



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

MAINTECH CALIBRATORS PRIVATE LIMITED, PRABARTAK JUTE MILLS LTD., GATE NO - 04, OLD NIMTA ROAD, KAMARHATI, BARRACKPORE, NORTH 24 PARGANAS, KOLKATA, WEST BENGAL, 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	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator with Indicator / Controller - Non Contact Type	Using Standard Digital Tachometer by Comparison Method	> 100 rpm to 500 rpm	0.36 % of rdg
2	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator with Indicator / Controller - Non Contact Type	Using Standard Digital Tachometer by Comparison Method	> 500 rpm to 5000 rpm	0.21 % of rdg
3	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator with Indicator / Controller - Non Contact Type	Using Standard Digital Tachometer by Comparison Method	> 5000 rpm to 90000 rpm	0.041 % of rdg
4	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator with Indicator / Controller - Non Contact Type	Using Standard Digital Tachometer by Comparison Method	10 rpm to 100 rpm	5.82 % of rdg
5	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Standard Digital Tachometer and Rotary Source by Comparison Method	> 500 rpm to 3000 rpm	0.11 % of rdg
6	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Standard Digital Tachometer and Rotary Source by Comparison Method	10 rpm to 500 rpm	19.08 % of rdg



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7	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Standard Digital Tachometer and Rotary Source by Comparison Method	10 rpm to 100 rpm	6.68 % of rdg
8	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Standard Digital Tachometer and Rotary Source by Comparison Method	100 rpm to 500 rpm	0.36 % of rdg
9	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Standard Digital Tachometer and Rotary Source by Comparison Method	500 rpm to 5000 rpm	0.076 % of rdg
10	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Standard Digital Tachometer and Rotary Source by Comparison Method	5000 rpm to 90000 rpm	0.063 % of rdg
11	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Calibrator by Direct Method	114 dB	0.26 dB
12	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Calibrator by Direct Method	94 dB	0.26 dB



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13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Protractor / Bevel Protractor (L.C.: 5 min)	Using Profile Projector by Comparison Method	0 ° - 90 ° - 0 °	4.4 minutes of Arc
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Gauge Block Set and Long Slip Gauges by Comparison Method	0 to 300 mm	10.29 μm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.02 mm)	Using Gauge Block Set and Long Slip Gauges by Comparison Method	0 to 600 mm	16.65 μm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.0001 mm)	Using Standard Foils and Base Plate by Comparison Method	50 μm to 950 μm	9.02 μm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Digimatic (L.C.: 0.01 mm)	Using Gauge Block Set and Long Slip Gauges by Comparison Method	0 to 300 mm	10.8 μm



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18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Digimatic Caliper by Comparison Method	14.7 mm to 81 mm	28.76 μ m
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Dial / Digimatic (L.C.: 0.001 mm)	Using Gauge Block Set by Comparison Method	0 to 25 mm	1.42 μ m
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Dial / Digimatic (L.C.: 0.001 mm)	Using Gauge Block Set by Comparison Method	25 mm to 150 mm	3.2 μ m
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digimatic External Micrometer by Comparison Method	0.05 mm to 1 mm	2.05 μ m
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Digimatic Caliper by Comparison Method	4.83 mm to 100 mm	28.76 μ m



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23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digimatic (L.C.: 0.01 mm)	Using Gauge Block Set and Long Slip Gauges by Comparison Method	0 to 300 mm	11 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hight Gauge - Vernier / Dial / Digimatic (L.C.: 0.01 mm)	Using Gauge Block Set and Long Slip Gauges by Comparison Method	0 to 600 mm	13.74 µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.1 mm)	Using Gauge Block Set by Comparison Method	0 to 50 mm	79.89 µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge - Concave / Convex	Using Profile Projector by Comparison Method	1 mm to 25 mm	18.4 µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod	Using Gauge Block Set, Digimatic Indicator and Comparator Stand by Comparison Method	25 to 125 mm	4.13 µm



