



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	WORLD ONE INSTRUMENTS, #42, M.E.C LAYOUT, 8TH CROSS, DUGGALAMMA TEMPLE ROAD, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-3196	Page No	1 of 103
Validity	15/12/2022 to 14/12/2024	Last Amended on	18/05/2023

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)(±)
LOCATION 1-#42, M.E.C LAYOUT, 8TH CROSS, DUGGALAMMA TEMPLE ROAD, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Total Runout)	Using ULM, Gauge Blocks, Lever type dial gauge and Bench Centre by Comparison method	0 to 300 mm length	2.3µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	'V' Block (Symmetricity)	Using Straight Mandrel, Lever Type Dial Gauge, Square master & Surface plate by Comparison method	150 mm x100 mm x100 mm	8.53µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	'V' Block (Flatness)	Using Straight Mandrel, Lever Type Dial Gauge, Square master & Surface plate by Comparison method	150 mm x100 mm x100 mm	5.1µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	'V' Block (Parallelism)	Using Straight Mandrel, Lever Type Dial Gauge, Square master & Surface plate by Comparison method	150 mmx100 mm x100mm	5.1µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	'V' Block (Squareness)	Using Straight Mandrel, Lever Type Dial Gauge, Square master & Surface plate by Comparison method	150 mm x100mm x100 mm	8.53µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit (Linearity) L.C: 0.1 µm	Using Setting Plug/ Ring by Comparison method	0 to 0.08 mm	1.8µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co-axiality)	Using Test Mandrel and Lever dial gauge by Comparison method	0 to 300 mm	5.13µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel protector/Combination Set / Angle Protractor L.C: 5'	Using Profile Projector by Comparison method	0° to 360°	6.81minute of arc
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (2 point) Transmission Only L.C: 0.001 mm	Using Electronic Dial Calibration Tester by Comparison method	Up to 2.0 mm Transmission	1.92µm



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier/Dial/Digital) L.C: 0.01 mm	Using Gauge Blocks & Long gauge blocks by Comparison method	Up to 1000 mm	11.52µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier/Dial/Digital) L.C: 0.02 mm	Using Gauge Blocks & Long gauge blocks by Comparison method	0 to 2000 mm	19.96µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set L.C: 1°	Using Profile Projector by Comparison method	(0-90-0)°	35.04minute of Arc
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand Up to 300 mm x 300 mm (Flatness)	Using Optical Flat / Lever Dial Gauge by Comparison method	Up to 300x300 mm	3.05µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical setting master (Diameter and Runout)	Using Length measuring machine, Gauge blocks and Bench Centre by Comparison method	3 mm to 300 mm	Diameter: 1.7µm, Run out: 5.6µm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauges (Vernier/Dial/Digital) L.C: 0.01 mm	Using Gauge Blocks & Depth Checker by Comparison method	0 to 300 mm	11.69µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C: 0.001 mm	Using Gauge Blocks & Depth Checker by Comparison method	0 to 300 mm	9.69µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap / Snap Gauge /Gap Gauge/Thickness Gauge (Gap size & Parallelism of Working Faces) L.C: 0.001 mm	Using Grade '0' Gauge Blocks by Comparison method	Up to 300 mm	6.0µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Comparator L.C: 0.5 µm	Using Electronic Dial Calibration Tester by Comparison method	0 to 100 µm	1.75µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel (Height Difference of pair)	Using Surface Plate, Gauge blocks & Lever Type Dial Gauge by Comparison method	0 to 500 mm	5.21µm



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel (Parallelism)	Using Surface Plate, Gauge blocks & Electronic probe with comparator stand by Comparison method	0 to 500 mm	5.20µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel (Thickness)	Using Surface Plate, Gauge blocks & Lever Type Dial Gauge by Comparison method	0 to 500 mm	5.20µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel (Width)	Using Surface Plate, Gauge blocks & Lever Type Dial Gauge by Comparison method	0 to 500 mm	5.20µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C: 0.001 mm	Using Gauge Blocks, Long Gauge Blocks by Comparison method	0 to 300 mm	2.42µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer, L.C: 0.001 mm	Using Gauge Blocks, Long Gauge Blocks by Comparison method	300 mm to 800 mm	9.38µm



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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Universal Length Measuring Machine by Comparison method	0.01 mm to 1.0 mm	1.0µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Fillet Gauge/Form Gauge	Using Profile Projector by Comparison method	0 to 200 mm	4.81µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Fillet Gauge/Form Gauge	Using Profile Projector by Comparison method	0° to 180°	5.30minute
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge & Length / Elongation Gauge (Gap Size)	Using Profile projector and Digital Caliper by Comparison method	0 to 100 mm	15.0µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block Accessory Set (Flatness)	Using Optical Flat/Measuring Pin Surface Plate & Electronic Comparator by Comparison method	0 to 35 mm	1.2µm



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30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block Accessory Set (Parallelism)	Using Optical Flat/Measuring Pin Surface Plate & Electronic Comparator by Comparison method	0 to 35 mm	1.23µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block Accessory Set (Width)	Using Optical Flat/Measuring Pin Surface Plate & Electronic Comparator by Comparison method	0 to 35 mm	1.50µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial Caliper Gauge (Int/Ext) L.C: 0.01mm	Using Grade '0' Gauge Blocks and Gauge block accessories by Comparison method	10 mm to 150 mm	6.92µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegmen Gauge	Using Plunger Dial Gauge by Comparison method	0 to 0.1 mm	3.27µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C: 0.01 mm	Using Gauge Blocks & Long gauge blocks by Comparison method	0 to 1000 mm	9.89µm



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35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer / Digital Level / Angle Level L.C: 0.01'	Using Tilting Table & Angle gauge blocks by Comparison method	10° to 90°	1.5minute
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal / Stick Micrometer L.C: 0.01 mm	Using Gauge Blocks, Long gauge blocks, Gauge Block Accessories & Electronic probe (L.C: 0.1 µm) by Comparison method	5 mm to 1000 mm	6.86µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Laser Distance Meter L.C: 0.1 mm	Using Gauge block set and long Gauge block set by Comparison method	0 to 2000 mm	32.02µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C: 0.001mm & 0.01mm	Using Electronic Dial Calibration Tester by Comparison method	0 to 2 mm	6.09µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit/pcd Gauge (Angle)	Using Profile Projector by Comparison method	0° to 360°	5.30minute



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40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit/pcd Gauge Diameter/Radius	Using Profile Projector by Comparison method	Up to 200 mm	5.18µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit/pcd Gauge Length/Width	Using Profile Projector by Comparison method	0 to 200 mm	5.18µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Foils	Using Universal Length Measuring Machine by Comparison method	10 µm to 2 mm	1.67µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring pin	Using Length Measuring Machine by Comparison method	0.1 mm to 20 mm	1.0µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C: 1 mm)	Using Tape and Scale calibrator by Comparison method	0 to 50 m	296.3xSQRT(L)µm where L in m



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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Gauge Blocks, Electronic comparator by Comparison method	0 to 800 mm	3.7µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Gauge Blocks and Electronic comparator by Comparison method	800 mm to 2000 mm	14.73µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mould (Cube Mould / Rectangular Mould / Cylindrical Mould / Container)	Using Digital Caliper by Comparison method	20 mm to 300 mm	15.02µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer L.C: 0.1 mm	Using Standard Slip Gauge block Set by Comparison method	0 to 50 mm	63.8µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape L.C: 0.1 mm	Using Scale Calibrator by Comparison method	Up to 3000 mm	60*SQRT(L) µm, where L in mm



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50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper Gauge L.C: 0.01 mm	Using Grade '0' Gauge Blocks by Comparison method	0 to 50 mm	32µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/ OD Master	Using Length Measuring Machine by Comparison method	>100 mm to 300 mm	2.4µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN PLUG GAUGE/ OD MASTER/ Pin Gauge	Using Length Measuring Machine by Comparison method	0.5 mm to 100 mm	0.8µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge (Fixed / Adjustable)	Using Gauge Blocks & Long gauge blocks by Comparison method	1 mm to 300 mm	3.03µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/Setting Ring Gauges	Using Length Measuring Machine by Comparison method	>100 mm to 300 mm	3.47µm



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55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/Setting Ring Gauges	Using Length Measuring M/c. by comparison method	3 mm to 100 mm	2.2µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (Analog/Digital) L.C: 0.001 mm	Using Electronic Dial calibration tester & Gauge blocks and comparator stand by Comparison method	0 to 100 mm	1.95µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (Analog/Digital) L.C: 0.01 mm	Using Electronic Dial calibration tester & Gauge blocks and comparator stand by Comparison method	0 to 100 mm	2.0µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius gauge	Using Profile Projector by Comparison method	0.25 mm to 50 mm	4.12µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Riser Block	Using Electronic Comparator & Grade '0' Gauge blocks by Comparison method	0 to 200 mm	1.9µm



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60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale L.C: 0.5 mm	Using Scale Calibrator by Comparison method	0 to 2000 mm	59xSQRT(L)µm where L in m
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sheet Metal Protractor L.C: 1°	Using Profile Projector by Comparison method	0° to 360°	5.3minute
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone (Diameter / Height)	Using Digital Vernier Caliper by Comparison method	50 mm to 300 mm	35µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Special gauges / Industrial inspection Gauges - Limit gauges	Using Profile projector, Gauge blocks, Lever Dial, Plunge Dial by Comparison method	0 to 200 mm	4.81µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Special gauges / Industrial inspection Gauges - PCD Gauges	Using Profile projector, Gauge Blocks, Lever Dial, Plunger Dial by Comparison method	0 to 200 mm	4.76µm



