National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PRECISE TESTING AND CALIBRATION CENTRE, OLD NO. 1/23, NEW NO. 95, POONAMALLEE HIGH ROAD, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using rpm source with Digital Tachometer By Comparison Method	10 rpm to 1000 rpm	1.0rpm
2	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using rpm source with Digital Tachometer By Comparison Method	1000 rpm to 10000 rpm	4.0rpm
3	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope, RPM / Speed (Indicator / Meter) (Non -Contact Type)	Using rpm source with Digital Tachometer By Comparison Method	1000 rpm to 90000 rpm	5.0rpm
4	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope, RPM / Speed (Indicator / Meter) (Non -Contact Type)	Using rpm source with Digital Tachometer By Comparison Method	10 rpm to 1000 rpm	2.0rpm
5	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1kHz	Using Sound Level Calibrator by Direct Method	94 dB & 114 dB	0.25dB
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Depth Gauge L.C.:0.01 mm	Using Slip Gauge Grade ''0''	0 to 25 mm	3.6µm

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7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore gauge (Digital /Dial) (only Transmission) L.C.:0.001 mm	Using Dial Calibration Tester	0 to 1.5 mm	3.1µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial / Digital /Vernier) L.C :0.01 mm & coarser'	Using Caliper Checker '0' Grade Slip gauge Gauge Block Accessories, Length Bar	0 to 1000 mm	10.09 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial / Digital /Vernier) L.C :0.01 mm & coarser'	Using Caliper Checker '0' Grade Slip gauge Gauge Block Accessories,Length Bar	0 to 2000 mm	19.2µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial / Digital /Vernier) L.C :0.01 mm & coarser'	Using Caliper Checker '0' Grade Slip gauge Gauge Block Accessories	0 to 300 mm	5.8µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating thickness gauge LC: 1 µm	Using Standard Foils & comparison method	0.010 mm to 2 mm	4.98 µm

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12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (flatness)	Using Dial gauge	300 mm X 300 mm	3.2µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pins	Using Universal length Measuring Machine	0.1 mm to 20 mm	0.60µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Diameter only)	Using Universal Length Measuring Machine	3 mm to 100 mm	0.63µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (Dial / Digital /Vernier) L.C :0.01 mm	Using Caliper Checker , Length bar, '0' Grade Slip gauge Gauge Block Accessories	0 to 150 mm	5.7µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier (Analog / Digital) L.C.: 0.01 mm	Using Slip Gauges Grade '0',Gauge Block Accessories & Caliper Checker	0 to 300 mm	8.40 µm

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17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge / Groove Dial / Inside Caliper Gauge L.C.: 0.01 mm	Using '0' Grade slip Gauge & Gauge Block Accessories	10 mm to 100 mm	3.2µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External / Flange / Ball / Blade / Point Micrometer (Analog / Digital) L.C :0.001 mm	Using '0' Grade Slip gauge , Length bar, Gauge Block Accessories	0 to 50 mm	1.6µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital) L.C :0.01 mm	Using '0' Grade Slip gauge , Length bar, Gauge Block Accessories	50 mm to 1000 mm	7.4 µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer	0.05 mm to 1.0 mm	2.00µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge	Using Gauge Block ,Dial Gauge, Micrometer	1 mm to 95 mm	3.68µm

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22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauges (Dial / Digital) L.C.:0.01 mm	Using Caliper Checker,surface plate	0 to 600 mm	5.6µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer / stick Micrometer L.C :0.01 mm	Using '0' Grade Slip gauge , Length bar, Gauge Block Accessories	5 mm to 1500 mm	7.10µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Indicators (Dial /Digital) L.C :0.001 mm	Using Dial Calibration Tester	0 to 0.2 mm	1.7µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Indicators (Dial /Digital) L.C :0.01 mm	Using Dial Calibration Tester	0 to 1 mm	2.1µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges (Length, Width and Diameter)	Using LMM by Direct method	Length: Upto 200mm; Width : Up to 100 mm	4.08µm

