mm	Using ULMM by Comparison Method	0 to 1 mm	1.6 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Direct Method	0.6 mm to 25 mm	10 µm



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111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Standard/Reference Sphere for CMM/Steel Ball	Using Universal Length Measuring Machine by Comparison Method	1 mm to 14 mm	1.6 µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar/Sine Center (Angle)	Using Angle Gauge, Dial Gauge by Comparison Method	1° to 60°	12.32 s
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar/Sine Center (Parallelism)	Using Dial Gauge, Gauge Block by Comparison Method	100 mm to 200 mm	7.68 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar/Sine Center (Roller Distance)	Using Dial Gauge, Gauge Block by Comparison Method	100 mm to 200 mm	6 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Block by Comparison Method	3 mm to 150 mm	3.1 µm



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116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism)	Using Surface Plate, Dial Indicator by Comparison Method	150 mm to 1000 mm	8.3 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness)	Using Surface Plate, Dial Indicator, Electronic Level by Comparison Method	150 mm to 1000 mm	8.3 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Flatness)	Using Electronic Level Meter by Direct Method	300 mm to 3000 mm	$0.49 \times \text{SQRT}((L+W)/125) \mu\text{m}$, where L & W in mm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Tester (Portable) (Ra)	Using Surface Roughness Specimen by Direct Method	0.8 µm to 3.2 µm	3 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape & Scale Calibrator L.C.: 0.001 mm	Using Gauge Block, Length Bar by Comparison Method	0 to 1000 mm	7.1 µm



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121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale / Ruler (L.C.: 0.5 mm)	Using VMM by Direct Method	0 to 100 mm	58.32 μ m
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates (Length)	Using Profile Projector by Direct Method	50 mm to 100 mm	8 μ m
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using VMM by Direct Method	0.03 mm to 4 mm	5.92 μ m
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using Digital Caliper by Direct Method	4 mm to 125 mm	23.96 μ m
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foil	Using ULMM by Direct Method	0.01 mm to 2 mm	2 μ m



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126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using ULMM by Direct Method	0.17 mm to 6.35 mm	1.53 μ m
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angle)	Using Profile Projector by Direct Method	1° to 60°	12.63 s
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector by Direct Method	0.4 mm to 6 mm	8 μ m
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C.: 0.1 mm	Using Gauge Block by Comparison Method	0 to 200 mm	71 μ m
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Parallelism)	Using Test Mandrel, Dial Gauge and Surface Plate by Comparison Method	25 mm to 100 mm	7.2 μ m



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131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Squareness)	Using Gauge Block, Surface Plate, Master Cylinder by Comparison Method	25 mm to 100 mm	9.1 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Symmetricity)	Using Test Mandrel, Dial Gauge, Surface Plate by Comparison Method	25 mm to 100 mm	9.89 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge/Welding Gauge/Weld Fillet Gauge (Angle) L.C.: 1°	Using VMM by Direct Method	1° to 60°	0.6 °
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Gauge/Weld Fillet Gauge (Length) L.C.: 1 mm	Using VMM by Direct Method	0.5 mm to 60 mm	1.13 mm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using VMM by Direct Method	0 to 10 mm	6.5 µm



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136	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Angle Gauge	Using Sine bar, Gauge Block, Dial Gauge by Comparison Method	1° to 60°	21.11 s of arc
137	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Angle Graticule L.C.: 1°	Using Profile Projector by Comparison Method	0° to 180°	6 minute of arc
138	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Length Bar, Surface Plate, Dial Gauge by Comparison Method	20 mm to 600 mm	6.89 µm
139	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester L.C.: 0.001 mm	Using Gauge Block by Comparison Method	0 to 25 mm	1.5 µm
140	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Indicator (Plunger Type) L.C.: 0.1 µm	Using Gauge Block by Comparison Method	0 to 12 mm	0.5 µm
141	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Digital Height Gauge/Vertical Single Axis Measuring Machine (Squareness)	Using Master Cylinder, Dial Gauge by Comparison Method	0 to 600 mm	6.5 µm



