National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TRUE VALUE CALIBRATION SERVICES PRIVATE LIMITED, NO. 92, S R B NAGAR MAIN ROAD, KOLATHUR, CHENNAI, ARIYALUR, TAMIL NADU, INDIA

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Temperature Calibrator by Direct Method	600 °C to 800 °C	1.89 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Temperature Calibrator by Direct Method	800 °C to 1800 °C	1.89 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 600 °C	0.95 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Temperature Calibrator by Direct Method	600 °C to 1000 °C	0.75 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 800 °C	0.95 °C
6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Temperature Calibrator by Direct Method	800 °C to 1200 °C	1 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 400 °C	1 °C

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8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Temperature Calibrator by Direct Method	400 °C to 1372 °C	1.4 °C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 900 °C	1.33 °C
10	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Temperature Calibrator by Direct Method	900 °C to 1300 °C	1.13 °C
11	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Temperature Calibrator by Direct Method	0 °C to 100 °C	1.83 °C
12	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Temperature Calibrator by Direct Method	100 °C to 1767 °C	1.67 °C
13	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Temperature Calibrator by Direct Method	(-) 200 °C to 400 °C	1.09 °C
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Temperature Calibrator by Direct Method	400 °C to 800 °C	1.12 °C

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15	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Temperature Calibrator by Direct Method	0 °C to 100 °C	1.83 °C
16	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Temperature Calibrator by Direct Method	100 °C to 1767 °C	1.83 °C
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 250 °C to 400 °C	0.91 °C
18	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Digital Time Calibrator by Comparison Method	1 s to 900 s	0.072 s to 1.3 s
19	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Digital Time Calibrator by Comparison Method	3600 s to 86400 s	1.59 s to 49.9 s
20	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Digital Time Calibrator by Comparison Method	900 s to 3600 s	1.3 s to 1.59 s
21	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Meter - Contact Type	Using Digital Tachometer & Tachometer Generator by Comparison Method	10 rpm to 1000 rpm	1.08 rpm

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22	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Meter - Contact Type	Using Digital Tachometer & Tachometer Generator by Comparison Method	1000 rpm to 8000 rpm	2.2 rpm
23	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Meter - Non Contact Type	Using Digital Tachometer & Tachometer Generator by Comparison Method	> 1000 rpm to 10000 rpm	4.18 rpm
24	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Meter - Non Contact Type	Using Digital Tachometer & Tachometer Generator by Comparison Method	> 10000 rpm to 60000 rpm	6.81 rpm
25	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Meter - Non Contact Type	Using Digital Tachometer & Tachometer Generator by Comparison Method	> 60000 rpm to 90000 rpm	7.81 rpm
26	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Meter - Non Contact Type	Using Tachometer Generator & Digital Tachometer by Comparison Method	10 rpm to 1000 rpm	0.95 rpm
27	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer, Brix Hydrometer, Baume Hydrometer, Twaddle Hydrometer, Specific Gravity Hydrometer, Lactometer, Alcoholmeter	Using Electronic Weighing Balance (Readability: 0.01 mg /0.1 mg) and Distilled Water by Hydrostatic Weighing Method as per NIST 250 - 78	0.65 g/ml to 2.0 g/ml	0.0007 g/ml
28	MECHANICAL-DUROMETER	Shore Hardness Tester / Durometer - Spring Force Calibration (Shore A & D)	Using Loadcell with Indicator as per ASTM D 2240 & ISO 48-9	0 to 100 Shore	1.3 Shore

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29	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Mobile Force Gauge (Push / Pull Mode)	Using Newton Weights and Loading Hanger as per VDI/VDE 2624	1 N to 2000 N	0.15 %
30	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure Gauge (Analog / Dial / Digital), Pressure Indicator, Pressure Transducer, Pressure Transmitter	Using Digital Pressure Calibrator, Loop Calibrator and Comparator Stand by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.69 bar
31	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure - Vacuum Gauge, Vacuum Calibrator, Vacuum Transducer, Vacuum Switch, Vacuum Indicator, Manometer	Using Digital Pressure Calibrator, Loop Calibrator and Pneumatic Pressure Pump by Comparison Method as per DKD-R 6-1	(-) 0.9 bar to 0	0.008 bar
32	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure - Vacuum Gauge, Vacuum Indicator, Vacuum Transducer, Magnehelic Gauge, Low Pressure Calibrator, Differential Pressure Gauge	Using Digital Manometer, Loop Calibrator and Low Pressure Pump by Comparison Method as per DKD-R 6-1	(-) 20 mbar to 0	0.024 mbar
33	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure - Vacuum Gauge, Vacuum Indicator, Vacuum Transducer, Magnehelic Gauge, Low Pressure Calibrator, Differential Pressure Gauge	Using Digital Manometer, Loop Calibrator and Low Pressure Pump by Comparison Method as per DKD-R 6-1	(-) 490.33 mbar to 0	0.58 mbar

