



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,BEHIND KASTURI MARKET,MIDC.,
CHINCHWAD, PUNE, MAHARASHTRA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2412

Issue Date: 10/09/2020

Valid Until:

09/09/2022

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 Identity : 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, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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 Accucheck and energy source by Direct/ comparison Method	1.2 Wh to 3.6 kWh	1.18%
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-1kHz)	Using 8 ½ DMM FLUKE and MFC by Direct/ Comparison Method	10 A to 20 A	0.15 % to 0.12 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-1kHz)	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	100 µA to 1 A	0.55 % to 0.20 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-5kHz)	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	1 mA to 200 mA	0.09 % to 0.06 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-5kHz)	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	10 µA to 200 µA	0.3 % to 0.05 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-5kHz)	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	200 µA to 1 mA	0.05 % to 0.09 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-5kHz)	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	200 mA to 10 A	0.06 % to 0.15 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (1kHz-5kHz)	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	1 A to 3 A	0.20 % to 0.25 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (1kHz-5kHz)	Using 6 ½ DMM FLUKE & MFC 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 High Current @ (50Hz)	Using C.T.+6 ½ DMM FLUKE & current source by Direct/ comparison Method	20 A to 2000 A	2.10 % to 2.40 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ (50Hz)	Using HV Divider & HV source by Direct/ comparison Method	1 kV to 20 kV	2.40 % to 2.60 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10Hz-10kHz)	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	1 V to 1000 V	0.041 % to 0.02 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10Hz-10kHz)	Using 8 ½ DMM FLUKE & MFC 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 8 ½ DMM FLUKE & MFC 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 6 ½ DMM FLUKE & MFC 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 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	10 mV to 20 V	0.32 % to 0.08 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10kHz-100kHz)	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	20 V to 100 V	0.08 % to 0.15 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (20kHz)	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	10 mV to 700 V	0.75 % to 0.25 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ (1kHz)	Using 6 ½ DMM FLUKE & capacitance box by Direct/ Comparison Method	10 mF to 100 mF	1.85 % to 4.90 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ (1kHz)	Using 6 ½ DMM FLUKE & capacitance box by Direct/ Comparison Method	1nF to 10 mF	5.47 % to 1.85 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (10Hz-1kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	30 µA to 3 A	0.62 % to 0.09 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (1kHz-5kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	30 µA to 330 mA	0.95 % to 0.2 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (1kHz-5kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	330 mA to 10 A	0.2 % to 3.5 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (45Hz-1kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	3 A to 20 A	0.09 % to 0.21 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (50Hz-60Hz)	Using 5522A/9100 Calibrator(Fluke) with CC by Direct Method	10 A to 1000 A	0.5 % to 0.55 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 50Hz-60Hz/ 0.2pF to 1pF(Lead & Lag)/ 30V to 1000V/ 10mA to 20A	Using 5522A calibrator(Fluke)/3050 calibrator by Direct method	60 mW to 20 kW	1.8 % to 0.38 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10Hz-45Hz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	1 mV to 33 V	0.9 % to 0.05 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10kHz-100kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	30 mV to 330 mV	0.5 % to 0.15 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10kHz-100kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	330 mV to 330 V	0.15 % to 0.32 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (45Hz-10kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	1 mV to 330 mV	0.8 % to 0.02 %



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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (45Hz-10kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	330 mV to 1000 V	0.02 % to 0.04 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ (1kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	220 pF to 330 nF	5.85 % to 0.45 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ (1kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	330 nF to 30 mF	0.45 % to 1.5 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ (1kHz)	Using Inductance box by Direct Method	1 mH to 10 H	3%
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	10 µA to 20 mA	0.052 % to 0.003 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with 6 ½ DMM FLUKE & current source by Direct/ Comparison Method	10 A to 100 A	0.9 % to 0.53 %



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37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	100 µA to 100 mA	0.1 % to 0.07 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	100 mA to 10 A	0.07 % to 0.2 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	20 mA to 20 A	0.003 % to 0.05 %
40	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 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	1 mV to 1 V	0.42 % to 0.085 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	1 V to 1000 V	0.085 % to 0.006 %



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43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	10 µV to 1000 V	1.75 % to 0.0008 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8 ½ DMM FLUKE & resistance box by Direct/ Comparison Method	1 mohm to 2 Mohm	0.5 % to 0.0015 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ DMM FLUKE & resistance box/ MFC by Direct/ Comparison Method	1 ohm to 100 ohm	0.15 % to 0.07 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ DMM FLUKE, & resistance box / MFC by Direct/ Comparison Method	100 ohm to 1 Gohm	0.07 % to 2.6 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8 ½ DMM FLUKE & resistance box / MFC by Direct/ Comparison Method	2 Mohm to 20 Mohm	0.01 % to 0.0035 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8 ½ DMM FLUKE & resistance box by Direct/ Comparison Method	20 Mohm to 20 Gohm	0.0035 % to 0.3 %



