



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

UNIVERSAL CALIBRATION SERVICES PVT. LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

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

for its facilities at

PLOT NO-G-43/1&2, G-44/1&2, G-BLOCK, AJANTA NAGAR, MIDC, CHINCHWAD, PUNE,
MAHARASHTRA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2412

Issue Date: 10/09/2022

Valid Until: 09/09/2024

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

Name of Legal Entity: UNIVERSAL CALIBRATION SERVICES PVT. LIMITED

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : UNIVERSAL CALIBRATION SERVICES PVT. LIMITED, PLOT NO-G-43/1&2, G-44/1&2, G-BLOCK, AJANTA NAGAR, MIDC, CHINCHWAD, PUNE, 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)	1 & 3 Phase Energy (240V, 5A & UPF) @ 50Hz	Using Energy calibrator, Power analyzer and energy source by Direct/ Comparison method	1.2 Wh to 100 kWh	1.18 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-1kHz)	Using 6½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	1 A to 10 A	0.20 % to 0.30 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-1kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 A to 20 A	0.15 % to 0.12 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-1kHz)	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	100 µA to 1 A	0.55 % to 0.20 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-5kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	1 mA to 200 mA	0.09 % to 0.06 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-5kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 µA to 200 µA	0.3 % to 0.05 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-5kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	200 µA to 1 mA	0.05 % to 0.09 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-5kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	200 mA to 10 A	0.06 % to 0.15 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (1kHz-5kHz)	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	100 µA to 1 A	0.55 % to 0.20 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (1 kHz-5 kHz)	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	1 A to 3 A	0.20 % to 0.41 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @ (50Hz)	Using C.T., 6½ Digital Multimeter & Current source by Direct/ Comparison method	20 A to 2000 A	2.10 % to 2.40 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @ (50Hz)	Using HV Divider & HV source by Direct/ Comparison method	1 kV to 20 kV	2.40 % to 2.60 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10Hz-10kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 mV to 200 mV	0.20 % to 0.025 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10Hz-10kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	200 mV to 1 V	0.025 % to 0.041 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10Hz-20kHz)	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 mV to 1000 V	0.90 % to 0.15 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10kHz-100kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 mV to 20 V	0.33 % to 0.08 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (20kHz)	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 mV to 700 V	0.75 % to 0.25 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10 Hz-10 kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	1 V to 1000 V	0.041 % to 0.020 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10 kHz-100 kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	20 V to 100 V	0.08 % to 0.79 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ (1kHz)	Using 6½ Digital Multimeter by Direct/ Comparison method	1 nF to 10 mF	5.47 % to 1.85 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ (1kHz)	Using 6½ Digital Multimeter by Direct/ Comparison method	10 mF to 100 mF	1.87 % to 4.90 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (10Hz-1kHz)	Using Multiproduct Calibrator by Direct method	30 µA to 3 A	0.62 % to 0.09 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (1kHz-5kHz)	Using Multiproduct Calibrator by Direct method	330 mA to 10 A	0.2 % to 3.5 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (50Hz-60Hz)	Using Multiproduct Calibrator with Current Coil by Direct method	10 A to 1000 A	0.51 % to 0.61 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (1 kHz-5 kHz)	Using Multiproduct Calibrator by Direct method	30 µA to 330 mA	0.95 % to 1.04 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (45 Hz-1 kHz)	Using Multiproduct Calibrator by Direct method	3 A to 20 A	0.09 % to 0.21 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (1&3 Phase) 50Hz-60Hz/ 0.2pF to 1pF(Lead & Lag)/ 30V to 500V/ 10mA to 20A	Using Multiproduct Calibrator by Direct method	60 mW to 10 kW	1.8 % to 0.38 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10Hz-45Hz)	Using Multiproduct Calibrator by Direct method	1 mV to 33 V	0.9 % to 0.05 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10kHz-100kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 330 mV	0.5 % to 0.15 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10kHz-100kHz)	Using Multiproduct Calibrator by Direct method	330 mV to 330 V	0.15 % to 0.32 %



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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (45Hz-10kHz)	Using Multiproduct Calibrator by Direct method	1 mV to 330 mV	0.8 % to 0.02 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (45Hz-10kHz)	Using Multiproduct Calibrator by Direct method	330 mV to 1000 V	0.02 % to 0.04 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ (1kHz)	Using Multiproduct Calibrator by Direct method	220 pF to 330 nF	5.85 % to 0.45 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ (1kHz)	Using Multiproduct Calibrator by Direct method	330 nF to 30 mF	0.45 % to 1.5 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ (1kHz)	Using Inductance box by Direct Method	1 mH to 10 H	3 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 µA to 20 mA	0.052 % to 0.003 %



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37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	100 µA to 100 mA	0.1 % to 0.07 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	100 mA to 10 A	0.07 % to 0.2 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with 6½ Digital Multimeter & current source by Direct/ Comparison method	20 A to 100 A	1.76 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	20 mA to 20 A	0.003 % to 0.059 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Divider with Indicator & HV source by Direct/ Comparison method	1 kV to 20 kV	1.97 % to 2.10 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	1 mV to 1 V	0.44 % to 0.085 %



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43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	1 V to 1000 V	0.085 % to 0.006 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 µV to 1000 V	5.80 % to 0.0008 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct method	100 ohm to 1 Gohm	0.07 % to 2.6 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8½ Digital Multimeter by Direct method	2 Mohm to 20 Mohm	0.01 % to 0.0035 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8½ Digital Multimeter by Direct method	20 Mohm to 20 Gohm	0.0035 % to 0.3 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire/ 4 Wire)	Using 6½ Digital Multimeter by Direct method	1 ohm to 100 ohm	0.15 % to 0.07 %



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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire/ 4 Wire)	Using 8½ Digital Multimeter by Direct method	100 µhm to 2 Mohm	0.5 % to 0.0015 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 µA to 330 mA	0.25 % to 0.02 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 A to 20 A	0.07 % to 0.026 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with Current Coil by Direct method	20 A to 1000 A	0.52 % to 0.64 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	330 mA to 10 A	0.02 % to 0.07 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 mV to 33 V	0.15 % to 0.002 %



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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	33 V to 1000 V	0.002 % to 0.003 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Standard Resistance box by Direct method	1 Gohm to 200 Gohm	3.55 % to 3.79 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multiproduct Calibrator by Direct method	1 Mohm to 10 Mohm	0.004 % to 0.03 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multiproduct Calibrator by Direct method	10 Mohm to 330 Mohm	0.03 % to 0.35 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multiproduct Calibrator by Direct method	330 Mohm to 1 Gohm	0.35 % to 0.2 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire/ 4 Wire)	Using Multiproduct Calibrator by Direct method	1 µohm to 1 Mohm	0.09 % to 5.77 %



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61	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity meter	Using Multiproduct Calibrator by Simulation method	0 to 1000 mS/cm	0.061 % to 2.88 %
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscopes/ Amplitude	Using Multiproduct Calibrator by Direct method	1 mV to 130 V	4.9 % to 0.35 %
63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscopes/Bandwidth	Using Multiproduct Calibrator by Direct method	50 kHz to 1.1 GHz	4.85 %
64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscopes/Time	Using Multiproduct Calibrator by Direct method	2 ns to 5 s	0.03 % to 0.6 %
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH meter	Using Multiproduct Calibrator by Simulation method	0 to 14 pH	0.01 pH
66	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Power Factor (Lead/Lag) @ 50 Hz /60 Hz	Using Multiproduct Calibrator by Direct method	0.01 PF to 1 PF	0.002 PF