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65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Special gauges / Industrial inspection Gauges - Receiver Gauges	Using Profile projector, Gauge Blocks, Lever Dial, Plunger Dial by Comparison method	0 to 200 mm	4.79µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Special gauges / Industrial inspection Gauges - CD Gauges	Using Profile projector, Gauge Blocks, Lever Dial, Plunger Dial by Comparison method	0 to 200 mm	4µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level/ frame Level/ bubble level/ Electronic level L.C: 0.001mm/m	Using Precision Level and Tilting Table by Comparison method	600 mm/m	7.06µm/m
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight edge (Parallelism of working face)	Using Surface Plate & Dial Indicator/ Precision Level by Comparison method	0 to 1000 mm	6.38µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight edge (Straightness of working faces)	Using Surface Plate & Dial Indicator/ Precision Level by Comparison method	0 to 1000 mm	6.38µm



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70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite / Cast Iron)	Using Precision Level by Comparison method	3000 x 3000 mm	$2 \times \text{SQRT}((W+L)/100)$ μm , where L & W in mm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Specimen (Ra Rz & Rmax Values)	Using Surface Roughness Tester (Stand Alone unit) & Master Specimen by Comparison method	Up to 12.5 μm	4.6%
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Tester (3 Values) Ra Rz & Rmax Values	Using Surface Roughness Specimen & Depth Master by Comparison method	Up to 12.5 μm	5.64%
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale L.C: 0.1 mm	Using Profile Projector by Comparison method	0 to 15 mm	59.0 μm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Angle)	Using Length Measuring Machine by Comparison method	0° to 180°	3.8s



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75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective diameter)	Using Length Measuring Machine by Comparison method	0 to 100 mm	1.4µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Angle)	Using Length Measuring Machine by Comparison method	0° to 180°	3.8s
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective diameter)	Using Length Measuring Machine by Comparison method	0 to 100 mm	1.4µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template	Using Digital Profile Projector by Comparison method	0 to 200 mm	3µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Diameter)	Using ULM, Gauge Blocks, Lever type dial gauge and Bench Centre by Comparison method	0 to 300 mm length	2.4µm



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80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Straightness)	Using ULM, Gauge Blocks, Lever type dial gauge and Bench Centre by Comparison method	0 to 300 mm length	2.1µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by Comparison method	20 µm to 20 mm	5.8µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Vernier Caliper by Comparison method	20 mm to 125 mm	19µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Length Measuring Machine by Comparison method	0.17 mm to 7.5 mm	0.8µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angle)	Using Profile Projector by Comparison method	60°	6.81minute of arc



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85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector by Comparison method	Up to 6 mm	3.8µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauges / Wear Check Plug Gauges (Effective Diameter only)	Using Length Measuring Machine by Comparison method	>100 mm to 300 mm	3.2µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauges / Wear Check Plug Gauges (Effective Diameter only)	Using Length Measuring Machine by Comparison method	2 mm to 100 mm	1.4µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective diameter)	Using Length Measuring Machine by Comparison method	>100 mm to 300 mm	3.95µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective diameter)	Using Length Measuring Machine by Comparison method	2 mm to 100 mm	0.83µm



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90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three point micrometer L.C: 0.001 mm	Using Setting ring gauges by Comparison method	5 mm to 125 mm	3.1µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tri Square (Parallelism)	Using Granite Square, Gauge Blocks, Comparator stand, Lever Dial Gauge by Comparison method	0 to 300 mm	6µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TRI SQUARE (Squareness)	Using Granite Square, Gauge Blocks, Comparator stand, Lever Dial Gauge by Comparison method	0 to 300 mm	7.6µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tri Square (Straightness)	Using Granite Square, Gauge Blocks, Comparator stand, Lever Dial Gauge by Comparison method	0 to 300 mm	3.8µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C: 0.1 mm	Using Grade '0' Gauge Blocks by Comparison method	0 to 200 mm	57.74µm



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95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Fillet Gauge, Templates, Vickers/Knoop/ Rockwell Diamond Cone Indenter/ Weld/ Hi-Lo gauge, bridge cam gauge /Traverse of cupping machine /Limit Gauges/CD Gauge/PCD Gauge /Welding Gauge	Using Profile Projector by Comparison method	Up to 200 mm	5.4µm
96	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	1D/2D Electronic Height Gauge L.C: 0.0001 mm (Linear)	Using Caliper checker, Gauge Block set and Square master by Comparison method	0 to 1000 mm	7.28µm
97	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	1D/2D Electronic Height Gauge L.C: 0.0001 mm (Squareness)	Using Caliper checker, Gauge Block set and Square master by Comparison method	0 to 1000 mm	8.71µm
98	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Gauge Blocks, Surface plate & Electronic Comparator with Probe by Comparison method	0 to 600 mm	5µm



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99	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Gauge Blocks, Surface plate & Electronic Comparator with Probe by Comparison method	Up to 1000 mm	7.6µm
100	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester L.C: 0.0001 mm	Using Gauge Blocks & Electronic Comparator by Comparison method	Up to 25 mm	0.95µm
101	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe / LVDT Probe L.C: 0.0001 mm	Using Grade '0' Gauge Blocks by Comparison method	0 to 100 mm	3.0µm
102	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length bar	Using Length Measuring Machine by Comparison method	>100 mm to 200 mm	1.2µm
103	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length bar	Using Length Measuring Machine with Electronic probe with indicator by Comparison method	>200 mm to 600 mm	7.33µm
104	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Lever Type Electronic Probe with DRO L.C: 0.0001 mm & Coarser	Using Length Measuring Machine by Comparison method	0 to 2 mm	0.8µm



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105	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT/Extensometer used in Material Testing, Extensometer Calibrator (Resolution: 0.1 µm) Gauge Length: Up to 200 mm	Using Precision digital length measuring instruments in a specially designed fixture by Comparison method	Up to 25 mm	1.4µm
106	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Precision Angular glass Gaticule L.C: 1°	Using Profile Projector by Comparison method	0° to 360°	5.30minute
107	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video measuring System/Microscope : Angular	Using Precision glass Gaticule by Comparison method	0° to 360°	5.1minute of arc
108	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video measuring System/ Microscope :Magnification	Using Grade '0' Gauge Blocks and Digital Vernier by Comparison method	1X to 100X	0.32%
109	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video measuring System/ Microscope: Linear XYZ Axis L.C: 0.1 µm	Using Precision Glass scale and Grade '0' Gauge Blocks by Comparison method	400x350 mm	3.6µm
110	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale / Tape calibrator	Using Gauge blocks and long gauge blocks by Comparison method	Up to 1000 mm	4.42µm



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111	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (ULM) L.C: 0.1 µm	Using Long Gauge blocks by Comparison method	0 to 100 mm	0.76µm
112	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (ULM) L.C: 0.0001 mm	Using Slip Gauge Blocks by Comparison method	100 mm to 500 mm	2.49µm
113	MECHANICAL-DUROMETER	Durometers - Shore A	Using Load cell with digital indicator and Fixture Frame as per ASTM D2240-2016	0 to 100 Shore A	0.92Shore A
114	MECHANICAL-DUROMETER	Durometers - Shore D	Using Load cell with digital indicator and Fixture Frame as per ASTM D2240-2016	0 to 100 Shore D	0.92Shore D
115	MECHANICAL-PRESSURE INDICATING DEVICES	Barometric Pressure (Analog / Dial / Digital Barometer, Barometric Transmitter / Switch)	Using Precision Absolute Pressure Gauge, Desicators, Pneumatic Vacuum & Pressure Pump & Digital Multimeter as a readout device for Transmitters by Comparison method as per DKD R6-1	15 mbar abs to 2000 mbar abs	1.39mbar



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116	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital and Dial Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder)	Using Precision Pressure Pressure indicator with Hydraulic pump & Digital Multimeter as a readout device for Transmitters by Comparison method as per DKD R 6-1	0 to 1000 bar	0.17bar
117	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital and Dial Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder)	Using Pressure indicator with Hydraulic pump & Digital Multimeter as a readout device for Transmitters by Comparison method as per DKD R 6-1	0 to 400 bar	0.14bar



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118	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Digital/Dial Pressure/ Gauge Pressure / Gauge Vacuum Digital / Analog Pressure Gauge, Pressure Transducer / Sensor / Transmitter / Switch / Indicators	Using Precision Pressure Pressure Calibrator & Digital Multimeter as a readout device for Transmitters by Comparison method as per DKD R 6-1	0 to 19600 Pa	10.04 Pa
119	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Digital/Dial Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Manometer, Pressure Transmitter, Pressure Transducer, Pressure Switch	Using Digital precision Pressure Calibrator & indicator with pneumatic pump & Digital Multimeter as a readout device for Transmitters by Comparison method as per DKD R 6-1	0 to 35 bar	0.006bar



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120	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Vacuum Gauge (Digital / Analog Pressure Gauge, Pressure Transducer/Pressure Sensor /Pressure Transmitter /Pressure Switch/ Pressure Indicators /Pressure Calibrators /Pressure Controllers, Magnehelic Gauge, Differential Pressure Gauge	Using Precision Pressure calibrator & Digital Multimeter as a readout device for Transmitters by Comparison method as per DKD R 6-1	(-)-500 mbar to (+)500 mbar	0.34mbar
121	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum (Vacuum Indicator, Vacuum Calibrator, Vacuum Controller, Vacuum Transmitter, Vacuum Transducer, Vacuum Switch, Vacuum Recorder)	Using Digital precision Pressure indicator with pneumatic pump & Digital Multimeter as a readout device for Transmitters by Comparison method as per DKD R 6-1	-0.9 bar to 0 bar	0.001bar