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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5522A/9100 Calibrator(Fluke) by Direct Method	10 μ A to 330 mA	0.25 % to 0.02 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5522A/9100 Calibrator(Fluke) by Direct Method	10 A to 20 A	0.07 % to 0.026 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5522A/9100 Calibrator(Fluke) with CC by Direct Method	20 A to 1000 A	0.45 % to 0.64 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5522A/9100 Calibrator(Fluke) by Direct Method	330 mA to 10 A	0.02 % to 0.07 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5522A/9100 Calibrator(Fluke) by Direct Method	1 mV to 33 V	0.15 % to 0.002 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5522A/9100 Calibrator(Fluke) by Direct Method	33 V to 1000 V	0.002 % to 0.003 %



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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using 5522A/9100 Calibrator(Fluke) by Direct Method	1 Mohm to 10 Mohm	0.004 % to 0.03 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	1 Gohm to 200 Gohm	1.74 % to 3.5 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using 5522A/9100 Calibrator(Fluke) by Direct Method	1 ohm to 1 Mohm	0.1 % to 0.004 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using 5522A/9100 Calibrator(Fluke) by Direct Method	10 Mohm to 330 Mohm	0.03 % to 0.35 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using 5522A/9100 Calibrator(Fluke) by Direct Method	330 Mohm to 1 Gohm	0.35 % to 0.2 %
60	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscopes/ Amplitude	Using 5522A (Fluke)/3050 Calibrator by Direct Method	1 mV to 130 V	4.9 % to 0.35 %



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61	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscopes/Bandwidth	Using 5522A (Fluke)/3050 Calibrator by Direct Method	50 kHz to 1.1 GHz	2.5%
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscopes/Time	Using 5522A (Fluke)/3050 Calibrator by Direct Method	2 ns to 5 s	0.03 % to 0.6 %
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type Thermocouple	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	100 °C to 1800 °C	0.6°C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type Thermocouple	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	-200 °C to 1000 °C	0.087°C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type Thermocouple	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	-200 °C to 1000 °C	0.08°C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Thermocouple	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method.	-200 °C to 1200 °C	0.085°C



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67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Thermocouple	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	-200 °C to 1300 °C	0.13°C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R&S-Type Thermocouple	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	0 to 1700 °C	0.6°C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	-200 °C to 800 °C	0.253°C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Thermocouple	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	-200 °C to 400 °C	0.14°C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using 5522A/9100 Calibrator(Fluke) by Direct Method	450 °C to 1820 °C	0.8°C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple	Using 5522A/9100 Calibrator(Fluke) by Direct Method	-200 °C to 1000 °C	0.15°C



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73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using 5522A/9100 Calibrator(Fluke) by Direct Method	-200 °C to 1000 °C	0.6°C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple	Using 5522A/9100 Calibrator(Fluke) by Direct Method	-200 °C to 1200 °C	0.6°C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple	Using 5522A/9100 Calibrator(Fluke) by Direct Method	-200 °C to 1300 °C	0.6°C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R&S-Type Thermocouple	Using 5522A/9100 Calibrator(Fluke) by Direct Method	100 °C to 1700 °C	0.65°C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using 5522A/9100 Calibrator(Fluke) by Direct Method	-200 °C to 800 °C	0.085°C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple	Using 5522A/9100 Calibrator(Fluke) by Direct Method	-200 °C to 400 °C	0.21°C



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79	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Function Generator & MFC by Direct/ comparison Method	1 MHz to 10 MHz	0.006 % to 0.06 %
80	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 8 ½ DMM FLUKE & MFC by Direct/ Comparison Method	10 Hz to 1 MHz	0.06 % to 0.006 %
81	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	10 Hz to 1000 kHz	0.06%
82	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer/Stop Watch/Hour meter/Time totalizer	Using time totalizer by comparison Method	2 s to 30 min	0.35 s to 1 s
83	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer/Stop Watch/Hour meter/Time totalizer	Using time totalizer by comparison Method	30 min to 24 hr	1 s to 56 s
84	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5522A/9100 Calibrator (Fluke)/Function Generator by Direct Method	10 Hz to 10 MHz	0.001 % to 0.15 %