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34	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Low Pressure Gauge, Low Pressure Calibrator, Differential Pressure Gauge, Megnehelic Gauge	Using Digital Manometer and Low Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 20 mbar	0.024 mbar
35	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Low Pressure Gauge, Low Pressure Calibrator, Differential Pressure Gauge, Megnehelic Gauge	Using Digital Manometer and Low Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 490.33 mbar	0.58 mbar
36	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Pressure Gauge, Pressure Calibrator, Pressure Transducer, Pressure Transmitter, Pressure Switch, Pressure Indicator, Manometer, Pressure Module	Using Loop Calibrator, Digital Pressure calibrator and Pnemuatic Hand Pump, For Transmitter & Transducer (DMM) by Comparison Method as per DKD-R6-1	0 to 40 bar	0.04 bar
37	MECHANICAL-VOLUME	Burette, Measuring Cylinder, Beaker, Conical Flask, Volumetric Flask	Using Precision Balance (Readability: 0.01 mg / 0.1 mg) by Gravimetric Method as per ISO 4787 : 2021	> 1000 ml to 5000 ml	1.31 ml

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38	MECHANICAL-VOLUME	Burette, Measuring Cylinder, Beaker, Conical Flask, Volumetric Flask	Using Precision Balance (Readability: 0.01 mg / 0.1 mg) by Gravimetric method as per ISO 4787 : 2021	> 100 ml to 1000 ml	51 µl
39	MECHANICAL-VOLUME	Butyrometer	Using Electronic Weighing Balance (Readability: 0.01 mg) by Gravimetric Method as per IS1223 : 2021	0 to 10 %	0.06 %
40	MECHANICAL-VOLUME	Butyrometer	Using Electronic Weighing Balance (Readability: 0.01 mg) by Gravimetric Method as per IS1223 : 2021	0 to 100 %	0.58 %
41	MECHANICAL-VOLUME	Measuring Cylinder	Using Precision Balance (Readability: 1 mg) by Gravimetric Method as per ISO 4787 : 2021	5000 ml to 20000 ml	5.47 ml
42	MECHANICAL-VOLUME	Micropipette	Using Precision Balance (Readability 0.001 mg / 0.01 mg) by Gravimetric Method as per ISO 8655-6 : 2022	0.5 µl to 10 µl	0.0063 µl
43	MECHANICAL-VOLUME	Micropipette	Using Precision Balance (Readability: 0.001 mg / 0.01 mg) by Gravimetric Method as per ISO 8655-6 : 2022	1001 µl to 5000 µl	0.1 µl

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44	MECHANICAL-VOLUME	Micropipette	Using Precision Balance (Readability: 0.001 mg / 0.01 mg) by Gravimetric Method as per ISO 8655-6 : 2022	11 µl to 100 µl	0.038 µl
45	MECHANICAL-VOLUME	Micropipette	Using Precision Balance (Readability: 0.001 mg / 0.01 mg) by Gravimetric Method as per ISO 8655-6 : 2022	201 µl to 500 µl	0.047 µl
46	MECHANICAL-VOLUME	Micropipette	Using Precision Balance (Readability: 0.001 mg / 0.01 mg) by Gravimetric Method as per ISO 8655-6 : 2022	5001 µl to 10000 µl	0.39 µl
47	MECHANICAL-VOLUME	Micropipette	Using Precision Balance (Readability: 0.001 mg / 0.01 mg) by Gravimetric Method as per ISO 8655-6 : 2022	501 µl to 1000 µl	0.062 µl
48	MECHANICAL-VOLUME	Micropipette	Using Precision Balance (Readability: 0.001 mg / 0.01 mg) by Gravimetric Method as per ISO 8655-6 : 2022	101 µl to 200 µl	0.042 µl