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27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Steel Rule / Steel Scale	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
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape / Pie Tape	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
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Length Bar / Slip Gauges with Dial Comparator Stand	25 mm to 1000 mm	5.30µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C.: 0.1 mm	Using '0' Grade Slip gauges	0 to 100 mm	60µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Universal length Measuring Machine	100 mm to 200 mm	1.10µm

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32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Universal length Measuring Machine	2 mm to 100 mm	1.00µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Universal length Measuring Machine	200 mm to 300 mm	1.30µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge	Using Universal Length Measuring Machine	100 mm to 200 mm	2.20µm
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge	Using Universal length Measuring Machine	2 mm to 100 mm	1.90µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge	Using Universal Length Measuring Machine	200 mm to 300 mm	2.70µm

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37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger dial gauge (Dial / Digital) L.C: 0.001 mm	Using Universal length Measuring Machine	0 to 50 mm	3.2µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Indicator (Dial /Digital) L.C :0.001 mm	Using Dial Calibration Tester	0 to 1 mm	3.10µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Indicator (Dial /Digital) L.C :0.01 mm	Using Dial Calibration Tester	0 to 25 mm	6.61µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip gauges Grade ''0''	2 mm to 200 mm	2.80µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using '0' Grade Slip gauge , Length bar	200 mm to 300 mm	3.4µm

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42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foils	Using Universal length Measuring Machine	10 µm to 2000 µm	0.69µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge(Gauge length, major diameter, half taper angle)	Using Universal length Measuring Machine	2 mm to 100 mm	0.70µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge (Gauge length ,major diameter, half taper angle)	Using Universal Length Measuring Machine	2 mm to 100 mm	1.83µm
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug gauges (Effective diameter of the gauge Plane)	Using Universal Length Measuring Machine	3 mm to 100 mm	1.50µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge(Effective diameter of the gauge Plane)	Using Universal length Measuring Machine	5 mm to 100 mm	1.80µm

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47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (Dial / Digital) L.C.:0.01 mm	Using Slip Gauges Grade '0'	0 to 30 mm	4.8µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Cylinders / Wire	Using Universal length Measuring Machine	0.1 mm to 10 mm	0.50µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauges (Major Dia. & Pitch Dia.)	Using Universal Length Measuring machine	100 mm to 200 mm	1.70µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauges (Major Dia. & Pitch Dia.)	Using Universal Length Measuring machine	2 mm to 100 mm	1.20µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauges (Major Dia. & Pitch Dia.)	Using Universal Length Measuring machine	200 mm to 300 mm	2.60µm

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52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Pitch Dia.)	Using Universal Length Measuring Machine	100 mm to 200 mm	2.00µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Pitch Dia.)	Using Universal Length Measuring Machine	2 mm to 100 mm	2.3µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Pitch Dia.)	Using Universal Length Measuring Machine	200 mm to 250 mm	2.20µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer /Hole tester L.C.: 0.001 mm/ 0.005 mm	Using Setting Ring Gauges by Comparison Method	6mm to 12mm (L.C 0.001mm) and 12mm to 100 mm (L.C: 0.005 mm)	3.4µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block Parallelism	Using Dial Gauge , '0' Grade Slip Gauge, Mandrel	40 x 40 x 35 mm to 100 x 300 x 100 mm	4.3µm

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57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block Perpendicularity	Using Dial Gauge , '0' Grade Slip Gauge, Mandrel	40 x 40.x 35 mm to 100 x 300 x 100 mm	4.30µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block Symmetry	Using Dial Gauge , '0' Grade Slip Gauge, Mandrel	40 x 40 x 35 mm to 100 x 300 x 100 mm	4.40µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width gauge	Using Gauge Block ,Dial Gauge	1.5 mm to 50 mm	4.25µm
60	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO / LVDT L.C.: 0.0001 mm & Coarser	Using Gauge Blocks ‘0’ Grade Comparison method IS 7599 (Part 1)	0 to 25 mm	0.76µm
61	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Blocks (carbide / Steel / ceramic)	Using Gauge Block Comparator with Reference K - Grade Gauge Blocks	50 mm to 100 mm	0.13 µm
62	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Blocks(carbide / Steel / ceramic)	Using Gauge Block Comparator with Reference K - Grade Gauge Blocks	0.5 mm to 25 mm	0.11µm

