



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

YOUNG ENGG AND CALIBRATION SERVICES PVT LTD, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2221

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Validity

23/04/2020 to 22/04/2022

Last Amended on

07/07/2020

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current 45 Hz to 1 kHz	Using 8 ½ DMM (8508 A) by Direct Method	1 mA to 1 A	0.06 % to 0.1 %
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current 45Hz to 1 kHz	Using 8 ½ DMM (8508 A) by Direct Method	1 A to 20 A	0.10 % to 0.11 %
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current 45Hz to 1 kHz	Using 8 ½ DMM (8508 A) by Direct Method	10 µA to 1 mA	0.27 % to 0.06 %
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage 45Hz to 10 kHz	Using 8 ½ DMM (8508 A) by Direct Method	1 mV to 1 V	0.52 % to 0.013 %



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5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage 45Hz to 10 kHz	Using 8 ½ DMM (8508 A) by Direct Method	1 V to 1000 V	0.013 % to 0.015 %
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Energy 1 Phase	Using Accucheck LT+ by Comparison Method	50 Hz, 230 V, 5 A, UPF	0.62%
7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Energy 3 Phase	Using Accucheck HT+ by Comparison Method	50 Hz, 110 V, 5 A, UPF	0.34%
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current	Calibrator MFC-5522A by Direct Method	1 A to 20 A	0.076 % to 0.17 %
9	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current	Calibrator MFC-5522A by Direct Method	1000 µA to 1 A	0.14 % to 0.076 %



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10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current	Calibrator MFC-5522A by Direct method	30 μ A to 1000 μ A	0.54%
11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Power (Single Phase) 50Hz	Using Multifunction MFC 5522A By Direct Method	120 V to 240 V, 0.01 A to	0.1 % to 0.34%
12	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Power (Three Phase) 50 Hz	Using 3 Phase Power Analyzer by Comparison Method	80 V to 480 V, 0.05 A to	0.26%
13	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage	Calibrator MFC-5522A by Direct / Comparison Method	1 mV to 1 V	0.72 % to 0.025 %
14	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage	Calibrator MFC-5522A by Direct Method	1 V to 1000 V	0.014 % to 0.036 %
15	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance	Using Multifunction Calibrator MFC-5522A By Direct Method	0.22 nF to 1 μ F	5.92 % to 0.42 %



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16	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Inductance	Using Decade Inductance Box By Direct Method	100 μ H to 1000 mH	3%
17	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Oscilloscope - Amplitude	Using Multifunction MFC 5502A with scope Option By Direct Method	1 mV AC to 100 V AC	3.5 % to 0.15 %
18	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Oscilloscope - Amplitude	Using Multifunction MFC 5502A with scope Option By Direct Method	1 mV DC to 100 V DC	3.5 % to 0.07 %
19	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Oscilloscope - Bandwidth	Using Multifunction MFC 5502A with scope Option By Direct Method	Up to 600 MHz	5.02 % to 5.02 %
20	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Oscilloscope - Time Base 1kHz	Using Multifunction MFC 5502A with scope Option By Direct Method	2 ns to 5 s	0.36 % to 0.66 %
21	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Phase Angle	Using Multifunction Calibrator MFC-5522A by Direct Method	0 ° to 90 °	0.15°



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22	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Power Factor	Using Multifunction Calibrator MFC-5522A by Direct Method	0.2 PF to unity (Lead & Lag)	0.002 PF to 0.001 PF
23	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Tan Delta	Using Standard Capacitor with Dissipation Box by Direct Method	50Hz, Upto 5kV, 0.004 to 50Hz, Upto 5kV, 0.15	0.00023 % to 0.0017 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ DMM (8508 A) by Direct Method	1 µA to 100 mA	0.082 % to 0.0053 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ DMM (8508 A) by Direct Method	100 mA to 20 A	0.005 % to 0.046 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Standard Shunt, V/I Method	20 A to 2000 A	0.17%
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ DMM (8508 A) by Direct Method	1 V to 1000 V	0.0007%



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ DMM (8508 A) by Direct Method	100 µV to 100 mV	0.153 % to 0.0017 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ DMM (8508 A) by Direct Method	100 mV to 1 V	0.0017%
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8 ½ DMM (8508 A) by Direct Method	0.01 Ohm to 1 kOhm	0.006%
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8 ½ DMM (8508 A) by Direct Method	1 k ohm to 1 M ohm	0.001 % to 0.002 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8 ½ DMM (8508 A) by Direct Method	1 M ohm to 20 G ohm	0.002 % to 0.15 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using source MFC 5522A & 8 ½ DMM (8508 A) by V/I Method	10 µ ohm to 100 m ohm	0.15 % to 0.046 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Capacitance	Using Multifunction Calibrator MFC-5522A By Direct Method	1 μ F to 109 μ F	0.42 % to 0.66 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator MFC-5522A by Direct Method	1 mA to 100 mA	0.05 % to 0.005 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator MFC-5522A by Direct Method	100 mA to 20 A	0.015 % to 0.12 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using 50 Turn Coil With MFC 5522A (Fluke) by Direct Method	20 A to 1000 A	0.5 % to 0.5 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power	Using Multifunction Calibrator MFC-5522A by Direct Method	10 V to 1000 V, 1 A to 20	0.034 % to 0.083 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator MFC-5522A by Direct method	100 mV to 1000 mV	0.004 % to 0.0017 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator MFC-5522A by Direct method	1000 mV to 1000 V	0.0017 % to 0.0026 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance	Using Decade Resistance Box by Direct Method	1 G ohm to 100 G ohm	2.5 % to 6.0 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low resistance	Using Decade Resistance Box by Direct Method	0.1 ohm to 1 ohm	1.3 % to 0.031 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	Using Decade Resistance Box by Direct Method	1 m ohm	0.13%
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	Using Decade Resistance Box by Direct Method	10 μ ohm to	0.73%
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	Using Decade Resistance Box by Direct Method	10 m ohm to	0.13%



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	Using Decade Resistance Box by Direct Method	100 μ ohm	0.17%
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	Using Decade Resistance Box by Direct Method	100 m ohm to	0.13%
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	Using Decade Resistance Box by Direct Method	50 μ ohm	0.33%
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	Using Decade Resistance Box by Direct Method	500 μ ohm to	0.16%
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Calibrator MFC-5522A by Direct method .	1 ohm to 1000 ohm	0.12 % to 0.003 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Calibrator MFC-5522A by Direct Method	1000 k ohm to 1 G ohm	0.004 % to 1.7 %



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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Calibrator MFC-5522A by Direct Method	1000 ohm to 1000 k ohm	0.003 % to 0.004 %
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Controller/Indicator/ Calibrator/Recorder) J/K/N/T Type	8 ½ DMM (8508 A) Fluke , ITS-90 (mV & O Method) by Direct Method	-200 °C to 1200 °C	0.046°C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Controller/Indicator/ Calibrator/Recorder) RTD	8 ½ DMM (8508 A) Fluke , ITS-90 (mV & O Method) by Direct Method	-200 °C to 800 °C	0.016°C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation\$ (Controller/Indicator/ Calibrator/Recorder) R/S/B Type	8 ½ DMM (8508 A) Fluke , ITS-90 (mV & O Method) by Direct Method	20 °C to 1700 °C	0.11°C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation# (Temperature Indicator/ Controller/ Recorder/ Calibrator/ Transmitter) J -Type	Using Multifunction Calibrator MFC-5522A by Direct Method (mV & Ohms Input)	-200 °C to 1200 °C	0.049°C



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57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation# (Temperature Indicator/ Controller/ Recorder/ Calibrator/ Transmitter) K -Type	Using Multifunction Calibrator MFC-5522A by Direct Method (mV & Ohms Input)	-200 °C to 1300 °C	0.07°C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation# (Temperature Indicator/ Controller/ Recorder/ Calibrator/ Transmitter) R/S/B -Type	Using Multifunction Calibrator MFC-5522A by Direct Method (mV & Ohms Input)	20 °C to 1700 °C	0.23°C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation# (Temperature Indicator/ Controller/ Recorder/ Calibrator/ Transmitter) RTD	Using Multifunction Calibrator MFC-5522A by Direct Method (mV & Ohms Input)	-200 °C to 660 °C	0.078%
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation# (Temperature Indicator/ Controller/ Recorder/ Calibrator/ Transmitter) T/ N -Type	Using Multifunction Calibrator MFC-5522A by Direct Method (mV & Ohms Input)	-200 °C to 1300 °C	0.06°C
61	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital & Analogue Timer/ Time Totaliser / Stop Watch	Using Digital Time Calibrator by Comparison Method	2.5 Hr to 24 Hr	1.5 sec to 6.1 sec



