



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	S. V. PRECISION INSTRUMENTS, SHED NO. 11A & 11B, TYPE III, INDUSTRIAL ESTATE, KUKATPALLY, HYDERABAD, TELANGANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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Validity	28/04/2022 to 27/04/2024	Last Amended on	03/09/2022

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-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Flatness)	Using Slip Gauges, Granite Surface Plate & Digimatic Gauge By Comparison Method	Up to 300 x 300 mm	3.0 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate Parallelism, Squareness	Using Dial Test Indicator & Granite Square By Comparison Method	Up to 300 x 300 mm	11.5 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Parallelism & Coaxiality)	Using Mandrel & Digimatic Gauge By Comparison Method	Up to 1000 mm	15.4 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Parallelism & Coaxiality)	Using Mandrel & Digimatic Gauge By Comparison Method	Up to 300 mm	8.8 µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor L.C. 5 Minutes	Using Sine Bar By Comparison Method	0 ° to 90 °	4.5 Minutes
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Dial Gauge (Transmission Error)	Using Digimatic Gauge & Dial Calibration Tester by Comparison Method	Up to 2 mm Travel	5.0µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers L.C. 0.01 mm	Using Slip Gauges, Slip Gauge Accessories & Length Bars By Comparison Method	0 to 1000 mm	9.8 µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers L.C. 0.01 mm	Using Slip Gauges, Slip Gauge Accessories & Length Bars By Comparison Method	0 to 300 mm	7.4 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers L.C. 0.01 mm	Using Slip Gauges, Slip Gauge Accessories & Length Bars By Comparison Method	0 to 600 mm	9.4µm



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Clinometer L.C. 1 Minute	Using Sine Bar & Gauge Block By Comparison Method	0 ° to 45 °	53 s
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Charts	Using Coating Thickness Gauge & PVC Foils By Comparison Method	0 to 1000 µm	4.7µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Foils	Using Electronic Comparator By Comparison Method	0.01 mm to 3 mm	2.0µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge LC 0.1 um	Using PVC Foils By Comparison Method	0.01 mm to 3 mm	4.9µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness)	Using Slip Gauges, Try Square & Mandrel By Comparison Method	100 mm X 150 mm to 400 mm X 300 mm	4.5 µm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Perpendicularity	Using Slip Gauges, Try Square & Mandrel By Comparison Method	Up to 1000 mm	8.6µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C. 0.01 mm	Using Slip Gauges, Length Bar & Granite Surface Plate By Comparison Method	0 to 100 mm	4.0µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C. 0.01 mm	Using Slip Gauges, Length Bars & Granite Surface Plate By Comparison Method	0 to 300 mm	7.0µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier L.C. 0.02 mm	Using Slip Gauges, Length Bars & Granite Surface Plate By Comparison Method	0 to 300 mm	15 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester L.C.0.001 mm	Using Slip Gauges & Electronic Comparator By Comparison Method	0 to 25 mm	1.9µm



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C. 0.001 mm	Using Slip Gauges By Comparison Method	0 to 12 mm	0.9µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C. 0.01 mm	Using Slip Gauges By Comparison Method	0 to 25 mm	2.9µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Type Inside Calipers L.C. 0.01 mm	Using Slip Gauges & Slip Gauge Accessories By Comparison Method	2 mm to 100 mm	6.1µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Comparator L.C. 0.0001 mm	Using Slip Gauges & Comparator Stands By Comparison Method	0 to 25 mm	0.52 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Level L.C. 1 µm/m	Using Electronic Level & Tilting Table By Comparison Method	0 to 2 mm/m	4.8µm/m



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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometers L.C. 0.001 mm	Using Slip Gauges & Length Bars By Comparison Method	0 to 300 mm	1.7µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometers L.C. 0.01 mm	Using Slip Gauges & Length Bars By Comparison Method	300 mm to 600 mm	12µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometers L.C. 0.01 mm	Using Slip Gauges & Length Bars By Comparison Method	600 mm to 1000 mm	16µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge set	Using External Micrometer By Comparison Method	0.01 mm to 1 mm	3µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Granite Square	Using Granite Square, Linear Height Gauge & Dial Test Indicator By Comparison Method	600 mm to 450 mm	9.1µm



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30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C. 0.01 mm	Using Slip Gauges, Length Bars & Digimatic Dial gauges By Comparison Method	0 to 1000 mm	8.1µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C. 0.01 mm	Using Slip Gauges, Length Bars & Digimatic Dial Gauge By Comparison method	0 to 300 mm	7 µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C. 0.01 mm	using Slip Gauges, Length bars & Digimatic Dial Gauge By Comparison Method	0 to 600 mm	7.9µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Master L.C. 0.002 mm	Using Slip Gauges & Electronic Comparator By Comparison Method	0 to 300 mm	3.0µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer (Head) - (Stick Micrometer)	Using Slip Gauges, Length Bars & Electronic Comparator By Comparison Method	50 mm to 63 mm	4.0µm



