



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

FLUID CONTROL RESEARCH INSTITUTE

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

KANJIKODE WEST, PALAKKAD, KERALA, INDIA

in the field of

CALIBRATION

Certificate Number: NABLC0726KL04856 (In lieu of CC-2395)

Issue Date: 01/07/2026

Valid Until: 30/06/2030

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: FLUID CONTROL RESEARCH INSTITUTE

Signed for and on behalf of NABL



Anita Rani
Director

Dr. Ramanand N. Shukla
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

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Validity

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)($\pm$)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 $\emptyset$, AC Power @ (50 Hz, UPF, 60 V to 240 V, 0.5 A to 20 A)	Using Digital Power Meter by Direct Method	30 W to 4.8 kW	0.81 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	0.1 A to 1 A	0.85 % to 0.2 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	1 A to 3 A	0.2 % to 0.35 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	10 mV to 1 V	0.55 % to 0.12 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	100 V to 750 V	0.12 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	1 V to 100 V	0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multi Product Calibrator by Direct Method	1 A to 20 A	0.85 % to 3.5 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.1 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 A to 20 A	0.1 % to 0.17 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 5 kHz	Using Multifunction Calibrator by Direct Method	1 mA to 1 A	0.021 % to 0.38 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.58 % to 0.35 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 100 kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.15 % to 0.3 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 100 kHz	Using Multi Product Calibrator by Direct Method	30 mV to 10 V	0.45 % to 0.15 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 45 Hz	Using Multi Product Calibrator by Direct Method	1 mV to 100 mV	0.78 % to 0.019 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 45 Hz	Using Multi Product Calibrator by Direct Method	100 mV to 33 V	0.019 % to 0.03 %



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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	0.71 % to 0.102 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 V to 1000 V	0.031 % to 0.04 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.102 % to 0.019 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.019 % to 0.031 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	0.1 mA to 10 mA	2.37 % to 0.08 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 mA to 100 mA	0.08 % to 0.06 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.06 % to 0.16 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	0.1 mV to 1 mV	4.2 % to 0.44 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	0.44 % to 0.01 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	0.007 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.01 % to 0.007 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.015 % to 0.048 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 100 ohm	0.48 % to 0.016 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.048 % to 1 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	100 ohm to 1 Mohm	0.016 % to 0.015 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	1 A to 20 A	0.028 % to 0.12 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	1 mA to 100 mA	0.006 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	100 µA to 1 mA	0.021 % to 0.006 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	100 mA to 1 A	0.006 % to 0.014 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.31 % to 0.32 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	1 mV to 10 mV	0.06 % to 0.007 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	10 mV to 10 V	0.007 % to 0.001 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	10 V to 1000 V	0.0025 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	100 µV to 1 mV	0.6 % to 0.06 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Standard Resistor by Direct Method	1 ohm	0.0035 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Standard Resistor by Direct Method	100 µohm	0.13 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Standard Resistor by Direct Method	100 kohm	0.009 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Standard Resistor by Direct Method	100 Mohm	0.01 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Standard Resistor by Direct Method	1 Gohm	0.085 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Standard Resistor by Direct Method	1 kohm	0.009 %



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Standard Resistor by Direct Method	1 Mohm	0.0023 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Standard Resistor by Direct Method	10 µohm	0.015 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Standard Resistor by Direct Method	10 kohm	0.009 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Standard Resistor by Direct Method	10 Mohm	0.0045 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Standard Resistor by Direct Method	10 mohm	0.01 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Standard Resistor by Direct Method	10 ohm	0.0004 %



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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Standard Resistor by Direct Method	100 mohm	0.006 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Standard Resistor by Direct Method	100 ohm	0.0004 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Standard Resistor by Direct Method	25 ohm	0.009 %
55	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude AC Voltage (Sine Wave) @ 50 ohm Load and 1 kHz	Using Oscilloscope Calibrator by Direct Method	100 mV to 4.8 V	1.7 %
56	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude AC Voltage (Square Wave) @ 1 Mohm Load and 1 kHz	Using Oscilloscope Calibrator by Direct Method	10 mV to 60 V	0.54 % to 0.17 %
57	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude DC Voltage @ 1 Mohm Load	Using Oscilloscope Calibrator by Direct Method	10 mV to 100 V	0.38 % to 0.08 %



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58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth / Flatness (Relative to 50 kHz)	Using Oscilloscope Calibrator by Direct Method	50 kHz to 600 MHz	4.45 %
59	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Marker	Using Oscilloscope Calibrator by Direct Method	10 ns to 10 ms	0.14 % to 0.058 %
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using 6½ Digit Multimeter by Direct Method	(-) 200 °C to 800 °C	0.15 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 1000)	Using 6½ Digit Multimeter by Direct Method	(-) 200 °C to 630 °C	0.13 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Multiproduct Calibrator by Direct Method	600 °C to 1800 °C	0.53 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple C Type	Using Multiproduct Calibrator by Direct Method	1 °C to 1000 °C	0.39 °C



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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E Type	Using Multiproduct Calibrator by Direct Method	(-) 100 °C to 1000 °C	0.25 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.32 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.45 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.43 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Multiproduct Calibrator by Direct Method	100 °C to 1760 °C	0.66 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Multiproduct Calibrator by Direct Method	100 °C to 1760 °C	0.57 °C



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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Multiproduct Calibrator by Direct Method	(-) 150 °C to 400 °C	0.32 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 800 °C	0.27 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 1000)	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 630 °C	0.27 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Multiproduct Calibrator by Direct Method	600 °C to 1800 °C	0.51 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple C Type	Using Multiproduct Calibrator by Direct Method	1 °C to 1000 °C	0.37 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multiproduct Calibrator by Direct Method	(-) 100 °C to 1000 °C	0.26 °C



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76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multiproduct Calibrator by Direct Method	(-) 210 °C to 1200 °C	0.31 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.47 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.43 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multiproduct Calibrator by Direct Method	100 °C to 1750 °C	0.66 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multiproduct Calibrator by Direct Method	100 °C to 1760 °C	0.54 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multiproduct Calibrator by Direct Method	(-) 150 °C to 400 °C	0.28 °C



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82	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Universal Counter by Direct Method	1 Hz to 225 MHz	0.1 % to 0.00028 %
83	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Universal Counter by Direct Method	1 s to 5400 s	5 µs to 15.91 ms
84	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Function Generator by Direct Method	1 Hz to 9 kHz	1 % to 0.0023 %
85	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using RF Signal Generator by Direct Method	9 kHz to 200 MHz	0.0023 % to 0.0003 %
86	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow (Oil)	Using 2 kg Weighing System by Gravimetric Method as per ISO 4185	0.05 kg to 1 kg	0.03 % rdg
87	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow (Oil)	Using 60 kg Weighing System by Gravimetric Method as per ISO 4185	1 kg to 30 kg	0.03 % rdg



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88	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow (Oil)	Using 10000 kg Weighing System by Gravimetric Method as per ISO 4185	1600 kg to 8000 kg	0.042 % rdg
89	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow (Oil)	Using 300 kg Weighing System by Gravimetric Method as per ISO 4185	25 kg to 250 kg	0.03 % rdg
90	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow (Oil)	Using 2000 kg Weighing System by Gravimetric Method as per ISO 4185	250 kg to 1600 kg	0.03 % rdg
91	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow (Water)	Using 2 kg Weighing System by Gravimetric Method as per ISO 4185	0.05 kg to 1 kg	0.03 % rdg
92	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow (Water)	Using 60 kg Weighing System by Gravimetric Method as per ISO 4185	1 kg to 30 kg	0.03 % rdg
93	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow (Water)	Using 2000 kg Weighing System by Gravimetric Method as per ISO 4185	200 kg to 2000 kg	0.03 % rdg
94	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow (Water)	Using 20000 kg Weighing System by Gravimetric Method as per ISO 4185	2000 kg to 20000 kg	0.03 % rdg