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142	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge/Vertical Single Axis Measuring Machine L.C.: 0.1 µm	Using Length Bar and Gauge Block by Comparison Method	0 to 600 mm	6.5 µm
143	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar	Using Length Bar, Dial Indicator (L.C.: 0.1 µm), Surface Plate by Comparison Method	100 mm to 300 mm	5.52 µm
144	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar	Using Length Bar, Dial Indicator (L.C.: 0.1 µm), Surface Plate by Comparison Method	300 mm to 500 mm	6.92 µm
145	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine L.C.: 0.1 µm	Using Gauge Block by Comparison Method	0 to 100 mm	0.41 µm
146	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT Probe/Electronic Probe with DRO L.C.: 0.1 µm	Using Gauge Block by Comparison Method	0 to 2 mm	0.95 µm
147	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Metallurgical Microscope (Magnification)	Using Glass Scale, Eye Piece by Comparison Method	5 X, 10 X, 20 X, 40 X, 50 X, 60 X, 80 X, 100 X	0.50 %



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148	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Head L.C.: 0.001 mm	Using ULMM by Comparison Method	0 to 25 mm	1.71 µm
149	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Standard	Using ULMM, Gauge Block, Length Bar, Dial Gauge by Comparison Method	25 mm to 500 mm	2.3
150	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angle) L.C.: 0.01°	Using Angle Gauge by Comparison Method	1° to 90°	20.45 s
151	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Linear) L.C.: 0.001 mm	Using Glass Scale by Comparison Method	0 to 300 mm	2.56 µm
152	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Gauge Block Set, Digital Caliper by Comparison Method	5 X, 10 X, 20 X, 50 X to 100 X	1.25 %
153	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Stereo Zoom Microscope (Magnification)	Using Glass Scale, Eye Piece by Comparison Method	8 X to 80 X	0.5 %
154	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tool Maker Microscope (Travelling Only - Linear) L.C.: 0.001 mm	Using Glass Scale, Eye Piece by Comparison Method	25 mm X 25 mm	2.86 µm



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155	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Vision Measurement Machine (Y Axis - Linear) L.C.: 0.1 µm)	Using Gauge Block by Comparison Method	0 to 200 mm	0.41 µm
156	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: (Digital/Analog) Pressure Gauge, Pressure Transmitter/Pressure Switch	Using Digital Pressure Gauge, Hydraulic Comparator, DMM by Comparison Method as per DKD-R 6-1	0 to 70 bar	0.19 bar
157	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: (Digital/Analog) Pressure Gauge, Pressure Transmitter/Pressure Switch	Using Digital Pressure Gauge, Hydraulic Comparator, DMM by Comparison Method as per DKD-R 6-1	0 to 700 bar	1.65 bar
158	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: (Digital/Analog) Pressure Gauge, Pressure Transmitter/Pressure Switch	Using Digital Pressure Gauge, Pneumatic Comparator, DMM by Comparison Method as per DKD-R 6-1	0 to 10 bar	0.02 bar



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159	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: (Digital/Analog) Vacuum Gauge, Pressure Transmitter/Pressure Switch	Using Digital Vacuum Gauge, Vacuum Pump Comparator, DMM by Comparison Method as per DKD-R 6-1	(-) 0.9 bar to 0 bar	0.003 bar
160	THERMAL-TEMPERATURE	Dial/Digital Temperature Gauge	Using SPRT & Precision Temperature Scanner, Liquid bath by Comparison Method	(-) 30 °C to 125 °C	0.86 °C
161	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT & Precision Temperature Scanner, Liquid bath by Comparison Method	(-) 30 °C to 125 °C	0.82 °C
162	THERMAL-TEMPERATURE	Oven, Furnace (Non Medical Purpose only) (Multi Position Calibration)	Using N-type Thermocouple (minimum 9 nos.) with Precision Scanner by Comparison Method	400 °C to 1200 °C	2.06 °C
163	THERMAL-TEMPERATURE	RTD/Thermocouple with Indicator/Data Logger/Temperature Scanner/Temperature Recorder/Digital Thermometer	Using SPRT & Precision Temperature Scanner, Liquid bath by Comparison Method	(-) 30 °C to 125 °C	0.49 °C



