National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

SHRIKRUPA CALIBRATION AND SERVICING CENTER LLP

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

23, PUNDLIK BABA COLONY, BY PASS ROAD, AMRAVATI, , MAHARASHTRA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2015

Issue Date: 06/05/2024 **Valid Until:** 27/03/2026

This certificate supersedes the Certificate No. CC-2015 with issue date 28/03/2024 in view of change in legal entity of the laboratory

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 thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: SHRIKRUPA CALIBRATION AND SERVICING CENTER LLP

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SHRIKRUPA CALIBRATION AND SERVICING CENTER LLP, 23, PUNDLIK BABA COLONY, BY PASS ROAD, AMRAVATI, MAHARASHTRA, 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	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, RPM Generator (Non Contact Type)	Using Digital Tachometer by Comparison Method	30000 rpm to 99999 rpm	59.4 rpm
2	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Vibrating Machine, Rotating Machine & Indicator, RPM Generator (Contact Type)	Using Digital Tachometer by Comparison Method	10 rpm to 100 rpm	1.34 rpm
3	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Vibrating Machine, Rotating Machine & Indicator, RPM Generator (Contact Type)	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	3.2 rpm
4	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Vibrating Machine, Rotating Machine & Indicator, RPM Generator (Contact Type)	Using Digital Tachometer by Comparison Method	1000 rpm to 7000 rpm	6.4 rpm

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5	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Vibrating Machine, Rotating Machine & Indicator, RPM Generator (Non Contact Type)	Using Digital Tachometer by Comparison Method	10 rpm to 200 rpm	1.33 rpm
6	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Vibrating Machine, Rotating Machine & Indicator, RPM Generator (Non Contact Type)	Using Digital Tachometer by Comparison Method	200 rpm to 10000 rpm	8.1 rpm
7	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Vibrating Machine, Rotating Machine &Indicator, RPM Generator (Non Contact Type)	Using Digital Tachometer by Comparison Method	10000 rpm to 30000 rpm	19.1 rpm
8	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source By Comparison Method	10 rpm to 100 rpm	1.3 rpm
9	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source By Comparison Method	100 rpm to 1000 rpm	3.1 rpm

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10	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source By Comparison Method	1000 rpm to 7000 rpm	6.4 rpm
11	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer and RPM Source By Comparison Method	10 rpm to 200 rpm	1.4 rpm
12	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer and RPM Source By Comparison Method	10000 rpm to 30000 rpm	19.2 rpm
13	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer and RPM Source By Comparison Method	200 rpm to 10000 rpm	8.8 rpm
14	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer and RPM Source By Comparison Method	30000 rpm to 99999 rpm	59.5 rpm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bar Mould (Distance & Height)	Using Vernier Caliper and Depth Gauge By Direct Method	Upto (25 x 25 x 282) mm	21 µm

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16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Beam Mould (Distance & Height)	Using Vernier Caliper and Depth Gauge By Direct Method	Upto (150x150x700) mm	23 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor /Angle Protractor (L.C.: 5 minute of arc)	Using Angle Slip Gauge Set By Comparison Method	0 ° to 180 °	199 second arc
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (For transmission accuracy check only) (L.C: 1 µm)	Dial Calibration Tester (L.C. 0.1 µm) by Comparison Method	Upto 1 mm	4.1 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bridge Cam Gauge / Weld Gauge (L.C.: 0.01 mm)	Using Scale & Tape Calibrator by Comparison Method	0 to 60 mm	117 µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bridge Cam Gauge / Weld Gauge (L.C.: 5°)	Using Gauge Block & Angle Gauge by Comparison Method	0 ° to 60 °	211 minutes of arc