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62	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital & Analogue Timer/ Time Totaliser / Stop Watch	Using Digital Time Calibrator by Comparison Method	200 m sec to 2.5 Hr	3.8 m sec to 0.5 sec
63	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 8 ½ DMM (8508 A) by Direct Method	10 Hz to 1 MHz	0.058 % to 0.001 %
64	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Calibrator MFC-5522A by Direct Method	1 MHz to 330 MHz	0.0007 % to 0.0012 %
65	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Calibrator MFC-5522A by Direct Method	10 Hz to 1 MHz	0.0007 % to
66	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Calibrator MFC-5522A by Direct / Comparison Method	3 Hz to 10 Hz	0.003 % to 0.0007 %
67	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer (SANAS TR 54-01)	10000 to 40000 rpm	5.5rpm



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68	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer (SANAS TR 54-01)	40 to 500 rpm	0.53rpm
69	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer (SANAS TR 54-01)	500 to 10000 rpm	2rpm
70	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Calibrator as per IEC 61672	114 dB	0.26dB
71	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Calibrator as per IEC 61672	94 dB	0.26dB
72	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer / Sp. Gr. Hydrometer / Sikes Hydrometer / Alcoholmeter	Using Hydrometer by Comparison Method	0.6 g/ml to 1.0 g/ml	0.0008g/ml
73	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer / Sp. Gr. Hydrometer / Sikes Hydrometer / Alcoholmeter / Brix Hydrometer / Soil Hydrometer / Lactometer / Urinometer	Using Hydrometer by Comparison Method	1.0 sp. gr. to 2.0 sp. gr.	0.002sp. gr.
74	MECHANICAL-DENSITY AND VISCOSITY	Ford / Flow Cup	Using standard Newtonian Liquid viscometer oil as per ASTM 1200D	B1 to B6	0.71%



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75	MECHANICAL-DENSITY AND VISCOSITY	Glass Capillary Viscometer (Direct / Reverse Flow) Measurement of Viscometer Constant	Using Standard Viscometer Tube & Standard Newtonian Liquid (Direct & Reverse Flow procedure) as per ASTM D446	0.002 cSt/s to 0.01 cSt/s	0.25%
76	MECHANICAL-DENSITY AND VISCOSITY	Glass Capillary Viscometer (Direct / Reverse Flow) Measurement of Viscometer Constant	Using Standard Viscometer Tube & Standard Newtonian Liquid (Direct & Reverse Flow procedure) as per ASTM D446	0.01 cSt/s to 0.1 cSt/s	0.35%
77	MECHANICAL-DENSITY AND VISCOSITY	Glass Capillary Viscometer (Direct / Reverse Flow) Measurement of Viscometer Constant	Using Standard Viscometer Tube & Standard Newtonian Liquid (Direct & Reverse Flow procedure) as per ASTM D446	0.1 cSt/s to 2.0 cSt/s	0.40%
78	MECHANICAL-DENSITY AND VISCOSITY	Glass Capillary Viscometer (Direct / Reverse Flow) Measurement of Viscometer Constant	Using Standard Viscometer Tube & Standard Newtonian Liquid (Direct & Reverse Flow procedure) as per ASTM D446	2.0 cSt/s to 20.0 cSt/s	0.45%



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79	MECHANICAL-DENSITY AND VISCOSITY	Kinematic Viscosity of Newtonian Liquid	Using Glass Capillary Viscometer / CRM as per ASTM D446 / ISO 3104	1 cSt to 10 cSt	0.30%
80	MECHANICAL-DENSITY AND VISCOSITY	Kinematic Viscosity of Newtonian Liquid	Using Glass Capillary Viscometer / CRM as per ASTM D446 / ISO 3104	10 cSt to 100 cSt	0.35%
81	MECHANICAL-DENSITY AND VISCOSITY	Kinematic Viscosity of Newtonian Liquid	Using Glass Capillary Viscometer / CRM as per ASTM D446 / ISO 3104	100 cSt to 1000 cSt	0.41%
82	MECHANICAL-DENSITY AND VISCOSITY	Kinematic Viscosity of Newtonian Liquid	Using Glass Capillary Viscometer / CRM as per ASTM D446 / ISO 3104	1000 to 10000 cSt	0.45%
83	MECHANICAL-DENSITY AND VISCOSITY	Rotational Viscometer	Using Standard Newtonian Liquid as per ASTM D4016/ISO 2555	10 cP to 10000 cP	1.1%
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Graticule / Angular Template (LC-1 min of arc)	Using Profile Projector	0 ° to 360 °	90sec of Arc



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Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PVT LTD, KAMARDANGA ROAD,
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85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Flatness, Parallelism, Squareness)	Using Master Cylinder & Electronic Comparator	Up to 200 mm	6.0µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angular Protractor / Bevel Protractor / Combination Set, Least Count : 1 min of arc	Using Angle Gauge Block / Profile Projector	0 ° to 180 °	35sec of arc
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angular Protractor / Bevel Protractor / Combination Set, Least Count : 5 min of arc	Using Angle Gauge Block / Profile Projector	0 ° to 180 °	4.0min of arc
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angular Scale (LC - 1 min of arc)	Using Profile Projector	0 ° to 360 °	7.0min of Arc
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Brinell Microscope, Least Count : 0.01 mm	Using Glass Scale	0 to 10 mm	2.0µm



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90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Circumference Tape / Diameter Tape / Pi Tape (LC-0.01 mm)	Using Scale & Tape Calibrator (LC - 0.01 mm)	0 to 2000 mm	183.2 sqrt L (where L is in m) μm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Clinometer, Least Count : 1 min of Arc	Using Sine Bar, Gauge Block & Master Cylinder	0 ° to 180 °	1Min of arc
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge, Least Count : 0.1 μm	Using Foil	0 to 100 μm	2.5 μm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge, Least Count : 1 μm	Using Foil	10 to 660 μm	2.5 μm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge, Least Count : 1 μm	Using Foil	660 μm to 2000 μm	3.2 μm



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95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of Base)	Using Electronic Comparator & Electronic Level, Tilting Table	Up to 300 mm	5.2µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Contraction Scale	Using Scale & Tape Calibrator	0 to 1000 mm	117 sqrt L (where L is in m) µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Digimatic Caliper	Up to 150 mm	26µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using Gauge Blocks, Electronic Comparator / ULM	0.1 to 20 mm	1µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master	Using Gauge Blocks, Electronic Comparator / ULM	3 to 100 mm	1.5µm



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100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge, Least Count 0.01 mm	Using Gauge Block Set, Long Slip Gauge	0 to 300 mm	9.0µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge, Least Count 0.01 mm	Using Gauge Block Set, Long Slip Gauge	300 to 600 mm	11.0µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer, Least Count 0.001 mm	Using Gauge Block, Long Slip Gauge	0 to 150 mm	2.4µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer, Least Count 0.001 mm	Using Gauge Block, Long Slip Gauge	150 to 300 mm	4.5µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Bore Gauge (Transmission Movement), Least Count 0.001 mm	Using Dial Calibration Tester / ULM	0 to 2 mm	1.6µm



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105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Indicator (Lever Type), Least Count 0.001 mm	Using Dial Calibration Tester/ ULM	0 to 2 mm	1.6µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Indicator (Plunger Type), Least Count 0.0005 mm	Using Dial Calibration Tester / ULM	0 to 1 mm	1.22µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Indicator (Plunger Type), Least Count 0.001 mm	Using Dial Calibration Tester / ULM	0 to 25 mm	1.4µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Indicator (Plunger Type), Least Count 0.001 mm	Using Dial Calibration Tester / ULM	25 to 50 mm	2.0µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Thickness Gauge, Least Count : 0.001 mm	Using Gauge Blocks	0 to 10 mm	1µm