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95	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow (Water)	Using 300 kg Weighing System by Gravimetric Method as per ISO 4185	30 kg to 200 kg	0.03 % rdg
96	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow Rate (Air) @ Ambient Pressure (Up to 20 bar)	Using Critical Flow Venturi Nozzles (Sonic Nozzles) by Comparison Method	1 kg/h to 1000 kg/h	0.15 %
97	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow Rate (Air) @ Ambient Pressure (Up to 20 barg)	Using 1200 kg Weighing Balance by Gravimetric Method	4 kg/h to 1000 kg/h	0.1 %
98	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow Rate (Oil)	Using 300 kg Weighing System by Gravimetric Method as per ISO 4185	0.8 t/h to 5 t/h	0.041 % rdg
99	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow Rate (Oil)	Using 10000 kg Weighing System by Gravimetric Method as per ISO 4185	80 t/h to 500 t/h	0.056 % rdg
100	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow Rate (Water)	Using 2 kg Weighing System by Gravimetric Method as per ISO 4185	0.001 t/h to 0.1 t/h	0.035 % rdg
101	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow Rate (Water)	Using 60 kg Weighing System by Gravimetric Method as per ISO 4185	0.1 t/h to 1 t/h	0.04 % rdg



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102	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow Rate (Water)	Using Coriolis Mass Flow Meter by Comparison Method as per ISO 10790: 2015	15 t/h to 150 t/h	0.12 % rdg
103	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow Rate (Water)	Using 20000 kg Weighing System by Gravimetric Method as per ISO 4185	200 t/h to 2500 t/h	0.05 % rdg
104	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow Rate (Water)	Using 2000 kg Weighing System by Gravimetric Method as per ISO 4185	6 t/h to 200 t/h	0.035 % rdg
105	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flowrate (Oil)	Using 2 kg Weighing System by Gravimetric Method as per ISO 4185	0.001 t/h to 0.1 t/h	0.035 % rdg
106	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flowrate (Oil)	Using 60 kg Weighing System by Gravimetric Method as per ISO 4185	0.1 t/h to 1 t/h	0.04 % rdg
107	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flowrate (Oil)	Using 2000 kg Weighing System by Gravimetric Method as per ISO 4185	5 t/h to 80 t/h	0.035 % rdg
108	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flowrate (Water)	Using 300 kg Weighing System by Gravimetric Method as per ISO 4185	1 t/h to 6 t/h	0.035 % rdg



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109	FLUID FLOW-FLOW MEASURING DEVICES	Velocity (Air) @ Ambient Pressure	Using Thermal Anemometer by Comparison Method	0.2 m/s to 0.5 m/s	0.015 m/s
110	FLUID FLOW-FLOW MEASURING DEVICES	Velocity (Air) @ Ambient Pressure	Using Wind Tunnel and Thermal Anemometer by Comparison Method	0.5 m/s to 3 m/s	3 %
111	FLUID FLOW-FLOW MEASURING DEVICES	Velocity (Air) @ Ambient Pressure	Using Wind Tunnel and Pitot Static Tube by Comparison Method as per ISO 3966	3 m/s to 80 m/s	1.1 %
112	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow (Air) @ (Up to 3 barg)	Using 30 kg Weighing System by Gravimetric Method	2000 l	0.1 %
113	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow (Air) @ Ambient Pressure	Using 30 kg Weighing Balance by Gravimetric Method	0.1 l to 500 l	0.1 %
114	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow (Oil)	Using 2 kg Weighing System by Gravimetric Method as per ISO 4185	0.0001 m ³ to 0.001 m ³	0.04 % rdg
115	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow (Oil)	Using 60 kg Weighing System by Gravimetric Method as per ISO 4185	0.001 m ³ to 0.03 m ³	0.04 % rdg



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116	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow (Oil)	Using 300 kg Weighing System by Gravimetric Method as per ISO 4185	0.03 m ³ to 0.2 m ³	0.04 % rdg
117	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow (Oil)	Using 2000 kg Weighing System by Gravimetric Method as per ISO 4185	0.2 m ³ to 1.8 m ³	0.04 % rdg
118	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow (Oil)	Using 10000 kg Weighing System by Gravimetric Method as per ISO 4185	1.8 m ³ to 9 m ³	0.043 % rdg
119	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow (Water)	Using 2 kg Weighing System by Gravimetric Method as per ISO 4185	0.0001 m ³ to 0.001 m ³	0.04 % rdg
120	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow (Water)	Using 60 kg Weighing System by Gravimetric Method as per ISO 4185	0.001 m ³ to 0.03 m ³	0.04 % rdg
121	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow (Water)	Using 300 kg Weighing System by Gravimetric Method as per ISO 4185	0.03 m ³ to 0.2 m ³	0.04 % rdg
122	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow (Water)	Using 2000 kg Weighing System by Gravimetric Method as per ISO 4185	0.2 m ³ to 2 m ³	0.04 % rdg



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123	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow (Water)	Using 20000 kg Weighing System by Gravimetric Method as per ISO 4185	2 m ³ to 20 m ³	0.05 % rdg
124	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow (Water)	Using 210 g Weighing System by Gravimetric Method as per ISO 4185	5 ml to 60 ml	0.4 % rdg
125	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Air)	Using Positive Displacement Meter by Comparison Method as per OIML R 137, EN 12480	0.8 m ³ /h to 25 m ³ /h	0.5 %
126	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Air)	Using Turbine Meters by Comparison Method	10 m ³ /h to 400 m ³ /h	0.3 %
127	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Air) @ Ambient Pressure	Using Bell Prover by Comparison Method as per ISO 6145	0.016 m ³ /h to 0.25 m ³ /h	0.3 %
128	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Air) @ Ambient Pressure	Using Bell Prover by Comparison Method as per ISO 6145	0.25 m ³ /h to 40 m ³ /h	0.12 %rdg
129	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Air) @ Ambient Pressure	Using Critical Flow Venturi Nozzles (Sonic Nozzles) by Comparison Method	0.7 m ³ /h to 400 m ³ /h	0.15 %



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130	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Air) @ Ambient Pressure	Using Turbine Meters by Comparison Method as per ISO 9951	200 m ³ /h to 4000 m ³ /h	0.5 %
131	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Air) @ Ambient Pressure	Using Critical Flow Venturi Nozzles (Sonic Nozzles) by Comparison Method	400 m ³ /h to 10000 m ³ /h	0.25 %
132	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Air) @ Ambient Pressure	Using Turbine Meters by Comparison Method as per ISO 9951	90 m ³ /h to 1000 m ³ /h	0.5 %
133	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Air) @ Ambient Pressure (Up to 20 bar)	Using Thermal Mass Flow Meters by Comparison Method as per ISO 14511	0.00075 l/min to 650 l/min	1 %
134	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Air) @ Ambient Pressure (Up to 20 bar)	Using Positive Displacement Meter by Comparison Method as per OIML R 137, EN 12480	0.5 m ³ /h to 160 m ³ /h	0.5 %
135	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Liquid)	Using Coriolis Mass Flow Meter by Comparison Method as per ISO 10790: 2015	15 m ³ /h to 150 m ³ /h	0.15 % rdg
136	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Nitrogen) @ Ambient Pressure	Using Piston Prover by Comparison Method	0.75 ml/min to 250 ml/min	0.3 %



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137	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Oil)	Using 2 kg Weighing System by Gravimetric Method as per ISO 4185	0.001 m ³ /h to 0.1 m ³ /h	0.052 % rdg
138	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Oil)	Using 60 kg Weighing System by Gravimetric Method as per ISO 4185	0.1 m ³ /h to 1 m ³ /h	0.05 % rdg
139	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Oil)	Using 300 kg Weighing System by Gravimetric Method as per ISO 4185	1 m ³ /h to 6 m ³ /h	0.05 % rdg
140	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Oil)	Using 10000 kg Weighing System by Gravimetric Method as per ISO 4185	100 m ³ /h to 600 m ³ /h	0.1 % rdg
141	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Oil)	Using 2000 kg Weighing System by Gravimetric Method as per ISO 4185	6 m ³ /h to 100 m ³ /h	0.058 % rdg
142	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Water)	Using 2 kg Weighing System by Gravimetric Method as per ISO 4185	0.001 m ³ /h to 0.1 m ³ /h	0.05 % rdg
143	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Water)	Using 60 kg Weighing System by Gravimetric Method as per ISO 4185	0.1 m ³ /h to 1 m ³ /h	0.05 % rdg