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67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type Thermocouple	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	100 °C to 1800 °C	0.6 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type Thermocouple	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	-200 °C to 1000 °C	0.087 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Thermocouple	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	-200 °C to 1200 °C	0.085 °C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Thermocouple	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	-200 °C to 1300 °C	0.13 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	0 °C to 1700 °C	0.6 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using 8½ Digital Multimeter by Direct method	-200 °C to 800 °C	0.25 °C



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73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Thermocouple	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	0 °C to 1700 °C	0.6 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Thermocouple	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	-200 °C to 400 °C	0.14 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using Multiproduct Calibrator by Direct method	450 °C to 1820 °C	0.8 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 1000 °C	0.15 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 1000 °C	0.6 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 1200 °C	0.6 °C



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79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 1300 °C	0.6 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple	Using Multiproduct Calibrator by Direct method	100 °C to 1700 °C	0.65 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multiproduct Calibrator by Direct method	-200 °C to 800 °C	0.25 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple	Using Multiproduct Calibrator by Direct method	100 °C to 1700 °C	0.65 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 400 °C	0.21 °C
84	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Multiproduct Calibrator by Direct method	1 MHz to 10 MHz	0.016 % to 0.06 %



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85	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	10 Hz to 1 MHz	0.06 % to 0.006 %
86	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	10 Hz to 1000 kHz	0.068 %
87	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison method	2 s to 30 min	0.37 s to 1 s
88	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison method	30 min to 24 hr	1 s to 104.77 s
89	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct method	1 MHz to 10 MHz	0.08 % to 0.15 %
90	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct method	10 Hz to 1 MHz	0.058 % to 0.08 %



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91	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Contact)	Using Tachometer (source RPM generator/Calibrator) by Comparison method	>1000 rpm to 4000 rpm	10 rpm
92	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Contact)	Using Tachometer (source RPM generator/Calibrator) by Comparison method	10 rpm to 100 rpm	0.52 rpm
93	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Contact)	Using Tachometer (source RPM generator/Calibrator) by Comparison method	100 rpm to 1000 rpm	3.5 rpm
94	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Non-Contact)	Using Tachometer (source RPM generator/Calibrator) by Comparison method	10 rpm to 100 rpm	0.52 rpm
95	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Non-Contact)	Using Tachometer (source RPM generator/Calibrator) by Comparison method	100 rpm to 4000 rpm	3.7 rpm
96	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Non-Contact)	Using Tachometer (source RPM generator/Calibrator) by Comparison method	>4000 rpm to 90000 rpm	27.49 rpm



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97	MECHANICAL-ACCELERATION AND SPEED	Speed RPM of Stirrer	Using Tachometer (source RPM generator/Calibrator) by Comparison method	10 rpm to 100 rpm	0.52 rpm
98	MECHANICAL-ACCELERATION AND SPEED	Speed RPM of Stirrer	Using Tachometer (source RPM generator/Calibrator) by Comparison method	100 rpm to 4000 rpm	3.7 rpm
99	MECHANICAL-ACCELERATION AND SPEED	Vibration meter Acceleration meter @ 636.6 Hz	Using Vibration meter calibrator by Comparison method as per ISO : 16063-21	1 m/s ² @ 636.6 Hz	0.078 m/s ²
100	MECHANICAL-ACCELERATION AND SPEED	Vibration meter/ Acceleration meter @ (79.58 Hz & 159.2 Hz)	Using Vibration meter calibrator by Comparison method as per ISO : 16063-21	1 m/s ² to 10 m/s ² @ (79.58 Hz & 159.2 Hz)	0.26 m/s ²
101	MECHANICAL-ACCELERATION AND SPEED	Vibration meter/ Acceleration meter @ 15.92 Hz	Using Vibration meter calibrator by Comparison method as per ISO : 16063-21	1 m/s ² @ 15.92 Hz	0.074 m/s ²
102	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1kHz	Using Sound level Generator Calibrator by Direct method	94 dB & 114 dB	1.8 dB



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103	MECHANICAL-DENSITY AND VISCOSITY	Flow cups	Using Viscosity Standard by Comparison method	10 cSt to 500 cSt	1 %
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Paddle Gauge	Using 2D Electronics Height gauge by Comparison method	Up to 600 mm	10 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates	Using Video Measuring Machine by Comparison method	Up to 200 mm	10 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using 2D Electronics Height gauge by Comparison method	Up to 600 mm	10 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle/Angle template	Using Video Measuring Machine by Comparison method	0° to 360°	4.6 Arc of minute



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108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector L.C.- 5 minute	Using Angle Slip Gauge by Comparison method	0°-90°-0°	6.5 minute of arc
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge with or without Dial - Transmission stroke (All ranges) L.C-0.001 mm	Using Dial Calibration Tester by Comparison method	0 to 2 mm	3 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CD/PCD Gauge	Using Video Measuring Machine by Comparison method	Up to 200 mm	10 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CD/PCD Gauge	Using 2D Electronics Height gauge by Comparison method	Up to 600 mm	10 µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C.-1 µm	Using Coating Thickness Foils by Comparison method	0 to 2 mm	5 µm



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113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set L.C.-1 °	Using Angle Slip Gauge by comparison method	0°-90°-0°	35 minute of arc
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube mould	Using Video Measuring Machine by Comparison method	Up to 200 mm	10 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube mould	Using 2D Electronics Height gauge by Comparison method	Up to 600 mm	10 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C.- 0.001mm	Using Slip gauge & Accessories by Comparison method	0 to 300 mm	7 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Caliper L.C.-0.01 mm	Using Slip gauge & Accessories by Comparison method	0 to 300 mm	15 µm



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118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Caliper L.C.-0.02 mm	Using Slip gauge & Accessories by Comparison method	0 to 600 mm	25 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial/Digital Thickness Gauge L.C-0.001 mm	Using Slip gauge & Accessories by Comparison method	0 to 1 mm	2 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial/Digital Thickness Gauge L.C-0.01 mm	Using Slip gauge & Accessories by Comparison method	0 to 25 mm	7.60 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer - Traverse	Using Extensometer Calibrator by Comparison Method as per ASTM E-83	Up to 5 mm	5 µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer - Traverse	Using Extensometer Calibrator by Comparison Method as per IS : 12872 : 2021,ISO 9513 : 2012	Up to 5 mm	5 µm



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123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.-0.001mm	Using Slip Gauge by Comparison method	0 to 100 mm	2 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.-0.01mm	Using Slip gauge & Accessories by Comparison method	>100 mm to 300 mm	8 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.-0.01mm	Using Slip gauge & Accessories by Comparison method	>300 mm to 1000 mm	15 µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using probe with DRO by Comparison method	0.01 mm to 1 mm	2.50 µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hi-Lo, Limit Gauge	Using Video measuring machine & '0' grade slip gauge by Comparison method	Up to 200 mm	10 µm



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128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer L.C.-0.1°	Using Angle Gauge by Comparison method	0°-90°-0°	0.1 °
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inspection JIG & Fixture	Using Video Measuring Machine by Comparison method	Up to 200 mm	10 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inspection JIG & Fixture	Using 2D Electronics Height gauge by Comparison method	Up to 600 mm	10 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C.-0.01 mm	Using Slip gauge & DRO with probe by Comparison method	>300 mm to 1000 mm	13 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C.-0.01 mm	Using Slip gauge & DRO with probe by Comparison method	0.01 mm to 300 mm	8 µm