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110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Thickness Gauge, Least Count : 0.001 mm	Using Gauge Blocks	10 to 50 mm	1.1µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester, Least Count : 0.0001 mm	Using Gauge Block & Electronic Comparator	0 to 25 mm	1.0µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Diamond Indenter	Using Profile Projector	Up to 136 °	90sec of arc
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge (Height & Gap)	Using Digital Caliper	Up to 100 mm	26µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge (Pin Diameter)	Using Digimatic External Micrometer	1 to 6 mm	5.0µm



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115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square (Straightness of blade edge, Parallelism of blade & stock, Squareness)	Using Master Cylinder & Electronic Comparator	Up to 200 mm	6.0µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer, Least Count : 0.001 mm	Using Gauge Block, Electronic Comparator & Digimatic Caliper	Up to 150 mm	7.0µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External / Internal Dial / Digimatic Caliper, Least Count : 0.01 mm	Using Gauge Blocks	0 mm to 100 mm	5.0µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer, Least Count 0.0001 mm	Using Gauge Block Set, Long Slip Gauge	0 mm to 25 mm	0.5µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer, Least Count 0.001 mm	Using Gauge Block Set, Long Slip Gauge	0 mm to 25 mm	1.3µm



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120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer, Least Count 0.001 mm	Using Gauge Block Set, Long Slip Gauge	150 mm to 300 mm	4.5µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer, Least Count 0.001 mm	Using Gauge Block Set, Long Slip Gauge	25 mm to 150 mm	2.2µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer, Least Count 0.001 mm	Using Gauge Block Set, Long Slip Gauge	300 mm to 600 mm	8.8µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic Comparator	0.03 mm to 1 mm	0.7µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Digital Caliper	1 mm to 100 mm	27.6µm



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125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foil	Using Slip Gauge & Electronic Comparator	2 mm to 5 mm	4.8µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foil	Using Electronic Comparator	Up to 2 mm	2.0µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gear Tooth Vernier, Least Count : 0.02 mm	Using Gauge Blocks	0 mm to 50 mm	13.0µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Micrometer, Least Count 0.01 mm	Using Gauge Block	0 mm to 100 mm	8.0µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge / Film Applicator	Using Electronic Comparator	Up to 1 mm	2.3µm



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130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge, Least Count 0.01 mm	Using Gauge Block, Long Slip Gauge and Surface Plate	0 mm to 300 mm	8.3µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge, Least Count 0.01 mm	Using Gauge Block Long Slip Gauge and Surface Plate	300 mm to 600 mm	11.0µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge, Least Count 0.01 mm	Using Gauge Block Long Slip Gauge and Surface Plate	600 mm to 1000 mm	16.0µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer, Least Count 0.001 mm	Using Gauge Block & Electronic Comparator / ULM	5 mm to 50 mm	2.0µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer, Least Count 0.001 mm	Using Gauge Block & Electronic Comparator / ULM	50 mm to 350 mm	5.3µm



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135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Gauge / Template	Using Profile Projector	Up to 250 mm	6.0µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT / Probe With D.R.O / Electronic Comparator, Least Count : 0.1 µm	Using Gauge Blocks	0 to 10 mm	0.5µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT / Probe With D.R.O / Electronic Comparator, Least Count : 0.1 µm	Using Gauge Blocks	10 mm to 25 mm	0.6µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT / Probe With D.R.O / Electronic Comparator, Least Count : 0.1 µm	Using Gauge Blocks	25 to 100 mm	1.0µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (LC-0.1 mm)	Using Scale & Tape Calibrator	0 to 2000 mm	118 sqrt L (where L is in m) µm



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140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (LC-0.5mm)	Using Scale & Tape Calibrator	0 to 200 m	117 sqrt L (where L is in m) µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head / Drum, Least Count : 0.0001 mm	Using Gauge Block & Electronic Comparator	0 mm to 25 mm	1.0µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod / Setting Rod	Using Gauge Blocks, Electronic Comparator / ULM	25 mm to 275 mm	4.0µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod / Setting Rod	Using Gauge Blocks, Electronic Comparator / ULM	275 mm to 600 mm	8.5µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper, Least Count : 0.1 mm	Using Gauge Blocks	0 to 100 mm	57.8µm



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145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Master / Setting Ring Gauge	Using ULM & Setting Ring	200 mm to 300 mm	2.0µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Master / Setting Ring Gauge	Using ULM & Setting Ring	25 mm to 200 mm	2.0µm
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Master / Setting Ring Gauge	Using ULM & Setting Ring	3 mm to 25 mm	1.0µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Master / Setting Ring Gauge	Using ULM & Setting Ring	300 mm to 400 mm	3.0µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Block & Electronic Comparator / ULM	1 mm to 25 mm	1.2µm



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150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Block & Electronic Comparator / ULM	100 mm to 200 mm	3.0µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Block & Electronic Comparator / ULM	200 mm to 400 mm	4.0µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Block & Electronic Comparator / ULM	25 mm to 100 mm	1.7µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge / Profile Gauge	Using Profile Projector	0.25 mm to 40 mm	40.0µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale & Tape Calibrator, Least Count : 0.001 mm	Using Gauge Block, Long Slip Gauge	0 to 1000 mm	7.8µm



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155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar	Using Gauge Block, Electronic Comparator & Angle Gauge Block	Up ° to 45 °	10sec of Arc
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Dial Snap Gauge / Adjustable Snap Gauge	Using ULM	100 mm to 300 mm	3.0µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Dial Snap Gauge / Adjustable Snap Gauge	Using ULM	3 mm to 100 mm	2.0µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level, Least Count : 10 µm/m	Using Electronic Level & Tilting Table	Up to 10 mm/m	6µm/m
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Ball (For Diameter)	Using Universal Length Measuring Machine	Up to 50 mm	1.2µm



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160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step Gauge	Using Gauge Block & Electronic Comparator	0.5 mm to 100 mm	1.7µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness)	Using Precision Electronic Level	Up to 3000 mm	1.6µm/m
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Precision Level	Up to (4000 X 2000) mm	0.6 sqrt L+W/125 Where 'L' is Length & 'W' is Width in mmµm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge	Using ULM, Gauge Block & Standard Pin	Up to 200 mm	1.5µm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge	Using ULM, Gauge Block & Ruby Probe	6 mm to 200 mm	1.5µm



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165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Profile Projector	Up to 15 mm	30.0µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge	Using ULM, Thread Measuring Wire, Gauge Block	100 mm to 150 mm	4.5µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge	Using ULM, Thread Measuring Wire, Gauge Block	3 mm to 100 mm	3.0µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector	0.032 mm to 4 mm	6.0µm
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digimatic Caliper	4 mm to 125 mm	9.0µm



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170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Gauge Blocks, Electronic Comparator / ULM	0.17 mm to 6.35 mm	0.7µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angle)	Using Profile Projector	55 ° to 60 °	62sec of Arc
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector	0.2 mm to 7 mm	5.0µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Diameter & Effective Diameter)	Using ULM, Thread Measuring Wire, Gauge Block	100 mm to 200 mm	4.5µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Diameter & Effective Diameter)	Using ULM, Thread Measuring Wire, Gauge Block	4 mm to 100 mm	3.0µm



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175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Minor Diameter & Effective Diameter)	Using ULM, Ruby Probe & Setting Ring Gauge	6 mm to 100 mm	3.0µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Anvil Internal Micrometer, Least Count 0.001 mm	Using ULM, Cylindrical Setting Master	0 to 100 mm	4.0µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Travelling Microscope, Least Count : 0.01 mm	Using Glass Scale	Up to 220 mm	7.2µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge, Least Count : 0.01 mm	Using Gauge Block	Up to 100 mm	9.5µm
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block (Angle)	Using Profile Projector	Up to 90 °	1.0min of Arc