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122	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches, Torque Driver, Torque tools Indicating Type I Class A,B,C,D,E & Torque setting Type II, Class A,B,C,D,E,F,G	Using Torque wrench Calibrator as per ISO 6789:2017 (Part 1 & 2)	0.5 Nm to 2 Nm	2.28%
123	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches, Torque Driver, Torque tools Indicating Type I Class A,B,C,D,E & Torque setting Type II, Class A,B,C,D,E,F,G	Using Torque wrench Calibrator as per ISO 6789:2017 (Part 1 & 2)	2 Nm to 2000 Nm	0.86%
124	MECHANICAL-VOLUME	Calibration of Piston pipette (Micropipettes)	Using Weighing balance 5g and 21g with readability 0.001mg and distilled water of known density by Gravimetric method as per ISO 8655-6	1000 µl to 2000 µl	0.48µl



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125	MECHANICAL-VOLUME	Calibration of Piston pipette (Micropipettes)	Using Weighing balance 5g and 21g with readability 0.001mg and distilled water of known density by Gravimetric method as per ISO 8655-6	2000 µl to 10000 µl	6.3µl
126	MECHANICAL-VOLUME	Calibration of Piston pipette (Micropipettes), Syringes (Non Medical purpose only)	Using Weighing balance 5g and 21g with readability 0.001mg and distilled water of known density by Gravimetric method as per ISO 8655-6	1 µl to 10 µl	0.026µl
127	MECHANICAL-VOLUME	Calibration of Piston pipette (Micropipettes), Syringes (Non Medical purpose only)	Using Weighing balance 5g and 21g with readability 0.001mg and distilled water of known density by Gravimetric method as per ISO 8655-6	10 µl to 100 µl	0.15µl



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128	MECHANICAL-VOLUME	Calibration of Piston pipette (Micropipettes), Syringes (Non Medical purpose only)	Using Weighing balance 5g and 21g with readability 0.001mg and distilled water of known density by Gravimetric method as per ISO 8655-6	100 µl to 1000 µl	0.48µl
129	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, burette, Measuring Cylinder, Volumetric flask, conical flask, beaker	Using Weighing balance 5g/210g/6100g with readability 0.001/0.01mg, 0.01g and distilled water of known density As per ISO 4787 & ISO/TR 20461 by Gravimetric Method	1000 ml to 2000 ml	0.044ml
130	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, burette, Measuring Cylinder, Volumetric flask, conical flask, beaker	Using Weighing balance 5g/210g/6100g/21kg with readability 0.001/0.01mg, 0.01g,0.1g and distilled water of known density As per ISO 4787 & ISO/TR 20461 by Gravimetric Method	5000 ml to 10 l	0.32ml



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131	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, burette, Measuring Cylinder, Volumetric flask, conical flask, beaker	Using Weighing balance 5g/210g/6100g with readability 0.001/0.01mg, 0.01g and distilled water of known density as per ISO 4787 & ISO/TR 20461 by Gravimetric method	2000 ml to 5000 ml	0.073ml
132	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, Burette, Measuring Cylinder, Volumetric flask, Conical flask, Beaker	Using Weighing balance 5g/210g/6100g with readability 0.001/0.01mg, 0.01g and distilled water of known density as per ISO 4787 & ISO/TR 20461 by Gravimetric method	1 ml to 10 ml	0.004ml
133	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, Burette, Measuring Cylinder, Volumetric flask, Conical flask, Beaker	Using Weighing balance 5g/210g/6100g with readability 0.001/0.01mg, 0.01g and distilled water of known density as per ISO 4787 & ISO/TR 20461 by Gravimetric method	10 ml to 100 ml	0.005ml



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134	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, burette, Measuring Cylinder, Volumetric flask, Conical flask, Beaker	Using Weighing balance 5g/210g/6100g with readability 0.001/0.01mg, 0.01g and distilled water of known density as per ISO 4787 & ISO/TR 20461 by Gravimetric method	100 ml to 1000 ml	0.02ml
135	MECHANICAL-VOLUME	Hydrometer	Using Precision Hydrometer 0.0005 g/ml & Appropriate liquid as per IS 3104 (I & II) by Comparison method	0.600 g/ml to 1.050 g/ml	0.001g/ml
136	MECHANICAL-VOLUME	Hydrometer	Using Precision Hydrometer 0.0005 g/ml & Appropriate liquid as per IS 3104 (I & II) by Comparison method	1.0 g/ml to 2.0 g/ml	0.001g/ml
137	MECHANICAL-WEIGHING SCALE AND BALANCE	Calibration of Class I (d = 0.01mg) and coarser balances	Using E1 Class Standard Weights (1mg to 200g) as per OIML R-76	>21 g to 220 g	0.049mg
138	MECHANICAL-WEIGHING SCALE AND BALANCE	Calibration of Class III weighing balances and d = 0.1g	Using E2 Class Standard Weights (>200g to 20kg) as per OIML R-76	>21 kg to 60 kg	0.18g



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139	MECHANICAL-WEIGHING SCALE AND BALANCE	Calibration of Class III weighing balances and d = 0.1kg	Using M1 Class Standard Weights (10kg & 20kg) as per OIML R-76	>300 kg to 1000 kg	73g
140	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser d= 0.001 mg	Using E1 Class Standard Weights 1 mg to 200 g as per OIML R-76	1 mg to 21 g	0.006mg
141	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser d= 0.001 mg	Using E1 Class Standard Weights 1 mg to 200 g as per OIML R-76	1 mg to 5 g	0.004mg
142	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class III and Coarser d>= 100 g	Using F1 and M1 class up to 2000 kg as per OIML R-76	1 kg to 2000 kg	200g
143	MECHANICAL-WEIGHING SCALE AND BALANCE	MASS Class II Electronic Weighing Balances & Mass Comparators (L.C: 10 mg)	Using E1 Class Standard Weights as per OIML R- 76	0.01 g to 5 kg	6.87mg
144	MECHANICAL-WEIGHING SCALE AND BALANCE	MASS Class II Electronic Weighing Balances & Mass Comparators (L.C: 0.01g)	Using E1 and E2 Class Reference Standard Weights as per OIML R- 76	0.01 g to 25 kg	11mg



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145	MECHANICAL-WEIGHING SCALE AND BALANCE	MASS Class III Electronic Weighing Balances & Mass Comparators (L.C: 0.01kg)	Using F1 and M1 Class Reference Standard Weights as per OIML R- 76	0.010 kg to 300 kg	33g
146	MECHANICAL-WEIGHTS	Calibration of F1 Class weights and coarser	Using std Weights E1 class and Electronic balance (repeatability 0.001gm) as per OIML R-111:2004 through ABBA cycle by Substitution method	1 kg	0.85mg
147	MECHANICAL-WEIGHTS	Calibration of F1 Class weights and coarser	Using std Weights E2 class and Electronic balance (repeatability 0.01gm) as per OIML R-111:2004 through ABBA cycle by Substitution method	10 kg	12mg
148	MECHANICAL-WEIGHTS	Calibration of F1 Class weights and coarser	Using std Weights E1 class and Electronic balance (repeatability 0.001gm) as per OIML R-111:2004 through ABBA cycle by Substitution method	2 kg	1.5mg



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149	MECHANICAL-WEIGHTS	Calibration of F1 Class weights and coarser	Using std Weights E2 class and Electronic balance (repeatability 0.01gm) as per OIML R-111:2004 through ABBA cycle by Substitution method	20 kg	14mg
150	MECHANICAL-WEIGHTS	calibration of F1 Class weights and coarser	Using std Weights E1 class and Electronic balance (repeatability 0.001gm) as per OIML R-111:2004 through ABBA cycle by Substitution method	5 kg	8.3mg
151	MECHANICAL-WEIGHTS	Calibration of F1 Class weights and coarser	Using std Weights E1 class and Electronic balance (repeatability 0.001gm) as per OIML R-111:2004 through ABBA cycle by Substitution method	500 g	0.71mg



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152	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using std Weights E1 class and Micro balance (repeatability 0.001mg) as per OIML R-111:2004 through ABBA cycle by Substitution method	1 g	0.003mg
153	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using E1 Class Weights and Micro Balance (readability: 0.001 mg) as per OIML R-111 : 2004 through ABBA Cycles by Subdivision & Substitution method	1 mg	0.002mg
154	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using std Weights E1 class and Micro balance (repeatability 0.001mg) as per OIML R111:2004 through ABBA cycle by Substitution method	10 g	0.009mg



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155	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using std Weights E1 class and Micro balance (repeatability 0.001mg) as per OIML R-111:2004 through ABBA cycle by Subdivision & Substitution method	10 mg	0.002mg
156	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using std Weights E1 class and Semi Micro balance (repeatability 0.01mg) as per OIML R111:2004 through ABBA cycle by Substitution method	100 g	0.03mg
157	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using std Weights E1 class and Micro balance (repeatability 0.001mg) as per OIML R-111:2004 through ABBA cycle by Subdivision & Substitution method	100 mg	0.002mg



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158	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using std Weights E1 class and Micro balance (repeatability 0.001mg) as per OIML R-111:2004 through ABBA cycle by Substitution method	2 g	0.004mg
159	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using E1 Class Weights and Micro Balance (L.C: 0.001 mg) as per OIML R-111 : 2004 through ABBA Cycles by Subdivision & Substitution method	2 mg	0.002mg
160	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using std Weights E1 class and Micro balance (repeatability 0.001mg) as per OIML R-111:2004 through ABBA cycle by Substitution method	20 g	0.011mg