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21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier, Dial & Electronic) (L.C.: 0.01 mm) or coarser	Using Caliper Checker by Comparison Method	Upto 600 mm	15.0 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating thickness meter (L.C.: 0.0001 mm)	Using master coating foils by using comparison method	0.01 mm to 2 mm	2.4 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set (angle) (L.C.: 1°)	Using Angle Gauge Set By Comparison Method	0 ° to 90 °	35 minutes of arc
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cone Penetrometer (L.C.: 0.1 mm)	Using Slip gauge by comparison method	0 to 40 mm	57.6 µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Digital Vernier Caliper By Direct Method	(700 X 700 X 300) mm	23 µm

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26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould (Distance & Height)	Using Vernier Caliper and Depth Gauge By Direct Method	Upto (300x300x300) mm	21 µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Moulds	Using Depth Gauge By Direct Method	0 to 300 mm	21 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Moulds cylindrical (Diameter up to 300 mm)	Using Vernier Caliper By Direct Method	0 to 300 mm	21 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using Profile Projector By Comparison Method	0.1 mm to 20 mm	5.1 µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Mould (Diameter & Height)	Using Vernier Caliper And Depth Gauge By Direct Method	0 to 300 mm	21 µm

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31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Degree Protractor (L.C.: 0.1°)	Using Angle Slip Gauge Set By Comparison Method	0 ° to 360 °	3.5 minute arc
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier, Dial, Digital) (L.C.: 0.01 mm)	Using Slip Gauge Box and Long Slip Gauges By Comparison Method	0 to 300 mm	13 µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (Dial & Digital) (L.C.: 0.01 mm) & coarser	Using Slip Gauge Set and Long Slip Gauge by direct method	0 to 300 mm	6 µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge - Plunger Type (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	Upto 25 mm	3.3 µm
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge – Lever Type (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	Upto 0.14 mm	1.7 µm

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36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.001 mm) or coarser	Using Slip Gauge Set by direct method	upto 25 mm	1.4 µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Profile Projector By Comparison Method	5 mm to 100 mm	6 µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Vernier Caliper By Direct Method	5 mm to 100 mm	21.3 µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Vernier, Dial & Electronic) (L.C.: 0.001 mm) or coarser	Using Slip Gauge Set by direct method	0 to 25 mm	1.5 µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Vernier, Dial & Electronic) (L.C.: 0.001 mm) or coarser	Using Slip Gauge Set by direct method	25 mm to 200 mm	2 µm

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41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler gauge / Shims (foils) of Coating thickness gauge	Comparator stand with digital dial of L.C 0.1 µm/ probe with indicator by Comparison Method	upto 2 mm	0.78 µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Vernier Caliper By Direct Method	4 mm to 100 mm	21.3 µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Profile Projector By Comparison Method	4 mm to 100 mm	6 µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.01 mm)	Using Caliper Checker and Long Slip Gauges By Comparison Method	0 to 1000 mm	16 µm
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 0.5/1 mm)	Using Scale & Tape Calibrator by Comparison Method	0 to 1000 mm	117 µm

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46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape / Pie Tape (L.C.: 1 mm)	Using Scale & Tape Calibrator by Comparison Method	0 to 50 meter	117 x sqrt(L) µm Where L is in meter
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Slip Gauge Set and Comparator by Comparison Method	25 mm to 175 mm	3.5 µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Pistol Caliper (L.C.: 10 µm)	Using Long Slip Gauge by comparison method	0 to 200 mm	13 µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside(Pistol) Caliper (L.C.: 10 µm)	Using Caliper Checker / Length bar by comparison method	0 to 100 mm	10 µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using Slip Gauge Set by direct method	3 mm to 100 mm	3.8 µm

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51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius gauges	Using Profile Projector By Comparison Method	0.6 mm to 25 mm	6 µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone (Diameter & Height)	Using Vernier Caliper And Depth Gauge By Direct Method	0 to 300 mm	21 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone Scale of Tamping Rod	Using Scale & Tape Calibrator by Comparison Method	0 to 300 mm	117 µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape & Scale Calibrator	Using Slip Gauge Box and Long Slip Gauges By Comparison Method	0 to 1000 mm	7 µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale / Shrinkage Scale	Using Tape and Scale Calibrator by Comparison Method	1 mm to 29 mm	117 µm