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180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block (Flatness, Parallelism, Squareness, Symmetry)	Using Electronic Comparator, Gauge Block & Mandrel	Up to 200 mm	4.0µm
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digimatic Caliper, Least Count 0.005 mm	Using Gauge Block, Long Slip Gauge	0 to 300 mm	5.0µm
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digimatic Caliper, Least Count 0.01 mm	Using Gauge Block, Long Slip Gauge	0 mm to 300 mm	8.0µm
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digimatic Caliper, Least Count 0.01 mm	Using Gauge Block, Long Slip Gauge	300 mm to 600 mm	11.0µm
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digimatic Caliper, Least Count 0.01 mm	Using Gauge Block, Long Slip Gauge	600 mm to 1000 mm	16.0µm



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185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Gauge (Angular Scale), Least Count : 30 sec of Arc	Using Profile Projector	Up ° to 90 °	1Min of Arc
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Gauge (Linear Scale), Least Count : 0.001 mm	Using Profile Projector, Slip Gauge	Up to 50 mm	9.0µm
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness Gauge	Using Profile Projector	Up to 2 mm	9.0µm
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector	0.19 mm to 10 mm	4.7µm
189	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular Scale), Least Count : 1 sec of Arc	Using Angle Gauge Block	0 ° to 360 ° min of Arc	1.0min of Arc



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190	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Linear Scale), Least Count : 0.001 mm	Using Glass Scale	Up to 300 mm	3.0µm
191	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Glass Scale & Digimatic Caliper	10 X to 100 X	0.20%
192	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine, Least Count : 0.0001 mm	Using Slip Gauge, Long Slip Gauge	100 mm to 200 mm	1.25µm
193	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine, Least Count : 0.0001 mm	Using Slip Gauge, Long Slip Gauge	200 mm to 600 mm	3.0µm
194	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine, Least Count : 0.0001 mm	Using Slip Gauge, Long Slip Gauge	Up to 100 mm	0.85µm
195	MECHANICAL-DUROMETER	Rubber Hardness Tester (Shore-A Hardness Tester)	Using Digital Balance and fixture as per ASTM D2240 / ISO 18898	0 Shore-A to 100 Shore-A	1.6Shore-A
196	MECHANICAL-DUROMETER	Rubber Hardness Tester (Shore-D Hardness Tester)	Using Digital Balance and fixture as per ASTM D2240 / ISO 18898	0 Shore-D to 100 Shore-D	1.6Shore-D



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197	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Hydraulic Pressure Dead Weight Tester	Using Dead Weight Tester by Cross Float Method	1 bar to 20 bar	50 ppm of rdg
198	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Hydraulic Pressure Dead Weight Tester	Using Dead Weight Tester by Cross Float Method	20 bar to 1200 bar	110 ppm of rdg
199	MECHANICAL-PRESSURE INDICATING DEVICES	Barometer / Absolute Pressure Indicator	Using Pressure Calibrator as per Direct Comparison Method	0 to 2000 mbar (abs)	0.029%
200	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Pressure Gauge / Pressure Switch / Pressure Transducer / Pressure Transmitter / Pressure Calibrator	Using Pressure Calibrator as per Direct Comparison Method DKD R-6-1	0 to 70 bar	0.072% of rdg
201	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Pressure Gauge / Pressure Switch / Pressure Transducer / Pressure Transmitter / Pressure Calibrator	Using Pressure Calibrator as per Direct Comparison Method DKD R-6-1	0 to 700 bar	0.074% of rdg



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202	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Pressure Gauge / Pressure Switch / Pressure Transducer / Pressure Transmitter / Pressure Calibrator	Using Dead Weight Tester as per Direct Comparison Method DKD R-6-1	1 bar to 20 bar	0.14% of rdg
203	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Pressure Gauge / Pressure Switch / Pressure Transducer / Pressure Transmitter / Pressure Calibrator	Using Dead Weight Tester as per Direct Comparison Method DKD R-6-1	20 bar to 700 bar	115 ppm of rdg
204	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Vacuum Gauge/ Vacuum Switch/ Vacuum Transducer/ Vacuum Transmitter/ Vacuum Calibrator	Using Pressure Calibrator as per Direct Comparison Method	-0.95 bar to 0	0.34% of rdg
205	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Magnehellic Gauge / Manometer / Transmitter / Transducer	Using Pressure Calibrator as per Direct Comparison Method	0 to 7 kPa	0.13% of rdg
206	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Manometer / Sphygmo Manometer	Using Pressure Calibrator as per Direct Comparison Method	0 to 2.0 bar	0.14% of rdg



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207	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Pressure Gauge / Pressure Switch / Pressure Transducer / Pressure Transmitter/ Pressure Calibrator	Using Pressure Calibrator as per Direct Comparison Method DKD R-6-1	0 to 2 bar	0.14% of rdg
208	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Pressure Gauge / Pressure Switch / Pressure Transducer / Pressure Transmitter/ Pressure Calibrator	Using Pressure Calibrator as per Direct Comparison Method DKD R-6-1	0 to 35 bar	0.14% of rdg
209	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I class B & C, Type II class A & B)	Using Torque Transducer & Indicator with Torque Wrench Calibrator as per ISO 6789:2017	2 Nm to 200 Nm	2.3%
210	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I class B & C, Type II class A & B)	Using Torque Transducer & Indicator with Torque Wrench Calibrator as per ISO 6789:2017	200 Nm to 2000 Nm	1.8%



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211	MECHANICAL-VOLUME	Burette	Using E1 Class Standard Weights with Electronic Balance up to 220 g of d = 0.01 mg as per ISO 4787 & ISO/TR 20461	1 ml to 100 ml	0.038 μ l
212	MECHANICAL-VOLUME	Content Type Volumetric Measure	Using E1 Class Standard Weights with Electronic Balance up to 220 g of d = 0.01 mg as per ISO 4787 & ISO/TR 20461	1 ml to 100 ml	0.038 μ l
213	MECHANICAL-VOLUME	Content Type Volumetric Measure	Using F1 Class Standard Weights with Electronic Balance up to 3200 g of d = 0.01 g as per ISO 4787 & ISO/TR 20461	100 ml to 2000 ml	10.0 μ l
214	MECHANICAL-VOLUME	Micro Pipette / Micro Syringe / Dispenser	Using Electronic Balance up to 6.1 g of d = 0.001 mg as per ISO 8655-6 & ISO/TR 20461	1 μ l to 1000 μ l	0.009 μ l to 0.011 μ l
215	MECHANICAL-VOLUME	Micro Pipette / Micro Syringe / Dispenser	Using Electronic Balance up to 6.1 g of d = 0.001 mg as per ISO 8655-6 & ISO/TR 20461	1000 μ l to 5000 μ l	0.014 μ l



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216	MECHANICAL-VOLUME	Micro Pipette / Micro Syringe / Dispenser	Using Electronic Balance up to 220 g of d = 0.01 mg as per ISO 8655-6 & ISO/TR 20461	5000 µl to 10000 µl	0.02µl
217	MECHANICAL-VOLUME	Pipette (Graduated / Non Graduated)	Using E1 Class Standard Weights with Electronic Balance up to 220 g of d = 0.01 mg as per ISO 4787 & ISO/TR 20461	0.1 ml to 100 ml	0.038µl
218	MECHANICAL-WEIGHING SCALE AND BALANCE	Moisture Balance	Using Standard Weight	0 to 100 %	0.14%
219	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance Using F1 & F2 Class Weight For calibration of Class III Weighing Balance and coarser, Readability : 10 g	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	30 kg to 100 kg	30g
220	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance Using F1 Class Weight For calibration of Class III Weighing Balance and coarser, Readability : 0.5 g	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	Up to 5 kg	3.5g



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221	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance Using F1 Class Weight For calibration of Class III Weighing Balance and coarser,, Readability : 5 g	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	5 kg to 30 kg	7.02g
222	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using E1 & F1 Class Weight For calibration of Class I Weighing Balance and coarser, Readability : 1 mg	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	220 g to 5 kg	0.008g
223	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using E1 & F1 Class Weight For calibration of Class II Weighing Balance and coarser, Readability : 0.1 g	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	5 kg to 20 kg	0.015g
224	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using E1 & F1 Class Weight For calibration of Class II Weighing Balance and coarser, Readability : 1 g	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	20 kg to 30 kg	0.6mg