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144	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Water)	Using 300 kg Weighing System by Gravimetric Method as per ISO 4185	1 m ³ /h to 6 m ³ /h	0.05 % rdg
145	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Water)	Using 210 g Weighing System by Gravimetric Method as per ISO 4185	10 ml/h to 1000 ml/h	0.45 % rdg
146	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Water)	Using 20000 kg Weighing System by Gravimetric Method as per ISO 4185	200 m ³ /h to 2500 m ³ /h	0.1 % rdg
147	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Water)	Using Electromagnetic Flow Meter by Comparison Method as per ISO 20456: 2017	2500 m ³ /h to 4500 m ³ /h	0.2 % rdg
148	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Water)	Using Electromagnetic Flow Meters by Comparison Method	4500 m ³ /h to 10000 m ³ /h	0.5 % rdg
149	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Water)	Using 2000 kg Weighing System by Gravimetric Method as per ISO 4185	6 m ³ /h to 200 m ³ /h	0.05 % rdg



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150	MECHANICAL-ACCELERATION AND SPEED	Accelerometer, Vibration Sensor - Amplitude @ 2 Hz to 5000 Hz	Using Accelerometer Calibration System by Back to Back Calibration Method as per ISO 16063-21	0.1 g (pk) to 10 g (pk)	1.8 %
151	MECHANICAL-ACCELERATION AND SPEED	Accelerometer, Vibration Sensor - Amplitude @ 100 Hz to 160 Hz	Using Accelerometer Calibration System by Back to Back Calibration Method as per ISO 16063-21	0.1 g (pk) to 10 g (pk)	1.25 %
152	MECHANICAL-ACCELERATION AND SPEED	Accelerometer, Vibration Sensor - Amplitude @ 5000 Hz to 15000 Hz	Using Accelerometer Calibration System by Back to Back Calibration Method as per ISO 16063-21	0.1 g (pk) to 10 g (pk)	2.5 %
153	MECHANICAL-ACCELERATION AND SPEED	Accelerometer, Vibration Sensor - Linearity @ 100 Hz to 160 Hz	Using Accelerometer Calibration System by Back to Back Calibration Method as per ISO 16063-21	0.1 g (pk) to 30 g (pk)	1.25 %
154	MECHANICAL-ACCELERATION AND SPEED	Accelerometer, Vibration Sensor - Phase	Using Accelerometer Calibration System by Back to Back Calibration Method as per ISO 16063-21	2 Hz to 15000 Hz	1.5 ° to 3 °
155	MECHANICAL-ACCELERATION AND SPEED	Accelerometer, Vibration Sensor - Transverse Sensitivity (5 Hz to 3000 Hz)	Using Accelerometer Calibration System by Back to Back Calibration Method as per ISO 16063-21	0.1 g (pk) to 10 g (pk)	2.76 %



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156	MECHANICAL-ACCELERATION AND SPEED	Accelerometer, Vibration Sensor, Vibration Meter, Vibration Analyzer - Amplitude @ 5 Hz to 10000 Hz	Using Portable Accelerometer Calibration System by Back to Back Calibration Method as per ISO 16063-21	0.1 g (pk) to 10 g (pk)	2.64 %
157	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, MST Apparatus - Non Contact Mode	Using Tachometer by Direct Method	10000 RPM to 50000 RPM	2.1 RPM
158	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, MST Apparatus - Non Contact Mode	Using Tachometer by Direct Method	60 RPM to 10000 RPM	1 RPM
159	MECHANICAL-ACCELERATION AND SPEED	Charge Amplifier use with Vibration, Acoustic Sensor - Amplitude @ 2 Hz to 20000 Hz	Using Vibration Controller System by Direct Method	1 pC/g to 1000 pC/g	0.4 %
160	MECHANICAL-ACCELERATION AND SPEED	Electro Dynamic Vibration Testing System, Mechanical Shaker, Vibration Shaker - Acceleration @ (2 Hz to 2000 Hz)	Using Reference Accelerometer, Vibration Analyzer and Multimeter by Back to Back Calibration Method as per JJG 948 and JJG 1000	0.1 g (pk) to 40 g (pk)	3.1 %
161	MECHANICAL-ACCELERATION AND SPEED	IEPE Amplifier use with Vibration, Acoustic Sensor - Amplitude @ 2 Hz to 20000 Hz	Using Vibration Controller System by Direct Method	1 mv to 1000 mv	0.3 %



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162	MECHANICAL-ACCELERATION AND SPEED	Impact Hammer used in Modal Analysis - Sensitivity Verification	Using Pendulum Type Calibration System by Direct Method	0.1 pC/N, mv/N to 10 pC/N, mv/N	2.8 %
163	MECHANICAL-ACCELERATION AND SPEED	Shock Calibration of Accelerometer (Pulse Width 6 ms to 11 ms)	Using Reference Accelerometer, Vibration Analyzer and Electro Dynamic Shaker as per ISO 16063-21, ISO 16063-22	5 g (pk) to 100 g (pk)	3.8 %
164	MECHANICAL-ACCELERATION AND SPEED	Stroboscope - Non Contact Mode	Using Tachometer, Variable Speed Drive and Gear Box by Comparison Method	100 RPM to 10000 RPM	1 RPM
165	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Mode	Using Tachometer, Variable Speed Drive and Gear Box Assembly by Comparison Method	100 RPM to 10000 RPM	1 RPM
166	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Mode	Using Function Generator, Light Source by Comparison Method	10000 RPM to 50000 RPM	1.42 RPM
167	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Mode	Using Function Generator and Light Source by Comparison Method	50000 RPM to 100000 RPM	2.48 RPM



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168	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Mode	Using Function Generator and Light Source by Comparison Method	60 RPM to 10000 RPM	0.66 RPM
169	MECHANICAL-ACCELERATION AND SPEED	Vibration Analyzer, Vibration Meter - (Multipoint) - Amplitude (Acceleration) @ 5 Hz to 5000 Hz	Using Accelerometer Reference Calibration System by Back to Back Calibration Method as per ISO 16063-21	0.1 g (pk) to 15 g (pk)	2.4 %
170	MECHANICAL-ACCELERATION AND SPEED	Vibration Analyzer, Vibration Meter - (Multipoint) - Amplitude (Displacement) @ 5 Hz to 800 Hz	Using Accelerometer Reference Calibration System by Back to Back Calibration Method as per ISO 16063-21	0.01 mm (pk) to 10 mm (pk)	2.4 %
171	MECHANICAL-ACCELERATION AND SPEED	Vibration Analyzer, Vibration Meter - (Multipoint) - Amplitude (Velocity) @ 5 Hz to 1250 Hz	Using Accelerometer Reference Calibration System by Back to Back Calibration Method as per ISO 16063-21	1 mm/sec (pk) to 240 mm/sec (pk)	2.4 %
172	MECHANICAL-ACCELERATION AND SPEED	Vibration Calibrator, Vibration Shaker (Acceleration, Velocity and Displacement Mode) - Amplitude @ 5 Hz to 10000 Hz	Using Reference Accelerometer and Multimeter by Back to Back Calibration Method as per ISO 16063-21	0.1 g (pk) to 30 g (pk)	2.5 %



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173	MECHANICAL-ACOUSTICS	Acoustic Power - Sound Source @ 20 Hz to 20000 Hz	Using Hemi Anechoic Chamber, Sound Level Meter as per ISO 3744, ISO 3745, ISO 6926	30 dB to 140 dB	0.45 dB
174	MECHANICAL-ACOUSTICS	Acoustic Pressure - Free Field Microphone, Microphone with Preamplifier @ 10000 Hz to 20000 Hz	Using Portable Anechoic Chamber, Reference Microphone and Vibration Control Unit as per IEC 61672-3	65 dB to 90 dB	0.42 dB
175	MECHANICAL-ACOUSTICS	Acoustic Pressure - Free Field Microphone, Microphone with Preamplifier @ 125 Hz to 10000 Hz	Using Portable Anechoic Chamber, Reference Microphone and Vibration Control Unit by Comparison Method as per IEC 61094-8	65 dB to 90 dB	0.26 dB
176	MECHANICAL-ACOUSTICS	Acoustic Pressure - Free Field Sound Level Meter @ > 250 Hz to 5000 Hz	Using Portable Anechoic Chamber, Reference Microphone and Vibration Control Unit as per IEC 61672-3	70 dB to 90 dB	0.31 dB