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164	THERMAL-TEMPERATURE	RTD/Thermocouple with Indicator/Data Logger/Temperature Scanner/Temperature Recorder/Digital Thermometer	Using SPRT & Precision Scanner, Dry Block Calibrator by Comparison Method	125 °C to 500 °C	0.59 °C
165	THERMAL-TEMPERATURE	Temperature Indicator with Sensor/ Freezer/Oven/Environment Chamber/BOD/COD Incubator/Liquid Bath/Dry Block Furnace (Single Position Calibration) (For Non Medical Purpose only)	Using SPRT & Precision Scanner by Comparison Method	(-) 30 °C to 500 °C	0.54 °C
166	THERMAL-TEMPERATURE	Temperature Indicator with Sensor/Oven/Environment Chamber/Dry Block Furnace (For Non Medical Purpose only) (Single Position Calibration)	Using S-Type Thermocouple with Precision Scanner by Comparison Method	600 °C to 1200 °C	1.3 °C



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167	THERMAL-TEMPERATURE	Thermocouple with Indicator/Data Logger/Temperature Scanner/Temperature Recorder/Digital Thermometer	Using S-Type Thermocouple with Precision Temperature Scanner, Dry Block Calibrator by Comparison Method	800 °C to 1200 °C	1.2 °C
168	THERMAL-TEMPERATURE	Thermocouple with Indicator/Data Logger/Temperature /Scanner/Temperature Recorder/Digital Thermometer	Using S-Type Thermocouple with Precision Scanner, Dry Block Calibrator by Comparison Method	500 °C to 800 °C	1.2 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase (1P2W) Active Energy @ 50 Hz (63.5 V to 240 V, 1 A to 120 A, 0.5 PF Lead / Lag to UPF)	Using Energy Logger by Direct Method	5 Wh to 500 Wh	1.5 % to 2.7 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase (1P2W) Active Power @ 50 Hz (63.5 V & 240 V, 10 A to 120 A, 0.5 PF Lead/Lag to UPF)	Using Energy Logger by Direct Method	1 kW to 12 kW	3.2 % to 2 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase (3P4W) Active Energy @ 50 Hz (63.5 V to 240 V, 1 A to 120 A, 0.5 PF Lead / Lag to UPF)	Using Energy Logger by Direct Method	5 Wh to 500 Wh	1.5 % to 2.7 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase (3P4W) Active Power @ 50 Hz (63.5 V & 240 V, 1 A to 120 A, 0.5 PF Lead / Lag to UPF)	Using Energy Logger by Direct Method	1 kW to 86 kW	3.2 % to 2 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 A to 10 A	0.25 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Energy Logger with I Flex Cable by Direct Method	10 A to 1000 A	0.34 % to 1.7 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 µA to 100 mA	0.14 % to 0.16 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with 4½ DMM by Direct Method	1 kV to 25 kV	6.73 % to 1.95 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.72 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mV to 1000 V	0.72 % to 0.14 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz (240 V, 2 A & 10 A, Lead / Lag)	Using Energy Logger by Direct Method	0.2 PF to UPF	0.008 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	300 mV to 3 V	0.17 % to 0.027 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase (1P2W) Active Power @ 50 Hz (10 V to 600 V, 3 A to 20 A, 0.5 PF Lead/Lag to UPF)	Using Multi Product Calibrator by Direct Method	30 W to 12 kW	0.2 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator with Current Coil (50 turn) by Direct Method	20 A to 1000 A	1 % to 2.54 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	3 A to 20 A	0.15 % to 0.04 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 mV to 300 mV	1.38 % to 0.17 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	3 V to 300 V	0.027 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	300 V to 1000 V	0.027 % to 0.037 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multi Product Calibrator by Direct Method	10 μ F to 100 μ F	0.6 % to 0.8 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (240 V, 2 A, Lead / Lag)	Using Multi Product Calibrator by Direct Method	0.2 PF to UPF	0.008 %



