



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

PRECISE TESTING AND CALIBRATION CENTRE PRIVATE LIMITED, OLD
NO.1/23,NEW NO.95. POONAMALLEE HIGH ROAD,NERKUNDRAN,
CHENNAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

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Validity

28/10/2024 to 27/10/2028

Last Amended on

05/11/2024

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	10 rpm to 1000 rpm	1.05 rpm
2	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	1000 rpm to 10000 rpm	4 rpm
3	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope, RPM / Speed (Indicator / Meter) (Non -Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	10 rpm to 1000 rpm	2 rpm
4	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope, RPM Indicator / Meter (Non -Contact Type)	Using Digital Tachometer with RPM Source by Comparison Method	1000 rpm to 90000 rpm	5 rpm
5	MECHANICAL-ACOUSTICS	Sound Level meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	114 dB	0.47 dB
6	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1kHz	Using Sound Level Calibrator by Direct Method	94 dB	0.47 dB
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Depth Gauge (L.C.: 0.01 mm)	Using Slip Gauge Grade by Comparison Method	0 to 25 mm	3.6 µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore gauge Digital / Dial - only Transmission (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1.5 mm	3.1 µm



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9	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Dial / Digital /Vernier (L.C.: 0.01 mm & coarser)	Using Slip gauge, Length Bar by Comparison Method	0 to 2000 mm	19.2 µm
10	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Dial / Digital /Vernier (L.C.: 0.01 mm & coarser)	Using Caliper Checker, Slip gauge, Gauge Block Accessories by Comparison Method	0 to 300 mm	6.2 µm
11	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Dial / Digital /Vernier (L.C.: 0.01 mm & coarser)	Using slip gauge, Length Bar by Comparison Method	300 to 1000 mm	11.52 µm
12	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 1 µm)	Using Standard Foils by Comparison Method	0.01 mm to 2 mm	1.6 µm
13	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using Dial gauge by Comparison Method	50 X 50 mm to 300 X 300 mm	3.85 µm
14	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using Universal length Measuring Machine by Comparison Method	0.1 mm to 20 mm	0.6 µm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Diameter only)	Using Universal Length Measuring Machine by Comparison Method	3 mm to 100 mm	0.91 µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer - Dial / Digital /Vernier (L.C.: 0.01 mm)	Using Slip Gauge By Comparison Method	0 to 150 mm	5.7 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Analog / Digital - (L.C.: 0.01 mm)	Using Slip Gauges, Gauge Block Accessories & Caliper Checker by Comparison Method	0 to 300 mm	8.55 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge / Groove Dial / Inside Caliper Gauge (L.C.: 0.01 mm)	Using slip Gauge & Gauge Block Accessories by Comparison Method	10 mm to 100 mm	4.08 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External / Flange / Ball / Blade / Point Micrometer - Analog / Digital (L.C.: 0.001 mm)	Using Slip Gauge By Comparison Method	0 to 50 mm	1.6 µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.01 mm)	Using Slip gauge, Length bar, Gauge Block Accessories by Comparison Method	50 mm to 1000 mm	9.52 µm



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21	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Comparison Method	0.05 mm to 1.0 mm	2.16 µm
22	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge	Using Gauge Block, Dial Gauge, Micrometer by Comparison Method	1 mm to 95 mm	3.68 µm
23	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gear tooth Vernier Caliper (L.C.: 0.02 mm & Coarser)	Using Slip Gauges By Comparison Method	0 to 50 mm Vertical Scale 0 to 25 mm Horizontal Scale	8.7 µm
24	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauges Mechanical / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker, Surface plate by Comparison Method	0 to 600 mm	9.31 µm
25	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer / stick Micrometer (L.C.: 0.01 mm)	Using Slip gauge, Length bar, Gauge Block Accessories by Comparison Method	5 mm to 1500 mm	10.6 µm
26	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Indicator - Dial / Digital (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1 mm	3.13 µm