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177	MECHANICAL-ACOUSTICS	Acoustic Pressure - Free Field Sound Level Meter @ > 5000 Hz to 8000 Hz	Using Portable Anechoic Chamber, Reference Microphone and Vibration Control Unit as per IEC 61672-3	70 dB to 90 dB	0.33 dB
178	MECHANICAL-ACOUSTICS	Acoustic Pressure - Free Field Sound Level Meter @ > 8000 Hz to 20000 Hz	Using Portable Anechoic Chamber, Reference Microphone and Vibration Control Unit as per IEC 61672-3	70 dB to 90 dB	0.48 dB
179	MECHANICAL-ACOUSTICS	Acoustic Pressure - Free Field Sound Level Meter @ 125 Hz to 250 Hz	Using Portable Anechoic Chamber, Reference Microphone and Vibration Control Unit by Comparison Method as per IEC 61672-3	70 dB to 90 dB	0.4 dB
180	MECHANICAL-ACOUSTICS	Acoustic Pressure - Pressure Field Microphone, Sound Level Meter @ 1000 Hz	Using Reference Acoustic Calibrator, Vibration Control Unit by Comparison Method	74 dB to 124 dB	0.2 dB



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181	MECHANICAL-ACOUSTICS	Acoustic Pressure - Pressure Field Calibration of Sound Level Meter, Microphone with Pre Amplifier @ 31.5 Hz to 2000 Hz	Using Reference Acoustic Calibrator, Vibration Control Unit by Comparison Method	94 dB to 114 dB	0.32 dB
182	MECHANICAL-ACOUSTICS	Acoustic Pressure - Pressure Field Microphone, Sound Level Meter @ 250 Hz	Using Reference Piston Phone, Vibration Control Unit by Comparison Method	124 dB	0.2 dB
183	MECHANICAL-ACOUSTICS	Acoustic Pressure - Pressure Field, Multifunction Acoustic Calibrator @ 31.5 Hz to 16000 Hz	Using Reference Microphone and Control Unit by Comparison Method	64 dB to 140 dB	0.3 dB
184	MECHANICAL-ACOUSTICS	Acoustic Pressure - Pressure Field, Sound Level Calibrator, Piston Phone @ 250 Hz and 1000 Hz	Using Reference Microphone & Reference Control Unit by Measurement Method as per IEC 60942	74 dB to 124 dB	0.2 dB
185	MECHANICAL-ACOUSTICS	Acoustic Pressure - Pressure Field, Sound Level Calibrator, Piston Phone @ 250 Hz and 1000 Hz	Using Piston Phone, Acoustic Calibrator and Reference Control Unit by Substitution Method as per IEC 60942	94 dB to 124 dB	0.15 dB



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186	MECHANICAL-ACOUSTICS	Qualification of Anechoic and Hemi Anechoic Chamber	Using Reference Sound Source and Noise Analyzer as per ISO 3745	90 dBA to 92 dBA	0.45 dB
187	MECHANICAL-DENSITY AND VISCOSITY	Alcoholmeter	Using Density Hydrometer by Comparison Method	0 % v/v to 103 % v/v	0.1 %
188	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer, Specific Gravity Hydrometer	Using Density Hydrometer by Comparison Method	> 1 g/ml to 1.65 g/ml	0.00076 g/ml
189	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer, Specific Gravity Hydrometer	Using Density Hydrometers by Comparison Method	0.64 g/ml to 1 g/ml	0.0005 g/ml
190	MECHANICAL-DENSITY AND VISCOSITY	Density, Specific Gravity - Unknown Sample (DUC) Liquid	Using Certified Density Liquids and Reference Density Meter by Comparison Method	0.75 g/ml to 1.6 g/ml	0.00003 g/ml
191	MECHANICAL-DENSITY AND VISCOSITY	Digital Densitymeter (L.C.: 0.000001 g/ml)	Using Certified Density Liquids by Comparison Method	0.75 g/ml to 1.6 g/ml	0.000025 g/ml
192	MECHANICAL-DENSITY AND VISCOSITY	Lactometer	Using Density Hydrometer by Comparison Method	0 °L to 40 °L	0.1 %
193	MECHANICAL-DENSITY AND VISCOSITY	Mass Flow Meter, Densitometer - Density Indication	Using Certified Density Liquids and Reference Density Meter by Comparison Method	0.75 g/ml to 1.6 g/ml	0.00003 g/ml



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194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (L.C.: 5 minute of arc)	Using Angle Gauge Blocks by Direct Method	0° - 90° - 0 °	4 minute of arc
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - Transmission Error (L.C.: 1 µm)	Using Universal Length Measuring Machine by Comparison Method	0 to 2 mm	2.9 µm
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 10 µm)	Using Slip Gauge Set, Gauge Blocks and Gauge Block Accessories by Comparison Method	0 to 600 mm	10 µm
197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer - Analog / Dial / Digital (L.C.: 1 µm)	Using Gauge Blocks Set by Direct Method	0 to 300 mm	6.9 µm
198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 1 µm)	Using Gauge Blocks Set by Direct Method	0 to 25 mm	2.2 µm



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199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Dial / Digital (L.C.: 1 μ m)	Using Gauge Block, Long Gauge Blocks by Comparison Method	> 100 mm to 1000 mm	6 μ m
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Dial / Digital (L.C.: 1 μ m)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	3 μ m
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Universal Length Measuring Machine by Direct Method	0.1 mm to 2 mm	3.27 μ m
202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside / Stick Micrometer - Dial / Digital (L.C.: 1 μ m)	Using Universal Length Measuring Machine and Gauge Blocks by Comparison Method	> 100 mm to 600 mm	4.7 μ m
203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside / Stick Micrometer - Dial / Digital (L.C.: 1 μ m)	Using Universal Length Measuring Machine, Gauge Blocks by Comparison Method	5 mm to 100 mm	2 μ m



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204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.001 mm)	Using Universal Length Measuring Machine by Comparison Method	0 to 0.14 mm	1 µm
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.01 mm)	Using Universal Length Measuring Machine by Comparison Method	0 to 2 mm	3.1 µm
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 0.5 mm)	Using Tape and Scale Calibrator by Comparison Method	0 to 1000 mm	145 µm
207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 1 mm)	Using Tape and Scale Calibrator by Comparison Method	> 1 m to 100 m	290 x Sqrt (L) µm, where L is in m
208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pi Tape (L.C.: 1 mm)	Using Tape and Scale Calibrator by Comparison Method	Up to 6 m	290 x Sqrt (L) µm, where L is in m



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209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pin Gauge	Using Universal Length Measuring Machine by Direct Method	0.5 mm to 20 mm	1 µm
210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Universal Length Measuring Machine by Direct Method	1 mm to 100 mm	1 µm
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Universal Length Measuring Machine & Setting Rings by Comparison Method	> 100 mm to 200 mm	2 µm
212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Universal Length Measuring Machine & Setting Rings by Comparison Method	> 200 mm to 225 mm	6 µm
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Universal Length Measuring Machine, Setting Rings by Comparison Method	3 mm to 100 mm	1.5 µm



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214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge - Analog / Digital (L.C.: 1 µm)	Using Universal Length Measuring Machine by Comparison Method	0 to 100 mm	1.5 µm
215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Comparison Method	0.5 mm to 50 mm	4 µm
216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod, Extension Rod	Using Universal Length Measuring Machine & Gauge Blocks Set by Comparison Method	> 200 mm to 400 mm	2.92 µm
217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod, Extension Rod	Using Universal Length Measuring Machine & Gauge Blocks Set by Comparison Method	> 400 mm to 600 mm	3.62 µm
218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod, Extension Rod	Using Universal Length Measuring Machine, Gauge Blocks Set by Comparison Method	25 mm to 200 mm	1.26 µm



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219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Granite / Cast Iron	Using Electronic Level by Direct Method	325 mm x 325 mm to 2000 mm x 2000 mm	$1.8 \times \text{Sqrt} \{(L + W) / 150\} \mu\text{m}$, where L & W are in mm
220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape and Scale Calibrator (L.C.: 1 μm)	Using Slip Gauge and Long Slip Gauges by Comparison Method	0 to 1000 mm	10.32 μm
221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by Direct Method	0.032 mm to 25 mm	4 μm
222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Angle	Using Profile Projector by Direct Method	30° & 40° to 55° & 60°	10 minute of arc
223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Linear	Using Profile Projector by Comparison Method	0.2 mm to 8 mm	4 μm