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28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale / Measuring Scale (L.C.: 0.5 mm and Coarser)	Using Tape Scale Calibrator by Comparison Method	0 to 1000 mm	289.9 μm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Tape / Measuring Tape / Fiber Tape / Pie Tape (L.C.: 1 mm)	Using Tape Scale Calibrator by Comparison Method	0 to 50 m	426.7 x sqrt (L/1000) μm , Where L is in mm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digimatic Caliper by Comparison Method	4 mm to 125 mm	103.4 μm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by Comparison Method	45 μm to 4 mm	7.83 μm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge - Dial / Digimatic (L.C.: 0.01 mm)	Using Gauge Block Set by Comparison Method	0 to 12.7 mm	6.76 μm



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33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Angle	Using Profile Projector by Comparison Method	55 ° to 60 °	12.9 minutes of Arc
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Pitch	Using Profile Projector by Comparison Method	0.25 mm to 6 mm	6.43 μm
35	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure Gauge (Dial / Digital), Pressure Indicator, Pressure Calibrator	Using Standard Digital Pressure Gauge & Pressure Comparator Set by Comparison Method DKD R 6 - 1	0 to 100 bar	0.83 % of rdg
36	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure Gauge (Dial / Digital), Pressure Indicator, Pressure Calibrator	Using Standard Digital Pressure Gauge & Pressure Comparator Set by Comparison Method as per DKD R 6 - 1	0 to 1000 bar	0.089 % of rdg
37	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Pressure Gauge (Dial / Digital), Pressure Indicator, Pressure Calibrator	Using Standard Digital Pressure Gauge & Pressure Comparator Set by Comparison Method as per DKD R 6 - 1	0 to 30 bar	0.21 % of rdg



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38	MECHANICAL-VOLUME	Burette	Using Electronic Weighing Balance (up to 220 g) of Readability 0.01 mg and distilled water by Gravimetric Method as per IS 18235 : 2023, ISO 4787 : 2021 & ISO / TR 20461	1 ml to 100 ml	8.2 µl
39	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask, Conical Flask, Beaker, Pycnometer, Sp. Gr. Bottle, Nessler Tube	Using Electronic Weighing Balance (up to 82 /220 g) of Readability 0.01 / 0.1 mg and Distilled Water by Gravimetric Method as per IS 18235 : 2023, ISO 4787 : 2021 & ISO / TR 20461	> 10 ml to 100 ml	19 µl
40	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask, Conical Flask, Beaker, Pycnometer, Sp. Gr. Bottle, Nessler Tube	Using Electronic Weighing Balance (up to 1020 g) of Readability 1 mg and Distilled Water by Gravimetric Method as per ISO 4787 : 2021 & ISO / TR 20461	> 100 ml to 500 ml	62 µl



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41	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask, Conical Flask, Beaker, Pycnometer, Sp. Gr. Bottle, Nessler Tube	Using Electronic Weighing Balance (up to 1020 g /3000 g) of Readability 1 mg / 10 mg and Distilled Water by Gravimetric Method as per IS 18235 : 2023, ISO 4787 : 2021 & ISO / TR 20461	> 500 ml to 2000 ml	171 µl
42	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask, Conical Flask, Beaker, Pycnometer, Sp. Gr. Bottle, Nessler Tube	Using Electronic Weighing Balance (up to 82 / 220 g) of Readability 0.01 / 0.1 mg and Distilled Water by Gravimetric Method as per IS 18235 : 2023, ISO 4787 : 2021 & ISO / TR 20461	1 ml to 10 ml	2.1 µl



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43	MECHANICAL-VOLUME	Pipette (Graduated / Non Graduated)	Using Electronic Weighing Balance (up to 82 / 220 g) of Readability 0.01 / 0.1 mg and Distilled Water by Gravimetric Method as per IS 18235 : 2023, ISO 4787 : 2021 & ISO / TR 20461	0.1 ml to 100 ml	8.33 µl
44	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability 20 mg and Coarser	Using E2 Class Weight & F1 Class Weight by Comparison Method as per OIML R 76 - 1	> 220 g to 1020 g	3.22 mg
45	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.1 mg and Coarser	Using E2 Class Weight by Comparison Method as per OIML R 76 - 1	> 82 g to 220 g	0.4 mg
46	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 1 mg and Coarser	Using E2 Class Weights by Comparison Method as per OIML R - 76 - 1	1 mg to 82 g	0.1 mg
47	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - II, Readability 10 mg and Coarser	Using E2 Class Weights & F1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 1020 g to 3000 g	24.11 mg



