National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	PRECISION INSTRUMENTATION AND SERVICES PVT LTD, PLOT NO 21, CHAKRADHAR SOCIETY, OLD SAIKHEDA ROAD, DWARKA, NASHIK, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 KHz	Using 6½ DMM by Direct Method	200 mA to 10 A	0.19 % to 0.3 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy Active Three Phase @ 50 Hz, 30 V to 300 V, 1 A to 120 A, 0.5 PF to UPF (Lag/Lead)	Using Digital Power Analyzer by Direct Method	45 Wh to 108 kWh	0.17 % to 0.4 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy Reactive Three Phase @ 50 Hz, 30 V to 300 V, 1A to 120 A 0.5 PF to UPF (Lag/Lead)	Using Digital Power Analyzer by Direct Method	15 Varh to 115 kVarh	0.17 % to 0.4 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	0.5 kV to 28 kV	6.55 % to 6.45 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power Active Single & Three Phase @ 50 Hz, 30 V to 300 V, 1 A to 120 A, 0.5 PF to UPF (Lag/Lead)	Using Digital Power Analyzer by Direct Method	15 W to 108 kW	0.17 % to 2.45 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power Reactive Single & Three Phase @ 50 Hz, 30 V to 300 V, 1 A to 120 A, 0.5 PF to UPF (Lag/Lead)	Using Digital Power Analyzer by Direct Method	15 Var to 115 kVar	0.17 % to 0.4 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ DMM by Direct Method	1 mV to 100 mV	5.10 % to 0.12 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 KHz	Using 6½ DMM by Direct Method	1 V to 750 V	1.18 % to 0.10 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 KHz	Using 6½ DMM by Direct Method	100 mV to 1 V	0.12 % to 1.18 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonics Order @ 30 V to 240 V and 1 mA to 5 A	Using Digital Power Analyzer by Direct Method	1st Order to 11th Order	0.80 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor	Using Digital Power Analyzer by Direct Method	0.5 PF to 1 UPF (Lag/Lead)	0.004 PF
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using MFC by Direct method	10 A to 20 A	0.3 % to 0.93 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using MFC by Direct method	100 µA to 100 mA	0.5 % to 0.15 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using MFC by Direct method	100 mA to 10 A	0.15 % to 0.3 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using MFC with Current Coil by Direct Method	20 A to 1000 A	0.86 % to 1.11 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using MFC By Direct Method	1 V to 1000 V	0.07 % to 0.1 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using MFC by Direct Method	10 mV to 1 V	4.48 % to 0.07 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using MFC by Direct Method	1 nF to 100 nF	2.16 % to 0.56 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using MFC by Direct Method	100 µF to 1 mF	0.79 % to 1.05 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using MFC by Direct Method	100 nF to 100 µF	0.56 % to 0.79 %

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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	0.1 mA to 1 mA	2.40 % to 0.29 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	1 mA to 100 mA	0.29 % to 0.069 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	100 mA to 10 A	0.065 % to 0.19 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	0.5 kV to 40 kV	3.2 % to 3.03 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2 & 4 Wire)	Using 6½ DMM by Direct Method	1 M ohm to 100 Mohm	0.052 % to 1.12 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2 & 4 Wire)	Using 6½ DMM by Direct Method	1 ohm to 100 ohm	0.54 % to 0.017 %

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27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2 & 4 Wire)	Using 6½ DMM by Direct Method	100 kohm to 1 M ohm	0.013 % to 0.052 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2 & 4 Wire)	Using 6½ DMM by Direct Method	100 ohm to 100 kohm	0.017 % to 0.013 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	0.5 mV to 1 mV	1.70 % to 0.48 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	1 mV to 100 mV	0.48 % to 0.046 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	100 mV to 1000 V	0.046 % to 0.008 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 & 4 Wire)	Using Discrete Standard 4 Wire Low Resistance by direct Method	1 miliohm	0.22 %

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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 & 4 Wire)	Using Discrete standard 4 wire Low resistance by Direct Method	1 ohm	0.58 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 & 4 Wire)	Using Discrete Standard 4 Wire Low Resistance by Direct Method	10 miliohm	0.59 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 & 4 Wire)	Using Discrete Standard 4 Wire Low Resistance By direct Method	100 µohm	0.89 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 & 4 Wire)	Using Discrete Standard 4 Wire Low Resistance By direct Method	100 miliohm	0.15 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 & 4 Wire)	Using Discrete Standard 4 Wire Low Resistance by direct Method	50 µohm	1.5 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	10 µA to 100 mA	0.29 % to 0.04 %

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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	10 A to 20 A	0.11 % to 0.12 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	100 mA to 10 A	0.04 % to 0.13 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC with current coil by Direct Method	20 A to 1000 A	0.70 % to 1 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 & 4 Wire)	Using Resistance Box by Direct Method:	1 ohm to 1 Mohm	1.49 % to 1.16 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 & 4 Wire)	Using MFC by Direct Method	1 Mohm to 100 Mohm	0.070 % to 0.35 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 & 4 Wire)	Using MFC by Direct Method	1 ohm to 10 ohm	1.46 % to 0.17 %

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45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 & 4 Wire)	Using MFC by Direct Method	10 ohm to 100 ohm	0.17 % to 0.04 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 & 4 Wire)	Using MFC by Direct Method	100 ohm to 1 Mohm	0.04 % to 0.070 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	1 mV to 10 mV	0.76 % to 0.09 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	1 V to 1000 V	0.014 % to 0.010 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	10 mV to 1 V	0.09 % to 0.014 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ 1000 V	Using High Resistance Box by Direct Method	1 Gohm	4.53 %

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51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ 1000 V	Using High Resistance Box by Direct Method	10 Mohm	6.70 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ 1000 V	Using High Resistance Box by Direct method	100 Mohm	3.46 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ 1000 V	Using High Resistance Box by direct method	200 Mohm	4.54 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ 1000 V	Using Mega Ohm Meter by direct Method	5 Mohm	3.60 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ 1000 V	Using High Resistance Box by Direct Method	500 Mohm	4.53 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 & 4 Wire)	Using Discrete Standard 4 wire Low Resistance By Direct method	10 µohm	5.78 %