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224	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Comparator (L.C.: 0.01 µm)	Using Slip Gauges by Comparison Method	0 to 25 mm	0.16 µm
225	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angle (L.C.: 1 minute of arc)	Using Angle Gauge Blocks by Comparison Method	0 ° to 360 °	1 minute of arc
226	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear (L.C.: 1 µm)	Using Glass Scale by Comparison Method	0 to 50 mm	2 µm
227	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Glass Scale and Vernier Caliper by Comparison Method	2 X to 50 X	0.05 %
228	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C.: 0.1 µm)	Using Slip Gauges by Comparison Method	0 to 100 mm	0.15 + (L / 200) µm, where L is in mm
229	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C.: 0.1 µm)	Using Long Gauge Blocks by Comparison Method	> 100 mm to 600 mm	0.2 + (L / 200) µm, where L is in mm
230	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Hydraulic Dead Weight Tester	Using Dead Weight Tester by Cross Float Method as per Euramet cg-3	6 bar (g) to 1200 bar (g)	0.0081 % rdg



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231	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Absolute Pressure Gauge, Absolute Pressure Transducer, Absolute Pressure Transmitter, Indicator of Pressure Switch - Pneumatic Pressure	Using Dead Weight Tester, Multimeter by Comparison Method as per DKD-R 6-1	0.5 bar (abs) to 20 bar (abs)	0.0075 % rdg
232	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Absolute Pressure Gauge, Absolute Pressure Transducer, Absolute Pressure Transmitter, Indicator of Pressure Switch - Pneumatic Pressure	Using Precision Pressure Calibrator, Pressure Comparator / Hand Pump, Multimeter by Comparison Method as per DKD-R 6-1	2 bar (abs) to 20 bar (abs)	0.02 % rdg
233	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Absolute Pressure Gauge, Absolute Pressure Transducer, Absolute Pressure Transmitter, Indicator of Pressure Switch - Pneumatic Pressure	Using Dead Weight Tester, Multimeter by Comparison Method as per DKD-R 6-1	20 bar (abs) to 70 bar (abs)	0.007 % rdg



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234	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Absolute Pressure Gauge, Absolute Pressure Transducer, Absolute Pressure Transmitter, Indicator of Pressure Switch - Pneumatic Pressure	Using Dead Weight Tester, Multimeter by Comparison Method as per DKD-R 6-1	30 mbar (abs) to 2000 mbar (abs)	0.016 % rdg
235	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Absolute Pressure Gauge, Absolute Pressure Transducer, Absolute Pressure Transmitter, Indicator of Pressure Switch, Pressure Transmitter, Pressure Transducer - Pneumatic Pressure	Using Precision Pressure Calibrator and Pressure Comparator / Hand Pump, Multimeter by Comparison Method as per DKD-R 6-1	30 mbar (abs) to 2000 mbar (abs)	0.02 % rdg
236	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transducer, Pressure Transmitter, Indicator of Pressure Switch - Hydraulic Pressure	Using Precision Pressure Calibrator, Pressure Comparator, Multimeter by Comparison Method as per DKD-R 6-1	100 bar (g) to 1000 bar (g)	0.017 % rdg



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237	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transducer, Pressure Transmitter, Indicator of Pressure Switch - Hydraulic Pressure	Using Dead Weight Tester, Multimeter by Comparison Method as per DKD-R 6-1	> 60 bar (g) to 1200 bar (g)	0.0083 % rdg
238	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transducer, Pressure Transmitter, Indicator of Pressure Switch - Hydraulic Pressure	Using Precision Pressure Calibrator, Pressure Comparator / Hand Pump, Multimeter by Comparison Method as per DKD-R 6-1	1 bar (g) to 250 bar (g)	0.044 % rdg
239	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transducer, Pressure Transmitter, Indicator of Pressure Switch - Hydraulic Pressure	Using Dead Weight Tester, Multimeter by Comparison Method as per DKD-R 6-1	6 bar (g) to 60 bar (g)	0.014 % rdg



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240	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transducer, Pressure Transmitter, Indicator of Pressure Switch - Pneumatic Pressure	Using Precision Pressure Calibrator, Pressure Comparator / Hand Pump, Multimeter by Comparison Method as per DKD-R 6-1	2 bar (g) to 20 bar (g)	0.017 % rdg
241	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transducer, Pressure Transmitter, Indicator of Pressure Switch - Pneumatic Pressure	Using Dead Weight Tester, Multimeter by Comparison Method as per DKD-R 6-1	30 mbar (g) to 2000 mbar (g)	0.017 % rdg
242	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transducer, Pressure Transmitter, Indicator of Pressure Switch - Pneumatic Pressure	Using Dead Weight Tester, Multimeter by Comparison Method as per DKD-R 6-1	0.14 bar (g) to 70 bar (g)	0.063 % rdg



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243	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transducer, Pressure Transmitter, Indicator of Pressure Switch - Pneumatic Pressure	Using Dead Weight Tester, Multimeter by Comparison Method as per DKD-R 6-1	0.5 bar (g) to 20 bar (g)	0.008 % rdg
244	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transducer, Pressure Transmitter, Indicator of Pressure Switch - Pneumatic Pressure	Using Precision Pressure Calibrator, Pressure Comparator / Hand Pump, Multimeter by Comparison Method as per DKD-R 6-1	30 mbar (g) to 2000 mbar (g)	0.017 % rdg
245	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Gauge, Vacuum Transducer, Vacuum Transmitter - Pneumatic Pressure	Using Dead Weight Tester, Multimeter by Comparison Method as per DKD-R 6-1	(-) 0.96 bar to (-) 0.11 bar	0.029 % rdg
246	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Gauge, Vacuum Transducer, Vacuum Transmitter, Indicator of Vacuum Switch - Pneumatic Pressure	Using Precision Pressure Calibrator, Pressure Comparator / Hand Pump, Multimeter by Comparison Method as per DKD-R 6-1	(-) 0.96 bar (g) to (-) 0.11 bar (g)	0.038 % rdg



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247	MECHANICAL-PRESSURE INDICATING DEVICES	Bourdon Tube Pressure Gauge, Electrical Pressure Gauge, Pressure Transmitter with Electrical Output, Differential Pressure Gauge - Pneumatic Pressure	Using Precision Pressure Calibrator, Pressure Comparator / Hand Pump, Multimeter by Comparison Method as per DKD-R 6-1	10 mbar to 100 mbar	0.1 % rdg
248	MECHANICAL-PRESSURE INDICATING DEVICES	Bourdon Tube Pressure Gauge, Electrical Pressure Gauge, Pressure Transmitter with Electrical Output, Differential Pressure Gauge - Pneumatic Pressure	Using Precision Pressure Calibrator, Pressure Comparator / Hand Pump, Multimeter by Comparison Method as per DKD-R 6-1	(-) 10 mbar (g) to 10 mbar (g)	0.4 % rdg
249	MECHANICAL-PRESSURE INDICATING DEVICES	Bourdon Tube Pressure Gauge, Electrical Pressure Gauge, Pressure Transmitter with Electrical Output, Differential Pressure Gauge - Pneumatic Pressure	Using Dead Weight Tester, Multimeter by Comparison Method as per DKD-R 6-1	0.2 mbar to 160 mbar	0.018 % rdg



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250	MECHANICAL-VOLUME	Micropipette	Using Semi Micro Balance of Range 11 g (Readability: 0.001 mg) and Distilled Water by Gravimetric Method as per ISO 8655-6: 2022	> 10 µl to 100 µl	0.3 µl
251	MECHANICAL-VOLUME	Micropipette	Using Semi Micro Balance of Range 11 g (Readability: 0.001 mg) and Distilled Water by Gravimetric Method as per ISO 8655-6: 2022	1 µl to 10 µl	0.1 µl
252	MECHANICAL-VOLUME	Micropipette	Using Precision Weighing Balance of Range 210 g (Readability: 0.01 mg) and Distilled Water by Gravimetric Method as per ISO 8655-6: 2022	100 µl to 1000 µl	1.5 µl