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161	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using std Weights E1 class and Micro balance(repeatability 0.001mg) as per OIML R-111:2004 through ABBA cycle by Subdivision & Substitution method	20 mg	0.002mg
162	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using std Weights E1 class and Semi Micro balance (repeatability 0.01mg) as per OIML R111:2004 through ABBA cycle by Substitution method	200 g	0.035mg
163	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using std Weights E1 class and Micro balance(repeatability 0.001mg) as per OIML R-111:2004 through ABBA cycle by Subdivision & Substitution method	200 mg	0.002mg



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164	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using std Weights E1 class and Micro balance (repeatability 0.001mg) as per OIML R-111:2004 through ABBA cycle by Substitution method	5 g	0.005mg
165	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using std Weights E1 class and Micro balance(repeatability 0.001mg) as per OIML R-111:2004 through ABBA cycle by Subdivision & Substitution method	5 mg	0.002mg
166	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using std Weights E1 class and Semi Micro balance (repeatability 0.01mg) as per OIML R111:2004 through ABBA cycle by Substitution method	50 g	0.02mg



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167	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using std Weights E1 class and Micro balance(repeatability 0.001mg) as per OIML R-111:2004 through ABBA cycle by Subdivision & Substitution method	50 mg	0.002mg
168	MECHANICAL-WEIGHTS	Weights E2 Class and coarser	Using std Weights E1 class and Micro balance (repeatability 0.001mg) as per OIML R-111:2004 through ABBA cycle by Subdivision & Substitution method	500 mg	0.002mg



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LOCATION 1-#42, M.E.C LAYOUT, 8TH CROSS, DUGGALAMMA TEMPLE ROAD, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co-axiality)	Using Test Mandrel and Lever dial gauge by Comparison method	0 to 300 mm	5.13µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mould (Cube Mould / Rectangular Mould / Cylindrical Mould / Container)	Using Digital Caliper by Comparison method	20 mm to 300 mm	15.02µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite / Cast Iron)	Using Precision Level by Comparison method	3000 x 3000 mm	2xSQRT((W+L)/100) µm, where L & W in mm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Specimen (Ra Rz & Rmax Values)	Using Surface Roughness Tester (Stand Alone unit) & Master Specimen by Comparison method	Up to 12.5 µm	4.6%



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Tester (3 Values) Ra Rz & Rmax Values	Using Surface Roughness Specimen & Depth Master by Comparison method	Up to 12.5 µm	5.64%
6	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	1D/2D Electronic Height Gauge L.C: 0.0001 mm (Linear)	Using Caliper checker, Gauge Block set and Square master by Comparison method	0 to 1000 mm	7.28µm
7	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	1D/2D Electronic Height Gauge L.C: 0.0001 mm (Squareness)	Using Caliper checker, Gauge Block set and Square master by Comparison method	0 to 1000 mm	8.71µm
8	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Coordinate Measuring Machine (CMM)	Using Test Sphere, Long Slip Gauge Block and Tilting table by Comparison method	1000x1200x600 mm	1.3+L/160 µm, where L in mm
9	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT/Extensometer used in Material Testing, Extensometer Calibrator (Resolution: 0.1 µm) Gauge Length: Up to 200 mm	Using Precision digital length measuring instruments in a specially designed fixture by Comparison method	Up to 25 mm	1.4µm



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10	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video measuring System/Microscope : Angular	Using Precision glass Graticule by Comparison method	0° to 360°	5.1minute of arc
11	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video measuring System/ Microscope :Magnification	Using Grade '0' Gauge Blocks and Digital Vernier by Comparison method	1X to 100X	0.32%
12	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video measuring System/ Microscope: Linear XYZ Axis L.C: 0.1 µm	Using Precision Glass scale and Grade '0' Gauge Blocks by Comparison method	400x350 mm	3.6µm
13	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale / Tape calibrator	Using Gauge blocks and long gauge blocks by Comparison method	Up to 1000 mm	4.42µm
14	MECHANICAL-PRESSURE INDICATING DEVICES	Barometric Pressure (Analog / Dial / Digital Barometer, Barometric Transmitter / Switch)	Using Precision Absolute Pressure Gauge, Desicators, Pneumatic Vacuum & Pressure Pump & Digital Multimeter as a readout device for Transmitters by Comparison method as per DKD R6-1	15 mbar abs to 2000 mbar abs	1.39mbar



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15	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital and Dial Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder)	Using Precision Pressure Pressure indicator with Hydraulic pump & Digital Multimeter as a readout device for Transmitters by Comparison method as per DKD R 6-1	0 to 1000 bar	0.17bar
16	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital and Dial Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder)	Using Pressure indicator with Hydraulic pump & Digital Multimeter as a readout device for Transmitters by Comparison method as per DKD R 6-1	0 to 400 bar	0.14bar



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17	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Digital/Dial Pressure/ Gauge Pressure / Gauge Vacuum Digital / Analog Pressure Gauge, Pressure Transducer / Sensor / Transmitter / Switch / Indicators	Using Precision Pressure Pressure Calibrator & Digital Multimeter as a readout device for Transmitters by Comparison method as per DKD R 6-1	0 to 19600 Pa	10.04 Pa
18	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Digital/Dial Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Manometer, Pressure Transmitter, Pressure Transducer, Pressure Switch	Using Digital precision Pressure Calibrator & indicator with pneumatic pump & Digital Multimeter as a readout device for Transmitters by Comparison method as per DKD R 6-1	0 to 35 bar	0.006bar



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19	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Vacuum Gauge (Digital / Analog Pressure Gauge, Pressure Transducer/Pressure Sensor /Pressure Transmitter /Pressure Switch/ Pressure Indicators /Pressure Calibrators /Pressure Controllers, Magnehelic Gauge, Differential Pressure Gauge	Using Precision Pressure calibrator & Digital Multimeter as a readout device for Transmitters by Comparison method as per DKD R 6-1	(-)500 mbar to (+)500 mbar	0.34mbar
20	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum (Vacuum Indicator, Vacuum Calibrator, Vacuum Controller, Vacuum Transmitter, Vacuum Transducer, Vacuum Switch, Vacuum Recorder)	Using Digital precision Pressure indicator with pneumatic pump & Digital Multimeter as a readout device for Transmitters by Comparison method as per DKD R 6-1	-0.9 bar to 0 bar	0.001bar



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21	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression / Universal Testing Machine, CBR Apparatus Spring Testing Machine, Flexural Testing Machine (Compression Mode)	Using Load Cell with Digital indicator of 100000 count as per the IS 1828:2022 Part 1 / ISO 7500-1 2018	200 kN to 2000 kN	0.52%
22	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression / Universal Testing Machine, CBR Apparatus, Spring Testing Machine, Direct shear, Marshall test apparatus, Flexural Testing Machine (Compression Mode)	Using Load Cell with Digital indicator of 100000 count as per the IS 1828:2022 Part 1 / ISO 7500-1 2018	5 N to 200 kN	0.32%
23	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression / Universal Testing Machine, Spring Testing Machine, Direct shear, Marshall test apparatus, Flexural Testing Machine (Compression and Tension mode)	Using Load Cell with Digital Indicator of 100000 count as per the IS 1828:2022 Part 1 / ISO 7500-1 2018	5 N to 50 kN	0.62%



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24	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Displacement Measuring System and Devices used in Material Testing Machine	Using Precision height gauge- length measuring instruments as per ASTM E 2309	0 to 1000 mm	0.014mm
25	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Speed for Material Testing Machine	Using Precision height gauge, Length Measuring Instruments & Electronic Stopwatch as per ASTM E 2658	1 mm/minute to 1000 mm/minute	0.56mm/minute
26	MECHANICAL-WEIGHING SCALE AND BALANCE	Calibration of Class I (d = 0.01mg) and coarser balances	Using E1 Class Standard Weights (1mg to 200g) as per OIML R-76	>21 g to 220 g	0.049mg
27	MECHANICAL-WEIGHING SCALE AND BALANCE	Calibration of Class III weighing balances and d = 0.1g	Using E2 Class Standard Weights (>200g to 20kg) as per OIML R-76	>21 kg to 60 kg	0.18g
28	MECHANICAL-WEIGHING SCALE AND BALANCE	Calibration of Class IIIII weighing balances and d = 0.1kg	Using M1 Class Standard Weights (10kg & 20kg) as per OIML R-76	>300 kg to 1000 kg	73g
29	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser d= 0.001 mg	Using E1 Class Standard Weights 1 mg to 200 g as per OIML R-76	1 mg to 21 g	0.006mg



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30	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser d= 0.001 mg	Using E1 Class Standard Weights 1 mg to 200 g as per OIML R-76	1 mg to 5 g	0.004mg
31	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class III and Coarser d>= 100 g	Using F1 and M1 class up to 2000 kg as per OIML R-76	1 kg to 2000 kg	200g
32	MECHANICAL-WEIGHING SCALE AND BALANCE	MASS Class II Electronic Weighing Balances & Mass Comparators (L.C: 10 mg)	Using E1 Class Standard Weights as per OIML R- 76	0.01 g to 5 kg	6.87mg
33	MECHANICAL-WEIGHING SCALE AND BALANCE	MASS Class II Electronic Weighing Balances & Mass Comparators (L.C: 0.01g)	Using E1 and E2 Class Reference Standard Weights as per OIML R- 76	0.01 g to 25 kg	11mg
34	MECHANICAL-WEIGHING SCALE AND BALANCE	MASS Class III Electronic Weighing Balances & Mass Comparators (L.C: 0.01kg)	Using F1 and M1 Class Reference Standard Weights as per OIML R- 76	0.010 kg to 300 kg	33g