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56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector By Comparison Method	38 µm to 5.0 mm	6 µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Digital Vernier Caliper by comparison method	4 mm to 125 mm	22 µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauges (Angular Measurement)	Using Profile Projector By Comparison Method	55 ° to 60 °	5 minutes of arc
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauges (Linear Measurement)	Using Profile Projector By Comparison Method	0.25 mm to 6 mm	6 µm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.01 mm)	Using Long Slip Gauge & Slip Gauge Block Set by Comparison Method	0 to 300 mm	11 µm

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61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Vernier, Dial & Electronic) (L.C.: 0.01 mm)	Using Caliper Checker and Long Slip Gauges By Comparison Method	0 to 1000 mm	15 µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Vernier, Dial & Electronic) (L.C.: 0.01 mm)	Using Caliper Checker By Comparison Method	0 to 150 mm	12 µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Vernier, Dial & Electronic) (L.C.: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 300 mm	13 µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector By Comparison Method	0.025 mm to 8 mm	5 µm
65	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular Measurement) (L.C.: 1 s)	Using Graticule 360° By Comparison Method	0 ° to 360 °	56 s of arc

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66	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Linear Measurement) (L.C.: 1 µm)	Using Glass Scale By Comparison Method	0 to 150 mm	3.6 µm
67	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Slip Gauge, Vernier caliper By Comparison Method	Up to 50 X	1.45 %
68	MECHANICAL-PRESSURE INDICATING DEVICES	Dial & Digital Pressure Gauge (Hydraulic)	Using Digital Pressure Gauge & Hydraulic Pressure Pump by Comparison method as per DKD-R-6-1	0 bar to 7 bar	0.004 bar
69	MECHANICAL-PRESSURE INDICATING DEVICES	Dial & Digital Pressure Gauge (Hydraulic)	Using Digital Pressure Gauge & Hydraulic Pressure Pump by Comparison method as per DKD-R-6-1	0 bar to 70 bar	0.07 bar
70	MECHANICAL-PRESSURE INDICATING DEVICES	Dial & Digital Pressure Gauge (Hydraulic)	Using Digital Pressure Gauge & Hydraulic Pressure Pump by Comparison method as per DKD-R-6-1	0 bar to 700 bar	0.36 bar

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71	MECHANICAL-PRESSURE INDICATING DEVICES	Dial & Digital Vacuum Gauges (Pneumatic)	Using Digital Vacuum Gauge & Pneumatic Vacuum Pump By Comparison Method as per DKD- R- 6-1	(-) 0.94 bar to 0 bar	0.01 bar
72	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Dial & Digital Pressure Gauge)	Using Digital Pressure Gauge & Pneumatic Pressure Pump by Comparison method as per DKD-R-6-1	0 bar to 40 bar	0.025 bar
73	MECHANICAL-VOLUME	Glass/ Plastic ware (Pipettes, Volumetric Flask, Measuring Cylinder, Test Tubes, Burettes, Conical Flask, Dispenser, Le Chatelier Flask, Pycnometer Bottle, Specific Gravity Bottle)	Using Distilled water based on gravimetric method as per IS 18235: 2023	1 ml to 100 ml	6.0 µl

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74	MECHANICAL-VOLUME	Glass/ Plastic ware (Pipettes, Volumetric Flask, Measuring Cylinder, Test Tubes, Burettes, Conical Flask, Dispenser, Le Chatelier Flask, Pycnometer Bottle, Specific Gravity Bottle)	Using Distilled water based on gravimetric method as per IS 18235: 2023	100 ml to 500 ml	26 µl
75	MECHANICAL-VOLUME	Glass/ Plastic ware (Pipettes, Volumetric Flask, Measuring Cylinder, Test Tubes, Burettes, Conical Flask, Dispenser, Le Chatelier Flask, Pycnometer Bottle, Specific Gravity Bottle)	Using Distilled water based on gravimetric method as per IS 18235: 2023	500 ml to 5000 ml	49 µl
76	MECHANICAL-VOLUME	Micro Pipettes	Using weighing balance of (readability: 0.01 mg) & distilled water ,based on Gravimetric method as per ISO 8655 (Part 6): 2022	>100 µl to 1000 µl	7 µl