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57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using MFC by Direct method:	(-) 200 °C to 1200 °C	0.3 °C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K- Type Thermocouple	Using MFC by Direct method:	(-) 200 °C to 1300 °C	0.32 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using MFC by Direct Method	0 °C to 1750 °C	0.84 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100) type	Using MFC by Direct Method	(-) 200 °C to 850 °C	0.52 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using MFC by Direct Method	0 °C to 1750 °C	0.81 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using MFC by Direct Method	0 °C to 400 °C	0.26 °C

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63	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ DMM by Direct Method	50 Hz to 300 kHz	0.011 % to 0.011 %
64	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital time calibrator by comparison method	1 hr to 24 hr	1.80 s to 92 s
65	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital time calibrator by comparison method	1 s to 30 min	0.15 s to 0.89 s
66	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital time calibrator by comparison method	30 min to 1 hr	0.89 s to 1.80 s
67	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MFC by Direct Method	10 Hz to 10 MHz	0.058 % to 0.0081 %
68	MECHANICAL-ACCELERATION AND SPEED	RPM Meter /Speed Centrifuge (Contact type)	Using Digital Tachometer by Comparison Method	10 rpm to 3000 rpm	2.6 rpm

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69	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Speed meter, Centrifuge (Non- Contact type)	Using Digital Tachometer by Comparison Method	500 rpm to 5000 rpm	4.1 rpm
70	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Speed Meter, Centrifuge (Non- Contact type)	Using Digital Tachometer by Comparison Method	10 rpm to 500 rpm	0.74 rpm
71	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Speed Meter, Centrifuge (Non- Contact)	Using Digital Tachometer by Comparison Method	5000 rpm to 50000 rpm	5.9 rpm
72	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Speed Meter, Centrifuge (Non- Contact)	Using Digital Tachometer by Comparison Method	50000 rpm to 90000 rpm	9.94 rpm
73	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope (Non-Contact type)	Using Digital Tachometer and RPM calibrator by Comparison Method:	10 rpm to 500 rpm	0.74 rpm
74	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope (Non-Contact type)	Using Digital Tachometer and RPM calibrator by Comparison Method	50000 rpm to 90000 rpm	9.94 rpm
75	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope (Contact type)	Using Digital Tachometer and RPM calibrator by Comparison Method:	10 rpm to 3000 rpm	2.6 rpm
76	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope (Non-Contact type)	Using Digital Tachometer and RPM calibrator by Comparison Method	500 rpm to 5000 rpm	4.1 rpm

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77	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope (Non-Contact type)	Using Digital Tachometer by Comparison Method	5000 rpm to 50000 rpm	5.9 rpm
78	MECHANICAL-ACOUSTICS	Sound Level Meter	Using sound Level Calibrator By Direct Method:	94 dB to 114 dB	1.26 dB
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor , Combination Set , Angle Protractor, Digital Protractor, Clinometer L.C: 5 min	Using Angle Gauge Block &Surface Plate by Comparison Method	0° to 360°	3.5°
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge L.C.:1 µm	Using ULM by Comparison Method	up to 2 mm	3.1 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/ Digital) L.C.:10 µm	Using Caliper Checker; Gauge Block, Length Bar & External micrometer by comparison Method	0 to 600 mm	17.6 µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper(Vernier/ Dial/ Digital) L.C.:10 µm	Using Length Bar, Gauge Block, External Micrometer, Setting Ring Gauge, Measuring Pin by comparison Method\	0 to 1000 mm	31.02 µm

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83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C: 0.01 mm	Using Master Foils By Comparison Method	0 to 12 mm	4.1 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using ULM by Comparison Method	0 to 25 mm	1 µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C.:1 µm	Using Grade Block Sets & surface Plate by comparison method	0 to 300 mm	2 µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier(Vernier/Dial/ Digital) L.C.:10 µm	Using Gauge Block sets &surface Plate by Comparison Method	0 to 300 mm	8.05 µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.: 0.01 mm	Using Gauge Block Sets by comparison Method	0 to 10 mm	8 µm

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88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog, dial, digital) L.C:10 µm	Using Gauge Block Sets Grade'0' by comparison Method	0 to 400 mm	7.7
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer(Analog/ Dial/Digital) L.C.:1 µm	Using Gauge Block Sets Grade'0' by comparison Method	0 to 25 mm	0.9 µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer(Analog/ Dial/Digital)L.C.:1 µm	Using Gauge Block Sets Grade'0' by comparison Method	0 to 50 mm	2.1 µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler gauge L.C: 0.01 mm	Using ULM by Comparison Method	Upto to 3 mm	0.9 µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C.:10 µm	Using Caliper Checker, Length Bar &Surface Plate by Comparison Method	0 to 600 mm	14.3 µm

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93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge(Vernier/Dial/ Digital) L.C.:10 µm	Using Length Bar, Gauge Block, Surface Plate, Dial Gauge, Precision Square by comparison Method	0 to 1000 mm	19.4 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.:1 µm	Using ULM by Comparison Method	0 to 0.14 mm	1.1 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.:10 µm	Using ULM by Comparison Method	0 to 1 mm	5.83 µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale LC:0.5 mm	Using Scale &Tape Calibrator by Comparison Method:	0 to 2000 mm	147(vL/1000) (where L in mm) µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape LC:0.1 mm	Using Scale &Tape Calibrator by Comparison Method:	0 to 50 m	290(vL/1000) (where L in mm) µm

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98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ULM & OD Master by Comparison Method	0 to 200 mm	1.2 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring gauge	Using ULM & Master Ring by Comparison Method	0 to 200 mm	2 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C.:1 µm	Using ULM by comparison Method	0 to 10 mm	1.2 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C.:10 µm	Using ULM by comparison Method	0 to 25 mm	5.9 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Shim Foil	Using ULM by Comparison Method	up to 12 mm	0.9 µm