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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	10 V to 1000 V	0.005 % to 0.0084 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	1 A to 10 A	0.08 % to 0.23 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	10 µA to 10 mA	0.15 % to 0.08 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	10 mA to 1 A	0.08 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe With DMM by Direct Method	1 kV to 30 kV	4.85 % to 3.54 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	1 Mohm to 100 Mohm	0.06 % to 0.92 %



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27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digital Multimeter by Direct Method	1 ohm to 10 ohm	0.5 % to 0.06 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digital Multimeter by Direct Method	10 ohm to 100 ohm	0.06 % to 0.016 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digital Multimeter by Direct Method	100 ohm to 1 kohm	0.016 % to 0.013 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 mV	0.076 % to 0.0084 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 mV to 10 V	0.0084 % to 0.005 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	3 V to 300 V	0.0018 % to 0.003 %



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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with Current Coil (50 turn) by Direct Method	20 A to 1000 A	1 % to 2.54 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	3 A to 20 A	0.066 % to 0.57 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 1000 V, 3 A to 20 A)	Using Multi Product Calibrator by Direct Method	30 W to 20 kW	1.11 % to 0.3 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multi Product Calibrator by Direct Method	1 Mohm to 1000 Mohm	0.046 % to 1.7 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multi Product Calibrator by Direct Method	100 ohm to 1 Mohm	0.0037 % to 0.046 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multi Product Calibrator by Direct Method	1 ohm to 100 ohm	0.0056 % to 0.004 %



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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Resistance Box by Direct Method	100 mohm to 1 kohm	0.87 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 500 V	Using Resistance Box by Direct Method	100 Mohm to 200 Gohm	5 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 300 mV	0.12 % to 0.0028 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	300 mV to 3 V	0.0028 % to 0.0018 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	300 V to 1000 V	0.003 % to 0.006 %
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT100)	Using Temperature Scanner by Direct Method	(-) 200 °C to 800 °C	0.04 °C



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45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Temperature Scanner by Direct Method	600 °C to 1800 °C	1.09 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E Type	Using Temperature Scanner by Direct Method	(-) 200 °C to 1000 °C	0.28 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Temperature Scanner by Direct Method	(-) 200 °C to 1000 °C	0.33 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Temperature Scanner by Direct Method	0 °C to 1350 °C	0.45 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Temperature Scanner by Direct Method	0 °C to 1300 °C	0.32 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Temperature Scanner by Direct Method	500 °C to 1750 °C	0.55 °C



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51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Temperature Scanner by Direct Method	500 °C to 1750 °C	0.62 °C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Temperature Scanner by Direct Method	(-) 200 °C to 390 °C	0.44 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT100)	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.26 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Multi Product Calibrator by Direct Method	600 °C to 1800 °C	0.48 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.57 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.3 °C



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57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multi Product Calibrator by Direct Method	0 °C to 1350 °C	0.42 °C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multi Product Calibrator by Direct Method	0 °C to 1300 °C	0.31 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multi Product Calibrator by Direct Method	500 °C to 1750 °C	0.46 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multi Product Calibrator by Direct Method	500 °C to 1750 °C	0.53 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 390 °C	0.39 °C
62	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	10 Hz to 1 MHz	0.07 % to 0.01 %



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63	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Stop Watch Calibrator by Comparison Method	10 s to 90 minute	0.42 s
64	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Stop Watch Calibrator by Comparison Method	90 minute to 22.22 hr	0.42 s to 0.75 s
65	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	10 Hz to 1 MHz	0.005 % to 0.0068 %
66	MECHANICAL-ACCELERATION AND SPEED	Centrifuge	Using Digital Tachometer by Comparison Method	100 rpm to 3000 rpm	3 %
67	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer, RPM Source by Comparison Method	> 1000 rpm to 25000 rpm	0.7 %
68	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer, RPM Source by Comparison Method	12 rpm to 1000 rpm	3 %