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27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Indicators - Dial /Digital - (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 0.2 mm	1.7 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges (Diameter)	Using LMM by Direct method	0.5 mm to 50 mm	4.08 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges (Length)	Using LMM by Direct method	2.5 mm to 200 mm	4.08 µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges (Width)	Using LMM by Direct method	1.5 mm to 100 mm	4.08 µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Steel Rule / Steel Scale (L.C.: 0.5 mm & L.C.: 1 mm)	Using Tape & Scale Measuring Machine by Comparison Method as per IS:1481	0 to 2000 mm	408.5 sqrt (L/1000) µm, where L is in m
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 1 mm)	Using Tape & Scale Measuring Machine by Comparison Method as per IS:1269	0 to 50 m	163*sqrt (L/1000) µm, where L is in m



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33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Length Bar, Slip Gauges with Dial Comparator Stand by Comparison Method	25 mm to 1000 mm	9.04 µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape (L.C.: 1 mm)	Using Tape & Scale Measuring Machine by Comparison Method as per IS: 1269	20 mm to 2000 mm	163*sqrt (L/1000) where L is in m
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.1 mm)	Using Slip Gauges by Comparison Method	0 to 100 mm	60 µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Universal length Measuring Machine by Direct Method	2 mm to 100 mm	1 µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Universal length Measuring Machine & Gauge Block Set by Comparison Method	100 mm to 200 mm	1.3 µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Universal length Measuring Machine & Gauge Block Set by Comparison Method	200 mm to 300 mm	3.9 µm



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39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge	Using Universal length Measuring Machine & Master Setting Ring Gauge by Comparison Method	100 mm to 200 mm	2.5 µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge	Using Universal length Measuring Machine & Master Setting Ring Gauge by Comparison Method	2 mm to 100 mm	1.9 µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge	Using Universal length Measuring Machine & Master Setting Ring Gauge by Comparison Method	200 mm to 300 mm	2.7 µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C.: 0.001 mm)	Using Universal length Measuring Machine by Comparison Method	0 to 5 mm	3.2 µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C.: 0.01 mm)	Using Universal length Measuring Machine by Comparison Method	0 to 100 mm	6.7 µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C.: 0.01 mm)	Using Universal length Measuring Machine by Comparison Method	0 to 50 mm	3.2 µm



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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Digital Indicator (L.C.: 0.001 mm)	Using Universal length Measuring Machine by Comparison Method	0 to 100 mm	6.7 µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Digital Indicator (L.C.: 0.001 mm)	Using Universal length Measuring Machine by Comparison Method	0 to 50 mm	3.2 µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Indicator - Dial / Digital (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	6.61 µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Indicator - Dial /Digital (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1 mm	3.1 µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale & Tape measuring Machine / Calibrator (L.C.: 0.001 mm)	Using Slip gauges and Length bar by Comparison method	0 to 1000 mm	7.9 µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauges by Comparison Method	2 mm to 200 mm	2.8 µm



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51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauge, Length Bar by Comparison Method	200 mm to 300 mm	3.4 µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauge, Length Bar by Comparison Method	300 mm to 400 mm	3.8 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foils	Using Universal Length Measuring Machine by Direct Method	10 µm to 2000 µm	0.69 µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge (Half taper angle)	Using Universal Length Measuring Machine by Direct Method	2.5 mm to 100 mm	8 '.75 " of arc
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge (Major diameter)	Using Universal Length Measuring Machine by Direct Method	2.5 mm to 100 mm	0.7 µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge (Half taper angle)	Using Universal Length Measuring Machine by Comparison Method	2.5 mm to 100 mm	35 '.47" of arc