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48	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - II, Readability: 1 g and Coarser	Using F1 Class Weight by Comparison Method as per OIML R 76 - 1	> 30 kg to 100 kg	4.36 g
49	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class II, Readability: 0.1 g and Coarser	Using E2 Class Weight & F1 Class Weight by Comparison Method as per OIML R 76 - 1	> 3000 g to 30000 g	186.35 mg
50	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g, by Substitution Method (ABBA Cycle) as per OIML R111 - 1	1 g	0.014 mg
51	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g, by Substitution Method (ABBA Cycle) as per OIML R111 - 1	10 g	0.023 mg
52	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g), by Substitution Method (ABBA Cycle) as per OIML R111 - 1	100 mg	0.01 mg



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53	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g, by Substitution Method (ABBA Cycle) as per OIML R111 - 1	2 g	0.017 mg
54	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g), by Substitution Method (ABBA Cycle) as per OIML R111 - 1	20 g	0.027 mg
55	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g, by Substitution Method (ABBA Cycle) as per OIML R111 - 1	20 mg	0.01 mg
56	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g), by Substitution Method (ABBA Cycle) as per OIML R111 - 1	200 g	0.13 mg



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57	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g), by Substitution Method (ABBA Cycle) as per OIML R111 - 1	200 mg	0.012 mg
58	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g), by Substitution Method (ABBA Cycle) as per OIML R111 - 1	5 g	0.019 mg
59	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g), by Substitution Method (ABBA Cycle) as per OIML R111 - 1	50 g	0.032 mg
60	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g), by Substitution Method (ABBA Cycle) as per OIML R111 - 1	50 mg	0.01 mg



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61	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g), by Substitution Method (ABBA Cycle) as per OIML R111 - 1	500 mg	0.016 mg
62	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using F1 Class Weights with Electronic Balance (up to 1020 g) by Substitution Method (ABBA Cycle) as per OIML R111 - 1	1 kg	1.52 mg
63	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g), by Substitution Method (ABBA Cycle) as per OIML R111 - 1	1 mg	0.01 mg
64	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g), by Substitution Method (ABBA Cycle) as per OIML R111 - 1	10 mg	0.011 mg



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65	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g), by Substitution Method (ABBA Cycle) as per OIML R111 - 1	100 g	0.12 mg
66	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g, by Substitution Method (ABBA Cycle) as per OIML R111 - 1	2 mg	0.01 mg
67	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Weights with Electronic Balance (up to 82/220 g, by Substitution Method (ABBA Cycle) as per OIML R111 - 1	5 mg	0.01 mg
68	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using F1 Class Weights with Electronic Balance (up to 1020 g) by Substitution Method (ABBA Cycle) as per OIML R111 - 1	500 g	1.23 mg



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69	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using F1 Class Weights with Electronic Balance (up to 30 kg) by Substitution Method (ABBA Cycle) as per OIML R111 - 1	10 kg	103.03 mg
70	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using F1 Class Weights with Electronic Balance (up to 3000 g) by Substitution Method (ABBA Cycle) as per OIML R111 - 1	2 kg	18.15 mg
71	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using F1 Class Weights with Electronic Balance (up to 30 kg) by Substitution Method (ABBA Cycle) as per OIML R111 - 1	20 kg	120.24 mg
72	MECHANICAL-WEIGHTS	Accuracy Class M2 & Coarser	Using F1 Class Weights with Electronic Balance (up to 30 kg) by Substitution Method (ABBA Cycle) as per OIML R111 - 1	5 kg	88.4 mg