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69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould - Cube Type, Cylindrical (Linear)	Using Digital Caliper by Direct Method	Up to 300 mm	0.024 mm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Dial Caliper by Direct Method	6.3 mm to 50 mm	0.021 mm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Dial Caliper by Direct Method	6.3 mm to 63 mm	0.024 mm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism)	Using Surface Plate, Dial Indicator by Comparison Method	150 mm to 1000 mm	8.3 µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness)	Using Surface Plate, Dial Indicator, Electronic Level by Comparison Method	150 mm to 1000 mm	8.3 µm



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74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Flatness)	Using Electronic Level Meter by Direct Method	300 mm to 3000 mm	$0.49 \times \text{SQRT}((L+W)/125) \mu\text{m}$, where L & W in mm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape & Scale Calibrator L.C.: 0.001 mm	Using Gauge Block, Length Bar by Comparison Method	0 to 1000 mm	7.1 μm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using Digital Caliper by Direct Method	4 mm to 125 mm	23.96 μm
77	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Digital Height Gauge/Vertical Single Axis Measuring Machine (Squareness)	Using Master Cylinder, Dial Gauge by Comparison Method	0 to 600 mm	6.5 μm
78	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Metallurgical Microscope (Magnification)	Using Glass Scale, Eye Piece by Comparison Method	5 X, 10 X, 20 X, 40 X, 50 X, 60 X, 80 X, 100 X	0.50 %



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79	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angle) L.C.: 0.01°	Using Angle Gauge by Comparison Method	1° to 90°	20.45 s
80	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Linear) L.C.: 0.001 mm	Using Glass Scale by Comparison Method	0 to 300 mm	2.56 µm
81	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Gauge Block Set, Digital Caliper by Comparison Method	5 X, 10 X, 20 X, 50 X to 100 X	1.25 %
82	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Stereo Zoom Microscope (Magnification)	Using Glass Scale, Eye Piece by Comparison Method	8 X to 80 X	0.5 %
83	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tool Maker Microscope (Travelling Only - Linear) L.C.: 0.001 mm	Using Glass Scale, Eye Piece by Comparison Method	25 mm X 25 mm	2.86 µm
84	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Vision Measurement Machine (Angle) L.C.: 0.36 s	Using Angle Gauge by Comparison Method	1° to 360°	9.5 s
85	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Vision Measurement Machine (X Axis - Linear) L.C.: 0.1 µm	Using Glass Scale by Comparison Method	0 to 300 mm	6.3 µm



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86	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Vision Measurement Machine (Y Axis - Linear) L.C.: 0.1 µm)	Using Gauge Block by Comparison Method	0 to 200 mm	0.41 µm
87	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Reference Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506 (Part 2) : 2017 & ASTM E10 : 2018	HBW 10/3000	1.7 %
88	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Reference Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506 (Part 2) : 2017 & ASTM E10 : 2018	HBW 2.5/187.5	2.84 %
89	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Reference Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506 (Part 2) : 2017 & ASTM E10 : 2018	HBW 5/750	1.7 %
90	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vicker Hardness Tester	Using Reference Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2018, ASTM E92 : 2017	HV 0.5	3.34 %



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91	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Reference Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508 (Part 2) : 2015 & ASTM E18 : 2022	HRA	2.79 %
92	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Reference Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508 (Part 2) : 2015 & ASTM E18 : 2022	HRBW	1.79 %
93	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Reference Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508 (Part 2) : 2015 & ASTM E18 : 2022	HRC	1.3 %
94	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Reference Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020, ASTM E92 : 2017	HV 1	3.21 %



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95	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Reference Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020, ISO 6507 (Part 2) : 2018	HV 10	2.45 %
96	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Reference Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020, ASTM E92 : 2017	HV 5	5.66 %
97	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: (Digital/Analog) Pressure Gauge, Pressure Transmitter/Pressure Switch	Using Digital Pressure Gauge, Hydraulic Comparator, DMM by Comparison Method as per DKD-R 6-1	0 to 70 bar	0.19 bar
98	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: (Digital/Analog) Pressure Gauge, Pressure Transmitter/Pressure Switch	Using Digital Pressure Gauge, Hydraulic Comparator, DMM by Comparison Method as per DKD-R 6-1	0 to 700 bar	1.65 bar