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225	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using E1 Class Weight For calibration of Class I Weighing Balance and coarser, Readability : 0.001 mg	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	1 mg to 6.1 g	0.007mg
226	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using E1 Class Weight For calibration of Class I Weighing Balance and coarser, Readability : 0.01 mg	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	6.1 g to 220 g	0.13mg
227	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using F1 & F2 Class Weight For calibration of Class III Weighing Balance and coarser , Readability : 10 g	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	30 kg to 100 kg	20.4g
228	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using M2 Class Weight For calibration of Class III Weighing Balance and coarser, Readability : 50 g	Using Standard Weight as per OIML R 47	100 kg to 500 kg	30g



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229	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using M2 Class Weight For calibration of Class IIII Weighing Balance and coarser, Readability : 100 g	Using Standard Weight as per OIML R 47	500 kg to 2000 kg	100g
230	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 6.1 g of d = 0.001 mg	1 g	0.003mg
231	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 6.1 g of d = 0.001 mg	1 mg	0.001mg
232	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 220 g of d = 0.01 mg	10 g	0.012mg
233	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 6.1 g of d = 0.001 mg	10 mg	0.001mg



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234	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 220 g of d = 0.01 mg	100 g	0.027mg
235	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 6.1 g of d = 0.001 mg	100 mg	0.002mg
236	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 6.1 g of d = 0.001 mg	2 g	0.005mg
237	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 6.1 g of d = 0.001 mg	2 mg	0.001mg
238	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 220 g of d = 0.01 mg	20 g	0.013mg
239	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 6.1 g of d = 0.001 mg	20 mg	0.002mg



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240	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 220 g of d = 0.01 mg	200 g	0.049mg
241	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 6.1 g of d = 0.001 mg	200 mg	0.002mg
242	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 6.1 g of d = 0.001 mg	5 g	0.006mg
243	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 6.1 g of d = 0.001 mg	5 mg	0.001mg
244	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 220 g of d = 0.01 mg	50 g	0.016mg
245	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 6.1 g of d = 0.001 mg	50 mg	0.002mg



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246	MECHANICAL-WEIGHTS	Mass (E1 Class & Coarser)	Using E1 Class Standard Weights with Electronic Balance up to 6.1 g of d = 0.001 mg	500 mg	0.003mg
247	MECHANICAL-WEIGHTS	Mass (F2 Class & Coarser)	Using F1 Class Standard Weights with Electronic Balance up to 3200 g of d = 0.01 g	2000 g	8.8mg
248	MECHANICAL-WEIGHTS	Mass (M1 Class & Coarser)	Using F1 Class Standard Weights with Electronic Balance up to 3200 g of d = 0.01 g	1000 g	8.5mg
249	MECHANICAL-WEIGHTS	Mass (M1 Class & Coarser)	Using F1 Class Standard Weights with Electronic Balance up to 3200 g of d = 0.01 g	500 g	8.5mg
250	MECHANICAL-WEIGHTS	Mass (M2 Class & Coarser)	Using F1 Class Standard Weights with Electronic Balance up to 30 kg of d = 1 g	10000 g	0.82g
251	MECHANICAL-WEIGHTS	Mass (M2 Class & Coarser)	Using F1 Class Standard Weights with Electronic Balance up to 30 kg of d = 1 g	20000 g	0.85g



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252	MECHANICAL-WEIGHTS	Mass (M2 Class & Coarser)	Using F1 Class Standard Weights with Electronic Balance up to 30 kg of d = 1 g	5000 g	0.82g
253	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital & Analogue Humidity Indicator / Controller / Data Logger / Sensor / Humidity Chamber	Using Standard Humidity Indicator by Comparisons Method	15 %RH to 95 %RH @ 25 °C	2.12%RH
254	THERMAL-TEMPERATURE	Deep Freezer, Refrigerator	Using Std. SSPRT with Std. DAQ/DMM, by Comparison Method, Single Point	- 196 °C to -80 °C	0.7°C
255	THERMAL-TEMPERATURE	Deep freezer/Refrigerator/ Recorder/ Block Furnace/ Bath	Using Std. SSPRT with Std. DAQ/DMM, by Comparison Method, Single Point	- 80 °C to 100 °C	0.15°C
256	THERMAL-TEMPERATURE	Glass Thermometer	Using Standard SSPRT with DAQ / DMM by Comparison Method	250 °C to 450 °C	0.31°C
257	THERMAL-TEMPERATURE	Glass Thermometer	Using Standard SSPRT with DRO / DMM by Comparison Method	450 °C to 600 °C	0.70°C
258	THERMAL-TEMPERATURE	Glass Thermometer	Using Standard SSPRT with DAQ / DMM by Comparison Method	-80 °C to 250 °C	0.15°C



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259	THERMAL-TEMPERATURE	Non Contact Type Temperature Indicator / Controller / Recorder	Using Standard Non-Contact Thermometer by Comparison Method	300 °C to 600 °C	3.5°C
260	THERMAL-TEMPERATURE	Non Contact Type Temperature Indicator / Controller / Recorder	Using Standard Non-Contact Thermometer by Comparison Method	50 °C to 300 °C	3.2°C
261	THERMAL-TEMPERATURE	Non Contact Type Temperature Indicator / Controller / Recorder	Using Standard Non-Contact Thermometer by Comparison Method	600 °C to 1200 °C	5.4°C
262	THERMAL-TEMPERATURE	Recorder/ Block Furnace/ Bath/Oven	Using Std. SSPRT/Std. RTD with Std. DAQ/DMM, by Comparison Method, Single Point	100 °C to 300 °C	0.31°C
263	THERMAL-TEMPERATURE	Recorder/ Block Furnace/ Bath/Oven	Using Std. SSPRT/Std. R-Type Thermocouple with Std. DRO/DMM, by Comparison Method, Single Point	1200 °C to 1500 °C	4.41°C
264	THERMAL-TEMPERATURE	Recorder/ Block Furnace/ Bath/Oven	Using Std. SSPRT with Std. DRO/DMM, by Comparison Method, Single Point	300 °C to 600 °C	0.36°C



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265	THERMAL-TEMPERATURE	Recorder/ Block Furnace/ Bath/Oven	Using Std. SSPRT/Std. R-Type Thermocouple with Std. DRO/DMM, by Comparison Method, Single Point	600 °C to 1200 °C	3.93°C
266	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge /Temperature Controller Switch / Digital Thermometer With Sensor / Temperature Controller/ Indicator	Using Std. SSPRT with Std. DAQ/DMM, by Comparison Method	-196 °C	0.70°C
267	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge /Temperature Controller Switch / Digital Thermometer With Sensor / Temperature Controller/ Indicator	Using Std. SSPRT with Std. DAQ/DMM, by Comparison Method	100 °C to 300 °C	0.31°C



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268	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge / Temperature Controller Switch / Digital Thermometer With Sensor / Temperature Controller/ Indicator	Using Std. SSPRT with Std. DAQ/DMM, by Comparison Method	300 °C to 600 °C	1.3°C
269	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge / Temperature Controller Switch / Digital Thermometer With Sensor / Temperature Controller/ Indicator	Using Std. SSPRT with Std. DAQ/DMM, by Comparison Method	-80 °C to 100 °C	0.15°C
270	THERMAL-TEMPERATURE	Thermal Chamber (Air Oven, Furnace, Temperature Bath)	Using Std. R Thermocouple, Standard Data Acquisition System, by Comparison Method / Mapping	1200 °C to 1500 °C	4.4°C



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271	THERMAL-TEMPERATURE	Thermal Chamber (Deep Freezer, Refrigerator)	Using Std. SSPRT and Standard Data Acquisition System, by Comparison Method / Mapping	-196 °C to -80 °C	2°C
272	THERMAL-TEMPERATURE	Thermal Chamber (Deep Freezer, Refrigerator, Incubator, Autoclave, Air Oven, Furnace, Temperature Bath)	Using Std. N/R type Thermocouple with Standard Data Acquisition System, by Comparison Method / Mapping	350 °C to 1200 °C	5°C
273	THERMAL-TEMPERATURE	Thermal Chamber (Deep Freezer, Refrigerator, Incubator, Autoclave, Air Oven, Furnace, Temperature Bath)	Using Std. RTD and Standard Data Acquisition System, by Comparison Method / Mapping	-80 °C to 100 °C	2.32°C
274	THERMAL-TEMPERATURE	Thermal Chamber (Incubator, Autoclave, Air Oven, Furnace, Temperature Bath)	Using Std. RTD Thermocouple, and Data Acquisition System, by Comparison Method / Mapping	100 °C to 350 °C	3°C