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85	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Contact)	Using Tachometer (source RPM generator/Calibrator)by comparison Method	>1000 RPM to 4000 RPM	10RPM
86	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Contact)	Using Tachometer (source RPM generator/Calibrator)by comparison Method	100 RPM to 1000 RPM	3.5RPM
87	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Non-Contact) / Stirrer	Using Tachometer (source RPM generator/Calibrator)by comparison Method	>4000 RPM to 47000 RPM	18RPM
88	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Non-Contact) / Stirrer	Using Tachometer (source RPM generator/Calibrator)by comparison Method	100 RPM to 4000 RPM	3.7RPM
89	MECHANICAL-ACOUSTICS	Sound Level Meter(1kHz)	Sound level generator calibrator Direct method:	94dB and 114 dB	1.8dB
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector L.C.- 5 min	Using Angle Slip Gauge as per IS 5812	0-90-0 °	6.5min of arc



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91	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	3µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C. 1 µm	Using Coating thickness foils by comparison method	0 to 1.20 mm	10µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set L.C.-1 °	Using Angle Slip Gauge as per IS 5812	0-90-0 °	35 min of arc
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C.- 0.001mm	Using Slip gauge & Accessories by comparison method	0 to 300 mm	7µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Caliper L.C.-0.01 mm	Using Slip gauge & Accessories	0 to 300 mm	15µm



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96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Caliper L.C.-0.02 mm	Using Slip gauge & Accessories	0 to 600 mm	25µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester L.C.0.1 µm	Using Sylvac probe with DRO by comparison Method	0 to 25 mm	1.5µm
98	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	2µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial/Digital Thickness Gauge L.C-0.01 mm	Using Slip gauge & Accessories by comparison	0 to 25 mm	7.60µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe With DRO / Comparator L.C.-0.0001 mm	Using Slip gauge set by Comparison method	0 to 25 mm	1µm



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101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.-0.001mm	Using Slip gauge	0 to 100 mm	2 μ m
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.-0.01mm	Using Slip gauge & Accessories	> 100 mm to 300 mm	8 μ m
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.-0.01mm	Using Slip gauge & Accessories	> 300 mm to 1000 mm	15 μ m
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Sylvac probe with DRO by Comparison method	0.01 mm to 1 mm	2.50 μ m
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge/Micro Height Gauge (Vernier/Dial/Digital) L.C.-0.1 μ m	Using Slip gauge	0 to 1000 mm	10 μ m



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106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C.-0.01 mm	Using Slip gauge & DRO with probe	> 300 mm to 1000 mm	13µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C.-0.01 mm	Using Slip gauge & DRO with probe	0.01 mm to 300 mm	8µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial L.C.-0.001 mm	Using Dial calibration tester	0 to 2 mm	2µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin Gauge	Using Sylvac probe with Comparator stand	0.10 mm to 20 mm	2µm
110	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	118v L µm, where L in m



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111	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	118 vL μm , where L in m
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head/Drum L.C.0.001 mm	Using Sylvac probe with DRO as per IS 9483	0 to 25 mm	1.50 μm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod/Height Master	Using Slip gauge & sylvac probe with DRO by comparison method	> 275 mm to 1000 mm	9.15 μm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod/Height Master	Using Slip gauge & sylvac probe with DRO by comparison method	Up to 275 mm	3.50 μm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Paint Thickness Gauge Foils	Using Sylvac probe with DRO by comparison method	0.005 mm to 10 mm	1.50 μm



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116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C-0.01 mm	Using Slip gauge by comparison method	0 to 150 mm	60µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using LMM 300 & Master Ring Gauge	> 100 mm to 300 mm	4µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using LMM 300 & Master Ring Gauge	3 mm to 100 mm	2µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/Paddle Plug/Master/Keyway Gauges	Using Slip gauge& sylvac probe with DRO	> 100 mm to 300 mm	4µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/Paddle Plug/Master/Keyway Gauges	Using Slip gauge& sylvac probe with DRO	0.50 mm to 100 mm	2.30µm



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121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial L.C.-0.001 mm	Using Dial calibration tester	0 to 25 mm	3µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial L.C.-0.001 mm	Using Slip gauge	0 to 50 mm	6µm
123	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	0 to +/-1 mm/m	25µm/m
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge/Gap Gauge	Using Slip gauge	0.50 mm to 100 mm	3µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge/Gap Gauge	Using LMM 300	100 mm to 300 mm	5µm



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126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Squareness of Tri Square/Engineering Square	Using Master square cylinder ,Slip Gauges by Comparison Method	Up to 600 mm	15µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective ,Minor,Major Dia)	Using LMM 300	> 100 mm to 300 mm	4µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective ,Minor,Major Dia)	Using FCDM m/c	2 mm to 100 mm	4µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Dia)	Using LMM 300 & Master Ring Gauge	> 100 mm to 300 mm	5µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Dia)	Using LMM 300 & Master Ring Gauge	3 mm to 100 mm	2µm