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99	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: (Digital/Analog) Pressure Gauge, Pressure Transmitter/Pressure Switch	Using Digital Pressure Gauge, Pneumatic Comparator, DMM by Comparison Method as per DKD-R 6-1	0 to 10 bar	0.02 bar
100	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: (Digital/Analog) Vacuum Gauge, Pressure Transmitter/Pressure Switch	Using Digital Vacuum Gauge, Vacuum Pump Comparator, DMM by Comparison Method as per DKD-R 6-1	(-) 0.9 bar to 0 bar	0.003 bar
101	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression Testing Machine, Universal Testing Machine - Force Verification (Compression)	Using Force Load Cell (Class 0.5 & Class 1) as per IS 1828 (Part 1) : 2022, ISO 7500 (Part 2) : 2006 & ASTM E-4 : 2021	1 kN to 2000 KN	3.08 %
102	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile Testing Machine, Universal Testing Machine - Force Verification (Tension)	Using Force Load Cell (Class 0.5 & Class 1) by Indirect Method as per IS 1828 (Part 1) : 2022, ISO 7500 (Part 2) : 2017	1 kN to 200 KN	3.45 %



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103	THERMAL-TEMPERATURE	Dial/Digital Temperature Gauge	Using SPRT & Precision Temperature Scanner, Liquid bath by Comparison Method	(-) 30 °C to 125 °C	0.86 °C
104	THERMAL-TEMPERATURE	Freezers, Oven, Chamber, Liquid Bath, Furnace, Incubator/Autoclave (Non Medical Purpose Only) (Multi Position Calibration)	Using RTD (minimum 9 nos) with Precision Scanner by Comparison Method	(-) 40 °C to 400 °C	1.07 °C
105	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT & Precision Temperature Scanner, Liquid bath by Comparison Method	(-) 30 °C to 125 °C	0.82 °C
106	THERMAL-TEMPERATURE	Oven, Furnace (Non Medical Purpose only) (Multi Position Calibration)	Using N-type Thermocouple (minimum 9 nos.) with Precision Scanner by Comparison Method	400 °C to 1200 °C	2.06 °C
107	THERMAL-TEMPERATURE	RTD/Thermocouple with Indicator/Data Logger/Temperature Scanner/Temperature Recorder/Digital Thermometer	Using SPRT & Precision Temperature Scanner, Liquid bath by Comparison Method	(-) 30 °C to 125 °C	0.49 °C



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108	THERMAL-TEMPERATURE	RTD/Thermocouple with Indicator/Data Logger/Temperature Scanner/Temperature Recorder/Digital Thermometer	Using SPRT & Precision Scanner, Dry Block Calibrator by Comparison Method	125 °C to 500 °C	0.59 °C
109	THERMAL-TEMPERATURE	Temperature Indicator with Sensor/ Freezer/Oven/Environment Chamber/BOD/COD Incubator/Liquid Bath/Dry Block Furnace (Single Position Calibration) (For Non Medical Purpose only)	Using SPRT & Precision Scanner by Comparison Method	(-) 30 °C to 500 °C	0.54 °C
110	THERMAL-TEMPERATURE	Temperature Indicator with Sensor/Oven/Environment Chamber/Dry Block Furnace (For Non Medical Purpose only) (Single Position Calibration)	Using S-Type Thermocouple with Precision Scanner by Comparison Method	600 °C to 1200 °C	1.3 °C



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111	THERMAL-TEMPERATURE	Thermocouple with Indicator/Data Logger/Temperature Scanner/Temperature Recorder/Digital Thermometer	Using S-Type Thermocouple with Precision Temperature Scanner, Dry Block Calibrator by Comparison Method	800 °C to 1200 °C	1.2 °C
112	THERMAL-TEMPERATURE	Thermocouple with Indicator/Data Logger/Temperature /Scanner/Temperature Recorder/Digital Thermometer	Using S-Type Thermocouple with Precision Scanner, Dry Block Calibrator by Comparison Method	500 °C to 800 °C	1.2 °C

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