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253	MECHANICAL-VOLUME	Pipette, Burette, Volumetric Flask, Graduated Measuring Cylinder	Using Precision Weighing Balance of Range 2.5 kg (Readability: 0.1 mg) and Distilled Water by Gravimetric Method as per ISO 4787: 2021	> 100 ml to 2000 ml	0.2 ml
254	MECHANICAL-VOLUME	Pipette, Burette, Volumetric Flask, Graduated Measuring Cylinder	Using Precision Weighing Balance of Range 220 g (Readability: 0.01 mg) and Distilled Water by Gravimetric Method as per ISO 4787: 2021	1 ml to 100 ml	0.024 ml
255	MECHANICAL-VOLUME	Volume Can, Volume Tank	Using Precision Weighing Balance of Range 3000 kg (Readability: 0.001 kg) by Gravimetric Method	> 100 l to 250 l	14 ml
256	MECHANICAL-VOLUME	Volume can, Volume tank	Using Precision Weighing Balance of Range 64 kg (Readability: 0.01 g) by Gravimetric Method	1 l to 10 l	2 ml



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257	MECHANICAL-VOLUME	Volume Can, Volume Tank	Using Precision Weighing Balance of Range 3000 kg (Readability: 0.001 kg) by Gravimetric Method	10 l to 100 l	5 ml
258	MECHANICAL-VOLUME	Volumetric Flask, Graduated Measuring Cylinder	Using Precision Weighing Balance of Range 5 kg (Readability: 1 mg) and Distilled Water by Gravimetric Method as per ISO 4787: 2021	> 2000 ml to 4000 ml	0.3 ml
259	MECHANICAL-VOLUME	Volumetric Flask, Graduated Measuring Cylinder	Using Precision Weighing Balance of Range 64 kg (Readability: 0.01 g) and Distilled Water by Gravimetric Method as per ISO 4787: 2021	> 4000 ml to 5000 ml	0.5 ml
260	MECHANICAL-VOLUME	Volumetric Flask, Graduated Measuring Cylinder	Using Precision Weighing Balance of Range 64 kg (Readability: 0.01 g) by Weighing Method as per ISO 4787: 2021	5 l to 10 l	2 ml



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261	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 11 g	0.009 mg
262	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 2 g	0.004 mg
263	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 20 g	0.01 mg
264	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 5 g	0.005 mg
265	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 61 g	0.015 mg
266	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 220 g	0.05 mg
267	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.1 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 2.5 kg	0.0004 g



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268	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 1 g)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 600 kg	0.02 kg
269	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 1 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 5 kg	0.004 g
270	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 2 mg)	Using E1, F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 64 kg	0.05 g
271	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III and Coarser (Readability: 1 g)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 300 kg	1 g
272	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III (Readability: 0.001 kg)	Using F1, M1 Class Weights by Comparison Method as per OIML R 76-1	0 to 3000 kg	0.02 kg
273	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III (Readability: 0.05 kg)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 2000 kg	0.1 kg
274	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III (Readability: 2 kg)	Using M1 Class Weights by Comparison Method as per OIML R 76-1	0 to 20000 kg	1.9 kg



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275	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Micro Balance of Range 11 g (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	1 g	0.004 mg
276	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Micro Balance of Range 11 g (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	1 mg	0.002 mg
277	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Micro Balance of Range 11 g (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	10 g	0.01 mg



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278	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Micro Balance of Range 11 g (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	10 mg	0.002 mg
279	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Weighing Balance of Range 2.5 kg (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	2 kg	0.8 mg
280	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Micro Balance of Range 11 g (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	2 mg	0.002 mg



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281	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Semi Micro Balance of Range 220 g (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	20 g	0.02 mg
282	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Micro Balance of Range 11 g (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	20 mg	0.002 mg
283	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Semi Micro Balance of Range 220 g (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	200 g	0.08 mg



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284	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Weighing Balance of Range 5 kg (Readability: 1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	5 kg	2.2 mg
285	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Micro Balance of Range 11 g (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	5 mg	0.002 mg
286	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Weighing Balance of Range 2.5 kg (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	500 g	0.1 mg



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287	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Weighing Balance of Range 2.5 kg (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	1 kg	0.5 mg
288	MECHANICAL-WEIGHTS	Accuracy class E2 & Coarser	Using E1 Class Weight and Weighing Balance of Range 64 kg (Readability: 2 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	10 kg	5 mg
289	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Semi Micro Balance of Range 220 g (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	100 g	0.05 mg



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290	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Micro Balance of Range 11 g (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	100 mg	0.002 mg
291	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Micro Balance of Range 11 g (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	2 g	0.005 mg
292	MECHANICAL-WEIGHTS	Accuracy class E2 & Coarser	Using E1 Class Weight and Weighing Balance of Range 64 kg (Readability: 2 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	20 kg	10 mg



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293	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Micro Balance of Range 11 g (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	200 mg	0.003 mg
294	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Micro Balance of Range 11 g (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	5 g	0.005 mg
295	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Semi Micro Balance of Range 220 g (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	50 g	0.02 mg



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296	MECHANICAL-WEIGHTS	Accuracy class E2 & Coarser	Using E1 Class Weight and Weighing Balance of Range 64 kg (Readability: 2 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	50 kg	22 mg
297	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Micro Balance of Range 11 g (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	50 mg	0.002 mg
298	MECHANICAL-WEIGHTS	Accuracy Class E2 & Coarser	Using E1 Class Weight and Micro Balance of Range 11 g (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	500 mg	0.003 mg



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299	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using F1 Class Weight and Weighing Balance of Range 150 kg (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1	100 kg	150 mg
300	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using F1 Class Weight and Weighing Balance of Range 600 kg (Readability: 1 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1	200 kg	830 mg
301	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using F1 Class Weight and Weighing Balance of Range 600 kg (Readability: 1 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1	500 kg	903 mg



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302	THERMAL-SPECIFIC HEAT & HUMIDITY	Hygrometer, RH Indicator with Sensor, RH Transmitter with or without Indicator @ 25°C	Using Precision Portable Hygrometer, Humidity & Temperature Generator, 6½ DMM by Comparison Method	10 %RH to 95 %RH	1.3 %RH
303	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer, Temperature - Humidity Transmitter with or without Indicator @ 50 %RH	Using Precision Portable Hygrometer, Humidity & Temperature Generator, 6½ DMM by Comparison Method	5 °C to 60 °C	0.4 °C
304	THERMAL-TEMPERATURE	Indicator with Sensor of Furnace, Dry Block Calibrator - Single Position	Using S Type Thermocouple with Digital Temperature Indicator by Comparison Method	660 °C to 1200 °C	1.6 °C
305	THERMAL-TEMPERATURE	Indicator with Sensor of Oven, Furnace, Dry Block Calibrator, Bath, Chamber - Single Position	Using RTD with Digital Temperature Indicator by Comparison Method	(-) 95 °C to 660 °C	0.2 °C



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306	THERMAL-TEMPERATURE	Liquid In Glass Thermometer	Using SPRT with Digital Temperature Indicator and Oil Baths by Comparison Method	(-) 25 °C to 140 °C	0.045 °C
307	THERMAL-TEMPERATURE	Liquid In Glass Thermometer	Using SPRT with Digital Temperature Indicator and Oil Bath by Comparison Method	> 140 °C to 288 °C	0.045 °C
308	THERMAL-TEMPERATURE	RTD, Temperature Indicator with Sensor / Transmitter with Sensor	Using SPRT with Digital Temperature Indicator, Dry Block Calibrator, 6½ DMM by Comparison Method	288 °C to 660 °C	0.08 °C
309	THERMAL-TEMPERATURE	RTD, Thermistor with Indicator, Temperature Indicator / Transmitter with Sensor, Temperature Gauge	Using SPRT with Digital Temperature Indicator, Dry Block Calibrator, 6½ DMM by Comparison Method	(-) 95 °C to (-) 25 °C	0.043 °C
310	THERMAL-TEMPERATURE	RTD, Thermocouple, Thermistor with Indicator, Temperature Indicator / Transmitter with Sensor, Temperature Gauge	Using SPRT with Digital Temperature Indicator, 6½ DMM, Oil Bath by Comparison Method	(-) 25 °C to 288 °C	0.043