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131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block-Symmetry, Parallelism & Squareness	Using Surface Plate, Test Mandrels & sylvac probe with DRO & Square Cylinder Slip Gauges	Up to 200 mm	13µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper - Plain,Digital & Dial (External,Internal & Depth) L.C.-0.01mm	Using Slip gauge & Accessories as per IS 3651- Part-I &II	0 to 1000 mm	17µm
133	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Angle/Angle templet	Using Video Measuring Machine by comparison method	0 ° to 360 °	4.6minute
134	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Inclinometer	using Angle gauge by Comparison method	0°-90°-0 °	0.1°
135	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Plated Wire Gauges	using VMM by comparison method	0 to 50 mm	6µm
136	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Radius Gauge/Radius Templet	using Video Measuring Machine by comparison Method	0.6 mm to 25 mm	6µm



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137	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Plates(Cast Iron/Granite)- Flatness	Using Digital level based on IS 12937-1990, IS7327-1991, IS2285-1991	up to 4000 X 4000 mm	2.5vL+W/125µm, where L & W in mm
138	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Test Sieves (Aperture size)	Using video measuring machine by comparison Method	0.01 mm to 125 mm	7µm
139	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine (Angular)	Using Glass graticule by comparison Method	0 ° to 360 °	15s
140	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine/Microscope (Linear)	Using Glass scale by comparison Method	0 to 200 mm	3µm
141	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Welding Fillet Gauge, Templates, Vickers/Knoop/ Rockwell Diamond Cone Indenter/ Hi-Lo, Limit ,Width, Paddle ,T-gauge, CD/PCD Gauge / Cube mould / Plain work piece/ / Inspection JIG & Fixture	Using Video Measuring Machine & 2D Electronics Height Gauge by comparison Method	0 to 600 mm	10µm



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142	MECHANICAL-DUROMETER	Durometer	Using Dial Calibration Tester by Depth of Indentor as per ISO 18898 : 2016	0 Shore A to 100 Shore A	0.9Shore A
143	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Pull Gauge/Force Gauge in pull mode	Using Slotted mass With hanger as per VDI/VDE 2624 Part 2.1	50 N to 500 N	1.5N
144	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial and Digital Pressure Gauges,Pressure Transmitters/Transducers Pressure Switches	Digital pressure Calibrator as per DKD-R6-1 comparison	>400 bar to 700 bar	0.6bar
145	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial and Digital Pressure Gauges, Pressure Transmitters/Transducers Pressure Switches	Digital pressure Calibrator as per DKD-R6-1 comparison	30 bar to 400 bar	0.15bar
146	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial and Digital Pressure Gauges, Pressure Transmitters/Transducers Pressure Switches	Digital pressure Calibrator -as per DKD-R6-1 comparison	>0.2 bar to 1 bar	0.005bar



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147	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial and Digital Pressure Gauges, Pressure Transmitters/Transducers Pressure Switches	Digital pressure Calibrator as per DKD-R6-1 comparison	>1 bar to 30 bar	0.01bar
148	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial and Digital Pressure Gauges, Magnehelic gauges, Pressure Transmitter/Transducers Pressure Switch	Digital pressure Calibrator -as per DKD-R6-1 comparison	>20 mbar to 200 mbar	0.13mbar
149	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Digital and Dial Pressure Gauges , Magnehelic gauges, Pressure Transducers/Transmitters Pressure Switch	Digital low pressure Calibrator -as per DKD-R6-1 comparison	0 to 20 mbar	0.01mbar
150	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Vacuum Dial and Digital Vacuum Gauges, Vacuum Transmitters/Transducers, Vacuum Switches	Digital Vacuum Calibrator -as per DKD-R6-1 comparison	-0.87 bar to 0	0.0016bar



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151	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 Wrench calibrator as per IS/ISO 16906 :2018	2 Nm to 20 Nm	2.05%rdg
152	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 Wrench calibrator as per IS/ISO 16906 :2018	20 Nm to 200 Nm	1.58%rdg
153	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 Wrench calibrator as per IS/ISO 16906 :2018	200 Nm to 2000 Nm	1.75%rdg
154	MECHANICAL-VOLUME	Volume Glass Burette	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	0.507ml
155	MECHANICAL-VOLUME	Volume Glass Pipettes (Graduated/ non 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	0.507ml



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156	MECHANICAL-VOLUME	Volume 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	0.192ml
157	MECHANICAL-VOLUME	Volume 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	2.2ml
158	MECHANICAL-VOLUME	Volume 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	2.6ml
159	MECHANICAL-VOLUME	Volume Micro pipettes -Piston operated	Using Weighing balance with d : 0.01 mg and distilled water based on Gravimetric method as per ISO 8655 - 6 & ISO/TR 20461	10 µl to 100 µl	0.5µl