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LOCATION 2 - #47, GANAPATHI NAGAR, RAJGOPAL NAGAR MAIN ROAD, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digital Multimeter & Shunt by Direct method	10 A to 25 A	1.62 % to 1.98 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digital Multimeter & Shunt by Direct method	25 A to 100 A	1.98 % to 2.48 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digital Multimeter & Shunt by Direct method	3 A to 10 A	1.62%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz to 1kHz	Using 6½ Digital Multimeter by Direct method	1 A to 3 A	0.28%



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz to 1kHz	Using 6½ Digital Multimeter by Direct method	100 mA to 1 A	0.58 % to 0.28 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz to 1kHz	Using 6½ Digital Multimeter by Direct method	10 mV to 100 mV	2.9 % to 0.30 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz to 1kHz	Using 6½ Digital Multimeter by Direct method	100 mV to 1 V	0.30 % to 0.25 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using HV Probe with Digital Multimeter by Direct method	0.5 kV to 28 kV	6.14%
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage 50Hz to 1kHz	Using 6½ Digital Multimeter by Direct method	1 V to 1000 V	0.25 % to 0.11 %



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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz to 1kHz	Using Multi Product Calibrator by Direct method	100 μ A to 2 A	0.48 % to 0.18 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz to 1kHz	Using Multi Product Calibrator by Direct method	2 A to 10 A	0.18%
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multi Product Calibrator & Current Coil by Direct method	10 A to 1000 A	6.40 % to 0.71 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10kHz to 20kHz	Using Multi Product Calibrator by Direct method	1 mV to 30 mV	16 % to 0.35 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10kHz to 20kHz	Using Multi Product Calibrator by Direct method	30 mV to 30 V	0.52 % to 0.25 %
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1kHz to 10kHz	Using Multi Product Calibrator by Direct method	300 V to 1000 V	0.22 % to 0.07 %



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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20kHz to 50kHz	Using Multi Product Calibrator by Direct method	1 mV to 30 mV	16 % to 0.35 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20kHz to 50kHz	Using Multi Product Calibrator by Direct method	30 mV to 30 V	0.35 % to 0.25 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45Hz to 10kHz	Using Multi Product Calibrator by Direct method	1 mV to 30 mV	16 % to 0.52 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45Hz to 10kHz	Using Multi Product Calibrator by Direct method	30 mV to 30 V	0.52 % to 0.24 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45Hz to 1kHz	Using Multi Product Calibrator by Direct method	30 V to 1000 V	0.28 % to 0.07 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50kHz to 100kHz	Using Multi Product Calibrator by Direct method	1 mV to 30 mV	16 % to 0.52 %



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22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50kHz to 100kHz	Using Multi Product Calibrator by Direct method	300 mV to 3 V	0.40 % to 0.23 %
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using Decade Capacitance Box by Direct method	100 pF to 100 µF	2.06%
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1kHz	Using Decade Inductance Box by Direct method	100 µH to 10 H	1.16 % to 1.26 %
25	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	1 A to 3 A	0.20 % to 0.27 %
26	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	1 mA to 10 mA	0.22 % to 0.08 %
27	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter with Shunt by Direct method	10 A to 100 A	0.66 to 1.36 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	10 mA to 100 mA	0.08 % to 0.15 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	100 mA to 1 A	0.15 % to 0.20 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	3 A to 10 A	0.27 % to 0.20 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Probe with Digital Multimeter by Direct method	0.5 kV to 40 kV	4.0 % to 3.1 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct method	1 mV to 10 mV	0.72 % to 0.09 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct method	10 mV to 100 mV	0.09 % to 0.01 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct method	100 mV to 1000 V	0.01 % to 0.0078 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digital Multimeter by Direct method	1 Mohm to 10 Mohm	0.02 % to 0.07 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digital Multimeter by Direct method	10 Mohm to 100 Mohm	0.07 % to 0.94 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digital Multimeter by Direct method	10 ohm to 1 Mohm	0.15 % to 0.02 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digital Multimeter by Direct method	1 ohm to 10 ohm	0.48 % to 0.15 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	1 mA to 3.29 mA	0.40 % to 0.12 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	10 μ A to 1 mA	0.82 % to 0.40 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with Current coil by Direct method	10 A to 500 A	0.09 % to 1.15 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	2 A to 10 A	0.09%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	3.29 mA to 329 mA	0.12 % to 0.036 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	329 mA to 2 A	0.036 % to 0.09 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	1 mV to 329 mV	0.38 % to 0.012 %



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	3.29 V to 32.9 V	0.061%
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	32.9 V to 1000 V	0.061 % to 0.012 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	329 mV to 3.29 V	0.012 % to 0.061 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance	Using Standard Resistance box by Direct method	500 μohm	0.14%
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	1 kohm	0.06%
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	1 mohm	0.10%



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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	1 ohm	0.08%
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	1.5 mohm	0.093%
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	10 kohm	0.06%
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	10 mohm	0.10%
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	10 ohm	0.06%
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	100 kohm	0.06%



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58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	100 mohm	0.096%
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	100 ohm	0.09%
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	5 mohm	0.14%
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	5 ohm	0.06%
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	50 kohm	0.06%
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	50 mohm	0.14%



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64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	50 ohm	0.06%
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	500 µohm	0.15%
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	500 mohm	0.13%
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	500 ohm	0.06%
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	1 Mohm to 10 Mohm	0.030 % to 0.052 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	10 Mohm to 100 Mohm	0.052 % to 0.44 %



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70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	10 ohm to 100 ohm	1.002 % to 0.058 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Multi Product Calibrator by Direct method	100 kohm to 1 Mohm	0.021 to 0.65 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Multi Product Calibrator by Direct method	1 ohm to 10 ohm	0.080 % to 1.002 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Multi Product Calibrator by Direct method	10 kohm to 100 kohm	0.018 % to 0.021 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Box by Direct method	100 Mohm to 1 Gohm	1.16%
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Multi Product Calibrator by Direct method	100 ohm to 10 kohm	0.058 % to 0.018 %



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76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type	Using 6½ Digital Multimeter by Direct method	600 °C to 1800 °C	0.77°C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type	Using 6½ Digital Multimeter by Direct method	-200 °C to 1000 °C	0.17°C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type	Using 6½ Digital Multimeter by Direct method	-200 °C to 1100 °C	0.19°C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type	Using 6½ Digital Multimeter by Direct method	-200 °C to 1370 °C	0.29°C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type	Using 6½ Digital Multimeter by Direct method	-200 °C to 1300 °C	0.62°C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type	Using 6½ Digital Multimeter by Direct method	-20 °C to 1700 °C	0.90°C



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82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using 6½ Digital Multimeter by Direct method	-200 °C to 850 °C	0.24°C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type	Using 6½ Digital Multimeter by Direct method	100 °C to 1708 °C	0.60°C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type	Using 6½ Digit Digital Multimeter by Direct method	-200 °C to 400 °C	0.25°C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type	Using Multi Product Calibrator by Direct method	600 °C to 1800 °C	0.84°C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type	Using Multi Product Calibrator by Direct method	-200 °C to 950 °C	0.46°C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type	Using Multi Product Calibrator by Direct method	-200 °C to 1200 °C	0.31°C



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88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type	Using Multi Product Calibrator by Direct method	-200 °C to 1300 °C	0.39°C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type	Using Multi Product Calibrator by Direct method	-200 °C to 400 °C	0.38°C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type	Using Multi Product Calibrator by Direct method	100 °C to 1700 °C	0.90°C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multi Product Calibrator by Direct method	-200 °C to 800 °C	0.26°C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type	Using Multi Product Calibrator by Direct method	100 °C to 1700 °C	0.60°C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type	Using Multi Product Calibrator by Direct method	-200 °C to 400 °C	0.54°C



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94	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct method	10 Hz to 10 kHz	6 % to 0.6 %
95	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time totalizer by Comparison method	1 s to 10 s	0.10 to 0.009 s
96	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time totalizer by Comparison method	10 s to 3600 s	0.10 s to 2.08 s
97	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time totalizer by Comparison method	18000 s to 86400 s	10.43 s to 20.08 s
98	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct method	1 Hz to 10 Hz	0.59 % to 0.12 %
99	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct method	10 Hz to 500 kHz	0.060 to 0.012 %



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100	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate (Media : Air) Top Loading calibrator	Using Flow Control unit and Top Loading Orifice calibrator by Comparison method	257 lpm to 1700 lpm	1.72%
101	FLUID FLOW-FLOW MEASURING DEVICES	Anemometer, Pitot Tube & Velocity measuring Devices	Using Wind tunnel control unit, Anemometer and Pitot Tube -L Type by Comparison method	0.23 m/s to 5 m/s	0.5m/s
102	FLUID FLOW-FLOW MEASURING DEVICES	Anemometer, Pitot Tube & Velocity measuring Devices	Using Wind tunnel control unit, Anemometer and Pitot Tube -L Type by Comparison method	5 m/s to 19 m/s	0.67m/s
103	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow (Media : Air) Dry Gas Meter-(Digital /Mechanical)	Using Flow Control unit and Gas Flow meter by Comparison method	0.001 m ³ to 20 m ³	1.2%
104	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow (Media : Water) Analog and Digital Flow meters, Flow measuring Devices	Using Flow control Unit and Electro Magnetic Flow Meter by Comparison method	0.5 m ³ to 12 m ³	0.80%
105	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow (Media : Water) Analog and Digital Flow meters, Flow measuring Devices	Using Flow control Unit and Electro Magnetic Flow Meter by Comparison method	12 m ³ to 100 m ³	0.70%