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73	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital / Analogue Humidity Indicator/Controller / Data Logger with Sensor	Using Standard Humidity & Temperature Sensor with Indicator and Humidity Chamber by Comparison Method	30 % rh to 95 % rh @ 25 °C	3.5 % rh
74	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature / Humidity Meter with Sensor, Temperature / Humidity Indicator / Controller with Inbuild Sensor, Data Logger, Thermo Hygrometer	Using Standard Humidity and Temperature Indicator with Sensor, Humidity Chamber by Comparison Method	15 °C to 45 °C @ 50 % rh	1.29 °C
75	THERMAL-TEMPERATURE	Deep Freezer, Refrigerator, Incubator, Autoclave, Air Oven, Temperature Bath, Chamber - Multi Position Calibration	Using Standard RTD Sensors (Minimum 09 Sensors) and Data Acquisition System by Comparison Method	(-) 50 °C to 300 °C	7.28 °C
76	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using Standard RTD and Data Acquisition System, Low Temperature Liquid Bath by Comparison Method	(-) 80 °C to 50 °C	0.58 °C



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77	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using Standard RTD and Data Acquisition System, Liquid Bath by Comparison Method	> 50 °C to 250 °C	0.35 °C
78	THERMAL-TEMPERATURE	RTD / Thermocouple with / without Indicator, Temperature Controller / Digital Thermometer with Sensor	Using Using Standard RTD Sensor with Indicator, Data Acquisition System, Low Temperature Liquid Bath by Comparison Method	(-) 80 °C to 50 °C	0.21 °C
79	THERMAL-TEMPERATURE	RTD / Thermocouple with / without Indicator, Temperature Controller / Digital Thermometer with Sensor	Using Using Standard RTD Sensor with Indicator, Data Acquisition System, Dry Block Bath by Comparison Method	> 250 °C to 400 °C	0.44 °C
80	THERMAL-TEMPERATURE	RTD / Thermocouple with / without Indicator, Temperature Controller / Digital Thermometer with Sensor	Using Standard RTD Sensor with Indicator, Data Acquisition System & Liquid Bath by Comparison Method	> 50 °C to 250 °C	0.25 °C



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81	THERMAL-TEMPERATURE	Temperature Gauge	Using Standard RTD and Data Acquisition System, Liquid Bath by Comparison Method	> 50 °C to 250 °C	1.51 °C
82	THERMAL-TEMPERATURE	Temperature Indicator / Controller with Sensor of Deep Freezer, Refrigerator, Block Furnace, Bath - Single Position Calibration	Using Standard RTD and Data Acquisition System by Comparison Method	(-) 80 °C to 50 °C	0.2 °C
83	THERMAL-TEMPERATURE	Temperature Indicator / Controller with Sensor of Oven / Block Furnace / Bath - Single Position Calibration	Using Standard R - Type Thermocouple and Data Acquisition System by Comparison Method	> 900 °C to 1200 °C	2.9 °C
84	THERMAL-TEMPERATURE	Temperature Indicator / Controller with Sensor of Oven / Block Furnace, Bath Single Position Calibration	Using Standard RTD and Data Acquisition System by Comparison Method	> 50 °C to 400 °C	0.27 °C
85	THERMAL-TEMPERATURE	Temperature Indicator / Controller with Sensor of Oven, Block Furnace, Bath - Single Position Calibration	Using Standard R - Type Thermocouple and Data Acquisition System by Comparison Method	> 400 °C to 900 °C	2.11 °C



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86	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, Temperature Controller / Digital Thermometer with Sensor	Using Standard R-Type Thermocouple with Indicator, Data Acquisition System, Dry Block Bath by Comparison Method	> 400 °C to 900 °C	2.13 °C
87	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, Temperature Controller / Digital Thermometer with Sensor	Using Standard R-Type Thermocouple with Indicator, Data Acquisition System, Dry Block Bath by Comparison Method	> 900 °C to 1200 °C	2.8 °C



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Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator with Indicator / Controller - Non Contact Type	Using Standard Digital Tachometer by Comparison Method	> 100 rpm to 500 rpm	0.36 % of rdg
2	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator with Indicator / Controller - Non Contact Type	Using Standard Digital Tachometer by Comparison Method	> 500 rpm to 5000 rpm	0.21 % of rdg
3	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator with Indicator / Controller - Non Contact Type	Using Standard Digital Tachometer by Comparison Method	> 5000 rpm to 90000 rpm	0.041 % of rdg
4	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator with Indicator / Controller - Non Contact Type	Using Standard Digital Tachometer by Comparison Method	10 rpm to 100 rpm	5.82 % of rdg
5	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Standard Digital Tachometer and Rotary Source by Comparison Method	10 rpm to 100 rpm	6.68 % of rdg
6	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Standard Digital Tachometer and Rotary Source by Comparison Method	100 rpm to 500 rpm	0.36 % of rdg