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160	MECHANICAL-VOLUME	Volume Micro pipettes -Piston operated	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	2.54µl
161	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance Class I & Coarser d =0.01 mg	Using standard weights E1&E2 class weights as per OIML R-76-1	1 g to 82 g	0.03mg
162	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance Class I & Coarser d =0.1 mg	Using standard weights E1&E2 class weights as per OIML R-76-1	82 g to 220 g	0.22mg
163	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance Class II & Coarser d =1 mg	Using standard F1 class weights as per OIML R-76-1	220 g to 1.02 kg	3.0mg
164	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance Class II & Coarser d =10 mg	Using standard F1 class weights as per OIML R-76-1	1.02 kg to 2.2 kg	30mg
165	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance Class II & Coarser d =100 mg	Using standard F1 class weights as per OIML R-76-1	2.2 kg to 32.2 kg	250mg



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166	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance Class III & Coarser d =1 g	Using standard F1 class weights as per OIML R-76-1	32.2 kg to 200 kg	35g
167	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	1 g	0.025mg
168	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	1 mg	0.009mg
169	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	10 g	0.02mg
170	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	10 mg	0.0092mg
171	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.1 mg by ABBA Method as per OIML R-111	100 g	0.15mg



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172	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	100 mg	0.0096mg
173	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	2 g	0.025mg
174	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	2 mg	0.009mg
175	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	20 g	0.03mg
176	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	20 mg	0.009mg
177	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.1 mg by ABBA Method as per OIML R-111	200 g	0.131mg



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178	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	200 mg	0.025mg
179	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	5 g	0.025mg
180	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	5 mg	0.009mg
181	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	50 g	0.03mg
182	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	50 mg	0.01mg
183	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F1 Class Weights and coarser	Using E1 & E2 class standard weights & Balance of d : 0.01 mg by ABBA Method as per OIML R-111	500 mg	0.025mg



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184	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of 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	5.0mg
185	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of 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	10.0mg
186	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of F2 Class Weights and coarser	Using F1 class standard weights & Balance of d : 1 mg by ABBA Method as per OIML R-111	500 g	3.0mg
187	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of 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	143.0mg
188	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of 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	100.0mg
189	MECHANICAL-WEIGHTS	Mass /Weights- For Calibration of M1 Class Weights and coarser	Using F1 class standard weights & Balance of d : 100 mg by ABBA Method as per OIML R-111	5 kg	100.0mg



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190	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor/ Transducer/Transmitter with Indicator/Digital thermo hygrometer(@25°C)	Using Temperature & Humidity meter (source Humidity Generator/Calibrator)with probe/ comparison Method	20 %RH to 95 %RH	3%RH
191	THERMAL-TEMPERATURE	Glass thermometer / Dial thermometer	Using RTD (Pt-100) , 6½ DMM & Liquid bath / comparison Method	140 °C to 250 °C	0.68°C
192	THERMAL-TEMPERATURE	Glass thermometer / Dial thermometer	Using RTD (Pt-100) , 6½ DMM & Liquid bath by comparison Method	-35 °C to 140 °C	0.2°C
193	THERMAL-TEMPERATURE	RTD/Thermocouple / Sensor with or without temperature Indicator/ Data logger / Recorder	Using RTD (Pt-100) , 6½ DMM & Liquid bath/Dry block insert / comparison Method	-35 °C to 140 °C	0.2°C
194	THERMAL-TEMPERATURE	RTD/Thermocouple / Sensor with or without temperature Indicator/ Data logger / Recorder	Using RTD (Pt-100) , 6½ DMM & Liquid bath/Dry block insert /Direct/ comparison Method	140 °C to 600 °C	0.95°C
195	THERMAL-TEMPERATURE	RTD/Thermocouple / Sensor with or without temperature Indicator/ Data logger / Recorder	Using RTD (Pt-100) , 6½ DMM & Liquid bath/Dry block insert /Direct/ comparison Method	-35 °C to 140 °C	0.45°C