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77	MECHANICAL-VOLUME	Micro Pipettes	Using weighing balance of (readability: 0.01 mg) & distilled water ,based on Gravimetric method as per ISO 8655 (Part 6): 2022	>20 µl to 100 µl	1.2 µl
78	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 0.01 mg & coarser; Class I & coarser)	Using standard weights of E1 & E2 class Based on OIML R 76: 2006	0 to 200 g	0.13 mg
79	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 0.1 g & coarser; Class II & coarser)	Using standard weights of F1 class Based on OIML R 76: 2006	0 to 30 kg	0.2 g
80	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 1 mg & coarser; Class I & coarser)	Using standard weights of F1 class Based on OIML R 76: 2006	0 to 1000 g	15 mg
81	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 10 g & coarser; Class II & coarser)	Using standard weights of F1 & M1 class Based on OIML R 76: 2006	0 to 200 kg	40 g
82	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 10 mg & coarser; Class II & coarser)	Using standard weights of F1 class Based on OIML R 76: 2006	0 to 6000 g	21 mg

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83	MECHANICAL-WEIGHTS	Weight of F1 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.01 mg) by substitution Method through ABBA cycles	1 g	0.02 mg
84	MECHANICAL-WEIGHTS	Weight of F1 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.01 mg) by substitution Method through ABBA cycles	10 g	0.03 mg
85	MECHANICAL-WEIGHTS	Weight of F1 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.1 mg) by substitution Method through ABBA cycles	100 g	0.13 mg
86	MECHANICAL-WEIGHTS	Weight of F1 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.01 mg) by substitution Method through ABBA cycles	2 g	0.03 mg

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87	MECHANICAL-WEIGHTS	Weight of F1 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.01 mg) by substitution Method through ABBA cycles	20 g	0.03 mg
88	MECHANICAL-WEIGHTS	Weight of F1 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.01 mg) by substitution Method through ABBA cycles	20 mg	0.01 mg
89	MECHANICAL-WEIGHTS	Weight of F1 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.1 mg) by substitution Method through ABBA cycles	200 g	0.16 mg
90	MECHANICAL-WEIGHTS	Weight of F1 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.01 mg) by substitution Method through ABBA cycles	200 mg	0.02 mg

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91	MECHANICAL-WEIGHTS	Weight of F1 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.01 mg) by substitution Method through ABBA cycles	5 g	0.03 mg
92	MECHANICAL-WEIGHTS	Weight of F1 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.01 mg) by substitution Method through ABBA cycles	50 g	0.05 mg
93	MECHANICAL-WEIGHTS	Weight of F1 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.01 mg) by substitution Method through ABBA cycles	500 mg	0.02 mg
94	MECHANICAL-WEIGHTS	Weight of F2 Class & coarser	Using F1 class standard weights and balance of (readability: 1mg) by substitution Method through ABBA cycles	1 kg	3 mg

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95	MECHANICAL-WEIGHTS	Weight of F2 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.01 mg) by substitution Method through ABBA cycles	10 mg	0.011 mg
96	MECHANICAL-WEIGHTS	Weight of F2 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.01 mg) by substitution Method through ABBA cycles	100 mg	0.017 mg
97	MECHANICAL-WEIGHTS	Weight of F2 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.01 mg) by substitution Method through ABBA cycles	2 mg	0.01 mg
98	MECHANICAL-WEIGHTS	Weight of F2 Class & coarser	Using F1 class standard weights and balance of (readability: 10 mg) by substitution Method through ABBA cycles	5 kg	11 mg