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49	MECHANICAL-VOLUME	Pipette	Using Precision Balance (Readability: 0.01 mg / 0.1 mg) by Gravimetric Method as per ISO 4787 : 2021	0.1 ml to 1 ml	0.25 µl
50	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Beaker, Conical Flask, Volumetric Flask	Using Precision Balance (Readability: 0.01 mg / 0.1 mg) by Gravimetric Method as per ISO 4787 : 2021	> 1 ml to 10 ml	0.82 µl
51	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Beaker, Conical Flask, Volumetric Flask	Using Precision Balance (Readability: 0.01 mg / 0.1 mg) by Gravimetric Method as per ISO 4787 : 2021	> 10 ml to 25 ml	1.31 µl
52	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Beakers, Conical Flask, Volumetric Flask	Using Precision Balance (Readability: 0.01 mg / 0.1 mg) by Gravimetric Method as per ISO 4787 : 2021	> 25 ml to 100 ml	4.63 µl
53	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.01 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 22 g	0.02 mg
54	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 1 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 40 kg	7 mg

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55	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.001 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 1 g	0.003 mg
56	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.001 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 2 g	0.004 mg
57	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.001 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 5 g	0.004 mg
58	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.01 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 220 g	0.028 mg
59	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - II, Readability: 0.1 g & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 64 kg	0.5 g
60	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Mass Comparator, Accuracy Class - I, Readability: 0.1 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 5100 g	0.6 mg
61	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	1 g	0.003 mg

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62	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	1 kg	0.15 mg
63	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	1 mg	0.001 mg
64	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	10 g	0.006 mg
65	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	10 kg	1.3 mg

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66	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	10 mg	0.001 mg
67	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	100 g	0.016 mg
68	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	100 mg	0.001 mg
69	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	2 g	0.0032 mg

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70	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	2 kg	0.3 mg
71	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	2 mg	0.001 mg
72	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	20 g	0.0071 mg
73	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	20 kg	3.2 mg

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74	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	20 mg	0.001 mg
75	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	200 g	0.027 mg
76	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	200 mg	0.001 mg
77	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	5 g	0.005 mg

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78	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	5 kg	0.6 mg
79	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	5 mg	0.001 mg
80	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	50 g	0.01 mg
81	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	50 mg	0.001 mg

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82	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	500 g	0.081 mg
83	MECHANICAL-WEIGHTS	Accuracy Class E1 & Coarser	Using E1 Class Weights and Micro Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	500 mg	0.0013 mg
84	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weights and Micro Balance (Readability: 100 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1	50 kg	80 mg
85	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital Thermo - Hygrometer, Temperature / Humidity Transmitter	Using Digital Temperature and Humidity Sensor with Indicator, Temperature / Humidity Chamber and Loop Calibrator by Comparison Method	30 %rh to 90 %rh @ 25 °C	2.16 % rh

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86	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital Thermo - Hygrometer, Temperature / Humidity Transmitter	Using Digital Temperature and Humidity Sensor with Indicator, Temperature / Humidity Chamber and Loop Calibrator by Comparison Method	5 °C to 50 °C @ 50 %rh	1.33 °C
87	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature / Humidity Indicator with Sensor of Temperature & Humidity Chamber - Single Position Calibration	Using Digital Temperature / Humidity Indicator with Sensor by Comparison Method	5 °C to 50 °C @ 50 %rh	0.88 °C
88	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath - Single Position Calibration	Using S Type Thermocouple with Digital Thermometer by Comparison Method	250 °C to 650 °C	1.52 °C
89	THERMAL-TEMPERATURE	Digital Thermometer, Temperature Gauge, Temperature Transmitter, Thermocouple with Indicator	Using S Type Thermocouple with Digital Thermometer or Multi Function Calibrator and Dry Block Calibrator by Comparison Method	250 °C to 650 °C	1.56 °C
90	THERMAL-TEMPERATURE	Indicator with sensor of Temperature Bath - Single Position Calibration	Using RTD Sensor with Digital Thermometer by Comparison Method	30 °C to 250 °C	0.52 °C
91	THERMAL-TEMPERATURE	Liquid In Glass Thermometer	Using RTD Sensor with Digital Thermometer and Liquid Bath by Comparison Method	(-) 25 °C to 30 °C	0.62 °C