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196	THERMAL-TEMPERATURE	Thermocouple / Sensor with or without temperature Indicator/ Data logger / Recorder	Using R-Type Thermocouple,universal calibrator & Liquid bath/Dry block insert /Direct/ comparison Method	600 °C to 1200 °C	2.15°C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1&3 Phase Energy (240V, 5A & UPF)@ 50Hz	Using Accucheck and energy source by Direct/ comparison Method	1.2 Wh to 3.6 kWh	1.18%
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (10Hz-1kHz)	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	100 µA to 1 A	0.55 % to 0.20 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (1kHz-5kHz)	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	1 A to 3 A	0.20 % to 0.25 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (1kHz-5kHz)	Using 6 ½ DMM FLUKE & MFC 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 High Current @ (50Hz)	Using C.T.+6 ½ DMM FLUKE & current source by Direct/ comparison Method	20 A to 2000 A	2.10 % to 2.40 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ (50Hz)	Using HV Divider & HV source by Direct/ comparison Method	1 kV to 20 kV	2.40 % to 2.60 %
7	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 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10Hz-20kHz)	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	10 mV to 1000 V	0.90 % to 0.15 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (20kHz)	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	10 mV to 700 V	0.75 % to 0.25 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ (1kHz)	Using 6 ½ DMM FLUKE & capacitance box by Direct/ Comparison Method	10 mF to 100 mF	1.85 % to 4.90 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ (1kHz)	Using 6 ½ DMM FLUKE & capacitance box by Direct/ Comparison Method	1nF to 10 mF	5.47 % to 1.85 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (10Hz-1kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	30 µA to 3 A	0.62 % to 0.09 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (1kHz-5kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	30 µA to 330 mA	0.95 % to 0.2 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (1kHz-5kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	330 mA to 10 A	0.2 % to 3.5 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (45Hz-1kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	3 A to 20 A	0.09 % to 0.21 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (50Hz-60Hz)	Using 5522A/9100 Calibrator(Fluke) with CC by Direct Method	10 A to 1000 A	0.5 % to 0.55 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 50Hz-60Hz/ 0.2pF to 1pF(Lead & Lag)/ 30V to 1000V/ 10mA to 20A	Using 5522A calibrator(Fluke)/3050 calibrator by Direct method	60 mW to 20 kW	1.8 % to 0.38 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10Hz-45Hz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	1 mV to 33 V	0.9 % to 0.05 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10kHz-100kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	30 mV to 330 mV	0.5 % to 0.15 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10kHz-100kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	330 mV to 330 V	0.15 % to 0.32 %



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21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ (45Hz-10kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	1 mV to 330 mV	0.8 % to 0.02 %
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ (45Hz-10kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	330 mV to 1000 V	0.02 % to 0.04 %
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ (1kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	220 pF to 330 nF	5.85 % to 0.45 %
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ (1kHz)	Using 5522A/9100 Calibrator(Fluke) by Direct Method	330 nF to 30 mF	0.45 % to 1.5 %
25	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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26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source,Measure)	AC Current @ (10Hz-1kHz)	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	1 A to 10 A	0.20 % to 0.25 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with 6 ½ DMM FLUKE & current source by Direct/ Comparison Method	10 A to 100 A	0.9 % to 0.53 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	100 µA to 100 mA	0.1 % to 0.07 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	100 mA to 10 A	0.07 % to 0.2 %
30	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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31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Divider by Direct Method	20 kV to 100 kV	2.30 % to 3.06 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	1 mV to 1 V	0.42 % to 0.085 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	1 V to 1000 V	0.085 % to 0.006 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ DMM FLUKE & resistance box/ MFC by Direct/ Comparison Method	1 ohm to 100 ohm	0.15 % to 0.07 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ DMM FLUKE, & resistance box / MFC by Direct/ Comparison Method	100 ohm to 1 Gohm	0.07 % to 2.6 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5522A/9100 Calibrator(Fluke) by Direct Method	10 µA to 330 mA	0.25 % to 0.02 %



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37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5522A/9100 Calibrator(Fluke) by Direct Method	10 A to 20 A	0.07 % to 0.026 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5522A/9100 Calibrator(Fluke) with CC by Direct Method	20 A to 1000 A	0.45 % to 0.64 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5522A/9100 Calibrator(Fluke) by Direct Method	330 mA to 10 A	0.02 % to 0.07 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5522A/9100 Calibrator(Fluke) by Direct Method	1 mV to 33 V	0.15 % to 0.002 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5522A/9100 Calibrator(Fluke) by Direct Method	33 V to 1000 V	0.002 % to 0.003 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using 5522A/9100 Calibrator(Fluke) by Direct Method	1 Mohm to 10 Mohm	0.004 % to 0.03 %



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43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	1 Gohm to 200 Gohm	1.74 % to 3.5 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using 5522A/9100 Calibrator(Fluke) by Direct Method	1 ohm to 1 Mohm	0.1 % to 0.004 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using 5522A/9100 Calibrator(Fluke) by Direct Method	10 Mohm to 330 Mohm	0.03 % to 0.35 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using 5522A/9100 Calibrator(Fluke) by Direct Method	330 Mohm to 1 Gohm	0.35 % to 0.2 %
47	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscopes/ Amplitude	Using 5522A (Fluke)/3050 Calibrator by Direct Method	1 mV to 130 V	4.9 % to 0.35 %
48	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscopes/Bandwidth	Using 5522A (Fluke)/3050 Calibrator by Direct Method	50 kHz to 1.1 GHz	2.5%