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311	THERMAL-TEMPERATURE	SPRT, HTPRT, PRT, Temperature Indicator with Sensor - Fp of In Cell	Using SPRT, Digital Temperature Indicator, Realization Furnace by Fixed Point Method	156.5985 °C	5.56 m°C
312	THERMAL-TEMPERATURE	SPRT, HTPRT, PRT, Temperature Indicator with Sensor - Fp of Sn Cell	Using SPRT, Digital Temperature Indicator, Realization Furnace by Fixed Point Method	231.928 °C	5.23 m°C
313	THERMAL-TEMPERATURE	SPRT, HTPRT, PRT, Temperature Indicator with Sensor - Fp of Zn Cell	Using SPRT, Digital Temperature Indicator, Realization Furnace by Fixed Point Method	419.527 °C	6.6 m°C
314	THERMAL-TEMPERATURE	SPRT, HTPRT, PRT, Temperature Indicator with Sensor - Mp of Ga Cell	Using SPRT, Digital Temperature Indicator, Realization Apparatus by Fixed Point Method	29.7646 °C	5.19 m°C
315	THERMAL-TEMPERATURE	SPRT, HTPRT, PRT, Temperature Indicator with Sensor - Tp of Water Cell	Using SPRT, Digital Temperature Indicator, Realization Apparatus by Fixed Point Method	0.01 °C	4.9 m°C



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316	THERMAL-TEMPERATURE	SPRT, PRT, Temperature Indicator with Sensor	Using SPRT with Digital Temperature Indicator & Liquid Nitrogen Apparatus by Comparison Method	(-) 196 °C	0.085 °C
317	THERMAL-TEMPERATURE	SPRT, PRT, Temperature Indicator with Sensor - Tp of Hg Cell	Using SPRT, Digital Temperature Indicator, Realization Apparatus by Fixed Point Method	(-) 38.8344 °C	6.75 m°C
318	THERMAL-TEMPERATURE	Thermocouple, Temperature Indicator / Transmitter with Sensor, Temperature Gauge	Using SPRT with Digital Temperature Indicator, Dry Block Calibrator, 6½ DMM by Comparison Method	(-) 95 °C to 140 °C	0.12 °C
319	THERMAL-TEMPERATURE	Thermocouple, Temperature Indicator / Transmitter with sensor, Temperature Gauge	Using SPRT with Digital Temperature Indicator, Dry Block Calibrator, 6½ DMM by Comparison Method	140 °C to 300 °C	0.35 °C
320	THERMAL-TEMPERATURE	Thermocouple, Temperature Indicator with Sensor	Using S Type Thermocouple with Indicator, High Temperature Calibration System, 6½ DMM by Comparison Method	660 °C to 1200 °C	1.6 °C



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321	THERMAL-TEMPERATURE	Thermocouple, Temperature Indicator with Sensor / Transmitter with Sensor	Using SPRT with Digital Temperature Indicator, Dry Block Calibrator, 6½ DMM by Comparison Method	300 °C to 660 °C	0.35 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1Ø, AC Power @ (50 Hz, UPF, 60 V to 240 V, 0.5 A to 20 A)	Using Digital Power Meter by Direct Method	30 W to 4.8 kW	0.81 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	0.1 A to 1 A	0.85 % to 0.2 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 5 kHz	Using 6½ Digit Multimeter by Direct Method	1 A to 3 A	0.2 % to 0.35 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	10 mV to 1 V	0.55 % to 0.12 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	100 V to 750 V	0.12 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 6½ Digit Multimeter by Direct Method	1 V to 100 V	0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multi Product Calibrator by Direct Method	1 A to 20 A	0.85 % to 3.5 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multi Product Calibrator by Direct Method	20 mA to 1 A	0.4 % to 0.85 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.1 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 A to 20 A	0.1 % to 0.17 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	190 µA to 1 A	0.25 % to 0.1 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.58 % to 0.35 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	0.71 % to 0.102 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 V to 1000 V	0.031 % to 0.04 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.102 % to 0.019 %



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16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.019 % to 0.031 %
17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	0.1 mA to 10 mA	2.37 % to 0.08 %
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 mA to 100 mA	0.08 % to 0.06 %
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.06 % to 0.16 %
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	0.1 mV to 1 mV	4.2 % to 0.44 %
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	0.44 % to 0.01 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	0.007 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.01 % to 0.007 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.015 % to 0.048 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 100 ohm	0.48 % to 0.016 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.048 % to 1 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	100 ohm to 1 Mohm	0.016 % to 0.015 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	1 A to 20 A	0.028 % to 0.12 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	190 μ A to 1 A	0.05 % to 0.028 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.31 % to 0.32 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	0.3 mV to 100 mV	0.8 % to 0.007 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	100 mV to 1000 V	0.007 % to 0.006 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multiproduct Calibrator by Direct Method	100 Mohm to 300 Mohm	0.075 % to 0.55 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multiproduct Calibrator by Direct Method	10 Mohm to 100 Mohm	0.02 % to 0.075 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire / 2 Wire	Using Multiproduct Calibrator by Direct Method	1 ohm to 10 Mohm	0.12 % to 0.02 %
36	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude AC Voltage (Sine Wave) @ 50 ohm Load and 1 kHz	Using Oscilloscope Calibrator by Direct Method	100 mV to 4.8 V	1.7 %
37	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude AC Voltage (Square Wave) @ 1 Mohm Load and 1 kHz	Using Oscilloscope Calibrator by Direct Method	10 mV to 60 V	0.54 % to 0.17 %
38	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude DC Voltage @ 1 Mohm Load	Using Oscilloscope Calibrator by Direct Method	10 mV to 100 V	0.38 % to 0.08 %
39	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth / Flatness (Relative to 50 kHz)	Using Oscilloscope Calibrator by Direct Method	50 kHz to 600 MHz	4.45 %



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40	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Marker	Using Oscilloscope Calibrator by Direct Method	10 ns to 10 ms	0.14 % to 0.058 %
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Multiproduct Calibrator by Direct Method	600 °C to 1800 °C	0.53 °C
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple C Type	Using Multiproduct Calibrator by Direct Method	1 °C to 1000 °C	0.39 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E Type	Using Multiproduct Calibrator by Direct Method	(-) 100 °C to 1000 °C	0.25 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.32 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.45 °C



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46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.43 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Multiproduct Calibrator by Direct Method	100 °C to 1760 °C	0.66 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Multiproduct Calibrator by Direct Method	100 °C to 1760 °C	0.57 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Multiproduct Calibrator by Direct Method	(-) 150 °C to 400 °C	0.32 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 800 °C	0.27 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 1000)	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 630 °C	0.27 °C



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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Multiproduct Calibrator by Direct Method	600 °C to 1800 °C	0.51 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple C Type	Using Multiproduct Calibrator by Direct Method	1 °C to 1000 °C	0.37 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multiproduct Calibrator by Direct Method	(-) 100 °C to 1000 °C	0.26 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multiproduct Calibrator by Direct Method	(-) 210 °C to 1200 °C	0.31 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.47 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.43 °C



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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multiproduct Calibrator by Direct Method	100 °C to 1750 °C	0.66 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multiproduct Calibrator by Direct Method	100 °C to 1760 °C	0.54 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multiproduct Calibrator by Direct Method	(-) 150 °C to 400 °C	0.28 °C
61	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Universal Counter by Direct Method	1 Hz to 225 MHz	0.1 % to 0.00028 %
62	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Universal Counter by Direct Method	1 s to 5400 s	5 µs to 15.91 ms
63	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Function Generator by Direct Method	1 Hz to 9 kHz	1 % to 0.0023 %



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64	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using RF Signal Generator by Direct Method	9 kHz to 200 MHz	0.0023 % to 0.0003 %
65	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow Rate (Water)	Using Coriolis Mass Flow Meter by Comparison Method as per ISO 10790: 2015	15 t/h to 150 t/h	0.12 % rdg
66	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Air) @ Ambient Pressure (Up to 20 bar)	Using Thermal Mass Flow Meters by Comparison Method as per ISO 14511	0.00075 l/min to 650 l/min	1 %
67	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Liquid)	Using Coriolis Mass Flow Meter by Comparison Method as per ISO 10790: 2015	15 m ³ /h to 150 m ³ /h	0.15 % rdg
68	MECHANICAL-ACCELERATION AND SPEED	Accelerometer, Vibration Sensor, Vibration Meter, Vibration Analyzer - Amplitude @ 5 Hz to 10000 Hz	Using Portable Accelerometer Calibration System by Back to Back Calibration Method as per ISO 16063-21	0.1 g (pk) to 10 g (pk)	2.64 %