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57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge (Major Diameter)	Using Universal Length Measuring Machine by Comparison Method	2.5 mm to 100 mm	1.9 µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug gauges (Effective diameter of the gauge Plane)	Using Universal Length Measuring Machine, Thread Measuring Wire and Slip Gauge Set by Direct Method	7 mm to 100 mm	1.8 µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective diameter of the gauge Plane)	Using Universal length Measuring Machine & Master Setting Ring Gauge by Comparison Method	7 mm to 100 mm	1.9 µm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge Dial / Digital (L.C.: 0.01 mm)	Using Slip Gauges By Comparison Method	0 to 30 mm	4.8 µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Cylinders / Wire	Using Universal length Measuring Machine by Direct Method	0.17 mm to 10 mm	0.51 µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauge (Major Dia. & Pitch Dia.)	Using Universal Length Measuring Machine & Thread Measuring Wire by Comparison Method	2 mm to 100 mm	1.2 µm



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63	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauges (Major Dia. & Pitch Dia.)	Using Universal Length Measuring Machine & Slip gauge by Comparison Method	100 mm to 200 mm	1.8 µm
64	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauges (Major Dia. & Pitch Dia.)	Using Universal Length Measuring Machine Thread Measuring Wire, Slip gauge by Comparison Method	200 mm to 300 mm	2.7 µm
65	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Pitch Dia.)	Using Universal Length Measuring Machine & Master setting Ring gauge set by Comparison Method	100 mm to 200 mm	2.6 µm
66	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Pitch Dia.)	Using Universal Length Measuring Machine & Master setting Ring gauge set by Comparison Method	2 mm to 100 mm	2.3 µm
67	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Pitch Dia.)	Using Universal Length Measuring Machine & Master setting Ring gauge set by Comparison Method	200 mm to 250 mm	2.9 µm
68	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer (L.C.: 0.005 mm)	Using Setting Ring Gauge by Comparison Method	12 mm to 100 mm	3.4 µm



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69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three point Micrometer / Hole Tester L.C: 0.001 mm	Using Setting Ring gauge by comparison Method	6 mm to 12 mm	3.4 μ m
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block (Parallelism)	Using Dial Gauge, Slip Gauge, & Mandrel by Comparison Method	40 x 40 x 35 mm to 100 x 300 x 100 mm	4.3 μ m
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block (Perpendicularity)	Using Dial Gauge, Slip Gauge & Mandrel by Comparison Method	40 x 40.x 35 mm to 100 x 300 x 100 mm	4.3 μ m
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block (Symmetry)	Using Dial Gauge, Slip Gauge & Mandrel by Comparison Method	40 x 40 x 35 mm to 100 x 300 x 100 mm	4.4 μ m
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width gauge	Using Gauge Block, Dial Gauge by Comparison Method	1.5 mm to 50 mm	4.25 μ m
74	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Slip gauge, long slip gauge, Lever Type Electronic comparator by Comparison Method	0 to 600 mm	4.6 μ m



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75	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO / LVDT with DRO (L.C.: 0.0001 mm & Coarser)	Using Gauge Blocks by Direct method	0 to 25 mm	0.76 µm
76	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO / LVDT with DRO (L.C.: 0.001 mm & Coarser)	Using Gauge Block Set by Direct Method	0 to 200 mm	1.4 µm
77	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Blocks (Carbide / Steel / Ceramic) Grade K , 0, 1, 2	Using Gauge Block Comparator with Reference K - Grade Gauge Blocks by Comparison Method	0.5 mm to 25 mm	0.11 µm
78	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Blocks (Carbide / Steel / Ceramic) Grade K , 0, 1, 2	Using Gauge Block Comparator with Reference K - Grade Gauge Blocks by Comparison Method	25 mm to 50 mm	0.14 µm
79	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Blocks (Carbide / Steel / Ceramic) Grade K , 0, 1, 2	Using Gauge Block Comparator with Reference K - Grade Gauge Blocks by Comparison Method	50 mm to 100 mm	0.18 µm
80	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar	Using Universal length Measuring Machine, K Grade Slip Gauge set and K Grade Long slip Gauge Set by Comparison Method	25 mm to 300 mm	2.7 µm
81	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Head (L.C.: 0.0002 mm & Coarser)	Using LMM by Comparison Method	0 to 25 mm	0.98 µm