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106	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate (Media : Air) Analog & Digital Flow meter, Rota meter, Flow measuring Devices-(Air/Gas)	Using Flow Control unit and Mass Flow Meter by Comparison method	1 ml/minute to 1000 ml/minute	1.49%
107	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate (Media : Air) of Digital and Analog Flow Meter, Rotameter & Flow measuring devices	Using Flow Control unit and Top Loading Orifice Calibrator by Comparison method	257 lpm to 1700 lpm	1.6%
108	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate (Media : Air) of Respirable Dust Sampler and PM10 Sampler	Using Flow Control unit and Top Loading Orifice calibrator by Comparison method	0.3 m ³ /minute to 1.7 m ³ /minute	1.66%
109	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate (Media : Water), Analog and Digital Flow meters, Ultrasonic Flow Meter, rota meters and Flow measuring Devices	Using Flow control Unit and Electro Magnetic Flow Meter by Comparison method	200 lpm to 2500 lpm	0.70%



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110	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate (Media : Water), Analog and Digital Flow meters, Ultrasonic Flow Meter, rota meters and Flow measuring Devices	Using Flow control Unit, 1" (25 mm) Electro Magnetic Flow Meter, Ultrasonic Flow Meter by Comparison method	5 lpm to 200 lpm	0.7%
111	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate (Media : Water), Rotameter, Analog and Digital Flow meters and Flow measuring Devices	Using Weighing Balance & Digital Time Totaliser by Gravimetric method	5 ml/minute to 5000 ml/minute	0.40%
112	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate: (Media: Air) Analog & Digital Flow Meter, Rotameter, Dry Gas Meter, PM2.5 Sampler and Flow measuring Devices	Using Flow Control unit and Gas Flow meter by Comparison method as per ASTM D3195, ASME MFC-21.2-2010/ ASTM D5337-04	5 lpm to 300 lpm	1.95lpm
113	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate:(Media: Air) Analog & Digital Flow Meter, Rotameter, Dry Gas Meter, PM2.5 Sampler and Flow measuring Devices	Using Flow Control unit and Gas Flow meter by Comparison method as per ASTM D3195, ASME MFC-21.2-2010/ ASTM D5337-04	0.1 lpm to 5 lpm	0.65%



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114	MECHANICAL-ACCELERATION AND SPEED	Centrifuges and rpm devices	Using Digital Tachometer by Comparison method	10 rpm to 100 rpm	5.4%
115	MECHANICAL-ACCELERATION AND SPEED	Centrifuges and rpm devices	Using Digital Tachometer by Comparison method	100 rpm to 90000 rpm	0.8%
116	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital tachometer with Motorized Tachometer Calibrator by Comparison method	10 rpm to 100 rpm	5.7%
117	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital tachometer with Motorized Tachometer Calibrator by Comparison method	100 rpm to 9000 rpm	0.7%
118	MECHANICAL-ACCELERATION AND SPEED	Tachometer/Stroboscope (Non - Contact)	Using Digital tachometer with Motorized Tachometer Calibrator by Comparison method	10 rpm to 100 rpm	5.4%
119	MECHANICAL-ACCELERATION AND SPEED	Tachometer/Stroboscope (Non - Contact)	Using Digital tachometer with Motorized Tachometer Calibrator by Comparison method	100 rpm to 90000 rpm	0.8%



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120	MECHANICAL-ACCELERATION AND SPEED	Vibration Machine / Vibration Shakers / bump & shock Vibration Measurement Acceleration: Peak 5 Hz to 15kHz	Using Dynamic Signal Analyzer & Accelerometer PCB based on ISO 16063 by Comparison method	0.1/0.981 g/ m/s ² to 50/490.332 g/ m/s ²	2.4%
121	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter / Vibration Sensor / Portable Vibration Calibrator / DAQ Module with acceleration sensor Acceleration: Peak 1 Hz to 2000 Hz	Using Dynamic Signal Analyzer & Accelerometer based on ISO 16063 by Comparison method	0.1 g to 50 g	1%
122	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter / Vibration Sensor / Portable Vibration Calibrator / DAQ Module with acceleration sensor Acceleration: Peak 5 Hz to 15 kHz	Using Dynamic signal Analyzer & Accelerometer PCB based on ISO 16063 by Comparison method	0.1 g to 50 g	2.6%
123	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter / Vibration Sensor / Portable Vibration Calibrators Displacement Peak	Using Dynamic Signal Analyzer & Accelerometer PCB based on ISO 16063 by Comparison method	0.01 mm to 10 mm	4.8%



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124	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter / Vibration Sensor /Velocity Sensor / Portable Calibrator	Using Dynamic Signal Analyzer & Accelerometer PCB based on ISO 16063 by Comparison method	1 mm/s to 240 mm/s	4.8%
125	MECHANICAL-ACOUSTICS	Acoustic Pressure - Microphone- Pistonphone	Using Dynamic Signal Analyzer, Reference Microphone & Precision Acoustic Calibrator by Comparison method	94 dB & 114 dB	0.4dB
126	MECHANICAL-ACOUSTICS	Sound Calibrator @ 1 kHz	Using Microphone with Dynamic Signal Analyzer by Comparison method	94 dB to 114 dB	0.4dB
127	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator by Comparison method	114 dB	0.7dB
128	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator by Comparison method	94 dB	0.71dB



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129	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber, Environmental Chamber, Stability Chamber, Temperature Enclosures & Humidity, Cold Room, Environmental Controlled Room, Chillers @ 25°C (Multi position)	Using Data logger (Temperature with RH Indicator) minimum 9 sensor by Comparison method	15 %rh to 95 %rh	1.98%rh
130	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers, Climatic Chambers, Salt Spray Chamber, Enclosures (At Temp: 20 °C to 60 °C)	Using Temperature & Humidity meter by Comparison method	10 %rh to 95 %rh	1.24%rh
131	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers, Climatic Chambers, Salt Spray Chamber, Enclosures (@ 10%rh to 95%rh)	Using Temperature & Humidity meter by Comparison method	20 °C to 60 °C	0.26°C
132	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Dial /Digital Meters (@ 20°C to 60°C)	Using Temperature & Humidity Meter with Humidity chamber by Comparison method	10 %rh to 95 %rh	1.22%rh



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133	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Dial/Digital Meters (@ 10°C to 60°C)	Using Temperature & Humidity Meter with Humidity chamber by Comparison method	30 %rh to 95 %rh	1.22%rh
134	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Transmitter / Digital Humidity Meters/Temperature Data Logger @ 20%rh to 95%rh	Using Class A RTD Sensor with Indicator by Comparison method	10 °C to 60 °C	0.17°C
135	THERMAL-SPECIFIC HEAT & HUMIDITY	Salt spray chamber Hot & Cold Chamber Humidity Chamber (Single Point Method) @25°C	Using Temperature and RH Indicator with Sensor by Comparison method	15 %rh to 95 %rh	0.90%rh
136	THERMAL-SPECIFIC HEAT & HUMIDITY	Salt spray chamber Hot & Cold Chamber Humidity Chamber (Single Point Method) @50%rh	Using Temperature and RH Indicator with Sensor by Comparison method	10 °C to 60 °C	0.28°C
137	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo hygrometer, Humidity Meter/Indicator, Data logger/Controller, Humidity transmitter @25°C	Using Temperature and RH Indicator with Sensor by Comparison method	15 %rh to 95 %rh	0.90%rh



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138	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo hygrometer, Humidity Meter/Indicator, Data logger/Controller, Humidity transmitter @50%rh	Using Temperature and RH Indicator with Sensor with indicator by Comparison method	10 °C to 60 °C	0.26°C
139	THERMAL-TEMPERATURE	Black Body Source	Using IR Thermometer (Emissivity: 0.95) by Comparison method	50 °C to 500 °C	2.26°C
140	THERMAL-TEMPERATURE	Glass Thermometers, Wet & Dry Thermometer Dial Thermometers	Using SPRT Sensor with 6½ Digital Multimeter & Liquid bath by Comparison method	0 °C to 100 °C	0.17°C
141	THERMAL-TEMPERATURE	Glass Thermometers, Wet & Dry Thermometer Dial Thermometers	Using SPRT Sensor with 6½ Digital Multimeter & Liquid bath by Comparison method	100 °C to 250 °C	0.19°C
142	THERMAL-TEMPERATURE	Glass Thermometers, Wet & Dry Thermometer Dial Thermometers	Using SPRT Sensor with 6½ Digital Multimeter & Liquid bath by Comparison method	-80 °C to 0 °C	0.19°C



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143	THERMAL-TEMPERATURE	Indicator with sensor of Furnaces, Temperature Enclosures, Temperature Baths (Single position)	Using Standard S Type Thermocouple with 6½ Digital Multimeter by Comparison method	400 °C to 1200 °C	1.43°C
144	THERMAL-TEMPERATURE	Indicator with sensor of Oven, Freezer, Incubators, Salt spray chambers, Liquid bath, Cry static bath, Oil bath, Temperature Baths, Oven Furnace, Dry block calibrators (Single position)	Using Standard SPRT with 6½ Digital Multimeter by Comparison method	-80 °C to 400 °C	0.17°C
145	THERMAL-TEMPERATURE	Non Contact Temperature- IR Thermometer, IR Transmitter, Pyrometer	Using IR Thermometer with Black Body Source (Emissivity: 0.95) by Comparison method	50 °C to 500 °C	2.08°C
146	THERMAL-TEMPERATURE	Ovens, Incubator, Freezers, Deep Freezer, Temperature Enclosures, Cold room, Refrigerator, Chillers (Multi Position)	Using Data logger (Temperature with RH Indicator) minimum 9 sensor by Comparison method	10 °C to 60 °C	0.4°C