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103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge	Using ULM & Master ring by Comparison Method	0 to 200 mm	2.5 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level/ Electronic Level/Frame Level (Sensitivity:0.01 mm/m)	Using Electronic level by Comparison Method	0 to 5 mm/m	12 µm/m
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface plate	Using Electronic Level/Spirit level by comparison method:	up to 5100 mm x 5100 mm	1.3* v(L+W/150) µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves(Aperture Size)	Using Digital Vernier Caliper by comparison method	4.75 mm to 150 mm	29.27 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wires	Using ULM by Comparison Method	0.16 mm to 6.35 mm	0.9 µm

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108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauge (Effective Diameter)	Using ULM, OD Master & Thread measuring wires by comparison method	0 to 200 mm	4.29 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring gauge(Effective Diameter)	Using ULM& Master Ring By Comparison Method	0 to 100 mm	1.8 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C : 0.01 mm)	Using Gauge Block Sets by comparison method:	0 to 40 mm	82.2 µm
111	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic (Dial Pressure Gauges, Digital Pressure Gauges, Pressure Transmitter, Pressure Switch, Pressure Recorder)	Using Digital pressure indicator, Hydraulic Pump, 6½ DMM by comparison method as per DKDR6-1	70 bar to 700 bar	0.21 bar

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112	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic(Dial Pressure Gauges, Digital Pressure Gauges, Pressure Transmitter, Pressure Switch, Pressure Recorder)	Using Digital pressure indicator, Hydraulic Pump, 6½ DMM by comparison method as per DKDR6-1	30 bar to 300 bar	0.05 bar
113	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic(Dial Pressure Gauges, Digital Pressure Gauges, Pressure Transmitter, Pressure Switch,Pressure Recorder)	Using Digital pressure indicator, Hydraulic Pump, 6½ DMM by comparison method as per DKDR6-1	100 bar to 1000 bar	0.52 bar
114	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauges, Differential pressure gauge, Manometer, Magnehelic Gauge.	Using Digital pressure Calibrator With Low Pressure Pump DKD-R-6-1	(-) 20 mbar to 20 mbar	0.024 mbar
115	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauges, Differential Pressure Gauge, Manometer, Magnehelic Gauge.	Using Digital pressure Calibrator With Low Pressure Pump DKD-R-6-1	0 to 2 mbar	0.0063 mbar
116	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauges, Differential Pressure Gauge, Manometer, Magnehelic Gauge.	Using Digital pressure Calibrator With Low Pressure Pump DKD-R-6-1	10 mbar to 100 mbar	0.22 mbar

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117	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauges, Differential Pressure Gauge, Manometer, Magnehelic Gauge.	Using Digital pressure indicator, Low pressure pump, 6½ DMM by comparison method as per DKD-R6-1	100 mbar to 1000 mbar	0.6 mbar
118	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic (Dial Pressure Gauge, Digital Pressure Gauge, Pressure Transmitter, Pressure Switch,Pressure Recorder)	Using Digital Pressure Gauge with Pneumatic Pump and 6½ DMM DKD-R-6-1	0 to 3 bar	0.099 bar
119	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic(Dial Pressure Gauge,Digital Pressure Gauge, Pressure Transmitter,Pressure Switch,Pressure Recorder)	Using Digital Pressure Gauge with Pneumatic Pump and 6½ DMM DKD-R-6-1	1 bar to 10 bar	0.0081 bar
120	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic(Dial Pressure gauge, Digital Pressure Gauge, Pressure Transmitter, Pressure Switch, Pressure Recorder)	Using Digital Pressure Gauge with Pneumatic Pump and 6½ DMM DKD-R-6-1	3 bar to 30 bar	0.02 bar

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121	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum(Dial Gauges, Digital Gauges' Vacuum Transmitter, Vacuum Switch)	Using Digital pressure Calibrator With Vacuum Pump as per DKD - R6- 1	(-) 0.94 bar to 0 bar	0.6 mbar
122	MECHANICAL-VOLUME	Burette, Conical Flask, Graduated Jar, Measuring Cylinder, Measuring Flask	Using Balances (Readability 0.01 mg) Double Distilled Water by Gravimetric method As per ISO 4787-2021	1 ml to 100 ml	0.033 ml
123	MECHANICAL-VOLUME	Graduated Cylinder/ Measuring Flask/Jar	Using Balances(Readability 1 mg), Double Distilled water By Gravimetric Method as Per ISO 4787-2021	100 ml to 500 ml	0.09 ml
124	MECHANICAL-VOLUME	Graduated Cylinder/ Measuring Flask/Jar	Using Balances (Readability: 1 mg) Double Distilled Water by Gravimetric method as per ISO 4787-2021	500 ml to 2000 ml	0.56 ml

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125	MECHANICAL-VOLUME	Pipette	Using Balances Readability 0.001 mg, Double Distilled water By Gravimetric Method As Per ISO:8655-6(2022)	1 µl to 10 µl	0.03 µl
126	MECHANICAL-VOLUME	Pipette	Using Balances Readability 0.01 mg, Double Distilled Water By Gravimetric Method As Per ISO:4787(2010)	1 ml to 25 ml	0.01 ml
127	MECHANICAL-VOLUME	Pipette	Using Balances (Readability: 0.001 mg) Double Distilled Water By Gravimetric Method as Per ISO:8655-6-2022	10 µl to 100 µl	0.34 µl
128	MECHANICAL-VOLUME	Pipette	Using Balances (Readability: 0.01 mg) double Distilled Water By Gravimetric Method As per ISO:8655-6-2022	100 µl to 1 ml	10 µl

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129	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance (Readability: 1mg) and Coarser (Class I and Coarser)	Using Standard Weights E1 class & E2 Class Based on OIMLR76 (2006)	0 to 1 kg	6.8 mg
130	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance (Readability: 1 mg) (Class I and Coarser)	Using Standard Weights E1 Class & F1 Class Based on OIMLR76	0 to 3000 g	2.2 mg
131	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance (Readability: 50 g) (Class IIII)	Using Standard Weights F1 &M1 Class Based on OIMLR76 (2006)	0 to 150 kg	69 g
132	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance Readability 100 mg and Coarser (Class II and Coarser)	Using Standard Weights F1 Class Based on OIMLR 76(2006)	0 to 10 kg	100 mg
133	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 100 mg and Coarser) (Class II and Coarser)	Using Standard Weights F1 Class Based on OIMLR 76 (2006)	0 to 50 kg	100 mg
134	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 100 g and Coarser) (Class IIII)	Using Standard Weights M1 Class Based on OIMLR 76 (2006)	150 kg to 300 kg	208 g
135	MECHANICAL-WEIGHING SCALE AND BALANCE	Weiging Balance (Readability: 1 µg and Coarser) (Class I and Coarser)	Using Standard Weights E1 Class based on OIMLR 76 (2006)	0 to 6.1 g	0.0072 mg