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133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial L.C.-0.001 mm	Using Dial Calibration Tester by Comparison method	0 to 2 mm	2 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin Gauge	Using probe with Comparator stand by Comparison method	0.10 mm to 20 mm	2 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale L.C.-0.5 mm	Using Tape & Scale Calibrator by Comparison method	0 to 2000 mm	118xSQRT(L) µm where L in m
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/Pie Tape L.C: 1 mm	Using Tape & Scale Calibrator by Comparison method	0 to 100 m	118xSQRT(L) µm where L in m
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head/Drum L.C.-0.001 mm	Using probe with DRO by comparison method	0 to 25 mm	1.50 µm



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138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod/Height Master	Using Slip gauge & probe with DRO by Comparison method	>275 mm to 1000 mm	9.15 μ m
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod/Height Master	Using Slip gauge & probe with DRO by Comparison method	2 mm to 275 mm	3.50 μ m
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Paddle Gauge	Using Video Measuring Machine by Comparison method	Up to 200 mm	10 μ m
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Paint Thickness Gauge Foils	Using probe with DRO by Comparison method	0.005 mm to 10 mm	1.50 μ m
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C-0.01 mm	Using Slip Gauge by Comparison method	0 to 150 mm	60 μ m



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143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine & Master Ring Gauge by Comparison method	>100 mm to 300 mm	4 µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine & Master Ring Gauge by Comparison method	3 mm to 100 mm	2 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain work piece	Using Video Measuring Machine by Comparison method	Up to 200 mm	10 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain work piece	Using 2D Electronics Height gauge by Comparison method	Up to 600 mm	10 µm
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/Paddle Plug/Master/Keyway Gauges	Using Slip gauge & probe with DRO by Comparison method	>100 mm to 300 mm	4 µm



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148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/Paddle Plug/Master/Keyway Gauges	Using Slip gauge & probe with DRO by Comparison method	0.50 mm to 100 mm	2.30 μ m
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plated Wire Gauges	Using Video Measuring Machine by Comparison method	0 to 50 mm	6 μ m
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial L.C.-0.001 mm	Using Dial Calibration Tester by Comparison method	0 to 25 mm	3 μ m
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial L.C.-0.001 mm	Using Slip Gauge by Comparison method	0 to 50 mm	6 μ m
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Precision Spirit Level Sensitivity 0.02 mm/m Base Length 300 mm	Using Electronic Level by Comparison method	± 1 mm/m	25 μ m/m



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153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge/ Radius Template	Using Video Measuring Machine by Comparison method	0.6 mm to 200 mm	11 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge/Gap Gauge	Using Length Measuring Machine by Comparison method	100 mm to 300 mm	5 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge/Gap Gauge	Using Slip Gauge by Comparison method	0.50 mm to 100 mm	3 µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plates (Cast Iron/Granite)- Flatness	Using Digital level by comparison method	1600 mm x 1000 mm	2.5xSQRT(L+W/125) µm where L and W in mm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	T gauge	Using 2D Electronics Height gauge by Comparison method	Up to 600 mm	10 µm



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158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper scale L.C.: 0.1 mm	Using Video Measuring Machine by Comparison method	0.5 mm to 15 mm	9 µm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates	Using 2D Electronics Height gauge by Comparison method	Up to 600 mm	10 µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture size)	Using Video Measuring Machine by Comparison method	0.01 mm to 125 mm	7 µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge	Using Video Measuring Machine by Comparison method	0.4 mm to 6 mm	6.5 µm
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective, Minor, Major Dia)	Using Length Measuring Machine by Comparison method	>100 mm to 300 mm	4 µm



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163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective, Minor, Major Dia)	Using Floating Carriage Diameter Measuring machine (FCDM m/c) by Comparison method	2 mm to 100 mm	4 μ m
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Dia)	Using Length Measuring Machine & Master Ring Gauge by Comparison method	>100 mm to 300 mm	5 μ m
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Dia)	Using Length Measuring Machine & Master Ring Gauge by Comparison method	3 mm to 100 mm	2 μ m
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tri Square/Engineering Square (Straightness)	Using Master square cylinder, Slip Gauges by Comparison method	Up to 600 mm	1.91 μ m
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tri Square/Engineering Square (Squareness)	Using Master square cylinder, Slip Gauges by Comparison method	Up to 600 mm	15 μ m



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168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tri Square/Engineering Square (Parallelism)	Using electronic probe with DRO by Comparison method	up to 600 mm	1.91 μ m
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block-Symmetry	Using Surface Plate, Test Mandrels & probe with DRO by Comparison method	Up to 200 mm	13 μ m
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block-Parallelism	Using Surface Plate, Test Mandrels & probe with DRO by Comparison method	Up to 200 mm	13 μ m
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block-Squareness	Using Square cylinder, Slip gauge by Comparison method	Up to 200 mm	13 μ m
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper - Plain, Digital & Dial (External, Internal & Depth) L.C.-0.01mm	Using Slip gauge & Accessories by comparison method	0 to 1000 mm	17 μ m



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173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vickers/Knoop/Rock well Diamond Cone Indenter	Using Video Measuring Machine by Comparison method	Up to 200 mm	10 μ m
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Fillet Gauge	Using Video Measuring Machine by Comparison method	0 to 60 mm	10 μ m
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Video Measuring Machine by Comparison method	Up to 200 mm	10 μ m
176	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (Vernier/Dial/Digital) L.C.-0.1 μ m (Linear)	Using Long Slip Gauge by Comparison method	0 to 1000 mm	10 μ m
177	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (Vernier/Dial/Digital) L.C.-0.1 μ m (Squareness)	Using Master square cylinder by comparison method	0 to 1000 mm	5.20 μ m
178	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester L.C.0.1 μ m	Using probe with DRO by Comparison method	0 to 25 mm	1.5 μ m



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179	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe With DRO / Comparator/LVDT L.C.-0.0001 mm	Using Slip Gauge set by Comparison method	0 to 25 mm	1 µm
180	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT L.C: 0.001 mm	Using Slip Gauges, Comparator stand and Digital Multimeter by Comparison method	0 to 100 mm	10 µm
181	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Ra)	Using Surface Roughness Master by Comparison method	0.1 µm to 3 µm	10 %
182	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine (Angular) L.C.: 1 arc second	Using Glass graticule by comparison Method	0 ° to 360 °	15 s
183	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine/Microscope (Linear) L.C.: 0.0001 mm	Using Glass scale by comparison Method	0 to 200 mm	3 µm
184	MECHANICAL-DUROMETER	Durometer	Using Dial Calibration Tester by Depth of Indentor as per ISO 18898 : 2016	10 Shore A/D/AO/AM to 100 Shore A/D/AO/AM	0.9 Shore A/D/AO/AM
185	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push-Pull Gauge/Force Gauge	Using Slotted mass With hanger as per VDI/VDE 2624 Part 2.1	5 N to 500 N	1.5 N