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275	THERMAL-TEMPERATURE	Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge /Temperature Controller Switch / Digital Thermometer With Sensor / Temperature Controller/ Indicator	Using Std. R type TC with Std. DAQ/DMM, by Comparison Method	600 °C to 1200 °C	3.2°C



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Site Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current 50Hz to 1 kHz	Using 6 ½ DMM (8846 A)Fluke by Direct Method	1 A to 10 A	0.2 % to 0.3 %
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current 50Hz to 1 kHz	Using 6 ½ DMM (8846 A)Fluke by Direct Method	10 µA to 100 µA	2.7 % to 0.3 %
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current 50Hz to 1 kHz	Using 6 ½ DMM (8846 A)Fluke by Direct Method	10 mA to 1 A	0.3 % to 0.2 %
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current 50Hz to 1 kHz	Using 6 ½ DMM (8846 A)Fluke by Direct Method	100 µA to 10 mA	0.3%



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5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC High Voltage 50 Hz	Using High Voltage Divider with DMM By Direct Method	1 KV to 100 KV	2.4%
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage 45Hz to 10 kHz	Using 6 ½ DMM (8846 A)Fluke by Direct Method	1 mV to 100 mV	5 % to 0.5 %
7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage 45Hz to 10 kHz	Using 6 ½ DMM (8846 A)Fluke by Direct Method	100 mV to 1000 V	0.5 % to 0.2 %
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Energy 1 Phase	Using Accucheck LT+ by Comparison Method	50 Hz, 230 V, 5 A, UPF	0.62%
9	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Energy 3 Phase	Using Accucheck HT+ by Comparison Method	50 Hz, 110 V, 5 A, UPF	0.34%



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10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current	Calibrator MFC-5522A by Direct Method	1 A to 20 A	0.076 % to 0.17 %
11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current	Calibrator MFC-5522A by Direct Method	1000 μ A to 1 A	0.14 % to 0.076 %
12	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current	Calibrator MFC-5522A by Direct method	30 μ A to 1000 μ A	0.54%
13	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC High Current	Using MFC 5522 & 50 Turn Coil by Direct Method	20 A to 1000 A	0.5%
14	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Power (Single Phase) 50Hz	Using Multifunction MFC 5522A By Direct Method	120 V to 240 V, 0.01 A to	0.1 % to 0.34%
15	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Power (Three Phase) 50 Hz	Using 3 Phase Power Analyzer by Comparison Method	80 V to 480 V, 0.05 A to	0.26%



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16	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage	Calibrator MFC-5522A by Direct / Comparison Method	1 mV to 1 V	0.72 % to 0.025 %
17	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage	Calibrator MFC-5522A by Direct Method	1 V to 1000 V	0.014 % to 0.036 %
18	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance	Using Multifunction Calibrator MFC-5522A By Direct Method	0.22 nF to 1 µF	5.92 % to 0.42 %
19	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Inductance	Using Decade Inductance Box By Direct Method	100 µH to 1000 mH	3%
20	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Oscilloscope - Amplitude	Using Multifunction MFC 5502A with scope Option By Direct Method	1 mV AC to 100 V AC	3.5 % to 0.15 %
21	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Oscilloscope - Amplitude	Using Multifunction MFC 5502A with scope Option By Direct Method	1 mV DC to 100 V DC	3.5 % to 0.07 %



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22	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Oscilloscope - Bandwidth	Using Multifunction MFC 5502A with scope Option By Direct Method	Up to 600 MHz	5.02 % to 5.02 %
23	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Oscilloscope - Time Base 1kHz	Using Multifunction MFC 5502A with scope Option By Direct Method	2 ns to 5 s	0.36 % to 0.66 %
24	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Phase Angle	Using Multifunction Calibrator MFC-5522A by Direct Method	0 ° to 90 °	0.15°
25	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Power Factor	Using Multifunction Calibrator MFC-5522A by Direct Method	0.2 PF to unity (Lead & Lag)	0.002 PF to 0.001 PF
26	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Tan Delta	Using Standard Capacitor with Dissipation Box by Direct Method	50Hz, Upto 5kV, 0.004 to 50Hz, Upto 5kV, 0.15	0.00023 % to 0.0017 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM (8846 A)Fluke by Direct Method	1 A to 10 A	0.08 % to 0.2 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM (8846 A)Fluke by Direct Method	10 µA to 100 µA	0.40 % to 0.089 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM (8846 A)Fluke by Direct Method	100 µA to 100 mA	0.089 % to 0.08 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM (8846 A)Fluke by Direct Method	100 mA to 1 A	0.08%
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Divider with DMM By Direct Method	1 KV to 10 KV	2.5%
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Divider with DMM By Direct Method	10 KV to 50 KV	2.4%
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM (8846 A)Fluke by Direct Method	1 mV to 10 mV	0.46 % to 0.06 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM (8846 A)Fluke by Direct Method	1 V to 1000 V	0.007 % to 0.008 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM (8846 A)Fluke by Direct Method	10 mV to 100 mV	0.06 % to 0.01 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM (8846 A)Fluke by Direct Method	100 mV to 1 V	0.01 % to 0.008 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ DMM (8846 A)Fluke by Direct Method	1 M ohm to 100 M ohm	0.02 % to 1 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ DMM (8846 A)Fluke by Direct Method	1 ohm to 10 ohm	0.7 % to 0.1 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ DMM (8846 A)Fluke by Direct Method	10 ohm to 1 M ohm	0.1 % to 0.02 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ DMM (8846 A)Fluke by Direct Method	100 M ohm to 1 G ohm	1 % to 2.34 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Capacitance	Using Multifunction Calibrator MFC-5522A By Direct Method	1 µF to 109 µF	0.42 % to 0.66 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator MFC-5522A by Direct Method	1 mA to 100 mA	0.05 % to 0.005 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator MFC-5522A by Direct Method	100 mA to 20 A	0.015 % to 0.12 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using 50 Turn Coil With MFC 5522A (Fluke) by Direct Method	20 A to 1000 A	0.5 % to 0.5 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power	Using Multifunction Calibrator MFC-5522A by Direct Method	10 V to 1000 V, 1 A to 20	0.034 % to 0.083 %



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance	Using Decade Resistance Box by Direct Method	1 G ohm to 100 G ohm	2.5 % to 6.0 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low resistance	Using Decade Resistance Box by Direct Method	0.1 ohm to 1 ohm	1.3 % to 0.031 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	Using Decade Resistance Box by Direct Method	1 m ohm	0.13%
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	Using Decade Resistance Box by Direct Method	10 μ ohm to	0.73%
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	Using Decade Resistance Box by Direct Method	10 m ohm to	0.13%
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	Using Decade Resistance Box by Direct Method	100 μ ohm	0.17%



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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	Using Decade Resistance Box by Direct Method	100 m ohm to	0.13%
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	Using Decade Resistance Box by Direct Method	50 μ ohm	0.33%
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	Using Decade Resistance Box by Direct Method	500 μ ohm to	0.16%
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Calibrator MFC-5522A by Direct method .	1 ohm to 1000 ohm	0.12 % to 0.003 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Calibrator MFC-5522A by Direct Method	1000 k ohm to 1 G ohm	0.004 % to 1.7 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Calibrator MFC-5522A by Direct Method	1000 ohm to 1000 k ohm	0.003 % to 0.004 %



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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Controller/Indicator/ Calibrator/Recorder) J/K/N/T Type	Using 6 ½ DMM (8846 A) Fluke + ITS-90 (mV & O Method) by Direct Method	-200 °C to 1200 °C	0.3°C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Controller/Indicator/ Calibrator/Recorder) R/S/B Type	Using 6 ½ DMM (8846 A) Fluke + ITS-90 (mV & O Method) by Direct Method	20 °C to 1700 °C	0.6°C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Controller/Indicator/ Calibrator/Recorder) RTD	Using 6 ½ DMM (8846 A) Fluke + ITS-90 (mV & O Method) by Direct Method	-200 °C to 800 °C	0.3°C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation# (Temperature Indicator/ Controller/ Recorder/ Calibrator/ Transmitter) J -Type	Using Multifunction Calibrator MFC-5522A by Direct Method (mV & Ohms Input)	-200 °C to 1200 °C	0.049°C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation# (Temperature Indicator/ Controller/ Recorder/ Calibrator/ Transmitter) K -Type	Using Multifunction Calibrator MFC-5522A by Direct Method (mV & Ohms Input)	-200 °C to 1300 °C	0.07°C