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136	MECHANICAL-WEIGHING SCALE AND BALANCE	Weiging Balance (Readability:10 µg and Coarser) (Class I and Coarser)	Using Standard Weights E1 Class based on OIMLR 76 (2006)	0 to 210 g	0.03 mg
137	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1 , Weighing balance (0 to 6.1 g, Readability: 1 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	1 g	0.003 mg
138	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1,weighing balance(0 to 6.1g) by Substitution Method ABBA Microbalance of Readability 1Âµg based on OIML ,R 111(2004)	1 mg	0.002 mg
139	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1, weighing balance(0 to 210 g, Readability: 10 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	10 g	0.012 mg

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140	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1 , Weighing balance (0 to 6.1 g, Readability: 1 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	10 mg	0.002 mg
141	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1, weighing balance(0 to 210 g, Readability: 10 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	100 g	0.039 mg
142	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1 , Weighing balance (0 to 6.1 g, Readability: 1 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	100 mg	0.002 mg

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143	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1 , Weighing balance (0 to 6.1 g, Readability: 1 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	2 g	0.004 mg
144	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1 , Weighing balance (0 to 6.1 g, Readability: 1 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	2 mg	0.002 mg
145	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1, weighing balance(0 to 210 g, Readability: 10 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	20 g	0.013 mg

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146	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1 , Weighing balance (0 to 6.1 g, Readability: 1 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	20 mg	0.002 mg
147	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1, weighing balance(0 to 210 g, Readability: 10 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	200 g	0.074 mg
148	MECHANICAL-WEIGHTS	Accuracy Class E2 & coarser	Using Standard Weights Accuracy Class E1,weighing balance (0 to 6.1 g, Readability: 1 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	200 mg	0.002 mg

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149	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1 , Weighing balance (0 to 6.1 g, Readability: 1 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	5 g	0.004 mg
150	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1 , Weighing balance (0 to 6.1 g, Readability: 1 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	5 mg	0.002 mg
151	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1, weighing balance(0 to 210 g, Readability: 10 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	50 g	0.022 mg

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152	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1 , Weighing balance (0 to 6.1 g, Readability: 1 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	50 mg	0.002 mg
153	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weights Accuracy Class E1 , Weighing balance (0 to 6.1 g, Readability: 1 µg) by Substitution/ ABBA Method as per OIML R 111(2004)	500 mg	0.003 mg
154	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights Accuracy Class E2,weighing balance(0 to 3000 g, Readability: 0.001 g) by Substitution/ ABBA Method as per OIML R 111(2004)	1000 g	1.2 mg

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155	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights Accuracy Class E2, weighing balance (0 to 3000 g, Readability: 0.001 g) by Substitution/ ABBA Method as per OIML R 111	2000 g	1.89 mg
156	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights Accuracy Class E2, Weighing Balance (0 to 3000 g, Readability: 0.001 g) by Substitution/ ABBA Method as per OIML R 111(2004)	500 g	0.93 mg
157	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Standard Weights Accuracy Class F1, weighing balance (0 to 10000 g, Readability: 0.1 g) by Substitution/ABBA Method as per OIML R 111(2004)	10 kg	111 mg

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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)(±)
158	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Standard Weights Accuracy Class F1, weighing balance (0 to 50000 g, Readability: 0.1 g) by Substitution/ ABBA Method as per OIML R 111(2004)	20 kg	122 mg
159	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Standard Weights Accuracy Class F1, weighing balance (0 to 50000 g, Readability: 0.1 g) by Substitution/ ABBA Method as per OIML R 111(2004)	50 kg	400 mg
160	MECHANICAL-WEIGHTS	Accuracy class M2 & coarser	Using Standard Weights Accuracy Class F1, Weighing balance (0 to 10000 g, Readability: 0.1 g) by Substitution/ ABBA Method as per OIML R 111(2004)	5000 g	111 mg

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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)(±)
161	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Sensor with indicator Dry & Wet bulb Thermometer , thermo hygrometer, Humidity indicator with inbuilt or External sensor, Temperature and Humidity indicator with sensor, Digital and Analog	Using Temp & Humidity indicator with sensor , Humidity chamberby comparison method: DKD –R5-7	15 % rh to 95 % rh @ 25 °C	1.05 % rh
162	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Sensor with indicator, Dry & Wet bulb Thermometer ,thermo hygrometer, Humidity indicator with inbuilt or External sensor, Temperature and Humidity indicator with sensor, Digital and Analog	Using Temp & Humidity indicator with sensor by comparison method: DKD –R5-7	5 °C to 50 °C	0.67 °C
163	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity indicator with sensor of Climatic/ Environmental Chamber, Climatic Chambers (Single Position)	Using Temperature Humidity Indicator with Sensors by comparison method as per DKD –R5-7	5 °C to 50 °C	0.42 °C

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164	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Humidity indicator with sensor of Climatic/ Environmental Chamber, Climatic Chambers (Single Position	Using Temperature Humidity Indicator with Sensors by comparison method as per DKD- R5-7	15 % rh to 95 % rh @ 25 °C	0.74 % rh
165	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Temperature Gauge, Dial Type Thermometers	Using SSPRT with Sensor , Liquid bath by Comparison method	(-) 80 °C to 0 °C	0.22 °C
166	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Temperature Gauge, Dial Type Thermometers	Using SSPRT with Sensor , Liquid bath by Comparison method	0 °C to 100 °C	0.61 °C
167	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Temperature Gauge, Dial Type Thermometers	Using SSPRT with indicator, Liquid bath by comparison method	100 °C to 250 °C	0.61 °C