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186	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial and Digital Pressure Gauges, Pressure Transmitters, Transducers, Pressure Switches (Medium:Hydraulic)	Using Digital pressure Calibrator , 6½ Digital Multimeter, Hydraulic pressure pump as per DKD-R 6-1 by Comparison method	>400 bar to 700 bar	0.56 bar
187	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial and Digital Pressure Gauges, Pressure Transmitters, Transducers, Pressure Switches (Medium:Hydraulic)	Using Digital pressure Calibrator, 6½ Digital Multimeter, Hydraulic pressure pump as per DKD-R 6-1 by Comparison method	30 bar to 400 bar	0.15 bar
188	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial and Digital Pressure Gauges, Magnehelic gauges, Pressure Transmitter, Transducers, Pressure Switch (Medium:Pneumatic)	Using Digital pressure Calibrator, 6½ Digital Multimeter, Pneumatic pressure pump as per DKD-R 6-1 by Comparison method	>20 mbar to 200 mbar	0.13 mbar



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189	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial and Digital Pressure Gauges, Pressure Transmitters, Transducers, Pressure Switches (Medium: Pneumatic)	Using Digital pressure Calibrator, 6½ Digital Multimeter ,Pneumatic pressure pump as per DKD-R 6-1 by Comparison method	>0.2 bar to 1 bar	0.00086 bar
190	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial and Digital Pressure Gauges, Pressure Transmitters, Transducers, Pressure Switches (Medium :Pneumatic)	Using Digital pressure Calibrator , 6½ Digital Multimeter, Pneumatic pressure pump as per DKD-R 6-1 by Comparison method	>1 bar to 30 bar	0.011 bar
191	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Digital and Dial Pressure Gauges, Magnehelic gauges, Pressure Transducers, Transmitters, Pressure Switch (Medium: Pneumatic)	Using Digital pressure Calibrator/gauge, 6½ Digital Multimeter & Pneumatic pressure pump as per DKD-R 6-1 by Comparison method	0 to 20 mbar	0.01 mbar



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192	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Vacuum Dial and Digital Vacuum Gauges, Vacuum Transmitters, Transducers, Vacuum Switches (Medium:Pneumatic)	Using Digital Vacuum Calibrator , 6½ Digital Multimeter, Pneumatic pressure pump as per DKD-R 6-1 by Comparison method	-0.93 bar to 0	0.00064 bar
193	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Dial and Digital Pressure Gauges, Pressure Transmitters, Transducers, Pressure Switches (Medium:Hydraulic)	Using Hydraulic Dead Weight Tester Calibrator, 6½ Digital Multimeter as per DKD-R 6-1 by Comparison method	0 to 35 bar	0.01 bar
194	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Dial and Digital Pressure Gauges, Pressure Transmitters, Transducers, Pressure Switches (Medium:Hydraulic)	Using Hydraulic Dead Weight Tester Calibrator , 6½ Digital Multimeter as per DKD-R 6-1 by Comparison method	35 bar to 700 bar	0.12 bar
195	MECHANICAL-TORQUE GENERATING DEVICES	Torque Tools - Pneumatic, Electrical, Hydraulic and Oil Pulse Tools	Using Torque Sensor with indicator as per IS 15411 : 2003 / ISO 5393 :1994	1 Nm to 10 Nm	0.44 %
196	MECHANICAL-TORQUE GENERATING DEVICES	Torque Tools - Pneumatic, Electrical, Hydraulic and Oil Pulse Tools	Using Torque Sensor with Indicator as per IS 15411 : 2003 / ISO 5393 : 1994	10 Nm to 50 Nm	0.8 %



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197	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches Type I Class A,B,C,D,E & Type II Class A,B,C,D,E,F,G	Using Torque sensor with indicator & Calibrator as per IS 16906:2018	2 Nm to 20 Nm	2.05 %rdg
198	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches Type I Class A,B,C,D,E & Type II Class A,B,C,D,E,F,G	Using Torque sensor with indicator & Calibrator as per IS 16906:2018	20 Nm to 200 Nm	1.58 %rdg
199	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches Type I Class A,B,C,D,E & Type II Class A,B,C,D,E,F,G	Using Torque sensor with indicator & Calibrator as per IS 16906:2018	200 Nm to 2000 Nm	1.75 %rdg
200	MECHANICAL-VOLUME	Volume Glass Burette /Measuring cylinder /volumetric flask /Conical flask/ Beaker-Single marking & graduated	Using Weighing balance with d : 0.01 mg and distilled water based on Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	1 ml to 10 ml	0.19 ml
201	MECHANICAL-VOLUME	Volume Glass Burette /Measuring cylinder /volumetric flask /Conical flask/ Beaker-Single marking & graduated	Using Weighing balance with d : 0.01 mg / 0.1 mg and distilled water based on Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	10 ml to 50 ml	0.51 ml



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202	MECHANICAL-VOLUME	Volume Glass Burette /Measuring cylinder /volumetric flask /Conical flask/ Beaker-Single marking & graduated	Using Weighing balance with d : 0.01 mg / 0.1 mg / 1 mg and distilled water based on Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	100 ml to 500 ml	2.2 ml
203	MECHANICAL-VOLUME	Volume Glass Burette /Measuring cylinder /volumetric flask /Conical flask/ Beaker-Single marking & graduated	Using Weighing balance with d : 0.01 mg / 0.1 mg and distilled water based on Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	50 ml to 100 ml	0.51 ml
204	MECHANICAL-VOLUME	Volume Glass Burette /Measuring cylinder /volumetric flask /Conical flask/ Beaker-Single marking & graduated	Using Weighing balance with d : 1 mg and distilled water based on Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	500 ml to 1000 ml	2.6 ml
205	MECHANICAL-VOLUME	Volume Micro pipettes -Piston operated/Glass Single marking & graduated	Using Weighing balance with d : 0.01 mg and distilled water based on Gravimetric method as per ISO 8655 - 6 & ISO/TR 20461	10 μ l to 100 μ l	0.5 μ l



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206	MECHANICAL-VOLUME	Volume Micro pipettes -Piston operated/Glass Single marking & graduated	Using Weighing balance with d : 0.01 mg and distilled water based on Gravimetric method as per ISO 8655 – 6 & ISO/TR 20461	100 µl to 1000 µl	2.54 µl
207	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance (Class I & Coarser) Readability :0.01 mg	Using standard weights E1 class weights as per OIML R-76-1	0 to 82 g	0.03 mg
208	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance (Class I & Coarser) Readability :0.1 mg	Using standard weights E1 class weights as per OIML R-76-1	0 to 220 g	0.22 mg
209	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance (Class II & Coarser) Readability:10 mg	Using standard F1 class weights as per OIML R-76-1	0 to 2.2 kg	30 mg
210	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance (Class II & Coarser) Readability :100 mg	Using standard F1 class weights as per OIML R-76-1	0 to 32.2 kg	250 mg
211	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance (Class II & Coarser) Readability:1 mg	Using standard E2 & F1 class weights as per OIML R-76-1	0 to 1.02 kg	3.0 mg



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212	MECHANICAL-WEIGHTS	Weight- F2 Class Weight and coarser	Using E1 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	200 mg	0.025 mg
213	MECHANICAL-WEIGHTS	Weight: F1 Class Weight and coarser	Using E1 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	5 g	0.025 mg
214	MECHANICAL-WEIGHTS	Weight: F1 Class Weights and coarser	Using E1 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	500 mg	0.025 mg
215	MECHANICAL-WEIGHTS	Weight: F1 Class Weights and coarser	Using E1 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	50 g	0.03 mg
216	MECHANICAL-WEIGHTS	Weight: M1 Class Weight and coarser	Using F1 class standard weights & Balance of d : 1 mg by ABBA Method as per OIML R-111	500 g	3.0 mg
217	MECHANICAL-WEIGHTS	Weight:F1 Class Weight and coarser	Using E1 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	20 g	0.03 mg



