National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	ABSOLUTE INSTRUMENTS CALIBRATION SERVICES LLP., PLOT NO. 60, SHED NO. 01, REVENUE SURVEY NO. 259/2, VARDHMAN INDUSTRIAL AREA, UMIYAJI ESTATE, KOTHARIYA SOLVANT, RAJKOT, GUJARAT, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	450 °C to 1800 °C	0.8 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 1000 °C	0.43 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 1200 °C	0.43 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K - Type Thermocouple	Using Universal Temperature Calibrator by the Direct Method	(-)200 °C to 1350 °C	0.55 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 1300 °C	0.43 °C

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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	0 °C to 1750 °C	0.62 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT - 100)	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 800 °C	0.45 °C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	0 °C to 1750 °C	0.61 °C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 400 °C	0.44 °C
10	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	450 °C to 1800 °C	0.65 °C
11	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 1000 °C	0.41 °C

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12	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 1200 °C	0.51 °C
13	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 1350 °C	0.64 °C
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 1300 °C	0.81 °C
15	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	0 °C to 1750 °C	0.62 °C
16	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT - 100)	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 800 °C	0.45 °C
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	0 °C to 1750 °C	0.61 °C

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18	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 400 °C	0.46 °C
19	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison method	1 s to 600 s	0.1 s to 0.7 s
20	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison method	600 s to 86400 s	0.7 s to 50.1 s
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	1D Height Gauge (Digital / Dial / Vernier) (L.C. : 0.001 mm)	Using Caliper Checker & surface plate by Comparison Method	0 to 600 mm	10.0 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	1D Height Gauge (L.C : 0.01 mm)	Using Caliper Checker & surface plate by Comparison Method	0 to 600 mm	15 µm

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23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Transmission) (L.C. : 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1 mm	1.1 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier / Dial / Digital) L.C. : 0.01 mm	Using Caliper Checker & Slip Gauge block Set by Comparison Method	0 to 300 mm	11.4 µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Digital / Dial / Vernier) (L.C. : 0.01 mm)	Using Caliper Checker & Slip Gauge block Set by Comparison Method	0 to 600 mm	14 µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C. : 0.001 mm)	Using Standard Foils By Comparison Method	0.01 mm to 0.920 mm	10 µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C. : 0.001 mm)	Using Standard Foils By Comparison Method	0.920 mm to 1.920 mm	11 µm

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28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould / Proctor Mould (Linear Dimension)	Using Digital Vernier Caliper By Comparison Method	0 to 300 mm	33.7 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper / Depth Gauge (L.C. : 0.01 mm)	Using Slip Gauge block Set & Long Slip Gauge and Granite Surface Plate by Comparison Method	0 to 300 mm	8.4 µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C. : 0.001 mm)	Using Slip Gauge block Set & Long Slip Gauge and Granite Surface Plate by Comparison Method	0 to 300 mm	8.4 µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester (L.C. : 0.0002 mm)	Using Digital Dial Gauge (L.C. 0.1 µm) By Comparison Method.	0 to 25 mm	1.4 µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C. : 0.01 mm)	Using Slip Gauge block Set by Comparison Method	0 to 10 mm	7.6 µm

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33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C. : 0.001 mm)	Using Slip Gauge block Set & Long Slip Gauge by Comparison Method	0 to 300 mm	4.4 µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C. : 0.01 mm)	Using Slip Gauge block Set & Long Slip Gauge by Comparison Method	0 to 500 mm	9 µm
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Dial Gauge with Comparator Stand by Comparison Method	0.051 mm to 1 mm	1.5 µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C. : 0.01 mm)	Using Slip Gauge block Set, Long Slip Gauge & Digital Dial Gauge by Comparison Method	50 mm to 500 mm	7.6 µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Indicator (L.C. : 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 0.2 mm	1.8 µm

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38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Indicator (L.C. : 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 0.8 mm	6.01 µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT Probe, Electronic Probe With Indicator, Digital Dial Gauge (L.C. : 0.0001 mm)	Using Slip Gauge Block Set By Comparison Method	0 to 25 mm	2.8 µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Foils	Using Digital Dial Gauge with Comparator Stand by Comparison Method	0.1 mm to 5 mm	9.9 µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin / Thread Measuring Wire	Using Digital Dial Gauge with Comparator Stand by Comparison Method	0.1 mm to 20 mm	4.7 µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head (L.C. : 0.01 mm)	Using Slip Gauge block Set By Comparison Method	0 to 50 mm	8 µm