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168	THERMAL-TEMPERATURE	Non Contact Thermometer / Pyrometer/ Infrared Thermometer/ Infrared Temperature Gun/ Thermal Imaging Camera (temperature only)/ IR Sensor/ Portable/on Line IR radiation Thermometer	Using Infrared Thermometer (emissivity 0.95) and Black body Furnace by comparison Method MSL technical guide 22 :2017	0 °C to 300 °C	3.13 °C
169	THERMAL-TEMPERATURE	Non Contact Thermometer / Pyrometer /Infrared Thermometer/Infrared Temperature Gun/Thermal Imaging Camera(temperature only)/ IR Sensor /Portable/on Line IR radiation Thermometer	Using Infrared Thermometer (emissivity 0.95) and Black body Furnace by comparison Method	300 °C to 1200 °C	3.77 °C

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170	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with & without indicator Dig. Thermometers, Data Loggers with Sensor, Recorders with sensor, Temperature transmitter with indicator,Temp Switch,Temp. Transmitter	Using SSPRT with indicator, 6½ DMM, liquid bath by Comparison method	(-) 80 °C to 250 °C	0.16 °C
171	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with & without indicator Dig. Thermometers, Data Loggers with Sensor, Recorders with sensor, Temperature transmitter with indicator,Temp Switch,Temp. Transmitter	Using SSPRT with indicator, 6½ DMM, liquid bath by Comparison method	250 °C to 600 °C	2 °C
172	THERMAL-TEMPERATURE	Temp indicator with sensor of Dry Block, Oven (Single Position)	Using R-type thermocouple with indicator by Comparison method	800 °C to 1000 °C	2.78 °C

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173	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath, Dry Block, Oven, Incubator, Furnace (Single position)	Using SSPRT with indicator, 6½ DMM by Comparison method	250 °C to 600 °C	1.76 °C
174	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath, Dry Block, Oven, Incubator , Furnace (Single Position)	Using R -Type thermocouple with indicator, 6½ DMM by comparison method	600 °C to 800 °C	2.58 °C
175	THERMAL-TEMPERATURE	Temp indicator with sensor of Refrigerator, Liquid bath, Dry Block, Oven, Incubator, Furnace (Single Position)	Using SSPRT with indcator, 6½ DMM by comparison method	50 °C to 250 °C	0.18 °C
176	THERMAL-TEMPERATURE	Temp indicator with sensor of Dry Block, Oven, Furnace (Single position)	Using R-Type thermocouple with indicator, 6½ DMM by Comparison method	1000 °C to 1500 °C	3.45 °C
177	THERMAL-TEMPERATURE	Temp indicator with sensor of Freezer, Refrigerator, Liquid bath, Dry Block, Oven, Incubator, Furnace (Single Position)	Using SSPRT with indicator, 6½ DMM by Comparison method	(-) 80 °C to 50 °C	0.17 °C

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178	THERMAL-TEMPERATURE	Thermocouple, Dig Thermometers, Temp. Indicator with & without indicator Sensor Data loggers With Sensor, Recorders with Sensor, Temp Switch, Temp Transmitter, Transducer, Muffle Furnace.	Using R Type thermocouple with indicator, 6½ DMM, Fluid less Furnace by comparison method	1000 °C to 1500 °C	3.50 °C
179	THERMAL-TEMPERATURE	Thermocouple, Dig Thermometers, Temp. Indicator with & without indicator Sensor Data loggers With Sensor, Recorders with Sensor, Temp Switch, Temp Transmitter, Transducer, Muffle Furnace.	Using R Type thermocouple with indicator, 6½ DMM, Fluid less Furnace by comparison method:	600 °C to 800 °C	2.64 °C

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180	THERMAL-TEMPERATURE	Thermocouple, Dig Thermometers, Temp. Indicator with & without indicator Sensor Data loggers With Sensor, Recorders with Sensor, Temp Switch, Temp Transmitter, Transducer, Muffle Furnace.	Using R Type thermocouple with indicator, 6½ DMM, Fluid less Furnace by comparison method	800 °C to 1000 °C	2.78 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 KHz	Using 6½ DMM by Direct Method	200 mA to 10 A	0.19 % to 0.3 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy Active Three Phase @ 50 Hz, 30 V to 300 V, 1 A to 120 A, 0.5 PF to UPF (Lag/Lead)	Using Digital Power Analyzer by Direct Method	45 Wh to 108 kWh	0.17 % to 0.4 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy Reactive Three Phase @ 50 Hz, 30 V to 300 V, 1A to 120 A 0.5 PF to UPF (Lag/Lead)	Using Digital Power Analyzer by Direct Method	15 Varh to 115 kVarh	0.17 % to 0.4 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	0.5 kV to 28 kV	6.55 % to 6.45 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power Active Single & Three Phase @ 50 Hz, 30 V to 300 V, 1 A to 120 A, 0.5 PF to UPF (Lag/Lead)	Using Digital Power Analyzer by Direct Method	15 W to 108 kW	0.17 % to 2.45 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power Reactive Single & Three Phase @ 50 Hz, 30 V to 300 V, 1 A to 120 A, 0.5 PF to UPF (Lag/Lead)	Using Digital Power Analyzer by Direct Method	15 Var to 115 kVar	0.17 % to 0.4 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ DMM by Direct Method	1 mV to 100 mV	5.10 % to 0.12 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 KHz	Using 6½ DMM by Direct Method	1 V to 750 V	1.18 % to 0.10 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 KHz	Using 6½ DMM by Direct Method	100 mV to 1 V	0.12 % to 1.18 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonics Order @ 30 V to 240 V and 1 mA to 5 A	Using Digital Power Analyzer by Direct Method	1st Order to 11th Order	0.80 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor	Using Digital Power Analyzer by Direct Method	0.5 PF to 1 UPF (Lag/Lead)	0.004 PF
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using MFC by Direct method	10 A to 20 A	0.3 % to 0.93 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using MFC by Direct method	100 µA to 100 mA	0.5 % to 0.15 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using MFC by Direct method	100 mA to 10 A	0.15 % to 0.3 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using MFC with Current Coil by Direct Method	20 A to 1000 A	0.86 % to 1.11 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using MFC By Direct Method	1 V to 1000 V	0.07 % to 0.1 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using MFC by Direct Method	10 mV to 1 V	4.48 % to 0.07 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using MFC by Direct Method	1 nF to 100 nF	2.16 % to 0.56 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using MFC by Direct Method	100 µF to 1 mF	0.79 % to 1.05 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using MFC by Direct Method	100 nF to 100 µF	0.56 % to 0.79 %