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49	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscopes/Time	Using 5522A (Fluke)/3050 Calibrator by Direct Method	2 ns to 5 s	0.03 % to 0.6 %
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using 5522A/9100 Calibrator(Fluke) by Direct Method	450 °C to 1820 °C	0.8°C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple	Using 5522A/9100 Calibrator(Fluke) by Direct Method	-200 °C to 1000 °C	0.15°C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using 5522A/9100 Calibrator(Fluke) by Direct Method	-200 °C to 1000 °C	0.6°C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple	Using 5522A/9100 Calibrator(Fluke) by Direct Method	-200 °C to 1200 °C	0.6°C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple	Using 5522A/9100 Calibrator(Fluke) by Direct Method	-200 °C to 1300 °C	0.6°C



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55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R&S-Type Thermocouple	Using 5522A/9100 Calibrator(Fluke) by Direct Method	100 °C to 1700 °C	0.65°C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using 5522A/9100 Calibrator(Fluke) by Direct Method	-200 °C to 800 °C	0.085°C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple	Using 5522A/9100 Calibrator(Fluke) by Direct Method	-200 °C to 400 °C	0.21°C
58	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Function Generator & MFC by Direct/ comparison Method	1 MHz to 10 MHz	0.006 % to 0.06 %
59	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ DMM FLUKE & MFC by Direct/ Comparison Method	10 Hz to 1000 kHz	0.06%
60	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer/Stop Watch/Hour meter/Time totalizer	Using time totalizer by comparison Method	2 s to 30 min	0.35 s to 1 s



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61	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer/Stop Watch/Hour meter/Time totalizer	Using time totalizer by comparison Method	30 min to 24 hr	1 s to 56 s
62	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5522A/9100 Calibrator (Fluke)/Function Generator by Direct Method	10 Hz to 10 MHz	0.001 % to 0.15 %
63	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Contact)	Using Tachometer (source RPM generator/Calibrator)by comparison Method	>1000 RPM to 4000 RPM	10RPM
64	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Contact)	Using Tachometer (source RPM generator/Calibrator)by comparison Method	100 RPM to 1000 RPM	3.5RPM
65	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Non-Contact) / Stirrer	Using Tachometer (source RPM generator/Calibrator)by comparison Method	>4000 RPM to 47000 RPM	18RPM
66	MECHANICAL-ACCELERATION AND SPEED	Speed -RPM Tachometer (Non-Contact) / Stirrer	Using Tachometer (source RPM generator/Calibrator)by comparison Method	100 RPM to 4000 RPM	3.7RPM



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67	MECHANICAL-ACOUSTICS	Sound Level Meter(1kHz)	Sound level generator calibrator Direct method:	94dB and 114 dB	1.8dB
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge/Micro Height Gauge (Vernier/Dial/Digital) L.C.-0.1 μm	Using Slip gauge	0 to 1000 mm	10μm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block-Symmetry, Parallelism & Squareness	Using Surface Plate, Test Mandrels & sylvac probe with DRO & Square Cylinder Slip Gauges	Up to 200 mm	13μm
70	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile projector L.C.: -0.001 mm Linear measurement	Using Glass scale by comparison method	0 to 300 mm	5μm
71	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile projector L.C.: -1 sec Angular measurement	Using Angular graticule scale by comparison method	0 to 360 °	1.2 min
72	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile projector Magnification	Using Glass scale by comparison method	10 X to 100 X	1%



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73	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Plates(Cast Iron/Granite)- Flatness	Using Digital level based on IS 12937-1990, IS7327-1991, IS2285-1991	up to 4000 X 4000 mm	2.5vL+W/125µm, where L & W in mm
74	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine (Angular)	Using Glass graticule by comparison Method	0 ° to 360 °	15s
75	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine/Microscope (Linear)	Using Glass scale by comparison Method	0 to 200 mm	3µm
76	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial and Digital Pressure Gauges,Pressure Transmitters/Transducers Pressure Switches	Digital pressure Calibrator as per DKD-R6-1 comparison	>400 bar to 700 bar	0.6bar
77	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial and Digital Pressure Gauges, Pressure Transmitters/Transducers Pressure Switches	Digital pressure Calibrator as per DKD-R6-1 comparison	30 bar to 400 bar	0.15bar