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92	THERMAL-TEMPERATURE	Liquid In Glass Thermometer	Using RTD Sensor with Digital Thermometer and Liquid Bath by Comparison Method	(-) 50 °C to 30 °C	0.69 °C
93	THERMAL-TEMPERATURE	Liquid In Glass Thermometer	Using RTD Sensor with Digital Thermometer and Oil Bath by Comparison Method	30 °C to 250 °C	0.62 °C
94	THERMAL-TEMPERATURE	RTD / Thermocouple with Indicator, Digital Thermometer, Temperature Gauge, Temperature Indicator / Controller with Sensor, Temperature Transmitter	Using RTD Sensor with Digital Temperature Indicator, Multi Function Calibrator and Liquid Bath by Comparison Method	(-) 80 °C to 30 °C	0.35 °C
95	THERMAL-TEMPERATURE	RTD / Thermocouple with Indicator, Digital Thermometer, Temperature Gauge, Temperature Indicator / Controller with Sensor, Temperature Transmitter	Using RTD Sensor with Digital Temperature Indicator with Sensor, Multi Function Calibrator and Oil Bath by Comparison Method	30 °C to 250 °C	0.35 °C
96	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Dry Bath Calibrator - Single Position Calibration	Using RTD Sensor with Digital Thermometer by Comparison Method	(-) 80 °C to 30 °C	0.4 °C

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Site Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Temperature Calibrator by Direct Method	600 °C to 800 °C	1.89 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Temperature Calibrator by Direct Method	800 °C to 1800 °C	1.89 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 600 °C	0.95 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Temperature Calibrator by Direct Method	600 °C to 1000 °C	0.75 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 800 °C	0.95 °C
6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Temperature Calibrator by Direct Method	800 °C to 1200 °C	1 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 400 °C	1 °C

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8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Temperature Calibrator by Direct Method	400 °C to 1372 °C	1.4 °C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 900 °C	1.33 °C
10	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Temperature Calibrator by Direct Method	900 °C to 1300 °C	1.13 °C
11	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Temperature Calibrator by Direct Method	0 °C to 100 °C	1.83 °C
12	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Temperature Calibrator by Direct Method	100 °C to 1767 °C	1.67 °C
13	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Temperature Calibrator by Direct Method	(-) 200 °C to 400 °C	1.09 °C
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Temperature Calibrator by Direct Method	400 °C to 800 °C	1.12 °C

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15	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Temperature Calibrator by Direct Method	0 °C to 100 °C	1.83 °C
16	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Temperature Calibrator by Direct Method	100 °C to 1767 °C	1.83 °C
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 250 °C to 400 °C	0.91 °C
18	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Digital Time Calibrator by Comparison Method	1 s to 900 s	0.072 s to 1.3 s
19	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Digital Time Calibrator by Comparison Method	3600 s to 86400 s	2.16 s to 49.97 s
20	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Digital Time Calibrator by Comparison Method	900 s to 3600 s	1.3 s to 2.16 s
21	MECHANICAL-ACCELERATION AND SPEED	Centrifuge	Using Digital Tachometer by Direct Method	> 1000 rpm to 10000 rpm	4.18 rpm
22	MECHANICAL-ACCELERATION AND SPEED	Centrifuge	Using Digital Tachometer by Direct Method	> 10000 rpm to 20000 rpm	6.81 rpm