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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	0.1 mA to 1 mA	2.40 % to 0.29 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	1 mA to 100 mA	0.29 % to 0.069 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using MFC by Direct Method	1 mA to 24 mA	2.34 % to 0.12 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	100 mA to 10 A	0.065 % to 0.19 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	0.5 kV to 40 kV	3.2 % to 3.03 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2 & 4 Wire)	Using 6½ DMM by Direct Method	1 M ohm to 100 Mohm	0.052 % to 1.12 %

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27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2 & 4 Wire)	Using 6½ DMM by Direct Method	1 ohm to 100 ohm	0.54 % to 0.017 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2 & 4 Wire)	Using 6½ DMM by Direct Method	100 kohm to 1 M ohm	0.013 % to 0.052 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2 & 4 Wire)	Using 6½ DMM by Direct Method	100 ohm to 100 kohm	0.017 % to 0.013 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	0.5 mV to 1 mV	1.70 % to 0.48 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using MFC by Direct Method	1 mV to 10 mV	7.96 % to 0.65 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	1 mV to 100 mV	0.48 % to 0.046 %

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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using MFC by Direct Method	10 mV to 100 mV	0.63 % to 0.066 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	100 mV to 1000 V	0.046 % to 0.008 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using MFC By Direct Method	100 mV to 20 V	0.066 % to 0.13 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 & 4 Wire)	Using Discrete Standard 4 Wire Low Resistance by direct Method	1 miliohm	0.22 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 & 4 Wire)	Using Discrete standard 4 wire Low resistance by Direct Method	1 ohm	0.58 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 & 4 Wire)	Using Discrete Standard 4 Wire Low Resistance by Direct Method	10 miliohm	0.59 %

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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 & 4 Wire)	Using Discrete Standard 4 Wire Low Resistance By direct Method	100 µohm	0.89 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 & 4 Wire)	Using Discrete Standard 4 Wire Low Resistance By direct Method	100 miliohm	0.15 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 & 4 Wire)	Using Discrete Standard 4 Wire Low Resistance by direct Method	50 µohm	1.5 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	10 µA to 100 mA	0.29 % to 0.04 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	10 A to 20 A	0.11 % to 0.12 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	100 mA to 10 A	0.04 % to 0.13 %

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45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC with current coil by Direct Method	20 A to 1000 A	0.70 % to 1 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 & 4 Wire)	Using Resistance Box by Direct Method:	1 ohm to 1 Mohm	1.49 % to 1.16 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 & 4 Wire)	Using MFC by Direct Method	1 Mohm to 100 Mohm	0.070 % to 0.35 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 & 4 Wire)	Using MFC by Direct Method	1 ohm to 10 ohm	1.46 % to 0.17 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 & 4 Wire)	Using MFC by Direct Method	10 ohm to 100 ohm	0.17 % to 0.04 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 & 4 Wire)	Using MFC by Direct Method	100 ohm to 1 Mohm	0.04 % to 0.070 %

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51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	1 mV to 10 mV	0.76 % to 0.09 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	1 V to 1000 V	0.014 % to 0.010 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	10 mV to 1 V	0.09 % to 0.014 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ 1000 V	Using High Resistance Box by Direct Method	1 Gohm	4.53 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ 1000 V	Using High Resistance Box by Direct Method	10 Mohm	6.70 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ 1000 V	Using High Resistance Box by Direct method	100 Mohm	3.46 %

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57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ 1000 V	Using High Resistance Box by direct method	200 Mohm	4.54 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ 1000 V	Using Mega Ohm Meter by direct Method	5 Mohm	3.60 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ 1000 V	Using High Resistance Box by Direct Method	500 Mohm	4.53 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 & 4 Wire)	Using Discrete Standard 4 wire Low Resistance By Direct method	10 µohm	5.78 %
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using MFC by Direct method:	(-) 200 °C to 1200 °C	0.3 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K- Type Thermocouple	Using MFC by Direct method:	(-) 200 °C to 1300 °C	0.32 °C

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63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using MFC by Direct Method	0 °C to 1750 °C	0.84 °C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100) type	Using MFC by Direct Method	(-) 200 °C to 850 °C	0.52 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using MFC by Direct Method	0 °C to 1750 °C	0.81 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using MFC by Direct Method	0 °C to 400 °C	0.26 °C
67	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ DMM by Direct Method	50 Hz to 300 kHz	0.011 % to 0.011 %
68	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital time calibrator by comparison method	1 hr to 24 hr	1.80 s to 92 s

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69	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital time calibrator by comparison method	1 s to 30 min	0.15 s to 0.89 s
70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital time calibrator by comparison method	30 min to 1 hr	0.89 s to 1.80 s
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MFC by Direct Method	10 Hz to 10 MHz	0.058 % to 0.0081 %
72	FLUID FLOW-FLOW MEASURING DEVICES	Volumetric Flow Rate (Medium Liquid)	Using Ultrasonic Flow meter S1, M2, L2 sensor by Comparison Method	2 m^3/hr to 100 m^3/hr	2.2 %
73	MECHANICAL-ACCELERATION AND SPEED	RPM Meter /Speed Centrifuge (Contact type)	Using Digital Tachometer by Comparison Method	10 rpm to 3000 rpm	2.6 rpm
74	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Speed meter, Centrifuge (Non- Contact type)	Using Digital Tachometer by Comparison Method	500 rpm to 5000 rpm	4.1 rpm
75	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Speed Meter, Centrifuge (Non- Contact type)	Using Digital Tachometer by Comparison Method	10 rpm to 500 rpm	0.74 rpm