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78	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial and Digital Pressure Gauges, Pressure Transmitters/Transducers Pressure Switches	Digital pressure Calibrator -as per DKD-R6-1 comparison	>0.2 bar to 1 bar	0.005bar
79	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial and Digital Pressure Gauges, Pressure Transmitters/Transducers Pressure Switches	Digital pressure Calibrator as per DKD-R6-1 comparison	>1 bar to 30 bar	0.01bar
80	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial and Digital Pressure Gauges, Magnehelic gauges, Pressure Transmitter/Transducers Pressure Switch	Digital pressure Calibrator -as per DKD-R6-1 comparison	>20 mbar to 200 mbar	0.13mbar
81	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Digital and Dial Pressure Gauges , Magnehelic gauges, Pressure Transducers/Transmitters Pressure Switch	Digital low pressure Calibrator -as per DKD-R6-1 comparison	0 to 20 mbar	0.01mbar



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82	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Vacuum Dial and Digital Vacuum Gauges, Vacuum Transmitters/Transducers, Vacuum Switches	Digital Vacuum Calibrator -as per DKD-R6-1 comparison	-0.87 bar to 0	0.0016bar
83	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance Class I & Coarser d =0.1 mg	Using standard weights E1&E2 class weights as per OIML R-76-1	82 g to 220 g	0.22mg
84	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance Class II & Coarser d =1 mg	Using standard F1 class weights as per OIML R-76-1	220 g to 1.02 kg	3.0mg
85	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance Class II & Coarser d =10 mg	Using standard F1 class weights as per OIML R-76-1	1.02 kg to 2.2 kg	30mg
86	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance Class II & Coarser d =100 mg	Using standard F1 class weights as per OIML R-76-1	2.2 kg to 32.2 kg	250mg
87	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance Class III & Coarser d =1 g	Using standard F1 class weights as per OIML R-76-1	32.2 kg to 200 kg	35g



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88	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Relative Humidity at a specified Single Position in environmental, Climatic ,Humidity Chamber. (@25 °C)	Using Temperature & Humidity meter (source Humidity Generator/Calibrator) with probe/ comparison Method	20 %RH to 95 %RH	3%RH
89	THERMAL-TEMPERATURE	Glass thermometer / Dial thermometer	Using RTD (Pt-100) , 6½ DMM & Liquid bath / comparison Method	140 °C to 250 °C	0.68°C
90	THERMAL-TEMPERATURE	Glass thermometer / Dial thermometer	Using RTD (Pt-100) , 6½ DMM & Liquid bath by comparison Method	-35 °C to 140 °C	0.2°C
91	THERMAL-TEMPERATURE	RTD/Thermocouple / Sensor with or without temperature Indicator/ Data logger / Recorder	Using RTD (Pt-100) , 6½ DMM & Liquid bath/Dry block insert / comparison Method	-35 °C to 140 °C	0.2°C
92	THERMAL-TEMPERATURE	RTD/Thermocouple / Sensor with or without temperature Indicator/ Data logger / Recorder	Using RTD (Pt-100) , 6½ DMM & Liquid bath/Dry block insert /Direct/ comparison Method	140 °C to 600 °C	0.95°C
93	THERMAL-TEMPERATURE	RTD/Thermocouple / Sensor with or without temperature Indicator/ Data logger / Recorder	Using RTD (Pt-100) , 6½ DMM & Liquid bath/Dry block insert /Direct/ comparison Method	-35 °C to 140 °C	0.45°C



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94	THERMAL-TEMPERATURE	Spatial mapping using multi sensor & data logger of Freezer, cold chamber Oven, Furnace,Coating oven	Using PT-100 Sensor & Thermocouple & Data logger/ comparison Method	-40 °C to 400 °C	2.60°C
95	THERMAL-TEMPERATURE	Spatial mapping using multi sensor & data logger of Oven, Furnace, Coating oven	Using Thermocouple & Data logger/ comparison Method	400 °C to 1200 °C	3.80°C
96	THERMAL-TEMPERATURE	Temperature Indicator (at single specified Position) of Freezer, cold chamber, Oven, Furnace	Using RTD (Pt-100) & 6½ DMM /Direct/ comparison Method	-65 °C to 600 °C	1.60°C
97	THERMAL-TEMPERATURE	Temperature Indicator (at single specified Position) of Oven, Furnace	Using Thermocouple & universal calibrator/ comparison Method	600 °C to 1200 °C	2.92°C
98	THERMAL-TEMPERATURE	Thermocouple / Sensor with or without temperature Indicator/ Data logger / Recorder	Using R-Type Thermocouple,universal calibrator & Liquid bath/Dry block insert /Direct/ comparison Method	600 °C to 1200 °C	2.15°C

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