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218	MECHANICAL-WEIGHTS	Weight:F1 Class Weight and coarser	Using E1 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	1 g	0.025 mg
219	MECHANICAL-WEIGHTS	Weight:F2 Class Weight and coarser	Using E1 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	10 mg	0.0092 mg
220	MECHANICAL-WEIGHTS	Weights :F1 Class Weights and coarser	Using E1 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	10 g	0.02 mg
221	MECHANICAL-WEIGHTS	Weights :F2 Class Weights and coarser	Using F1 class standard weights & Balance of d : 10 mg by ABBA Method as per OIML R-111	2 kg	10.0 mg
222	MECHANICAL-WEIGHTS	Weights :M1 Class Weights and coarser	Using F1 class standard weights & Balance of d : 100 mg by ABBA Method as per OIML R-111	20 kg	100.0 mg
223	MECHANICAL-WEIGHTS	Weights- M1 Class Weights and coarser	Using F1 class standard weights & Balance of d : 100 mg by ABBA Method as per OIML R-111	10 kg	143.0 mg



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224	MECHANICAL-WEIGHTS	Weights: F1 Class Weights and coarser	Using E1 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	50 mg	0.01 mg
225	MECHANICAL-WEIGHTS	Weights: F1 Class Weights and coarser	Using E1 class standard weights & Balance of d : 0.1 mg by ABBA Method as per OIML R-111	100 g	0.15 mg
226	MECHANICAL-WEIGHTS	Weights: F1 Class Weights and coarser	Using E1 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	100 mg	0.0096 mg
227	MECHANICAL-WEIGHTS	Weights: F1 Class Weights and coarser	Using E1 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	20 mg	0.009 mg
228	MECHANICAL-WEIGHTS	Weights: F2 Class Weights and coarser	Using F1 class standard weights & Balance of d : 1 mg by ABBA Method as per OIML R-111	1 kg	5.0 mg
229	MECHANICAL-WEIGHTS	Weights: F2 Class Weights and coarser	Using E1 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	2 mg	0.009 mg



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230	MECHANICAL-WEIGHTS	Weights: F2 Class Weights and coarser	Using E1 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	1 mg	0.009 mg
231	MECHANICAL-WEIGHTS	Weights: F2 Class Weights and coarser	Using E1class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	5 mg	0.009 mg
232	MECHANICAL-WEIGHTS	Weights: M2 Class Weights and coarser	Using F1 class standard weights & Balance of d : 100 mg by ABBA Method as per OIML R-111	5 kg	100.0 mg
233	MECHANICAL-WEIGHTS	Weights:F1 Class Weights and coarser	Using E1 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	2 g	0.025 mg
234	MECHANICAL-WEIGHTS	Weights:F1 Class Weights and coarser	Using E1 class standard weights & Balance of d : 0.1 mg by ABBA Method as per OIML R-111	200 g	0.131 mg



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235	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity & Temperature Sensor with Indicator of Transducer/Transmitter with Indicator/Digital thermo hygrometer/Data logger	Using Temperature & Humidity meter, source Humidity Generator/Calibrator with probe by Comparison method	20 %rh to 95 %rh @20°C to 35°C	2 %rh
236	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity& Temperature indicator with sensor of environmental, Climatic, Humidity Chamber/calibrator (Relative Humidity at a specified Single Position)	Using Temperature & Humidity meter (source Humidity Generator/Calibrator) with probe by Comparison method	20 %rh to 95 %rh @20°C to 50°C	2 %rh
237	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity& Temperature Sensor with indicator of Transducer/Transmitter with Indicator/Digital thermo hygrometer/Data logger	Using RTD & 6½ Digital Multimeter, source Humidity/ Temperature Generator/Calibrator by Comparison method	5 °C to 50 °C @50% rh	0.30 °C



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238	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity& Temperature Sensor with Indicator of Transducer/Transmitter with Indicator/Digital thermo hygrometer/Data logger	Using Temperature & Humidity meter (source Humidity Generator/Calibrator) with probe by Comparison method	20 %rh to 50 %rh @35°C to 50°C	2 %rh
239	THERMAL-TEMPERATURE	Dry Block Calibrators	Using R-Type Thermocouple, DAQ Temp scanner as per EURAMET cg -13	600 °C to 1200 °C	1.30 °C
240	THERMAL-TEMPERATURE	Indicator with sensor of Liquid Baths/ Dry Block Calibrators (Single Position)	Using RTD (Pt-100), 6½ Digital Multimeter / Temperature indicator/Calibrator by Comparison method	140 °C to 600 °C	0.4 °C
241	THERMAL-TEMPERATURE	Indicator with sensor of Liquid Baths/ Dry Block Calibrators (Single Position)	Using RTD (Pt-100), 6½ Digital Multimeter / Temperature indicator/Calibrator by Comparison method	-35 °C to 140 °C	0.1 °C



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242	THERMAL-TEMPERATURE	IR /Non Contact Digital Thermometer/Gun/Pyrometer	Using Master Non contact thermometer, Black body source (emissivity 0.95)by Comparison method	0 °C to 100 °C	2.75 °C
243	THERMAL-TEMPERATURE	IR /Non Contact Digital Thermometer/Gun/Pyrometer	Using Master Non contact thermometer, Black body source (emissivity 0.95)by Comparison method	100 °C to 500 °C	2.89 °C
244	THERMAL-TEMPERATURE	Liquid in Glass thermometer / Dial thermometer	Using RTD (Pt-100), 6½ Digital Multimeter & Liquid bath by Comparison method	140 °C to 250 °C	0.68 °C
245	THERMAL-TEMPERATURE	Liquid in Glass thermometer / Dial thermometer	Using RTD (Pt-100), 6½ Digital Multimeter & Liquid bath by Comparison method	-35 °C to 140 °C	0.2 °C
246	THERMAL-TEMPERATURE	RTD/Thermocouple / Sensor with or without temperature Indicator/ Data logger / Recorder	Using RTD (Pt-100), 6½ Digital Multimeter & /Dry bath by Comparison method	-35 °C to 140 °C	0.05 °C