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76	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Speed Meter, Centrifuge (Non- Contact)	Using Digital Tachometer by Comparison Method	5000 rpm to 50000 rpm	5.9 rpm
77	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Speed Meter, Centrifuge (Non- Contact)	Using Digital Tachometer by Comparison Method	50000 rpm to 90000 rpm	9.94 rpm
78	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope (Non-Contact type)	Using Digital Tachometer and RPM calibrator by Comparison Method:	10 rpm to 500 rpm	0.74 rpm
79	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope (Non-Contact type)	Using Digital Tachometer and RPM calibrator by Comparison Method	50000 rpm to 90000 rpm	9.94 rpm
80	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope (Contact type)	Using Digital Tachometer and RPM calibrator by Comparison Method:	10 rpm to 3000 rpm	2.6 rpm
81	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope (Non-Contact type)	Using Digital Tachometer and RPM calibrator by Comparison Method	500 rpm to 5000 rpm	4.1 rpm
82	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope (Non-Contact type)	Using Digital Tachometer by Comparison Method	5000 rpm to 50000 rpm	5.9 rpm
83	MECHANICAL-ACOUSTICS	Sound Level Meter	Using sound Level Calibrator By Direct Method:	94 dB to 114 dB	1.26 dB

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84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C.:10 µm	Using Caliper Checker, Length Bar &Surface Plate by Comparison Method	0 to 600 mm	14.3 µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge(Vernier/Dial/ Digital) L.C.:10 µm	Using Length Bar, Gauge Block, Surface Plate, Dial Gauge, Precision Square by comparison Method	0 to 1000 mm	19.4 µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface plate	Using Electronic Level/Spirit level by comparison method:	up to 5100 mm x 5100 mm	1.3* v(L+W/150) µm
87	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic (Dial Pressure Gauges, Digital Pressure Gauges, Pressure Transmitter, Pressure Switch, Pressure Recorder)	Using Digital pressure indicator, Hydraulic Pump, 6½ DMM by comparison method as per DKDR6-1	70 bar to 700 bar	0.21 bar

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88	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic(Dial Pressure Gauges, Digital Pressure Gauges, Pressure Transmitter, Pressure Switch, Pressure Recorder)	Using Digital pressure indicator, Hydraulic Pump, 6½ DMM by comparison method as per DKDR6-1	30 bar to 300 bar	0.05 bar
89	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic(Dial Pressure Gauges, Digital Pressure Gauges, Pressure Transmitter, Pressure Switch,Pressure Recorder)	Using Digital pressure indicator, Hydraulic Pump, 6½ DMM by comparison method as per DKDR6-1	100 bar to 1000 bar	0.52 bar
90	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauges, Differential pressure gauge, Manometer, Magnehelic Gauge.	Using Digital pressure Calibrator With Low Pressure Pump DKD-R-6-1	(-) 20 mbar to 20 mbar	0.024 mbar
91	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauges, Differential Pressure Gauge, Manometer, Magnehelic Gauge.	Using Digital pressure Calibrator With Low Pressure Pump DKD-R-6-1	0 to 2 mbar	0.0063 mbar
92	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauges, Differential Pressure Gauge, Manometer, Magnehelic Gauge.	Using Digital pressure Calibrator With Low Pressure Pump DKD-R-6-1	10 mbar to 100 mbar	0.22 mbar

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93	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauges, Differential Pressure Gauge, Manometer, Magnehelic Gauge.	Using Digital pressure indicator, Low pressure pump, 6½ DMM by comparison method as per DKD-R6-1	100 mbar to 1000 mbar	0.6 mbar
94	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic (Dial Pressure Gauge, Digital Pressure Gauge, Pressure Transmitter, Pressure Switch,Pressure Recorder)	Using Digital Pressure Gauge with Pneumatic Pump and 6½ DMM DKD-R-6-1	0 to 3 bar	0.099 bar
95	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic(Dial Pressure Gauge,Digital Pressure Gauge, Pressure Transmitter,Pressure Switch,Pressure Recorder)	Using Digital Pressure Gauge with Pneumatic Pump and 6½ DMM DKD-R-6-1	1 bar to 10 bar	0.0081 bar
96	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic(Dial Pressure gauge, Digital Pressure Gauge, Pressure Transmitter, Pressure Switch, Pressure Recorder)	Using Digital Pressure Gauge with Pneumatic Pump and 6½ DMM DKD-R-6-1	3 bar to 30 bar	0.02 bar

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97	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum(Dial Gauges, Digital Gauges' Vacuum Transmitter, Vacuum Switch)	Using Digital pressure Calibrator With Vacuum Pump as per DKD - R6- 1	(-) 0.94 bar to 0 bar	0.6 mbar
98	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance (Readability: 1mg) and Coarser (Class I and Coarser)	Using Standard Weights E1 class & E2 Class Based on OIMLR76 (2006)	0 to 1 kg	6.8 mg
99	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance (Readability: 1 mg) (Class I and Coarser)	Using Standard Weights E1 Class & F1 Class Based on OIMLR76	0 to 3000 g	2.2 mg
100	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance (Readability: 50 g) (Class IIII)	Using Standard Weights F1 &M1 Class Based on OIMLR76 (2006)	0 to 150 kg	69 g
101	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance Readability 100 mg and Coarser (Class II and Coarser)	Using Standard Weights F1 Class Based on OIMLR 76(2006)	0 to 10 kg	100 mg
102	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 100 mg and Coarser) (Class II and Coarser)	Using Standard Weights F1 Class Based on OIMLR 76 (2006)	0 to 50 kg	100 mg
103	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 100 g and Coarser) (Class IIII)	Using Standard Weights M1 Class Based on OIMLR 76 (2006)	150 kg to 300 kg	208 g