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99	MECHANICAL-WEIGHTS	Weight of F2 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.01 mg) by substitution Method through ABBA cycles	5 mg	0.014 mg
100	MECHANICAL-WEIGHTS	Weight of F2 Class & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.01 mg) by substitution Method through ABBA cycles	50 mg	0.015 mg
101	MECHANICAL-WEIGHTS	Weight of F2 Class & coarser	Using F1 class standard weights and balance of (readability: 1mg) by substitution Method through ABBA cycles	500 g	2 mg
102	MECHANICAL-WEIGHTS	Weight of F2 Class Weights & coarser	Using standard weights of E1 & E2 class and balance of (Readability: 0.01 mg) by substitution Method through ABBA cycles	1 mg	0.011 mg

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103	MECHANICAL-WEIGHTS	Weight of M1 Class & coarser	Using F1 class standard weights and balance of (readability: 0.1 g) by substitution Method through ABBA cycles	10 kg	163 mg
104	MECHANICAL-WEIGHTS	Weight of M1 Class & coarser	Using F1 class standard weights and balance of (readability: 10 mg) by substitution Method through ABBA cycles	2 kg	11 mg
105	MECHANICAL-WEIGHTS	Weight of M1 Class & coarser	Using F1 class standard weights and balance of (readability: 0.1 g) by substitution Method through ABBA cycles	20 kg	163 mg
106	THERMAL-TEMPERATURE	Liquid in Glass thermometer, Dial/Digital Thermometer / Temperature Gauge	Using RTD (PT-100) 4 Wire With High Precision Digital Thermometer by using Low Temperature Bath by Comparison Method	(-) 40 °C to 50 °C	0.9 °C

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107	THERMAL-TEMPERATURE	Liquid in Glass thermometer, Dial/Digital Thermometer / Temperature Gauge	Using PT-100 Sensor with Digital Indicator, Oil Bath by Comparison Method	0 °C to 250 °C	2.8 °C
108	THERMAL-TEMPERATURE	RTD Sensor, Thermocouple, Temperature Sensors With or Without Indicator, Data Logger and Recorder	Using PT-100 Sensor with Digital Indicator, Oil Bath by Comparison Method	0 °C to 400 °C	2.4 °C
109	THERMAL-TEMPERATURE	RTD’s, Thermocouple with or without (Controller / Indicator), Digital Thermometer, Temperature Gauge	Using RTD (PT-100) 4 Wire With High Precision Digital Thermometer by using Low Temperature Bath by Comparison Method	(-) 40 °C to 50 °C	0.9 °C
110	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Furnace (Single Position)	Using S-Type Thermocouple with Indicator by comparison method	250 °C to 1200 °C	4.0 °C

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111	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven bath, Environmental Chambers, Water bath, Dry bath, BOD Incubators, Melting Point apparatus, Autoclave (Non medical purpose only) - Single Position	Using PT-100 RTD Sensor with Digital Indicator by Comparison Method	0 °C to 400 °C	3.4 °C
112	THERMAL-TEMPERATURE	Thermocouple With or Without Indicator, Data Logger and Recorder	Using S-Type Thermocouple with Digital Indicator, Dry Bath by Comparison Method	250 °C to 1200 °C	4.5 °C

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Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, RPM Generator (Non Contact Type)	Using Digital Tachometer by Comparison Method	30000 rpm to 99999 rpm	59.4 rpm
2	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Vibrating Machine, Rotating Machine & Indicator, RPM Generator (Contact Type)	Using Digital Tachometer by Comparison Method	10 rpm to 100 rpm	1.34 rpm
3	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Vibrating Machine, Rotating Machine & Indicator, RPM Generator (Contact Type)	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	3.2 rpm
4	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Vibrating Machine, Rotating Machine & Indicator, RPM Generator (Contact Type)	Using Digital Tachometer by Comparison Method	1000 rpm to 7000 rpm	6.4 rpm