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247	THERMAL-TEMPERATURE	RTD/Thermocouple / Sensor with or without temperature Indicator/ Data logger / Recorder	Using RTD (Pt-100), 6½ Digital Multimeter, Dry block by Comparison method	140 °C to 600 °C	0.30 °C
248	THERMAL-TEMPERATURE	Thermocouple/ sensor with or without, temperature Indicator/ Data logger/ Recorder	Using R-Type Thermocouple, 6½ Digital Multimeter, Temperature indicator/ calibrator & Dry block by Comparison method	600 °C to 1200 °C	1.28 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 & 3 Phase Energy (240V, 5A & UPF) @ 50Hz	Using Energy calibrator, Power analyzer and energy source by Direct/ Comparison method	1.2 Wh to 100 kWh	1.18 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-1kHz)	Using 6½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	1 A to 10 A	0.20 % to 0.30 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-1kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 A to 20 A	0.15 % to 0.12 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-1kHz)	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	100 µA to 1 A	0.55 % to 0.20 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-5kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	1 mA to 200 mA	0.09 % to 0.06 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-5kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 µA to 200 µA	0.3 % to 0.05 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-5kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	200 µA to 1 mA	0.05 % to 0.09 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-5kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	200 mA to 10 A	0.06 % to 0.15 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (1kHz-5kHz)	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	100 µA to 1 A	0.55 % to 0.20 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (1 kHz-5 kHz)	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	1 A to 3 A	0.20 % to 0.41 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @ (50Hz)	Using C.T., 6½ Digital Multimeter & Current source by Direct/ Comparison method	20 A to 2000 A	2.10 % to 2.40 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @ (50Hz)	Using HV Divider & HV source by Direct/ Comparison method	1 kV to 20 kV	2.40 % to 2.60 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ (50Hz)	Using HV Divider by Direct method	20 kV to 100 kV	2.60 % to 4.05 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10Hz-10kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 mV to 200 mV	0.20 % to 0.025 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10Hz-10kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	200 mV to 1 V	0.025 % to 0.041 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10Hz-20kHz)	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 mV to 1000 V	0.90 % to 0.15 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10kHz-100kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 mV to 20 V	0.33 % to 0.08 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (20kHz)	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 mV to 700 V	0.75 % to 0.25 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10 Hz-10 kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	1 V to 1000 V	0.041 % to 0.020 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10 kHz-100 kHz)	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	20 V to 100 V	0.08 % to 0.79 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ (1kHz)	Using 6½ Digital Multimeter by Direct/ Comparison method	1 nF to 10 mF	5.47 % to 1.85 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ (1kHz)	Using 6½ Digital Multimeter by Direct/ Comparison method	10 mF to 100 mF	1.87 % to 4.90 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (10Hz-1kHz)	Using Multiproduct Calibrator by Direct method	30 µA to 3 A	0.62 % to 0.09 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (1kHz-5kHz)	Using Multiproduct Calibrator by Direct method	330 mA to 10 A	0.2 % to 3.5 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (50Hz-60Hz)	Using Multiproduct Calibrator with Current Coil by Direct method	10 A to 1000 A	0.51 % to 0.61 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (1 kHz-5 kHz)	Using Multiproduct Calibrator by Direct method	30 μ A to 330 mA	0.95 % to 1.04 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (45 Hz-1 kHz)	Using Multiproduct Calibrator by Direct method	3 A to 20 A	0.09 % to 0.21 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (1&3 Phase) 50Hz-60Hz/ 0.2pF to 1pF(Lead & Lag)/ 30V to 500V/ 10mA to 20A	Using Multiproduct Calibrator by Direct method	60 mW to 10 kW	1.8 % to 0.38 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10Hz-45Hz)	Using Multiproduct Calibrator by Direct method	1 mV to 33 V	0.9 % to 0.05 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10kHz-100kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 330 mV	0.5 % to 0.15 %



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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10kHz-100kHz)	Using Multiproduct Calibrator by Direct method	330 mV to 330 V	0.15 % to 0.32 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (45Hz-10kHz)	Using Multiproduct Calibrator by Direct method	1 mV to 330 mV	0.8 % to 0.02 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (45Hz-10kHz)	Using Multiproduct Calibrator by Direct method	330 mV to 1000 V	0.02 % to 0.04 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ (1kHz)	Using Multiproduct Calibrator by Direct method	220 pF to 330 nF	5.85 % to 0.45 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ (1kHz)	Using Multiproduct Calibrator by Direct method	330 nF to 30 mF	0.45 % to 1.5 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ (1kHz)	Using Inductance box by Direct Method	1 mH to 10 H	3 %



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37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 µA to 20 mA	0.052 % to 0.003 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	100 µA to 100 mA	0.1 % to 0.07 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	100 mA to 10 A	0.07 % to 0.2 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with 6½ Digital Multimeter & current source by Direct/ Comparison method	20 A to 100 A	1.76 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	20 mA to 20 A	0.003 % to 0.059 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Divider with Indicator & HV source by Direct/ Comparison method	1 kV to 20 kV	1.97 % to 2.10 %



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43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Divider by Direct method	20 kV to 100 kV	2.30 % to 3.06 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	1 mV to 1 V	0.44 % to 0.085 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	1 V to 1000 V	0.085 % to 0.006 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter & Multifunction Calibrator by Direct/ Comparison method	10 µV to 1000 V	5.80 % to 0.0008 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct method	100 ohm to 1 Gohm	0.07 % to 2.6 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8½ Digital Multimeter by Direct method	2 Mohm to 20 Mohm	0.01 % to 0.0035 %



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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8½ Digital Multimeter by Direct method	20 Mohm to 20 Gohm	0.0035 % to 0.3 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire/ 4 Wire)	Using 6½ Digital Multimeter by Direct method	1 ohm to 100 ohm	0.15 % to 0.07 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire/ 4 Wire)	Using 8½ Digital Multimeter by Direct method	100 µohm to 2 Mohm	0.5 % to 0.0015 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 µA to 330 mA	0.25 % to 0.02 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 A to 20 A	0.07 % to 0.026 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with Current Coil by Direct method	20 A to 1000 A	0.52 % to 0.64 %



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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	330 mA to 10 A	0.02 % to 0.07 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 mV to 33 V	0.15 % to 0.002 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	33 V to 1000 V	0.002 % to 0.003 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Standard Resistance box by Direct method	1 Gohm to 200 Gohm	3.55 % to 3.79 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multiproduct Calibrator by Direct method	1 Mohm to 10 Mohm	0.004 % to 0.03 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multiproduct Calibrator by Direct method	10 Mohm to 330 Mohm	0.03 % to 0.35 %



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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multiproduct Calibrator by Direct method	330 Mohm to 1 Gohm	0.35 % to 0.2 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire/ 4 Wire)	Using Multiproduct Calibrator by Direct method	1 µohm to 1 Mohm	0.09 % to 5.77 %
63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity meter	Using Multiproduct Calibrator by Simulation method	0 to 1000 mS/cm	0.061 % to 2.88 %
64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscopes/ Amplitude	Using Multiproduct Calibrator by Direct method	1 mV to 130 V	4.9 % to 0.35 %
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscopes/Bandwidth	Using Multiproduct Calibrator by Direct method	50 kHz to 1.1 GHz	4.85 %
66	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscopes/Time	Using Multiproduct Calibrator by Direct method	2 ns to 5 s	0.03 % to 0.6 %



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67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH meter	Using Multiproduct Calibrator by Simulation method	0 to 14 pH	0.01 pH
68	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Power Factor (Lead/Lag) @ 50 Hz /60 Hz	Using Multiproduct Calibrator by Direct method	0.01 PF to 1 PF	0.002 PF
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type Thermocouple	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	100 °C to 1800 °C	0.6 °C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type Thermocouple	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	-200 °C to 1000 °C	0.087 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Thermocouple	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	-200 °C to 1200 °C	0.085 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Thermocouple	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	-200 °C to 1300 °C	0.13 °C



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73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	0 °C to 1700 °C	0.6 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using 8½ Digital Multimeter by Direct method	-200 °C to 800 °C	0.25 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Thermocouple	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	0 °C to 1700 °C	0.6 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Thermocouple	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	-200 °C to 400 °C	0.14 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using Multiproduct Calibrator by Direct method	450 °C to 1820 °C	0.8 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 1000 °C	0.15 °C



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79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 1000 °C	0.6 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 1200 °C	0.6 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 1300 °C	0.6 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple	Using Multiproduct Calibrator by Direct method	100 °C to 1700 °C	0.65 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multiproduct Calibrator by Direct method	-200 °C to 800 °C	0.25 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple	Using Multiproduct Calibrator by Direct method	100 °C to 1700 °C	0.65 °C