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147	THERMAL-TEMPERATURE	RTD /PT100/Thermocouple sensor with/without indicator, Temperature Transmitter, Wet & Dry Thermo., Data Logger with sensors, Probe, Bimetal Thermometers, Recorders, Temperature Switches, Gauge, Digital thermometer	Using SPRT with Precision readout, Liquid & Dry bath by Comparison method	30 °C to 650 °C	0.19°C
148	THERMAL-TEMPERATURE	RTD /Thermocouple sensor with/without indicator, Temperature Transmitter, Data Logger with sensors, Probe Thermometers, Bimetal Thermometers, Recorders, Temperature Switches, Gauge, Digital thermometer	Using SPRT Sensor with 6½ Digital Multimeter with LN2 by Comparison method	-196 °C	0.19°C



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149	THERMAL-TEMPERATURE	RTD /Thermocouple sensor with/without indicator, Temperature Transmitter, Data Logger with sensors, Probe Thermometers, Bimetal Thermometers, Recorders, Temperature switches, Gauge, Digital Thermometer	Using SPRT Sensor with 6½ Digital Multimeter with Liquid & Dry bath by Comparison method	-80 °C to 100 °C	0.07°C
150	THERMAL-TEMPERATURE	Thermocouple sensor with/without indicator, Temperature Transmitter, Data Logger with sensors, Probe Thermometers, Bimetal Thermometers, Recorders, Temperature Switches, Gauge, Digital thermometer	Using S-Type Sensor with 6½ Digital Multimeter with Dry bath by Comparison method	600 °C to 1200 °C	1.38°C



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LOCATION 2 - #47, GANAPATHI NAGAR, RAJGOPAL NAGAR MAIN ROAD, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digital Multimeter & Shunt by Direct method	10 A to 25 A	1.62 % to 1.98 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digital Multimeter & Shunt by Direct method	3 A to 10 A	1.62%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz to 1kHz	Using 6½ Digital Multimeter by Direct method	1 A to 3 A	0.28%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz to 1kHz	Using 6½ Digital Multimeter by Direct method	100 mA to 1 A	0.58 % to 0.28 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz to 1kHz	Using 6½ Digital Multimeter by Direct method	10 mV to 100 mV	2.9 % to 0.30 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz to 1kHz	Using 6½ Digital Multimeter by Direct method	100 mV to 1 V	0.30 % to 0.25 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using HV Probe with Digital Multimeter by Direct method	0.5 kV to 28 kV	6.14%
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage 50Hz to 1kHz	Using 6½ Digital Multimeter by Direct method	1 V to 1000 V	0.25 % to 0.11 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz to 1kHz	Using Multi Product Calibrator by Direct method	100 µA to 2 A	0.48 % to 0.18 %



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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz to 1kHz	Using Multi Product Calibrator by Direct method	2 A to 10 A	0.18%
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multi Product Calibrator & Current Coil by Direct method	10 A to 1000 A	6.40 % to 0.71 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10kHz to 20kHz	Using Multi Product Calibrator by Direct method	1 mV to 30 mV	16 % to 0.35 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10kHz to 20kHz	Using Multi Product Calibrator by Direct method	30 mV to 30 V	0.52 % to 0.25 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1kHz to 10kHz	Using Multi Product Calibrator by Direct method	300 V to 1000 V	0.22 % to 0.07 %
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20kHz to 50kHz	Using Multi Product Calibrator by Direct method	1 mV to 30 mV	16 % to 0.35 %



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16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20kHz to 50kHz	Using Multi Product Calibrator by Direct method	30 mV to 30 V	0.35 % to 0.25 %
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45Hz to 10kHz	Using Multi Product Calibrator by Direct method	1 mV to 30 mV	16 % to 0.52 %
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45Hz to 10kHz	Using Multi Product Calibrator by Direct method	30 mV to 30 V	0.52 % to 0.24 %
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45Hz to 1kHz	Using Multi Product Calibrator by Direct method	30 V to 1000 V	0.28 % to 0.07 %
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50kHz to 100kHz	Using Multi Product Calibrator by Direct method	1 mV to 30 mV	16 % to 0.52 %
21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50kHz to 100kHz	Using Multi Product Calibrator by Direct method	300 mV to 3 V	0.40 % to 0.23 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	1 A to 3 A	0.20 % to 0.27 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	1 mA to 10 mA	0.22 % to 0.08 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter with Shunt by Direct method	10 A to 100 A	0.66 to 1.36 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	10 mA to 100 mA	0.08 % to 0.15 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	100 mA to 1 A	0.15 % to 0.20 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	3 A to 10 A	0.27 % to 0.20 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Probe with Digital Multimeter by Direct method	0.5 kV to 40 kV	4.0 % to 3.1 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct method	1 mV to 10 mV	0.72 % to 0.09 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct method	10 mV to 100 mV	0.09 % to 0.01 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct method	100 mV to 1000 V	0.01 % to 0.0078 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	1 mA to 3.29 mA	0.40 % to 0.12 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	10 µA to 1 mA	0.82 % to 0.40 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with Current coil by Direct method	10 A to 500 A	0.09 % to 1.15 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	2 A to 10 A	0.09%
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	3.29 mA to 329 mA	0.12 % to 0.036 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	329 mA to 2 A	0.036 % to 0.09 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	1 mV to 329 mV	0.38 % to 0.012 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	3.29 V to 32.9 V	0.061%



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	32.9 V to 1000 V	0.061 % to 0.012 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	329 mV to 3.29 V	0.012 % to 0.061 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance	Using Standard Resistance box by Direct method	500 µohm	0.14%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	1 kohm	0.06%
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	1 mohm	0.10%
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	1 ohm	0.08%



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	1.5 mohm	0.093%
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	10 kohm	0.06%
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	10 mohm	0.10%
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	10 ohm	0.06%
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	100 kohm	0.06%
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	100 mohm	0.096%



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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	100 ohm	0.09%
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	5 mohm	0.14%
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	5 ohm	0.06%
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	50 kohm	0.06%
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	50 mohm	0.14%
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	50 ohm	0.06%



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58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	500 µohm	0.15%
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	500 mohm	0.13%
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Fixed Resistance (4 wire)	Using Standard Resistance box by Direct method	500 ohm	0.06%
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	1 Mohm to 10 Mohm	0.030 % to 0.052 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	10 Mohm to 100 Mohm	0.052 % to 0.44 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	10 ohm to 100 ohm	1.002 % to 0.058 %



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64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Multi Product Calibrator by Direct method	100 kohm to 1 Mohm	0.021 to 0.65 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Multi Product Calibrator by Direct method	1 ohm to 10 ohm	0.080 % to 1.002 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Multi Product Calibrator by Direct method	10 kohm to 100 kohm	0.018 % to 0.021 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Box by Direct method	100 Mohm to 1 Gohm	1.16%
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Multi Product Calibrator by Direct method	100 ohm to 10 kohm	0.058 % to 0.018 %
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type	Using 6½ Digital Multimeter by Direct method	-200 °C to 1000 °C	0.17°C



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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type	Using 6½ Digital Multimeter by Direct method	-200 °C to 1100 °C	0.19°C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type	Using 6½ Digital Multimeter by Direct method	-200 °C to 1370 °C	0.29°C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type	Using 6½ Digital Multimeter by Direct method	-200 °C to 1300 °C	0.62°C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type	Using 6½ Digital Multimeter by Direct method	-20 °C to 1700 °C	0.90°C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using 6½ Digital Multimeter by Direct method	-200 °C to 850 °C	0.24°C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type	Using 6½ Digital Multimeter by Direct method	100 °C to 1708 °C	0.60°C



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76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type	Using 6½ Digit Digital Multimeter by Direct method	-200 °C to 400 °C	0.25°C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type	Using Multi Product Calibrator by Direct method	600 °C to 1800 °C	0.84°C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type	Using Multi Product Calibrator by Direct method	-200 °C to 950 °C	0.46°C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type	Using Multi Product Calibrator by Direct method	-200 °C to 1200 °C	0.31°C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type	Using Multi Product Calibrator by Direct method	-200 °C to 1300 °C	0.39°C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type	Using Multi Product Calibrator by Direct method	-200 °C to 400 °C	0.38°C



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82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type	Using Multi Product Calibrator by Direct method	100 °C to 1700 °C	0.90°C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multi Product Calibrator by Direct method	-200 °C to 800 °C	0.26°C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type	Using Multi Product Calibrator by Direct method	100 °C to 1700 °C	0.60°C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type	Using Multi Product Calibrator by Direct method	-200 °C to 400 °C	0.54°C
86	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct method	10 Hz to 10 kHz	6 % to 0.6 %
87	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time totalizer by Comparison method	1 s to 10 s	0.10 to 0.009 s



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88	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time totalizer by Comparison method	10 s to 3600 s	0.10 s to 2.08 s
89	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time totalizer by Comparison method	18000 s to 86400 s	10.43 s to 20.08 s
90	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Totalizer/ Digital Timer Totalizer/ Digital Stop Watch/ programmable Timer	Using Digital Time totalizer by Comparison method	3600 s to 18000 s	2.08 s to 10.43 s
91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct method	1 Hz to 10 Hz	0.59 % to 0.12 %
92	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct method	10 Hz to 500 kHz	0.060 to 0.012 %
93	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate (Media : Air) Top Loading calibrator	Using Flow Control unit and Top Loading Orifice calibrator by Comparison method	257 lpm to 1700 lpm	1.72%