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63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation# (Temperature Indicator/ Controller/ Recorder/ Calibrator/ Transmitter) R/S/B -Type	Using Multifunction Calibrator MFC-5522A by Direct Method (mV & Ohms Input)	20 °C to 1700 °C	0.23°C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation# (Temperature Indicator/ Controller/ Recorder/ Calibrator/ Transmitter) RTD	Using Multifunction Calibrator MFC-5522A by Direct Method (mV & Ohms Input)	-200 °C to 660 °C	0.078%
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation# (Temperature Indicator/ Controller/ Recorder/ Calibrator/ Transmitter) T/ N -Type	Using Multifunction Calibrator MFC-5522A by Direct Method (mV & Ohms Input)	-200 °C to 1300 °C	0.06°C
66	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital & Analogue Timer/ Time Totaliser / Stop Watch	Using Digital Time Calibrator by Comparison Method	2.5 Hr to 24 Hr	1.5 sec to 6.1 sec
67	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital & Analogue Timer/ Time Totaliser / Stop Watch	Using Digital Time Calibrator by Comparison Method	200 m sec to 2.5 Hr	3.8 m sec to 0.5 sec



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68	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ DMM (8846 A)Fluke by Direct Method	10 Hz to 1 MHz	0.082 % to 0.02 %
69	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Calibrator MFC-5522A by Direct Method	1 MHz to 330 MHz	0.0007 % to 0.0012 %
70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Calibrator MFC-5522A by Direct Method	10 Hz to 1 MHz	0.0007 % to
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Calibrator MFC-5522A by Direct / Comparison Method	3 Hz to 10 Hz	0.003 % to 0.0007 %
72	MECHANICAL-ACCELERATION AND SPEED	RPM Of Centrifuge	Using Digital Tachometer - RPM Generator (SANAS TR 54-01)	10 rpm to 500 rpm	0.53rpm
73	MECHANICAL-ACCELERATION AND SPEED	RPM of Centrifuge	Using Digital Tachometer - RPM Generator (SANAS TR 54-01)	10000 rpm to 40000 rpm	5.5rpm



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74	MECHANICAL-ACCELERATION AND SPEED	RPM Of Centrifuge	Using Digital Tachometer - RPM Generator (SANAS TR 54-01)	500 rpm to 10000 rpm	2.0rpm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer (Gauge Length)	Using Digimatic Caliper	Up to 150 mm	26µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer, Least Count : 0.0005 mm	Using Gauge Block, Electronic Comparator & Digimatic Caliper	Up to 10 mm	3.6µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale & Tape Calibrator, Least Count : 0.001 mm	Using Gauge Block, Long Slip Gauge	0 to 1000 mm	7.8µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Precision Level	Up to (4000 X 2000) mm	0.6 sqrt L+W/125 Where 'L' is Length & 'W' is Width in mmµm



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79	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular Scale), Least Count : 1 sec of Arc	Using Angle Gauge Block	0 ° to 360 ° min of Arc	1.0min of Arc
80	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Linear Scale), Least Count : 0.001 mm	Using Glass Scale	Up to 300 mm	3.0µm
81	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Glass Scale & Digimatic Caliper	10 X to 100 X	0.20%
82	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine, Least Count : 0.0001 mm	Using Slip Gauge, Long Slip Gauge	100 mm to 200 mm	1.25µm
83	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine, Least Count : 0.0001 mm	Using Slip Gauge, Long Slip Gauge	200 mm to 600 mm	3.0µm
84	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine, Least Count : 0.0001 mm	Using Slip Gauge, Long Slip Gauge	Up to 100 mm	0.85µm
85	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine (Indirect Verification)	Using Hardness Block as per IS 1500-2 / ISO 6506-2	HBW10.0/3000	2.5%



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86	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine (Indirect Verification)	Using Hardness Block as per IS 1500-2 / ISO 6506-2	HBW2.5/187.5	2.5%
87	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine (Indirect Verification)	Using Hardness Block as per IS 1500-2 / ISO 6506-2	HBW5.0/750	2.5%
88	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine (Indirect Verification)	Using Standard Hardness Block as per IS 1586-2 / ISO 6508-2	HRA	1.5HRA
89	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine (Indirect Verification)	Using Standard Hardness Block as per IS 1586-2 / ISO 6508-2	HRBW	1.5HRBW
90	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine (Indirect Verification)	Using Standard Hardness Block as per IS 1586-2 / ISO 6508-2	HRC	1.5HRC
91	MECHANICAL-HARDNESS TESTING MACHINES	Superficial Rockwell Hardness Testing Machine (Indirect Verification)	Using Standard Hardness Block as per IS 1586-2 / ISO 6508-2	HR15N	1.5HR15N
92	MECHANICAL-HARDNESS TESTING MACHINES	Superficial Rockwell Hardness Testing Machine (Indirect Verification)	Using Standard Hardness Block as per IS 1586-2 / ISO 6508-2	HR15TW	1.5HR15TW



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93	MECHANICAL-HARDNESS TESTING MACHINES	Superficial Rockwell Hardness Testing Machine (Indirect Verification)	Using Standard Hardness Block as per IS 1586-2 / ISO 6508-2	HR30N	1.5HR30N
94	MECHANICAL-HARDNESS TESTING MACHINES	Superficial Rockwell Hardness Testing Machine (Indirect Verification)	Using Standard Hardness Block as per IS 1586-2 / ISO 6508-2	HR30TW	1.5HR30TW
95	MECHANICAL-HARDNESS TESTING MACHINES	Superficial Rockwell Hardness Testing Machine (Indirect Verification)	Using Standard Hardness Block as per IS 1586-2 / ISO 6508-2	HR45N	1.5HR45N
96	MECHANICAL-HARDNESS TESTING MACHINES	Superficial Rockwell Hardness Testing Machine (Indirect Verification)	Using Standard Hardness Block as per IS 1586-2 / ISO 6508-2	HR45TW	1.5HR45TW
97	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine (Indirect Verification)	Using Hardness Block as per IS 1501-2 / ISO 6507-2	HV10	2.9%
98	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine (Indirect Verification)	Using Hardness Block as per IS 1501-2 / ISO 6507-2	HV30	2.9%
99	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine (Indirect Verification)	Using Hardness Block as per IS 1501-2 / ISO 6507-2	HV5	2.9%



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100	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine (Indirect Verification)	Using Hardness Block as per IS 1501-2 / ISO 6507-2	HV50	2.9%
101	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine - Charpy (Direct Verification)	Using Load Cell, Clinometer, Steel Tape and other Gauges & Instruments as per ISO 148-2 / ASTM E23/ IS 3766	Up to 450 J	0.75%
102	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine - Charpy (Indirect Verification)	Using Standard / Certified Reference Material as per ISO 148-2 / ASTM E23	0 J to 40 J	0.46J
103	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine - Charpy (Indirect Verification)	Using Standard / Certified Reference Material as per ISO 148-2 / ASTM E23	40 J to 400 J	0.85%
104	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine - Izod (Direct Verification)	Using Load Cell, Clinometer, Steel Tape and other Gauges & Instruments as per BS 131-4 / ASTM E23/ IS 3766	Up to 168 J	0.5%



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105	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Pressure Gauge / Pressure Switch / Pressure Transducer / Pressure Transmitter / Pressure Calibrator	Using Pressure Calibrator as per Direct Comparison Method DKD R-6-1	0 to 70 bar	0.072% of rdg
106	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Pressure Gauge / Pressure Switch / Pressure Transducer / Pressure Transmitter / Pressure Calibrator	Using Pressure Calibrator as per Direct Comparison Method DKD R-6-1	0 to 700 bar	0.074% of rdg
107	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Vacuum Gauge/ Vacuum Switch/ Vacuum Transducer/ Vacuum Transmitter/ Vacuum Calibrator	Using Pressure Calibrator as per Direct Comparison Method	-0.95 bar to 0	0.34% of rdg
108	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Magnehellic Gauge / Manometer / Transmitter / Transducer	Using Pressure Calibrator as per Direct Comparison Method	0 to 7 kPa	0.13% of rdg