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63	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Blocks(carbide / Steel / ceramic)	Using Gauge Block Comparator with Reference K - Grade Gauge Blocks	25 mm to 50 mm	0.12µm
64	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	length bars	Using Universal length Measuring Machine	25 mm to 300 mm	2.45µm
65	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Head (Digital)L.C.: 0.0002 mm & Coarser	Using LMM / Gauge Block set by Comparison method as per IS 9483	0 to 25 mm	0.98µm
66	MECHANICAL-FORCE PROVING INSTRUMENTS	Load cells (With / without Indicator), Proving Rings, Dynamometer (Compression and Tension) Class 0.5 and Coarser	Using Dead Weight Force Calibration Machine with Stainless steel / Dead Weights and Loading hangers As per 4169 / ISO 376	0.5 N to 100 N	0.06%
67	MECHANICAL-FORCE PROVING INSTRUMENTS	Load cells (With/ without Indicator), Proving Rings, Dynamometer (Compression and Tension) Class 2 and Coarser	Using Dead Weight Force Calibration Machine with Stainless steel / Dead Weights and Loading hangers As per 4169 / ISO 376	100 N to 5000 N	0.58%

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68	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 As per VDI /VDE-2624	10 N to 500 N	0.31%
69	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Switch / Transducers with Indicators (Hydraulic)	Using Digital Pressure Gauge and Calibrator using Hydraulic Comparator pump with pressure indicator Comparison method as per DKD-R 6-1	0 to 700 bar	0.17 bar
70	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Switch / Transducers withIndicators (Pneumatic)	Using Digital Pressure Gauge and Calibrator using Pneumatic Comparator pump with pressure indicator by Comparison method as per DKD-R 6-1	0 to 30 bar	0.011 bar

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71	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum- Gauge / Transducer with indicator / Transmitter with indicator /Switch	Using Digital Pressure Gauge and Calibrator using Pneumatic Comparator pump with pressure indicator by Comparison method as per DKD-R 6-1	(-) 0.8 bar to (-)0.1 bar	0.006 bar
72	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducer With / Without Indicator, Torque Meter,Torque Tester (a) Class 2 & Coarser	Using Dead Weight Torque Calibration System consisting of Lever Arm and Stainless steel / Aluminium Dead weights. As per BS:7882	0.05 Nm to 5 Nm	0.66%
73	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 consisting of Lever Arm and Stainless steel / Aluminium Dead weights. As per BS:7882.	0.5 Nm to 2000 Nm	0.04%

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Centrifuge with Indicator	Using Digital Tachometer By comparison Method	10 rpm to 5000 rpm	1.2 rpm
2	MECHANICAL-ACCELERATION AND SPEED	Centrifuge with Indicator	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	Upto 160 mm X 750 mm	3.12µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C.:0.01 mm	Using Caliper Checker,Surface plate	0 to 600 mm	5.2µm
5	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Measuring System (Electronic) L.C.:0.001 mm	Using caliper checker,Surface plate	0 to 600 mm	5.01µm

SCOPE OF ACCREDITATION

Laboratory Name :	PRECISE TESTING AND CALIBRATION CENTRE, OLD NO. 1/23, NEW NO. 95, POONAMALLEE HIGH ROAD, CHENNAI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
6	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Switch / /Transducers with Indicators(Pneumatic)	Using Digital Pressure Gauge and Calibrator using Pneumatic Comparator pump with pressure indicator by Comparison method as per DKD-R 6-1	0 to 30 bar	0.011 bar
7	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Switch / Transducers with Indicators (Hydraulic)	Using Digital Pressure Gauge and Calibrator using Hydraulic Comparator pump with pressure indicator by Comparison method as per DKD-R 6-1	0 to 700 bar	0.17 bar
8	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum- Gauge / Transducer with indicator / Transmitter with indicator /Switch	Using Digital Pressure Gauge and Calibrator using Pneumatic Comparator pump with pressure indicator by Comparison method as per DKD-R 6-1	(-) 0.8 bar to (-)0.1 bar	0.006 bar

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