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104	MECHANICAL-WEIGHING SCALE AND BALANCE	Weiging Balance (Readability: 1 µg and Coarser) (Class I and Coarser)	Using Standard Weights E1 Class based on OIMLR 76 (2006)	0 to 6.1 g	0.0072 mg
105	MECHANICAL-WEIGHING SCALE AND BALANCE	Weiging Balance (Readability:10 µg and Coarser) (Class I and Coarser)	Using Standard Weights E1 Class based on OIMLR 76 (2006)	0 to 210 g	0.03 mg
106	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Sensor with indicator Dry & Wet bulb Thermometer , thermo hygrometer, Humidity indicator with inbuilt or External sensor, Temperature and Humidity indicator with sensor, Digital and Analog	Using Temp & Humidity indicator with sensor , Humidity chamberby comparison method: DKD –R5-7	15 % rh to 95 % rh @ 25 °C	1.05 % rh
107	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Sensor with indicator, Dry & Wet bulb Thermometer ,thermo hygrometer, Humidity indicator with inbuilt or External sensor, Temperature and Humidity indicator with sensor, Digital and Analog	Using Temp & Humidity indicator with sensor by comparison method: DKD –R5-7	5 °C to 50 °C	0.67 °C

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108	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity indicator with sensor of Climatic/ Environmental Chamber, Climatic Chambers (Single Position)	Using Temperature Humidity Indicator with Sensors by comparison method as per DKD –R5-7	5 °C to 50 °C	0.42 °C
109	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Humidity indicator with sensor of Climatic/ Environmental Chamber, Climatic Chambers (Single Position	Using Temperature Humidity Indicator with Sensors by comparison method as per DKD- R5-7	15 % rh to 95 % rh @ 25 °C	0.74 % rh
110	THERMAL-TEMPERATURE	Oven, Furnace (multi position)	Using RTD sensor (minimum 9 sensor) with nine channel data loggers by multiposition method	200 °C to 400 °C	2.68 °C

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111	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with & Without indicator Dig. Thermometers, Data Loggers with Sensor, Recorders with sensor, Temperature transmitter With indicator, Temp Switch, Temp. Transmitter	Using RTD Sensor with indicator by comparison method	250 °C to 400 °C	0.64 °C
112	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Temperature Gauge, Dial Type Thermometers	Using RTD Sensor with indicator, liquid bath by comparison method	(-) 30 °C to 100 °C	0.64 °C
113	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Temperature Gauge, Dial Type Thermometers	Using RTD Sensor with indicator, liquid bath by comparison method	100 °C to 250 °C	2.16 °C

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114	THERMAL-TEMPERATURE	Non Contact Thermometer / Pyrometer/ Infrared Thermometer/ Infrared Temperature Gun/ Thermal Imaging Camera (temperature only)/ IR Sensor/ Portable/on Line IR radiation Thermometer	Using Infrared Thermometer (emissivity 0.95) and Black body Furnace by comparison Method MSL technical guide 22 :2017	0 °C to 300 °C	3.13 °C
115	THERMAL-TEMPERATURE	Non Contact Thermometer / Pyrometer /Infrared Thermometer/Infrared Temperature Gun/Thermal Imaging Camera(temperature only)/ IR Sensor /Portable/on Line IR radiation Thermometer	Using Infrared Thermometer (emissivity 0.95) and Black body Furnace by comparison Method	300 °C to 1200 °C	3.77 °C

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116	THERMAL-TEMPERATURE	Refrigerator\deep Freezers, Autoclaves (Non Medical Purpose only), Cold Chamber / Environmental chamber/ Oven/Incubator (Non Medical Purpose only) / Furnace (multiposition)	Using RTD (minimum 9 sensor) with nine channel data loggers by multiposition method	(-) 80 °C to 200 °C	2.04 °C
117	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with & Without indicator Dig. Thermometers, Data Loggers with Sensor, Recorders with sensor, Temperature transmitter With indicator, Temp Switch, Temp. Transmitter	Using RTD Sensor with indicator, 6½ DMM, liquid bath by Comparison method	(-) 30 °C to 250 °C	0.64 °C
118	THERMAL-TEMPERATURE	Temp indicator with sensor of Dry Block, Furnace Oven (Single Position)	Using R Type thermocouple with indicator by Comparison method	600 °C to 1000 °C	2.87 °C
119	THERMAL-TEMPERATURE	Temp indicator with sensor of Dry Block, Furnace, Oven (Single position)	Using R type Thermocouple with indicator by comparison method	400 °C to 600 °C	2.10 °C

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120	THERMAL-TEMPERATURE	Temp indicator with sensor of Dry Block, Furnace, Oven (single Position)	Using R Type Thermocouple with Indicator by comparison method	1000 °C to 1500 °C	3.68 °C
121	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath, Dry Block, Furnace Oven, Incubator, Freezer (single Position)	Using RTD Sensor with indicator by comparison method	(-) 80 °C to 250 °C	0.64 °C
122	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath, Dry Block, Furnace, Oven (single Position)	Using RTD Sensor with indicator by comparison method	250 °C to 400 °C	2.08 °C
123	THERMAL-TEMPERATURE	Thermocouple with & Without indicator Dig. Thermometers, Data Loggers with Sensor, Recorders with sensor, Temperature transmitter With indicator, Temp Switch, Temp. Transmitter	Using R type thermocouple with indicator, 6½ DMM, Fluid less furnace by comparison method	400 °C to 600 °C	2.26 °C

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124	THERMAL-TEMPERATURE	Thermocouple, Dig Thermometers Temp. Indicator with & without sensor , Data loggers With Sensor, Recorders with Sensor, Temp Switch, Temp Transmitter, Transducer, Muffle Furnace.	Using R Type thermocouple with indicator,6½ DMM, Fluid less Furnace by comparison method	1000 °C to 1500 °C	3.50 °C
125	THERMAL-TEMPERATURE	Thermocouple, Dig Thermometers Temp. Indicator with & without sensor , Data loggers With Sensor, Recorders with Sensor, Temp Switch, Temp Transmitter, Transducer, Muffle Furnace.	Using R Type thermocouple with indicator,6½ DMM, Fluid less Furnace by comparison method	600 °C to 800 °C	3.03 °C

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126	THERMAL-TEMPERATURE	Thermocouple, Dig Thermometers Temp. Indicator with & without sensor , Data loggers With Sensor, Recorders with Sensor, Temp Switch, Temp Transmitter, Transducer, Muffle Furnace.	Using R Type thermocouple with indicator,6½ DMM, Fluid less Furnace by comparison method	800 °C to 1000 °C	3.20 °C

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