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5	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Vibrating Machine, Rotating Machine & Indicator, RPM Generator (Non Contact Type)	Using Digital Tachometer by Comparison Method	10 rpm to 200 rpm	1.33 rpm
6	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Vibrating Machine, Rotating Machine & Indicator, RPM Generator (Non Contact Type)	Using Digital Tachometer by Comparison Method	200 rpm to 10000 rpm	8.1 rpm
7	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Vibrating Machine, Rotating Machine &Indicator, RPM Generator (Non Contact Type)	Using Digital Tachometer by Comparison Method	10000 rpm to 30000 rpm	19.1 rpm
8	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source By Comparison Method	10 rpm to 100 rpm	1.3 rpm
9	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source By Comparison Method	100 rpm to 1000 rpm	3.1 rpm

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10	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source By Comparison Method	1000 rpm to 7000 rpm	6.4 rpm
11	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer and RPM Source By Comparison Method	10 rpm to 200 rpm	1.4 rpm
12	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer and RPM Source By Comparison Method	10000 rpm to 30000 rpm	19.2 rpm
13	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer and RPM Source By Comparison Method	200 rpm to 10000 rpm	8.8 rpm
14	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer and RPM Source By Comparison Method	30000 rpm to 99999 rpm	59.5 rpm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Beam Mould (Distance & Height)	Using Vernier Caliper and Depth Gauge By Direct Method	Upto (150x150x700) mm	23 µm

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16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Pistol Caliper (L.C.: 10 µm)	Using Long Slip Gauge by comparison method	0 to 200 mm	13 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside(Pistol) Caliper (L.C.: 10 µm)	Using Caliper Checker / Length bar by comparison method	0 to 100 mm	10 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape & Scale Calibrator	Using Slip Gauge Box and Long Slip Gauges By Comparison Method	0 to 1000 mm	7 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.01 mm)	Using Long Slip Gauge & Slip Gauge Block Set by Comparison Method	0 to 300 mm	11 µm
20	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Linear Measurement) (L.C.: 1 µm)	Using Glass Scale By Comparison Method	0 to 150 mm	3.6 µm

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21	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Slip Gauge, Vernier caliper By Comparison Method	Up to 50 X	1.45 %
22	MECHANICAL-PRESSURE INDICATING DEVICES	Dial & Digital Pressure Gauge (Hydraulic)	Using Digital Pressure Gauge & Hydraulic Pressure Pump by Comparison method as per DKD-R-6-1	0 bar to 7 bar	0.004 bar
23	MECHANICAL-PRESSURE INDICATING DEVICES	Dial & Digital Pressure Gauge (Hydraulic)	Using Digital Pressure Gauge & Hydraulic Pressure Pump by Comparison method as per DKD-R-6-1	0 bar to 70 bar	0.07 bar
24	MECHANICAL-PRESSURE INDICATING DEVICES	Dial & Digital Pressure Gauge (Hydraulic)	Using Digital Pressure Gauge & Hydraulic Pressure Pump by Comparison method as per DKD-R-6-1	0 bar to 700 bar	0.36 bar
25	MECHANICAL-PRESSURE INDICATING DEVICES	Dial & Digital Vacuum Gauges (Pneumatic)	Using Digital Vacuum Gauge & Pneumatic Vacuum Pump By Comparison Method as per DKD- R- 6-1	(-) 0.94 bar to 0 bar	0.01 bar

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26	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Dial & Digital Pressure Gauge)	Using Digital Pressure Gauge & Pneumatic Pressure Pump by Comparison method as per DKD-R-6-1	0 bar to 40 bar	0.025 bar
27	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine (Class 1 & Coarser): Compression Mode	Using Load cell as per IS 1828: 2022 (Part 1)	0.10 to 5 kN	0.38 %
28	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine (Class 1 & Coarser): Compression Mode	Using Load Cell as per IS 1828: 2022 (Part 1)	2 kN to 200 kN	0.76 %
29	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine (Class 1 & Coarser): Compression Mode	Using Load cell as per IS 1828: 2022 (Part 1)	20 to 1000 kN	0.35 %
30	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine (Class 1 & Coarser): Compression Mode	Using Load Cell as per IS 1828: 2022 (Part 1)	600 kN to 3000 kN	0.35 %