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23	MECHANICAL-ACCELERATION AND SPEED	Centrifuge	Using Digital Tachometer by Direct Method	10 rpm to 1000 rpm	3.1 rpm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer	Using Digital Plunger Dial Gauge by Comparison Method as per IS 18272 / ISO 9513 / ASTM E 83 - 25	0 to 12.5 mm	0.013 mm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Material Testing Machine (UTM / CTM / TTM) - Speed	Using Digital Height Gauge and Timer by Comparison Method as per ASTM E 2658 - 23	0 to 600 mm/min	0.055 mm/min
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Material Testing Machine (UTM / CTM / TTM) - Displacement Measurement	Using Digital Height Gauge by Comparison Method as per ISO 9513 / ASTM E 2309 - 20	0 to 600 mm	0.18 mm
27	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure Gauge (Analog / Dial / Digital), Pressure Indicator, Pressure Transducer, Pressure Transmitter	Using Digital Pressure Calibrator, Loop Calibrator and Comparator Stand by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.69 bar
28	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure - Vacuum Gauge, Vacuum Calibrator, Vacuum Transducer, Vacuum Switch, Vacuum Indicator, Manometer	Using Digital Pressure Calibrator, Loop Calibrator and Pneumatic Pressure Pump by Comparison Method as per DKD-R 6-1	(-) 0.9 bar to 0	0.008 bar

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29	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure - Vacuum Gauge, Vacuum Indicator, Vacuum Transducer, Magnehelic Gauge, Low Pressure Calibrator, Differential Pressure Gauge	Using Digital Manometer, Loop Calibrator and Low Pressure Pump by Comparison Method as per DKD-R 6-1	(-) 20 mbar to 0	0.024 mbar
30	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure - Vacuum Gauge, Vacuum Indicator, Vacuum Transducer, Magnehelic Gauge, Low Pressure Calibrator, Differential Pressure Gauge	Using Digital Manometer, Loop Calibrator and Low Pressure Pump by Comparison Method as per DKD-R 6-1	(-) 490.33 mbar to 0	0.58 mbar
31	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Low Pressure Gauge, Low Pressure Calibrator, Differential Pressure Gauge, Megnehelic Gauge	Using Digital Manometer and Low Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 20 mbar	0.024 mbar
32	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Low Pressure Gauge, Low Pressure Calibrator, Differential Pressure Gauge, Megnehelic Gauge	Using Digital Manometer and Low Pressure Pump by Comparison Method as per DKD-R 6-1	0 to 490.33 mbar	0.58 mbar

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33	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Pressure Gauge, Pressure Calibrator, Pressure Transducer, Pressure Transmitter, Pressure Switch, Pressure Indicator, Manometer, Pressure Module	Using Loop Calibrator, Digital Pressure calibrator and Pnemuatic Hand Pump, For Transmitter & Transducer (DMM) by Comparison Method as per DKD-R6-1	0 to 40 bar	0.04 bar
34	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression / Universal Testing Machine, Spring Testing Machine, Flexural Testing - Compression Mode	Using Load Cell with Indicator as per IS 1828 (Part 1) : 2022 & ISO 7500-1 : 2018	5 kN to 50 kN	0.19 %
35	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression / Universal Testing Machine, Spring Testing Machine, Flexural Testing - Compression Mode	Using Load Cell with Indicator as per IS 1828 (Part 1) : 2022 & ISO 7500-1 : 2018	50 kN to 1000 kN	0.19 %
36	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression / Universal Testing Machine, Spring Testing Machine, Flexural Testing - Compression Mode	Using Load Cell with Indicator as per IS 1828 (Part 1) : 2022 & ISO 7500-1 : 2018	50 N to 5 kN	0.31 %
37	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile / Universal Testing Machine, Spring Testing Machine - Tension Mode	Using Load Cell with Indicator as per IS 1828 (Part 1): 2022 & ISO 7500-1: 2018	5 kN to 200 kN	0.38 %

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38	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile / Universal Testing Machine, Spring Testing Machine - Tension Mode	Using Load Cell with Indicator as per IS 1828 (Part 1) : 2022 & ISO 7500-1 : 2018	50 N to 5 kN	0.31 %
39	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.01 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 22 g	0.02 mg
40	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 1 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 40 kg	7 mg
41	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Micro Balance, Accuracy Class - I, Readability: 0.001 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 1 g	0.003 mg
42	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.001 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 11 g	0.004 mg
43	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.001 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 2 g	0.004 mg
44	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.001 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 5 g	0.004 mg
45	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.001 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 g to 11 g	0.004 mg