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109	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Pressure Gauge / Pressure Switch / Pressure Transducer / Pressure Transmitter/ Pressure Calibrator	Using Pressure Calibrator as per Direct Comparison Method DKD R-6-1	0 to 2 bar	0.14% of rdg
110	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Pressure Gauge / Pressure Switch / Pressure Transducer / Pressure Transmitter/ Pressure Calibrator	Using Pressure Calibrator as per Direct Comparison Method DKD R-6-1	0 to 35 bar	0.14% of rdg
111	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Travel Speed of UTM	Using Stop Watch & Digimatic Caliper	10 mm/min to 300 mm/min	0.20%
112	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine (Compression)	Using Force Proving Instrument of Class 1 or better as per IS 1828-1 / ISO 7500-1 / ASTM E4	200 N to 2000 kN	0.62%



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113	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine (Tension)	Using Force Proving Instrument of Class 1 or better as per IS 1828-1 / ISO 7500-1 / ASTM E4	20 N to 250 kN	0.54%
114	MECHANICAL-WEIGHING SCALE AND BALANCE	Moisture Balance	Using Standard Weight	0 to 100 %	0.14%
115	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance Using F1 & F2 Class Weight For calibration of Class III Weighing Balance and coarser, Readability : 10 g	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	30 kg to 100 kg	30g
116	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance Using F1 Class Weight For calibration of Class III Weighing Balance and coarser, Readability : 0.5 g	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	Up to 5 kg	3.5g
117	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance Using F1 Class Weight For calibration of Class III Weighing Balance and coarser,, Readability : 5 g	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	5 kg to 30 kg	7.02g



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118	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using E1 & F1 Class Weight For calibration of Class I Weighing Balance and coarser, Readability : 1 mg	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	220 g to 5 kg	0.008g
119	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using E1 & F1 Class Weight For calibration of Class II Weighing Balance and coarser, Readability : 0.1 g	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	5 kg to 20 kg	0.015g
120	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using E1 & F1 Class Weight For calibration of Class II Weighing Balance and coarser, Readability : 1 g	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	20 kg to 30 kg	0.6mg
121	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using E1 Class Weight For calibration of Class I Weighing Balance and coarser, Readability : 0.001 mg	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	1 mg to 6.1 g	0.007mg



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122	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using E1 Class Weight For calibration of Class I Weighing Balance and coarser, Readability : 0.01 mg	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	6.1 g to 220 g	0.13mg
123	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using F1 & F2 Class Weight For calibration of Class III Weighing Balance and coarser , Readability : 10 g	Using Standard Weight as per OIML R 76-1 & OIML R 76-2	30 kg to 100 kg	20.4g
124	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using M2 Class Weight For calibration of Class III Weighing Balance and coarser, Readability : 50 g	Using Standard Weight as per OIML R 47	100 kg to 500 kg	30g
125	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Using M2 Class Weight For calibration of Class III Weighing Balance and coarser, Readability : 100 g	Using Standard Weight as per OIML R 47	500 kg to 2000 kg	100g



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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
126	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital & Analogue Humidity Indicator / Controller / Data Logger / Sensor / Humidity Chamber	Using Standard Humidity Indicator by Comparisons Method	15 %RH to 95 %RH @ 25 °C	2.12%RH
127	THERMAL-TEMPERATURE	Deep freezer/Refrigerator/ Recorder/ Block Furnace/ Bath	Using Std. SSPRT with Std. DAQ/DMM, by Comparison Method, Single Point	- 80 °C to 100 °C	0.15°C
128	THERMAL-TEMPERATURE	Glass Thermometer	Using Standard SSPRT with DRO / DMM by Comparison Method	(-)10 °C to 250 °C	0.31°C
129	THERMAL-TEMPERATURE	Non Contact Type Temperature Indicator / Controller / Recorder	Using Standard Non-Contact Thermometer by Comparison Method	300 °C to 600 °C	3.5°C
130	THERMAL-TEMPERATURE	Non Contact Type Temperature Indicator / Controller / Recorder	Using Standard Non-Contact Thermometer by Comparison Method	50 °C to 300 °C	3.2°C
131	THERMAL-TEMPERATURE	Non Contact Type Temperature Indicator / Controller / Recorder	Using Standard Non-Contact Thermometer by Comparison Method	600 °C to 1200 °C	5.4°C
132	THERMAL-TEMPERATURE	Recorder/ Block Furnace/ Bath/Oven	Using Std. SSPRT/Std. RTD with Std. DAQ/DMM, by Comparison Method, Single Point	100 °C to 300 °C	0.31°C



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133	THERMAL-TEMPERATURE	Recorder/ Block Furnace/ Bath/Oven	Using Std. SSPRT/Std. R-Type Thermocouple with Std. DRO/DMM, by Comparison Method, Single Point	1200 °C to 1500 °C	4.41°C
134	THERMAL-TEMPERATURE	Recorder/ Block Furnace/ Bath/Oven	Using Std. SSPRT with Std. DRO/DMM, by Comparison Method, Single Point	300 °C to 600 °C	0.36°C
135	THERMAL-TEMPERATURE	Recorder/ Block Furnace/ Bath/Oven	Using Std. SSPRT/Std. R-Type Thermocouple with Std. DRO/DMM, by Comparison Method, Single Point	600 °C to 1200 °C	3.93°C
136	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge /Temperature Controller Switch / Digital Thermometer With Sensor / Temperature Controller/ Indicator	Using Std. SSPRT with Std. DAQ/DMM, by Comparison Method, Single Point	-196 °C	0.7°C



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137	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge /Temperature Controller Switch / Digital Thermometer With Sensor / Temperature Controller/ Indicator	Using Std. SSPRT with Std. DAQ/DMM, by Comparison Method	100 °C to 300 °C	0.31°C
138	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge /Temperature Controller Switch / Digital Thermometer With Sensor / Temperature Controller/ Indicator	Using Std. SSPRT with Std. DAQ/DMM, by Comparison Method	300 °C to 600 °C	1.3°C



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139	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge /Temperature Controller Switch / Digital Thermometer With Sensor / Temperature Controller/ Indicator	Using Std. SSPRT with Std. DAQ/DMM, by Comparison Method	-80 °C to 100 °C	0.15°C
140	THERMAL-TEMPERATURE	Thermal Chamber (Air Oven, Furnace, Temperature Bath)	Using Std. R Thermocouple, Standard Data Acquisition System, by Comparison Method / Mapping	1200 °C to 1500 °C	4.4°C
141	THERMAL-TEMPERATURE	Thermal Chamber (Deep Freezer, Refrigerator)	Using Std. SSPRT and Standard Data Acquisition System, by Comparison Method / Mapping	-196 °C to -80 °C	2°C
142	THERMAL-TEMPERATURE	Thermal Chamber (Deep Freezer, Refrigerator, Incubator, Autoclave, Air Oven, Furnace, Temperature Bath)	Using Std. N/R type Thermocouple with Standard Data Acquisition System, by Comparison Method / Mapping	350 °C to 1200 °C	5°C



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143	THERMAL-TEMPERATURE	Thermal Chamber (Deep Freezer, Refrigerator, Incubator, Autoclave, Air Oven, Furnace, Temperature Bath)	Using Std. RTD and Standard Data Acquisition System, by Comparison Method / Mapping	-80 °C to 100 °C	2.32°C
144	THERMAL-TEMPERATURE	Thermal Chamber (Incubator, Autoclave, Air Oven, Furnace, Temperature Bath)	Using Std. RTD Thermocouple, and Data Acquisition System, by Comparison Method / Mapping	100 °C to 350 °C	3°C
145	THERMAL-TEMPERATURE	Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge /Temperature Controller Switch / Digital Thermometer With Sensor / Temperature Controller/ Indicator	Using Std. R type TC with Std. DAQ/DMM, by Comparison Method	600 °C to 1200 °C	3.2°C

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