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82	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring System / Length Measuring Machine (L.C.: 0.1 µm & coarser)	Using "K" Grade Slip gauges by Direct method	0 to 100 mm	0.95 µm
83	MECHANICAL-FORCE PROVING INSTRUMENTS	Load cell (With / without Indicator), Proving Ring, (Compression and Tension) Class 0.5 and Coarser	Using Dead Weight Force Calibration Machine with Stainless steel / Dead Weights and Loading hangers by Direct Method as per IS 4169 -2014	0.5 N to 100 N	0.06 %
84	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge (Both Push and Pull)	Using Dead Weight Force Calibration Machine with Stainless Steel Dead Weights and loading hangers by Direct Method as per VDI /VDE-2624 Part 2.1-2008	10 N to 500 N	0.31 %
85	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Switch / Pressure Transducers with Indicators - Pneumatic	Using Digital Pressure Calibrator and Pneumatic Comparator pump by Comparison method as per DKD-R 6-1	0 to 30 bar	0.013 bar
86	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Switch / Pressure Transducers with Indicators -Hydraulic	Using Digital Pressure Calibrator and Hydraulic Comparator pump Comparison method as per DKD-R 6-1	0 to 700 bar	0.24 bar



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87	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge / Vacuum Transducer with indicator / Vacuum Transmitter with indicator /Vacuum Switch-pneumatic	Using Digital Pressure Calibrator using Pneumatic Comparator pump by Comparison method as per DKD-R 6-1	(-) 0.8 bar to 0 bar	0.006 bar
88	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducer With / Without Indicator, Torque Meter, Torque Tester (b) Class 0.2 & Coarser	Using Dead Weight Torque Calibration System, Lever Arm and Stainless Steel / Aluminium Dead Weights by Direct Method as per BS:7882-2017	5 Nm to 2000 Nm	0.044 %
89	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator,Torque Transducer With / Without Indicator, Torque Meter, Torque Tester (a) Class 0.2 & Coarser	Using Dead weight Torque Calibration System, Lever Arm and Stainless Steel / Aluminium Dead Weights by Direct Method as per BS :7882-2017	0.05 Nm to 5 Nm	0.042 %



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Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Centrifuge with Indicator (Non-contact)	Using Digital Tachometer by Comparison Method	10 rpm to 5000 rpm	1.2 rpm
2	MECHANICAL-ACCELERATION AND SPEED	Centrifuge with indicator (Non-contact)	Using Digital Tachometer by Comparison Method	5000 rpm to 50000 rpm	3.55 rpm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism & Co-axiality)	Using Master Mandrel & Dial Gauge by Comparison Method	75 mm X 100 mm to 160 mm X 750 mm	3.12 μ m
4	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Measuring System (Electronic) - Linear (L.C.: 0.001 mm)	Using Caliper Checker, Surface Plate by Comparison Method	0 to 600 mm	7 μ m
5	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Measuring System (Electronic) - Squareness (L.C.: 0.001 mm)	Using Granite Square and Dial indicator by Direct Method	0 to 600 mm	5.3 μ m
6	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Switch / Pressure Transducers with Indicators - Pneumatic	Using Digital Pressure Calibrator and Pneumatic Comparator pump by Comparison method as per DKD-R 6-1	0 to 30 bar	0.013 bar
7	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Switch / Pressure Transducers with Indicators -Hydraulic	Using Digital Pressure Calibrator and Hydraulic Comparator pump Comparison method as per DKD-R 6-1	0 to 700 bar	0.24 bar



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8	MECHANICAL- PRESSURE INDICATING DEVICES	Vacuum Gauge / Vacuum Transducer with indicator / Vacuum Transmitter with indicator /Vacuum Switch- pneumatic	Using Digital Pressure Calibrator using Pneumatic Comparator pump by Comparison method as per DKD- R 6-1	(-) 0.8 bar to 0 bar	0.006 bar

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