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43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Slip Gauge block Set, Long Slip Gauge & Digital Dial Gauge by Comparison Method	25 mm to 500 mm	8.6 µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Dial Caliper / Pistol Caliper (L.C. : 0.01 mm)	Using Slip Gauge block Set by Comparison Method	0 to 100 mm	75.8 µm
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer (Dial) / Vicat Appartus (L.C. : 0.1 mm)	Using Slip Gauge block Set by Comparison Method.	0 to 50 mm	578 µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Slip Gauge block Set & Digital Dial Gauge with Comparator Stand by Comparison Method	1 mm to 150 mm	2.6 µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap gauge	Using Slip Gauge block Set by Comparison Method	1 mm to 150 mm	4 µm

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48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Indicator (L.C. : 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	1.8 µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone (Diameter / Height)	Using Digital Vernier Caliper By Comparison Method	0 to 300 mm	45.6 µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector By Comparison Method	0.045 mm to 4.00 mm	10 µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Vernier Caliper By Comparison Method	4 mm to 125 mm	70 µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C. : 0.01 mm)	Using Slip Gauge block Set by Comparison Method	0 to 100 mm	71 µm

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53	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure : Digital / Dial Pressure Gauge, Pressure Transmitter with Indicator, Pressure Switch	Digital Pressure Gauge using Comparison Test Pump and Universal Calibrator by Comparison Method as per DKD - R 6 - 1	0 to 100 bar	0.12 bar
54	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure : Digital / Dial Pressure Gauge, Pressure Transmitter with Indicator, Pressure Switch	Digital Pressure Gauge using Comparison Test Pump and Universal Calibrator by Comparison Method as per DKD - R 6 - 1	0 to 1000 bar	0.66 bar
55	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class I and coarser (Readability : 0.1 mg)	Using E1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 220 g	0.4 mg
56	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class II & Corser (Readability : 0.1 g)	Using E1 & F1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 6 kg	170 mg
57	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class II and coarser (Readability : 0.01 g)	Using E1 & F1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 1000 g	16 mg
58	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class III and coarser (Readability : 1 g)	Using E1 & F1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 50 kg	2.5 g

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59	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class III and coarser (Readability : 0.2 g)	Using E1 & F1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 15 kg	0.35 g
60	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class III and coarser (Readability : 0.5 g)	Using E1 & F1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 30 kg	1.2 g
61	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class IIII and coarser (Readability : 100 g)	Using F1 & M1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 500 kg	104 g
62	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class IIII and coarser (Readability : 20 g)	Using E1, F1& M1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 200 kg	35 g
63	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class IIII and coarser (Readability : 10 g)	Using E1 & F1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 100 kg	13 g
64	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-Hygrometer / Temperature & Humidity Meter with Sensor / Dry & Wet Bulb Thermometer / Data Logger @ 50 %RH	Temperature and Humidity Indicator With Sensor & Temperature and Humidity Generator by Comparison Method	25 °C to 50 °C	0.49 °C

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65	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-Hygrometer / Temperature & Humidity Meter with Sensor / Dry & Wet Bulb Thermometer / Humidity Data Logger @ 25°C	Temperature and Humidity Indicator With Sensor & Temperature and Humidity Generator by Comparison Method	40 %RH to 95 %RH	2.28 %RH
66	THERMAL-TEMPERATURE	RTD, Thermocouple with or without controller / indicator / Temperature Gauge, Digital Thermometer, Temperature Transmitter with Indicator, Data logger / Recorder with sensor	4 Wire RTD Sensor with Indicator using Dry Block Temperature Bath and Temperature Calibrator by Comparison Method	50 °C to 250 °C	0.87 °C
67	THERMAL-TEMPERATURE	Thermocouple with or without controller / indicator / Temperature Gauge, Digital Thermometer, Temperature Transmitter with Indicator, Data logger / Recorder with sensor	S Type Thermocouple with Indicator using Dry Block bath and Temperature Calibrator by Comparison Method	250 °C to 1200 °C	2.9 °C

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Site Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	450 °C to 1800 °C	0.8 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 1000 °C	0.43 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 1200 °C	0.43 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K - Type Thermocouple	Using Universal Temperature Calibrator by the Direct Method	(-)200 °C to 1350 °C	0.55 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 1300 °C	0.43 °C

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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	0 °C to 1750 °C	0.62 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT - 100)	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 800 °C	0.45 °C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	0 °C to 1750 °C	0.61 °C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 400 °C	0.44 °C
10	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	450 °C to 1800 °C	0.65 °C
11	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 1000 °C	0.41 °C

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12	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 1200 °C	0.51 °C
13	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 1350 °C	0.64 °C
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 1300 °C	0.81 °C
15	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	0 °C to 1750 °C	0.62 °C
16	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT - 100)	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 800 °C	0.45 °C
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	0 °C to 1750 °C	0.61 °C