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Laboratory Name : WORLD ONE INSTRUMENTS, #42, M.E.C LAYOUT, 8TH CROSS, DUGGALAMMA TEMPLE ROAD, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 15/12/2022 to 14/12/2024 **Last Amended on** 18/05/2023

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)(±)
94	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow (Media : Air) Dry Gas Meter- (Digital /Mechanical)	Using Flow Control unit and Gas Flow meter by Comparison method	0.001 m ³ to 20 m ³	1.2%
95	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate (Media : Air) Analog & Digital Flow meter, Rota meter, Flow measuring Devices- (Air/Gas)	Using Flow Control unit and Mass Flow Meter by Comparison method	1 ml/minute to 1000 ml/minute	1.49%
96	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate (Media : Air) of Digital and Analog Flow Meter, Rotameter & Flow measuring devices	Using Flow Control unit and Top Loading Orifice Calibrator by Comparison method	257 lpm to 1700 lpm	1.6%
97	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate (Media : Air) of Respirable Dust Sampler and PM10 Sampler	Using Flow Control unit and Top Loading Orifice calibrator by Comparison method	0.3 m ³ /minute to 1.7 m ³ /minute	1.66%
98	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate (Media : Water), Analog and Digital Flow meters, Ultrasonic Flow Meter, rota meters and Flow measuring Devices	Using Ultrasonic flow meter with multiple clamp on sensors by Comparison method	5 lpm to 13500 lpm	1.66%



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99	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate: (Media: Air) Analog & Digital Flow Meter, Rotameter, Dry Gas Meter, PM2.5 Sampler and Flow measuring Devices	Using Flow Control unit and Gas Flow meter by Comparison method as per ASTM D3195, ASME MFC-21.2-2010/ ASTM D5337-04	5 lpm to 300 lpm	1.95lpm
100	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate:(Media: Air) Analog & Digital Flow Meter, Rotameter, Dry Gas Meter, PM2.5 Sampler and Flow measuring Devices	Using Flow Control unit and Gas Flow meter by Comparison method as per ASTM D3195, ASME MFC-21.2-2010/ ASTM D5337-04	0.1 lpm to 5 lpm	0.65%
101	MECHANICAL-ACCELERATION AND SPEED	Bump Test Machine, 3 ms to 30 ms, Half Sine Wave Pulse	Using Dynamic Signal Analyzer & Accelerometer based on ISO 16063 by Comparison method	3 g to 200 g	3%
102	MECHANICAL-ACCELERATION AND SPEED	Centrifuges and rpm devices	Using Digital Tachometer by Comparison method	10 rpm to 100 rpm	5.4%
103	MECHANICAL-ACCELERATION AND SPEED	Centrifuges and rpm devices	Using Digital Tachometer by Comparison method	100 rpm to 90000 rpm	0.8%



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104	MECHANICAL-ACCELERATION AND SPEED	Shock Test Machine, Pulse Width: 1 ms to 60 ms	Using Dynamic Signal Analyzer & Accelerometer based on ISO 16063 by Comparison method	20 g to 500 g	3%
105	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital tachometer with Motorized Tachometer Calibrator by Comparison method	10 rpm to 100 rpm	5.7%
106	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital tachometer with Motorized Tachometer Calibrator by Comparison method	100 rpm to 9000 rpm	0.7%
107	MECHANICAL-ACCELERATION AND SPEED	Tachometer/Stroboscope (Non - Contact)	Using Digital tachometer with Motorized Tachometer Calibrator by Comparison method	10 rpm to 100 rpm	5.4%
108	MECHANICAL-ACCELERATION AND SPEED	Tachometer/Stroboscope (Non - Contact)	Using Digital tachometer with Motorized Tachometer Calibrator by Comparison method	100 rpm to 90000 rpm	0.8%



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109	MECHANICAL-ACCELERATION AND SPEED	Vibration Machine / Vibration Shakers / bump & shock Vibration Measurement Acceleration: Peak 5 Hz to 15kHz	Using Dynamic Signal Analyzer & Accelerometer PCB based on ISO 16063 by Comparison method	0.1/0.981 g/ m/s ² to 50/490.332 g/ m/s ²	2.4%
110	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter / Vibration Sensor / Portable Vibration Calibrator / DAQ Module with acceleration sensor Acceleration: Peak 1 Hz to 2000 Hz	Using Dynamic Signal Analyzer & Accelerometer based on ISO 16063 by Comparison method	0.1 g to 50 g	1%
111	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter / Vibration Sensor / Portable Vibration Calibrator / DAQ Module with acceleration sensor Acceleration: Peak 5 Hz to 15 kHz	Using Dynamic signal Analyzer & Accelerometer PCB based on ISO 16063 by Comparison method	0.1 g to 50 g	2.6%
112	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter / Vibration Sensor / Portable Vibration Calibrators Displacement Peak	Using Dynamic Signal Analyzer & Accelerometer PCB based on ISO 16063 by Comparison method	0.01 mm to 10 mm	4.8%



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113	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter / Vibration Sensor /Velocity Sensor / Portable Calibrator	Using Dynamic Signal Analyzer & Accelerometer PCB based on ISO 16063 by Comparison method	1 mm/s to 240 mm/s	4.8%
114	MECHANICAL-ACOUSTICS	Sound Chamber, Sound Level Measurement @ (125 Hz to 20 kHz)	Using Microphone with Dynamic Signal Analyzer by Comparison method	Up to 120 dB	1.8dB
115	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber, Environmental Chamber, Stability Chamber, Temperature Enclosures & Humidity, Cold Room, Environmental Controlled Room, Chillers @ 25°C (Multi position)	Using Data logger (Temperature with RH Indicator) minimum 9 sensor by Comparison method	15 %rh to 95 %rh	1.98%rh
116	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers, Climatic Chambers, Salt Spray Chamber, Enclosures (At Temp: 20 °C to 60 °C)	Using Temperature & Humidity meter by Comparison method	10 %rh to 95 %rh	1.24%rh



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117	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers, Climatic Chambers, Salt Spray Chamber,Enclosures (@ 10%rh to 95%rh)	Using Temperature & Humidity meter by Comparison method	20 °C to 60 °C	0.26°C
118	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Dial /Digital Meters (@ 20°C to 60°C)	Using Temperature & Humidity Meter with Humidity chamber by Comparison method	10 %rh to 95 %rh	1.22%rh
119	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Dial/Digital Meters (@ 10°C to 60°C)	Using Temperature & Humidity Meter with Humidity chamber by Comparison method	30 %rh to 95 %rh	1.22%rh
120	THERMAL-SPECIFIC HEAT & HUMIDITY	Salt spray chamber Hot & Cold Chamber Humidity Chamber (Single Point Method) @25°C	Using Temperature and RH Indicator with Sensor by Comparison method	15 %rh to 95 %rh	0.90%rh
121	THERMAL-SPECIFIC HEAT & HUMIDITY	Salt spray chamber Hot & Cold Chamber Humidity Chamber (Single Point Method) @50%rh	Using Temperature and RH Indicator with Sensor by Comparison method	10 °C to 60 °C	0.28°C



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122	THERMAL-TEMPERATURE	Furnaces, Temperature Enclosures, Temperature Baths (Multi Position)	Using Data logger with N type Thermocouple sensors (minimum 9 sensor) by Comparison method	400 °C to 1200 °C	2.66°C
123	THERMAL-TEMPERATURE	Indicator with sensor of Furnaces, Temperature Enclosures, Temperature Baths (Single position)	Using Standard S Type Thermocouple with 6½ Digital Multimeter by Comparison method	400 °C to 1200 °C	1.43°C
124	THERMAL-TEMPERATURE	Indicator with sensor of Oven, Freezer, Incubators, Salt spray chambers, Liquid bath, Cry static bath, Oil bath, Temperature Baths, Oven Furnace, Dry block calibrators (Single position)	Using Standard SPRT with 6½ Digital Multimeter by Comparison method	-80 °C to 400 °C	0.17°C
125	THERMAL-TEMPERATURE	Ovens, Furnaces, Freezers, Temperature Enclosures, Incubator, Cold room, Refrigerator, Chillers (Multi position)	Using Data logger with RTD sensors (minimum 9 sensor) by Comparison method	-80 °C to 400 °C	0.4°C



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126	THERMAL-TEMPERATURE	Ovens, Incubator, Freezers, Deep Freezer, Temperature Enclosures, Cold room, Refrigerator, Chillers (Multi Position)	Using Data logger (Temperature with RH Indicator) minimum 9 sensor by Comparison method	10 °C to 60 °C	0.4°C
127	THERMAL-TEMPERATURE	RTD /PT100/Thermocouple sensor with/without indicator, Temperature Transmitter, Wet & Dry Thermo., Data Logger with sensors, Probe, Bimetal Thermometers, Recorders, Temperature Switches, Gauge, Digital thermometer	Using SPRT with Precision readout, Liquid & Dry bath by Comparison method	30 °C to 650 °C	0.19°C



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128	THERMAL-TEMPERATURE	RTD /Thermocouple sensor with/without indicator, Temperature Transmitter, Data Logger with sensors, Probe Thermometers, Bimetal Thermometers, Recorders, Temperature switches, Gauge, Digital Thermometer	Using SPRT Sensor with 6½ Digital Multimeter with Liquid & Dry bath by Comparison method	-80 °C to 100 °C	0.07°C
129	THERMAL-TEMPERATURE	Thermocouple sensor with/without indicator, Temperature Transmitter, Data Logger with sensors, Probe Thermometers, Bimetal Thermometers, Recorders, Temperature Switches, Gauge, Digital thermometer	Using S-Type Sensor with 6½ Digital Multimeter with Dry bath by Comparison method	600 °C to 1200 °C	1.38°C

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