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7	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Standard Digital Tachometer and Rotary Source by Comparison Method	500 rpm to 5000 rpm	0.076 % of rdg
8	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Standard Digital Tachometer and Rotary Source by Comparison Method	5000 rpm to 90000 rpm	0.063 % of rdg
9	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Block by Indirect Method as per IS : 1500 (Part - II) : 2021 and ISO 6506 - 2 : 2017	HBW 10/1000	1.8 %
10	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Block by Indirect Method as per IS : 1500 (Part - II) : 2021 and ISO 6506 - 2 : 2017	HBW 10/3000	2 %
11	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Block by Indirect Method as per IS : 1500 (Part - II): 2021 and ISO 6506 - 2 : 2017	HBW 2.5/187.5	1.8 %



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12	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Block by Indirect Method as per IS : 1500 (Part - II) : 2021 and ISO 6506 - 2 : 2017	HBW 5/750	1.8 %
13	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Block by Indirect Method as per IS:1586 (Part - II) : 2018 and ISO 6508 - 2 : 2015	HRA	0.9 HRA
14	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Block by Indirect Method as per IS : 1586 (Part - II) : 2018 and ISO 6508 - 2 : 2015	HRBW to	1 HRBW
15	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Block by Indirect Method as per IS : 1586 (Part - II) : 2018 and ISO 6508 - 2 : 2015	HRC	1 HRC
16	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness Block by Indirect Method as per IS : 1501 (Part - II) : 2020 and ISO 6507 - 2 : 2018	HV 1	4 %



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17	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness Block by Indirect Method as per IS : 1501 (Part - II) : 2020 and ISO 6507 - 2 : 2018	HV 10	2.8 %
18	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness Block by Indirect Method as per IS : 1501 (Part - II) : 2020 and ISO 6507 - 2 : 2018	HV 30	2.8 %
19	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness Block by Indirect Method as per IS : 1501 (Part - II) : 2020 and ISO 6507 - 2 : 2018	HV 5	2.7 %
20	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure Gauge (Dial / Digital), Pressure Indicator, Pressure Calibrator	Using Standard Digital Pressure Gauge & Pressure Comparator Set by Comparison Method DKD R 6 - 1	0 to 100 bar	0.83 % of rdg
21	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure Gauge (Dial / Digital), Pressure Indicator, Pressure Calibrator	Using Standard Digital Pressure Gauge & Pressure Comparator Set by Comparison Method as per DKD R 6 - 1	0 to 1000 bar	0.089 % of rdg



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22	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Pressure Gauge (Dial / Digital), Pressure Indicator, Pressure Calibrator	Using Standard Digital Pressure Gauge & Pressure Comparator Set by Comparison Method as per DKD R 6 - 1	0 to 30 bar	0.21 % of rdg
23	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression Testing Machine, Universal Testing Machine, Spring Testing Machine - Compression Mode	Using Load Cell with Indicator by Comparison Method as per ASTM - E4 - 21	1 kN to 1000 kN	0.5 %
24	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression Testing Machine, Universal Testing Machine, Spring Testing Machine - Compression Mode	Using Load Cell with Indicator by Comparison Method as per IS 1828 (Part - I) : 2022 and ISO 7500 - 1 : 2018	5 N to 1000 kN	0.5 %
25	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile Testing Machine, Universal Testing Machine, Spring Testing Machine - Tension Mode	Using Load Cell With Indicator by Comparison Method as per IS 1828 (Part - I) : 2022 and ISO 7500 - 1 : 2018	5 N to 500 kN	0.5 %
26	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability 20 mg and Coarser	Using E2 Class Weight & F1 Class Weight by Comparison Method as per OIML R 76 - 1	> 220 g to 1020 g	3.22 mg