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18	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Universal Temperature Calibrator by Direct Method	(-)200 °C to 400 °C	0.46 °C
19	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison method	1 s to 600 s	0.1 s to 0.7 s
20	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison method	600 s to 86400 s	0.7 s to 50.1 s
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope (Magnification)	Using Microscope Calibration Slide, Microscope Eye Piece by Comparison Method	10 X to 1000 X	0.4 %
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Cast Iron / Granite)	Using Precision Electronic Level & Spirit Level by Comparison Method	2500 mm X 1600 mm	2.73Sqrt ((L+W)/100) µm, Where L & W in mm

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23	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Testing Machine	Using Standard Hardness Testing Blocks as per IS 1500 - 2 : 2021, ISO 6506 - 2 : 2017 & ASTM E - 10 : 2018	HBW 10/3000	1.77 % HBW
24	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Testing Machine	Using Standard Hardness Testing Blocks as per IS 1500 - 2 : 2021, ISO 6506 - 2 : 2017 & ASTM E - 10 : 2018	HBW 2.5/187.5	1.97 % HBW
25	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Testing Machine	Using Standard Hardness Testing Blocks as per IS 1500 - 2 : 2021, ISO 6506 - 2 : 2017 & ASTM E - 10 : 2018	HBW 5/250	1.95 %HBW
26	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Testing Machine	Using Standard Hardness Testing Blocks as per IS 1500 - 2 : 2021, ISO 6506 - 2 : 2017 & ASTM E - 10 : 2018	HBW 5/750	1.85 % HBW
27	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Indentation Measuring System of Brinell & Vickers Hardness Testing Machine	Using Glass Scale As Per IS 1500 : 2021, IS 1501 : 2021	0 to 7.0 mm	0.2 %

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28	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks as per Ref Std: IS 1586 - 2 : 2018, Ref Std: ISO 6508 - 2 : 2015, Ref Std: ASTM E - 18 : 2022	HRA	0.62 HRA
29	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks as per Ref Std: IS 1586 - 2 : 2018, Ref Std: ISO 6508 - 2: 2015, Ref Std: ASTM E - 18 : 2022	HRBW	1.34 HRBW
30	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks as per Ref Std: IS 1586 - 2 : 2018, Ref Std: ISO 6508 - 2 : 2015, Ref Std: ASTM E - 18 : 2022	HRC	0.72 HRC

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31	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Test Force for Rockwell & Rockwell Superficial, Brinell, Vickers & Microvickers Hardness Testser	Using Class 0.5 / 1 Force Proving Instruments / Load Cells as per IS 1586 - 2 : 2018, ISO 6508 - 2 : 2015, IS 1500 : 2021 & IS 1501 : 2021, ISO 6507 - 2 : 2023	0.100 kN to 30 KN	0.58 %
32	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Testing Cycle of Hardness Testing Machines	Using Stop Watch as per IS 1586 - 2 : 2018 & ISO 6508 - 2 : 2015 & ASTM E 18 : 2022 / IS 1500 : 2021 & ISO 6506 : 2017 & ASTM E 10 : 2018 / IS 1501 : 2021 & ISO 6507 : 2023 & ASTM E 92 : 2023 & ASTM E - 384 : 2022	1 s to 180 s	0.5 s
33	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure : Digital / Dial Pressure Gauge, Pressure Transmitter with Indicator, Pressure Switch	Digital Pressure Gauge using Comparison Test Pump and Universal Calibrator by Comparison Method as per DKD - R 6 - 1	0 to 100 bar	0.12 bar

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34	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure : Digital / Dial Pressure Gauge, Pressure Transmitter with Indicator, Pressure Switch	Digital Pressure Gauge using Comparison Test Pump and Universal Calibrator by Comparison Method as per DKD - R 6 - 1	0 to 1000 bar	0.66 bar
35	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine – (UTM / CTM) (Compression Mode	Using Force Proving Instruments Load Cell (Class 0.5 & I) with Indicator as per IS 1828 (Part - 1) : 2022 & ISO 7500 - 1 : 2018	0.1 kN to 3000 kN	0.58 %
36	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine – (UTM / CTM) (Compression Mode	Using Force Proving Instruments Load Cell (Class 0.5 & I) with Indicator as per IS 1828 (Part-1) : 2022 & ISO 7500 - 1 : 2018	0.1 kN to 500 kN	0.60 %
37	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine – (UTM / CTM) (Tension Mode)	Using Force Proving Instruments Load Cell (Class - 0.5) with Indicator as per IS 1828 (Part - 1) : 2022 & ISO 7500 - 1 : 2018	0.4 kN to 50 kN	0.57 %