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85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 400 °C	0.21 °C
86	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Multiproduct Calibrator by Direct method	1 MHz to 10 MHz	0.016 % to 0.06 %
87	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 8½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	10 Hz to 1 MHz	0.06 % to 0.006 %
88	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter & Multiproduct Calibrator by Direct/ Comparison method	10 Hz to 1000 kHz	0.068 %
89	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison method	2 s to 30 min	0.37 s to 1 s
90	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison method	30 min to 24 hr	1 s to 104.77 s



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91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct method	1 MHz to 10 MHz	0.08 % to 0.15 %
92	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct method	10 Hz to 1 MHz	0.058 % to 0.08 %
93	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Contact)	Using Tachometer (source RPM generator/Calibrator) by Comparison method	>1000 rpm to 4000 rpm	10 rpm
94	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Contact)	Using Tachometer (source RPM generator/Calibrator) by Comparison method	10 rpm to 100 rpm	0.52 rpm
95	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Contact)	Using Tachometer (source RPM generator/Calibrator) by Comparison method	100 rpm to 1000 rpm	3.5 rpm
96	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Non-Contact)	Using Tachometer (source RPM generator/Calibrator) by Comparison method	>4000 rpm to 90000 rpm	27.49 rpm



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97	MECHANICAL-ACCELERATION AND SPEED	Vibration meter Acceleration meter @ 636.6 Hz	Using Vibration meter calibrator by Comparison method as per ISO : 16063-21	1 m/s ² @ 636.6 Hz	0.078 m/s ²
98	MECHANICAL-ACCELERATION AND SPEED	Vibration meter/ Acceleration meter @ 15.92 Hz	Using Vibration meter calibrator by Comparison method as per ISO : 16063-21	1 m/s ² @ 15.92 Hz	0.074 m/s ²
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer - Traverse	Using Extensometer Calibrator by Comparison Method as per ASTM E-83	Up to 5 mm	5 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer - Traverse	Using Extensometer Calibrator by Comparison Method as per IS : 12872 : 2021,ISO 9513 : 2012	Up to 5 mm	5 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plates (Cast Iron/Granite)- Flatness	Using Digital level by comparison method	4000 mm x 4000 mm	2.5xSQRT(L+W/125) µm where L and W in mm



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102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block-Symmetry	Using Surface Plate, Test Mandrels & probe with DRO by Comparison method	Up to 200 mm	13 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block-Parallelism	Using Surface Plate, Test Mandrels & probe with DRO by Comparison method	Up to 200 mm	13 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block-Squareness	Using Square cylinder, Slip gauge by Comparison method	Up to 200 mm	13 µm
105	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (Vernier/Dial/Digital) L.C.-0.1 µm (Linear)	Using Long Slip Gauge by Comparison method	0 to 1000 mm	10 µm
106	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (Vernier/Dial/Digital) L.C.-0.1 µm (Squareness)	Using Master square cylinder by comparison method	0 to 1000 mm	5.20 µm
107	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile projector L.C-1 sec Angular measurement	Using Angular graticule scale by Comparison method	0° to 360°	1.2 minute



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108	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile projector L.C.-0.001 mm Linear measurement	Using Glass Scale by Comparison method	0 to 300 mm	5 µm
109	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile projector Magnification	Using Glass Scale by Comparison method	10 X to 100 X	1 %
110	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Ra)	Using Surface Roughness Master by Comparison method	0.1 µm to 3 µm	10 %
111	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine (Angular) L.C.: 1 arc second	Using Glass graticule by comparison Method	0 ° to 360 °	15 s
112	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine/Microscope (Linear) L.C.: 0.0001 mm	Using Glass scale by comparison Method	0 to 200 mm	3 µm
113	MECHANICAL-HARDNESS TESTING MACHINES	Test Force of Brinell Hardness Tester	Using Load Cell with Indicator as per IS 1500 - (Part - 2) : 2021, ISO 6506 - (Part - 2) : 2017	153.2 N to 29421 N	0.5 %
114	MECHANICAL-HARDNESS TESTING MACHINES	Test Force of Rockwell Hardness Tester	Using Load Cell with Indicator as per IS 1586 - (Part - 2) : 2018, ISO 6508 - (Part-2) : 2015	29.42 N to 1471 N	0.5 %



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115	MECHANICAL-HARDNESS TESTING MACHINES	Test Force of Vickers Hardness Tester	Using Load Cell with Indicator as per IS 1501 - (Part - 2) : 2020, ISO 6507 - (Part - 2) : 2018	49.03 N to 294.2 N	0.5 %
116	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E 10	HBW 10/3000	1.6 %
117	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 (Part-2) : 2021, ISO 6506 (Part-2) : 2017	HBW 10/3000	1.6 %
118	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E 10	HBW 2.5/187.5	1.6 %
119	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 (Part - 2) : 2021, ISO 6506 (Part - 2) : 2017	HBW 2.5/187.5	1.6 %



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120	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E 10	HBW 5/750	1.9 %
121	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 (Part - 2) : 2021, ISO 6506 (Part - 2) : 2017	HBW 5/750	1.9 %
122	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Test blocks by Indirect Method as per ASTM E - 18	HRA	1 HRA
123	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Test blocks by Indirect Method as per IS 1586 (Part-2) : 2018, ISO 6508 - (Part-2) : 2015	HRA	1 HRA
124	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Test block by Indirect Method as per IS 1586 (Part-2) : 2018 & ISO 6508 - (Part-2) : 2015	HRBW	1 HRBW



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125	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Test blocks by Indirect Method as per ASTM E - 18	HRBW	1 HRBW
126	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Test block by Indirect Method as per IS 1586 (Part-2) : 2018 & ISO 6508 - (Part-2) : 2015	HRC	1 HRC
127	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Test blocks by Indirect Method as per ASTM E - 18	HRC	1 HRC
128	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E 92	HV 10	1.5 %
129	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501(Part-2) : 2020, ISO 6507 (Part-2) : 2018	HV 10	1.5 %



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130	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E 92	HV 30	1.5 %
131	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501 (Part-2) : 2020, ISO 6507 (Part-2) : 2018	HV 30	1.5 %
132	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial and Digital Pressure Gauges, Pressure Transmitters, Transducers, Pressure Switches (Medium:Hydraulic)	Using Digital pressure Calibrator , 6½ Digital Multimeter, Hydraulic pressure pump as per DKD-R 6-1 by Comparison method	>400 bar to 700 bar	0.56 bar
133	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial and Digital Pressure Gauges, Pressure Transmitters, Transducers, Pressure Switches (Medium:Hydraulic)	Using Digital pressure Calibrator, 6½ Digital Multimeter, Hydraulic pressure pump as per DKD-R 6-1 by Comparison method	30 bar to 400 bar	0.15 bar



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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)(±)
134	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial and Digital Pressure Gauges, Magnehelic gauges, Pressure Transmitter, Transducers, Pressure Switch (Medium:Pneumatic)	Using Digital pressure Calibrator, 6½ Digital Multimeter, Pneumatic pressure pump as per DKD-R 6-1 by Comparison method	>20 mbar to 200 mbar	0.13 mbar
135	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial and Digital Pressure Gauges, Pressure Transmitters, Transducers, Pressure Switches (Medium: Pneumatic)	Using Digital pressure Calibrator, 6½ Digital Multimeter ,Pneumatic pressure pump as per DKD-R 6-1 by Comparison method	>0.2 bar to 1 bar	0.00086 bar
136	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Digital and Dial Pressure Gauges, Magnehelic gauges, Pressure Transducers, Transmitters, Pressure Switch (Medium: Pneumatic)	Using Digital pressure Calibrator/gauge, 6½ Digital Multimeter & Pneumatic pressure pump as per DKD-R 6-1 by Comparison method	0 to 20 mbar	0.01 mbar