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31	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine (Class 1 & Coarser): Tension Mode	Using Load Cell as per IS 1828: 2022 (Part 1)	0.1 kN to 200 kN	0.76 %
32	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine (Class 1 & Coarser): Tension Mode	Using Load Cell as per IS 1828: 2022 (Part 1)	2 N to 100 N	0.52 %
33	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 0.01 mg & coarser; Class I & coarser)	Using standard weights of E1 & E2 class Based on OIML R 76: 2006	0 to 200 g	0.13 mg
34	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 0.1 g & coarser; Class II & coarser)	Using standard weights of F1 class Based on OIML R 76: 2006	0 to 30 kg	0.2 g
35	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 1 mg & coarser; Class I & coarser)	Using standard weights of F1 class Based on OIML R 76: 2006	0 to 1000 g	15 mg
36	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 10 g & coarser; Class II & coarser)	Using standard weights of F1 & M1 class Based on OIML R 76: 2006	0 to 200 kg	40 g

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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)(±)
37	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 10 mg & coarser; Class II & coarser)	Using standard weights of F1 class Based on OIML R 76: 2006	0 to 6000 g	21 mg
38	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Indicator with sensor of Humidity Chamber, Environmental Chamber, Climatic Chamber (@ 25°C) - Single Position	Using Digital Temperature & Humidity Meter By Comparison Method	15 %rh to 95 %rh	1.25 %rh
39	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Indicator with sensor of Humidity Chamber, Environmental Chamber, Climatic Chamber (@ 50 %rh) - Single Position	Using Digital Temperature & Humidity Meter By Comparison Method	10 °C to 50 °C	0.4 °C
40	THERMAL-TEMPERATURE	Liquid in Glass thermometer, Dial/Digital Thermometer / Temperature Gauge	Using RTD (PT-100) 4 Wire With High Precision Digital Thermometer by using Low Temperature Bath by Comparison Method	(-) 40 °C to 50 °C	0.9 °C

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

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41	THERMAL-TEMPERATURE	Liquid in Glass thermometer, Dial/Digital Thermometer / Temperature Gauge	Using PT-100 Sensor with Digital Indicator, Oil Bath by Comparison Method	0 °C to 250 °C	2.8 °C
42	THERMAL-TEMPERATURE	RTD Sensor, Thermocouple, Temperature Sensors With or Without Indicator, Data Logger and Recorder	Using PT-100 Sensor with Digital Indicator, Oil Bath by Comparison Method	0 °C to 400 °C	2.4 °C
43	THERMAL-TEMPERATURE	RTD’s, Thermocouple with or without (Controller / Indicator), Digital Thermometer, Temperature Gauge	Using RTD (PT-100) 4 Wire With High Precision Digital Thermometer by using Low Temperature Bath by Comparison Method	(-) 40 °C to 50 °C	0.9 °C
44	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Furnace (Single Position)	Using S-Type Thermocouple with Indicator by comparison method	250 °C to 1200 °C	4.0 °C

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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)(±)
45	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven bath, Environmental Chambers, Water bath, Dry bath, BOD Incubators, Melting Point apparatus, Autoclave (Non medical purpose only) - Single Position	Using PT-100 RTD Sensor with Digital Indicator by Comparison Method	0 °C to 400 °C	3.4 °C
46	THERMAL-TEMPERATURE	Thermocouple With or Without Indicator, Data Logger and Recorder	Using S-Type Thermocouple with Digital Indicator, Dry Bath by Comparison Method	250 °C to 1200 °C	4.5 °C

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