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38	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class I and coarser (Readability : 0.1 mg)	Using E1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 220 g	0.4 mg
39	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class II & Corser (Readability : 0.1 g)	Using E1 & F1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 6 kg	170 mg
40	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class II and coarser (Readability : 0.01 g)	Using E1 & F1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 1000 g	16 mg
41	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class III and coarser (Readability : 1 g)	Using E1 & F1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 50 kg	2.5 g
42	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class III and coarser (Readability : 0.2 g)	Using E1 & F1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 15 kg	0.35 g
43	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class III and coarser (Readability : 0.5 g)	Using E1 & F1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 30 kg	1.2 g
44	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class IIII and coarser (Readability : 100 g)	Using F1 & M1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 500 kg	104 g

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45	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class IIII and coarser (Readability : 20 g)	Using E1, F1& M1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 200 kg	35 g
46	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class IIII and coarser (Readability : 10 g)	Using E1 & F1 Accuracy Class Weights Based on OIML R - 76 - 1	0 to 100 kg	13 g
47	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber / Salt Spray Chamber / Environmental Chamber	Digital RH & Temperature indicator with Sensor probe by Comparison Method (Single Location Calibration @ 25 °C)	30 %RH to 95 %RH	1.95 %RH
48	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber / Salt Spray Chamber / Environmental Chamber @ 25 °C	Temperature & Humidity Sensors with Datalogger by Comparison method (Multi Position Calibration using minimum 9 sensors)	40 %RH to 85 %RH	2.05 %RH
49	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber / Salt Spray Chamber / Environmental Chamber @ 50 %RH	Temperature & Humidity Sensors with Datalogger by Comparison method (Multi Position Calibration using minimum 9 Sensors)	25 °C to 50 °C	1.5 °C

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50	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Indicator with Sensor of Humidity Chamber / Salt Spray Chamber / Environmental Chamber	Digital RH & Temperature indicator with Sensor probe by Comparison Method (Single Position Calibration @ 50 % RH)	25 °C to 50 °C	0.41 °C
51	THERMAL-TEMPERATURE	Deep Freezer, Freezer, Hot or Cold Chamber, Thermal Bath, Environmental Chamber, Oven, Autoclave, Incubator (for Non Medical Purpose only)	Using RTD Sensors With Data Logger By Comparison Method (Multi Positoin Calibration Using Minimum 9 Sensors)	(-)30 °C to 200 °C	3.46 °C
52	THERMAL-TEMPERATURE	Furnace, Chamber	N Type Thermocouple with Data Logger By Comparison Method (Multi Position Calibration using minimum 9 sensors)	1200 °C to 1300 °C	6.8 °C
53	THERMAL-TEMPERATURE	Oven, Furnace	N Type Thermocouples with Data Logger By Comparison method (Multi Position Calibration using minimum 9 sensors)	200 °C to 900 °C	6.28 °C

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54	THERMAL-TEMPERATURE	Oven, Furnace	N Type Thermocouple with Data Logger by Comparison Method (Multi Location Calibration using minimum 9 sensors)	900 °C to 1200 °C	5.95 °C
55	THERMAL-TEMPERATURE	RTD, Thermocouple with or without controller / indicator / Temperature Gauge, Digital Thermometer, Temperature Transmitter with Indicator, Data logger / Recorder with sensor	4 Wire RTD Sensor with Indicator using Dry Block Temperature Bath and Temperature Calibrator by Comparison Method	50 °C to 250 °C	0.87 °C
56	THERMAL-TEMPERATURE	Temperature Indicator with Senosr of Freezer, Liquid Bath, Oven, Dry Block Furnace, Incubator (for non medical purpose only)	4 Wire RTD Sensor with Indicator by Comparison Method (Single Position Calibration)	(-)30 °C to 250 °C	2.08 °C
57	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid Bath	4 Wire RTD with Indicator By Comparison Method (Single Position Calibration)	(-)196 °C	1.27 °C

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58	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath/ Dry Block Calibrator/ Deep Freezer/ Cold Chamber	4 Wire RTD Sensor With Indicator by Comparison Method (Single location Calibration)	(-)30 °C to 4 °C	0.84 °C
59	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Oven, Dry Block Furnace, Furnace	S Type Thermocouple with Indicator by Comparison Method (Single Position Calibration)	250 °C to 1200 °C	2.41 °C
60	THERMAL-TEMPERATURE	Thermocouple with or without controller / indicator / Temperature Gauge, Digital Thermometer, Temperature Transmitter with Indicator, Data logger / Recorder with sensor	S Type Thermocouple with Indicator using Dry Block bath and Temperature Calibrator by Comparison Method	250 °C to 1200 °C	2.9 °C

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