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69	MECHANICAL-ACCELERATION AND SPEED	Electro Dynamic Vibration Testing System, Mechanical Shaker, Vibration Shaker - Acceleration @ (2 Hz to 2000 Hz)	Using Reference Accelerometer, Vibration Analyzer and Multimeter by Back to Back Calibration Method as per JJG 948 and JJG 1000	0.1 g (pk) to 40 g (pk)	3.1 %
70	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Mode	Using Function Generator, Light Source by Comparison Method	10000 RPM to 50000 RPM	1.42 RPM
71	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Mode	Using Function Generator and Light Source by Comparison Method	50000 RPM to 100000 RPM	2.48 RPM
72	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Mode	Using Function Generator and Light Source by Comparison Method	60 RPM to 10000 RPM	0.66 RPM
73	MECHANICAL-ACCELERATION AND SPEED	Vibration Calibrator, Vibration Shaker (Acceleration, Velocity and Displacement Mode) - Amplitude @ 5 Hz to 10000 Hz	Using Reference Accelerometer and Multimeter by Back to Back Calibration Method as per ISO 16063-21	0.1 g (pk) to 30 g (pk)	2.5 %



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74	MECHANICAL-ACOUSTICS	Qualification of Anechoic and Hemi Anechoic Chamber	Using Reference Sound Source and Noise Analyzer as per ISO 3745	90 dBA to 92 dBA	0.45 dB
75	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angle (L.C.: 1 minute of arc)	Using Angle Gauge Blocks by Comparison Method	0 ° to 360 °	1 minute of arc
76	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear (L.C.: 1 μ m)	Using Glass Scale by Comparison Method	0 to 50 mm	2 μ m
77	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Glass Scale and Vernier Caliper by Comparison Method	2 X to 50 X	0.05 %
78	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Absolute Pressure Gauge, Absolute Pressure Transducer, Absolute Pressure Transmitter, Indicator of Pressure Switch - Pneumatic Pressure	Using Precision Pressure Calibrator, Pressure Comparator / Hand Pump, Multimeter by Comparison Method as per DKD-R 6-1	2 bar (abs) to 20 bar (abs)	0.02 % rdg



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79	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Absolute Pressure Gauge, Absolute Pressure Transducer, Absolute Pressure Transmitter, Indicator of Pressure Switch, Pressure Transmitter, Pressure Transducer - Pneumatic Pressure	Using Precision Pressure Calibrator and Pressure Comparator / Hand Pump, Multimeter by Comparison Method as per DKD-R 6-1	30 mbar (abs) to 2000 mbar (abs)	0.02 % rdg
80	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transducer, Pressure Transmitter, Indicator of Pressure Switch - Hydraulic Pressure	Using Precision Pressure Calibrator, Pressure Comparator, Multimeter by Comparison Method as per DKD-R 6-1	100 bar (g) to 1000 bar (g)	0.017 % rdg
81	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transducer, Pressure Transmitter, Indicator of Pressure Switch - Hydraulic Pressure	Using Precision Pressure Calibrator, Pressure Comparator / Hand Pump, Multimeter by Comparison Method as per DKD-R 6-1	1 bar (g) to 250 bar (g)	0.044 % rdg



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82	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge, Pressure Transducer, Pressure Transmitter, Indicator of Pressure Switch - Pneumatic Pressure	Using Precision Pressure Calibrator, Pressure Comparator / Hand Pump, Multimeter by Comparison Method as per DKD-R 6-1	2 bar (g) to 20 bar (g)	0.017 % rdg
83	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Gauge, Vacuum Transducer, Vacuum Transmitter, Indicator of Vacuum Switch - Pneumatic Pressure	Using Precision Pressure Calibrator, Pressure Comparator / Hand Pump, Multimeter by Comparison Method as per DKD-R 6-1	(-) 0.96 bar (g) to (-) 0.11 bar (g)	0.038 % rdg
84	MECHANICAL-PRESSURE INDICATING DEVICES	Bourdon Tube Pressure Gauge, Electrical Pressure Gauge, Pressure Transmitter with Electrical Output, Differential Pressure Gauge - Pneumatic Pressure	Using Precision Pressure Calibrator, Pressure Comparator / Hand Pump, Multimeter by Comparison Method as per DKD-R 6-1	10 mbar to 100 mbar	0.1 % rdg



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85	MECHANICAL-PRESSURE INDICATING DEVICES	Bourdon Tube Pressure Gauge, Electrical Pressure Gauge, Pressure Transmitter with Electrical Output, Differential Pressure Gauge - Pneumatic Pressure	Using Precision Pressure Calibrator, Pressure Comparator / Hand Pump, Multimeter by Comparison Method as per DKD-R 6-1	(-) 10 mbar (g) to 10 mbar (g)	0.4 % rdg
86	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 11 g	0.009 mg
87	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 2 g	0.004 mg
88	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 20 g	0.01 mg
89	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 5 g	0.005 mg
90	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 61 g	0.015 mg



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91	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 220 g	0.05 mg
92	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 0.1 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 2.5 kg	0.0004 g
93	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 1 g)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 600 kg	0.02 kg
94	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 1 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 5 kg	0.004 g
95	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class I and Coarser (Readability: 2 mg)	Using E1, F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 64 kg	0.05 g
96	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III and Coarser (Readability: 1 g)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 300 kg	1 g
97	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III (Readability: 0.001 kg)	Using F1, M1 Class Weights by Comparison Method as per OIML R 76-1	0 to 3000 kg	0.02 kg



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98	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III (Readability: 0.05 kg)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 2000 kg	0.1 kg
99	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III (Readability: 2 kg)	Using M1 Class Weights by Comparison Method as per OIML R 76-1	0 to 20000 kg	1.9 kg
100	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Indicator with Sensor of Chamber @ 25°C & 60°C - Single Position	Using Thermo Hygrometer by Comparison Method	10 %RH to 95 %RH	1.5 %RH
101	THERMAL-TEMPERATURE	Freezer, Deep Freezer, Chamber, Oven, Auto Clave & Incubator (For Non Medical Purpose Only) - Multi Position (Minimum 9 Sensors)	Using PRTs with Data Logger by Comparison Method	(-) 40 °C to 180 °C	0.6 °C
102	THERMAL-TEMPERATURE	Indicator with Sensor of Deep Freezer, Refrigerator, Incubator, Liquid Bath, Oven, Dry Block (For Non Medical Purpose Only) - Single Position	Using Digital Temperature Indicator with RTD by Comparison Method	(-) 40 °C to 50 °C	0.2 °C



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103	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Block, Furnace - Single Position	Using S Type Thermocouple with Digital Temperature Indicator by Comparison Method	600 °C to 1200 °C	1.6 °C
104	THERMAL-TEMPERATURE	Indicator with Sensor of Incubator, Liquid Bath, Oven, Auto Clave, Dry Block, Furnace (For Non Medical Purpose Only) - Single Position	Using Digital Temperature Indicator with RTD by Comparison Method	50 °C to 300 °C	0.2 °C
105	THERMAL-TEMPERATURE	Indicator with Sensor of Oven, Dry Block, Furnace (For Non Medical Purpose Only)	Using Digital Temperature Indicator with RTD by Comparison Method	300 °C to 600 °C	0.2 °C
106	THERMAL-TEMPERATURE	RTD, Temperature Indicator / Transmitter with Sensor, Thermistor with Indicator	Using Digital Temperature Indicator with RTD, Dry Block Calibrator, 6½ DMM by Comparison Method	140 °C to 600 °C	0.11 °C
107	THERMAL-TEMPERATURE	RTD, Thermocouple, Temperature Indicator / Transmitter with Sensor, Thermistor with Indicator	Using RTD & Digital Temperature Indicator, Dry Block Calibrator, 6½ DMM by Comparison Method	(-) 40 °C to 140 °C	0.06 °C



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108	THERMAL-TEMPERATURE	Thermocouple, Temperature Indicator / Transmitter with Sensor	Using S Type Thermocouple with Digital Temperature Indicator, 6½ DMM, Dry Block Calibrator by Comparison Method	600 °C to 660 °C	1.3 °C
109	THERMAL-TEMPERATURE	Thermocouple, Thermistor with Indicator, Temperature Indicator /Transmitter with Sensor	Using RTD & Digital Temperature Indicator, 6½ DMM, Dry Block Calibrator by Comparison Method	140 °C to 600 °C	1.3 °C

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