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137	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Vacuum Dial and Digital Vacuum Gauges, Vacuum Transmitters, Transducers, Vacuum Switches (Medium:Pneumatic)	Using Digital Vacuum Calibrator , 6½ Digital Multimeter, Pneumatic pressure pump as per DKD-R 6-1 by Comparison method	-0.93 bar to 0	0.00064 bar
138	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Dial and Digital Pressure Gauges, Pressure Transmitters, Transducers ,Pressure Switches (Medium:Pneumatic)	Using Digital pressure Calibrator, 6½ Digital Multimeter, Pneumatic pressure pump as per DKD-R 6-1 by Comparison method	>1 bar to 30 bar	0.143 bar
139	MECHANICAL-TORQUE GENERATING DEVICES	Torque Tools - Pneumatic, Electrical, Hydraulic and Oil Pulse Tools	Using Torque Sensor with indicator as per IS 15411 : 2003 / ISO 5393 :1994	1 Nm to 10 Nm	0.44 %
140	MECHANICAL-TORQUE GENERATING DEVICES	Torque Tools - Pneumatic, Electrical, Hydraulic and Oil Pulse Tools	Using Torque Sensor with Indicator as per IS 15411 : 2003 / ISO 5393 : 1994	10 Nm to 50 Nm	0.8 %
141	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of UTM, CTM, Spring Testing Machine - Compression Mode	Using Load Cells with Indicator by Comparison Method as per IS 1828 (Part - 1) : 2022, ISO 7500 (Part - 1) : 2018	Up to 1000 kN	0.4 %



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142	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance (Class I & Coarser) Readability :0.01 mg	Using standard weights E1 class weights as per OIML R-76-1	0 to 82 g	0.03 mg
143	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance (Class I & Coarser) Readability :0.1 mg	Using standard weights E1 class weights as per OIML R-76-1	0 to 220 g	0.22 mg
144	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance (Class II & Coarser) Readability:10 mg	Using standard F1 class weights as per OIML R-76-1	0 to 2.2 kg	30 mg
145	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance (Class II & Coarser) Readability :100 mg	Using standard F1 class weights as per OIML R-76-1	0 to 32.2 kg	250 mg
146	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance (Class II & Coarser) Readability:1 mg	Using standard E2 & F1 class weights as per OIML R-76-1	0 to 1.02 kg	3.0 mg
147	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance (Class III & Coarser) Readability :10 g	Using standard F1 class weights as per OIML R-76-1	0 to 200 kg	58 g



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148	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity & Temperature Sensor with Indicator of Transducer/Transmitter with Indicator/Digital thermo hygrometer/Data logger	Using Temperature & Humidity meter, source Humidity Generator/Calibrator with probe by Comparison method	20 %rh to 95 %rh @20°C to 35°C	2 %rh
149	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity& Temperature indicator with sensor of environmental, Climatic, Humidity Chamber/calibrator (Relative Humidity at a specified Single Position)	Using Temperature & Humidity meter (source Humidity Generator/Calibrator) with probe by Comparison method	20 %rh to 95 %rh @20°C to 50°C	2 %rh
150	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity& Temperature Sensor with indicator of Transducer/Transmitter with Indicator/Digital thermo hygrometer/Data logger	Using RTD & 6½ Digital Multimeter, source Humidity/ Temperature Generator/Calibrator by Comparison method	5 °C to 50 °C @50% rh	0.30 °C



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151	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity& Temperature Sensor with Indicator of Transducer/Transmitter with Indicator/Digital thermo hygrometer/Data logger	Using Temperature & Humidity meter (source Humidity Generator/Calibrator) with probe by Comparison method	20 %rh to 50 %rh @35°C to 50°C	2 %rh
152	THERMAL-TEMPERATURE	Dry Block Calibrators	Using R-Type Thermocouple, DAQ Temp scanner as per EURAMET cg -13	600 °C to 1200 °C	1.30 °C
153	THERMAL-TEMPERATURE	Freezer, cold chamber, Oven, Furnace, Coating oven	Using PT-100 Sensor & Thermocouple (minimum 9 sensor) & Data logger by multiposition method	-40 °C to 400 °C	2.60 °C
154	THERMAL-TEMPERATURE	Indicator with sensor of Liquid Baths/ Dry Block Calibrators (Single Position)	Using RTD (Pt-100), 6½ Digital Multimeter / Temperature indicator/Calibrator by Comparison method	140 °C to 600 °C	0.4 °C



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155	THERMAL-TEMPERATURE	Indicator with sensor of Liquid Baths/ Dry Block Calibrators (Single Position)	Using RTD (Pt-100), 6½ Digital Multimeter / Temperature indicator/Calibrator by Comparison method	-35 °C to 140 °C	0.1 °C
156	THERMAL-TEMPERATURE	IR /Non Contact Digital Thermometer/Gun/ Pyrometer	Using Master Non contact thermometer, Black body source (emissivity 0.95)by Comparison method	0 °C to 100 °C	2.75 °C
157	THERMAL-TEMPERATURE	IR /Non Contact Digital Thermometer/Gun/ Pyrometer	Using Master Non contact thermometer, Black body source (emissivity 0.95)by Comparison method	100 °C to 500 °C	2.89 °C
158	THERMAL-TEMPERATURE	Liquid in Glass thermometer / Dial thermometer	Using RTD (Pt-100), 6½ Digital Multimeter & Liquid bath by Comparison method	140 °C to 250 °C	0.68 °C
159	THERMAL-TEMPERATURE	Liquid in Glass thermometer / Dial thermometer	Using RTD (Pt-100), 6½ Digital Multimeter & Liquid bath by Comparison method	-35 °C to 140 °C	0.2 °C



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160	THERMAL-TEMPERATURE	Oven, Furnace, Coating oven	Using Thermocouple (minimum 9 sensor) & Data logger by Multiposition ethod	400 °C to 1200 °C	3.80 °C
161	THERMAL-TEMPERATURE	RTD/Thermocouple / Sensor with or without temperature Indicator/ Data logger / Recorder	Using RTD (Pt-100), 6½ Digital Multimeter & /Dry bath by Comparison method	-35 °C to 140 °C	0.05 °C
162	THERMAL-TEMPERATURE	RTD/Thermocouple / Sensor with or without temperature Indicator/ Data logger / Recorder	Using RTD (Pt-100), 6½ Digital Multimeter, Dry block by Comparison method	140 °C to 600 °C	0.30 °C
163	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Freezer, cold chamber, Oven, Furnace (Single Position)	Using RTD (Pt-100) & 6½ Digital Multimeter by Comparison method	-65 °C to 600 °C	1.60 °C
164	THERMAL-TEMPERATURE	Thermocouple/ sensor with or without, temperature Indicator/ Data logger/ Recorder	Using R-Type Thermocouple, 6½ Digital Multimeter, Temperature indicator/ calibrator & Dry block by Comparison method	600 °C to 1200 °C	1.28 °C

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