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27	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.1 mg and Coarser	Using E2 Class Weight by Comparison Method as per OIML R 76 - 1	> 82 g to 220 g	0.4 mg
28	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 1 mg and Coarser	Using E2 Class Weights by Comparison Method as per OIML R - 76 - 1	1 mg to 82 g	0.1 mg
29	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - II, Readability 10 mg and Coarser	Using E2 Class Weights & F1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 1020 g to 3000 g	24.11 mg
30	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - II, Readability: 1 g and Coarser	Using F1 Class Weight by Comparison Method as per OIML R 76 - 1	> 30 kg to 100 kg	4.36 g
31	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class II, Readability: 0.1 g and Coarser	Using E2 Class Weight & F1 Class Weight by Comparison Method as per OIML R 76 - 1	> 3000 g to 30000 g	186.35 mg
32	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Indicator / Controller of Humidity Chamber - Single Position Calibration	Using Standard Humidity & Temperature Sensor with Indicator by Comparison Method	15 °C to 45 °C @ 50 % rh	1.29 °C



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33	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator / Controller of Humidity Chamber	Using Standard Humidity & Temperature Sensor with Indicator by Comparison Method	30 % rh to 95 % rh @ 25 °C	3.5 % rh
34	THERMAL-TEMPERATURE	Deep Freezer, Refrigerator, Incubator, Autoclave, Air Oven, Temperature Bath, Chamber - Multi Position Calibration	Using Standard RTD Sensors (Minimum 09 Sensors) and Data Acquisition System by Comparison Method	(-) 50 °C to 300 °C	7.28 °C
35	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using Standard RTD and Data Acquisition System, Liquid Bath by Comparison Method	> 50 °C to 250 °C	0.35 °C
36	THERMAL-TEMPERATURE	RTD / Thermocouple with / without Indicator, Temperature Controller / Digital Thermometer with Sensor	Using Using Standard RTD Sensor with Indicator, Data Acquisition System, Dry Block Bath by Comparison Method	> 250 °C to 400 °C	0.44 °C
37	THERMAL-TEMPERATURE	RTD / Thermocouple with / without Indicator, Temperature Controller / Digital Thermometer with Sensor	Using Standard RTD Sensor with Indicator, Data Acquisition System & Liquid Bath by Comparison Method	> 50 °C to 250 °C	0.25 °C



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38	THERMAL-TEMPERATURE	Temperature Gauge	Using Standard RTD and Data Acquisition System, Liquid Bath by Comparison Method	> 50 °C to 250 °C	1.51 °C
39	THERMAL-TEMPERATURE	Temperature Indicator / Controller with Sensor of Deep Freezer, Refrigerator, Block Furnace, Bath - Single Position Calibration	Using Standard RTD and Data Acquisition System by Comparison Method	(-) 80 °C to 50 °C	0.2 °C
40	THERMAL-TEMPERATURE	Temperature Indicator / Controller with Sensor of Oven / Block Furnace / Bath - Single Position Calibration	Using Standard R - Type Thermocouple and Data Acquisition System by Comparison Method	> 900 °C to 1200 °C	2.9 °C
41	THERMAL-TEMPERATURE	Temperature Indicator / Controller with Sensor of Oven / Block Furnace, Bath Single Position Calibration	Using Standard RTD and Data Acquisition System by Comparison Method	> 50 °C to 400 °C	0.27 °C
42	THERMAL-TEMPERATURE	Temperature Indicator / Controller with Sensor of Oven, Block Furnace, Bath - Single Position Calibration	Using Standard R - Type Thermocouple and Data Acquisition System by Comparison Method	> 400 °C to 900 °C	2.11 °C



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43	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, Temperature Controller / Digital Thermometer with Sensor	Using Standard R-Type Thermocouple with Indicator, Data Acquisition System, Dry Block Bath by Comparison Method	> 400 °C to 900 °C	2.13 °C
44	THERMAL-TEMPERATURE	Thermocouple with / without Indicator, Temperature Controller / Digital Thermometer with Sensor	Using Standard R-Type Thermocouple with Indicator, Data Acquisition System, Dry Block Bath by Comparison Method	> 900 °C to 1200 °C	2.8 °C

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