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46	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.01 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 220 g	0.028 mg
47	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.1 mg & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 5100 g	0.6 mg
48	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - II, Readability: 0.1 g & Coarser	Using E1 Class Weights as per OIML R 76-1	0 to 64 kg	0.5 g
49	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - III, Readability: 10 g & Coarser	Using F2 & M1 Class Standard Weights as per OIML R 76-1	0 to 300 kg	9.34 g
50	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - III, Readability: 5g & Coarser	Using F1 & F2 Class Standard Weights as per OIML R 76-1	0 to 100 kg	5.78 g
51	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - IIII, Readability: 100 g	Using F2 & M1 Class Weights as per OIML R 76-1	0 to 500 kg	82 g
52	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - IIII, Readability: 200 g	Using F2 & M1 Class Standard Weights as per OIML R 76-1	0 to 1000 kg	191 g
53	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - IIII, Readability: 500 g	Using F2 & M1 Class Standard Weights as per OIML R 76-1	0 to 5000 kg	460.8 g

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54	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital Thermo - Hygrometer, Temperature / Humidity Transmitter	Using Digital Temperature and Humidity Sensor with Indicator, Temperature / Humidity Chamber and Loop Calibrator by Comparison Method	30 %rh to 90 %rh @ 25 °C	2.16 % rh
55	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital Thermo - Hygrometer, Temperature / Humidity Transmitter	Using Digital Temperature and Humidity Sensor with Indicator, Temperature / Humidity Chamber and Loop Calibrator by Comparison Method	5 °C to 50 °C @ 50 %rh	1.33 °C
56	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental Chamber, Climatic Chamber, Humidity Chamber - Multi Position Calibration	Using Temperature and Humidity Data Loggers (Minimum 09 No's) by Comparison Method	20 %rh to 95 %rh @ 25 °C	3 %rh
57	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental Chamber, Climatic Chamber, Humidity Chamber - Multi Position Calibration	Using Temperature and Humidity Data Loggers (Minimum 09 No's) by Comparison Method	5 °C to 50 °C @ 50 %rh	1.63 °C
58	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature / Humidity Indicator with Sensor of Temperature & Humidity Chamber, Environmental Chamber, Climatic Chamber, Humidity Chamber - Single Position Calibration	Using Digital Temperature / Humidity Indicator with Sensor by Comparison Method	20 %rh to 95 %rh @ 25 °C	1.21 %rh

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59	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath - Single Position Calibration	Using S Type Thermocouple with Digital Thermometer by Comparison Method	250 °C to 650 °C	1.52 °C
60	THERMAL-TEMPERATURE	Deep Freezer, Freezer, Refrigerator, Thermal Chamber, Water Bath, Hot Air Oven, Cold Room - Multi Position Calibration	Using Data Logger with RTD Sensors (Minimum 09 Sensors) by Comparison Method	(-) 80 °C to 150 °C	1.45 °C
61	THERMAL-TEMPERATURE	Digital Thermometer, Temperature Gauge, Temperature Transmitter, Thermocouple with Indicator	Using S Type Thermocouple with Digital Thermometer or Multi Function Calibrator and Dry Block Calibrator by Comparison Method	250 °C to 650 °C	1.56 °C
62	THERMAL-TEMPERATURE	Indicator with sensor of Temperature Bath - Single Position Calibration	Using RTD Sensor with Digital Thermometer by Comparison Method	30 °C to 250 °C	0.52 °C
63	THERMAL-TEMPERATURE	Temperature Indicator / Controller with Sensor of Bath, Deep Freezer, Freezer, Refrigerator, Water Bath, Hot Air Oven, Incubator, BOD Incubator, COD Incubator - Single Position Calibration	Using RTD Sensor with Digital Thermometer by Comparison Method	(-) 80 °C to 250 °C	0.21 °C

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Validity 25/05/2026 to 24/05/2030 **Last Amended on** 29/05/2026

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)(±)
64	THERMAL-TEMPERATURE	Temperature Indicator / Controller with Sensor of Dry Block Temperature Calibrator, Hot Air Oven, Furnace	Using S Type Thermocouple with Digital Thermometer by Comparison Method	250 °C to 1200 °C	1.88 °C
65	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Dry Bath Calibrator - Single Position Calibration	Using RTD Sensor with Digital Thermometer by Comparison Method	(-) 80 °C to 30 °C	0.4 °C

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