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35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer (With Extension Rod)	Using Slip Gauges, Length Bars & Electronic Comparator By Comparison Method	Up to 100 mm	4.0µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer (With Extension Rod)	Using Slip Gauges, Length Bars & Electronic Comparator by Comparison Method	Up to 200 mm	4.1µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer (With Extension Rod)	Using Slip Gauges, Length Bars & Electronic Comparator By Comparison Method	Up to 300 mm	4.2µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C. 0.001 mm	Using Dial Gauge Testing Stand With Electronic Probe By Comparison Method	0 to 1 mm	1.9 µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C. 0.01 mm	Using Dial Gauge Testing Stand with Electronic Probe By Comparison Method	0 to 1.60 mm	3.4 µm



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40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Height Gauge (Linear Accuracy & Perpendicular) L.C. 0.001 mm	Using Slip Gauges, Length Bars & Granite Surface Plate By Comparison Method	0 to 600 mm	5.5 µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mandrel (Runout & Variation in Diameter)	Using Millimess & Bench Centre By Comparison Method	Ø 8 mm X 1000 mm	9.4 µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins	Using Length Measuring Machine By Comparison Method	0.25 mm to 20 mm	0.59 µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C. 0.1 mm	Using Slip Gauges By Comparison Method	0 to 50 mm	30.8 µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges	Using Slip Gauges, Length Bars & Electronic Comparator Stand By Comparison Method	125 mm to 200 mm	2.3 µm



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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges	Using Slip Gauges, Electronic Comparator Stand By Comparison Method	5 mm to 125 mm	2.2 µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine & Master Setting Ring By Comparison Method	Ø 2 mm to 200 mm	1.7 µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial L.C. 0.001 mm	Using Dial Gauge Testing Stand with Electronic Probe By Comparison Method	0 to 25 mm	1.9 µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial L.C. 0.001 mm	Using Length Measuring Machine By Comparison Method	0 to 50 mm	3.0µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge Set	Using Profile Projector By Comparison Method	1 mm to 25 mm	9.0µm



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50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rods	Using Slip Gauges, Length Bars & Electronic Comparator By Comparison Method	25 mm to 300 mm	2.2µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rods	Using Slip Gauges, Length Bars & Electronic Comparator By Comparison Method	300 mm to 600 mm	3.5µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rods	Using Slip Gauges, Length Bars & Electronic Comparator By Comparison Method	600 mm to 1000 mm	5.3 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Angular & Linear)	Using Slip Gauges, Dial Indicator, Granite Surface Plate & Angle Gauge By Comparison Method	Up to 200 mm	5.9 µm & 9 arc s
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauges By Comparison Method	2 mm to 200 mm	1.4µm



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55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level L.C 20 $\mu\text{m}/\text{m}$	Using Electronic Level & Tilting Table By Comparison Method	0 to 300 mm/m	12 $\mu\text{m}/\text{m}$
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale	Using Tape & Scale Calibrator By Comparison Method	0 to 2000 mm	312 sqrt L / 1000 μm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Tape	Using Tape & Scale Calibrator By Comparison Method	0 to 30 M	312 SQRT L / 1000 μm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism & Starightness)	Using Slip Gauges, Digimatic Gauge & Granite Surface Plate By Comparison Method	Up to 1000 mm	4.4 μm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite & Cast Iron)	Using Electronic Level By Comparison Method	300 X 300 mm to 4000 X 4000 mm	0.9 x Sqrt (L+ W) / 120 μm



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60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape & Scale Calibrator L.C. 0.001 mm	Using Length Bars By Comparison Method	0 to 1000 mm	20µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector By Comparison Method	0.025 mm to 3 mm	10.9 µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector By Comparison Method	3 mm to 10 mm	16µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch & Angle)	Using Profile Projector By Comparison Method	0.25 mm to 7 mm & 55 °, 60 °	8.7 µm & 1 Min
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge	Using Length Measuring Machine & Thread Wire Set By Comparison Method	2 mm to 200 mm	1.2µm



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65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	Using Length Measuring Machine & Master Setting Ring By Comparison Method	2 mm to 100 mm	1.1µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer LC 0.001 mm	Using Ring Gauges By Comparison Method	125 mm to 200 mm	3.2µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer LC 0.001 mm	Using Ring Gauges By Comparison Method	2 mm to 125 mm	3.1µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Wire Set	Using Length Measuring Machine By Comparison Method	0.17 mm to 6.35 mm	0.2 µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Try Square	Using Master Square By Comparison Method	600 mm X 400 mm	6.5µm



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70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C. 0.01 mm	Using Slip Gauges By Comparison Method	0 to 100 mm	6.6µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vee Blocks (Parallelism & Symmitricity)	Using Height Gauge, Digimatic Gauge & Mandrel By Comparison Method	25 mm to 150 mm	10.4µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vee Blocks (Squareness)	Using Height Gauge, Digimatic Gauge & Mandrel By Comparison Method	25 mm to 150 mm	8.0µm
73	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Length Bars & Linear Height Gauge By Comparison Method	0 to 600 mm	8.5µm
74	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauges (Steel)	Using Slip Gauge & Slip Gauge Calibrator By Comparison Method	0.5 mm to 20 mm	0.15µm
75	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauges (Steel)	Using Slip Gauges & Slip Gauge Calibrator By Comparison Method	20 mm to 50 mm	0.21µm



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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)(±)
76	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauges (Steel)	Using Slip Gauges & Slip Gauge Calibrator By Comparison Method	50 mm to 70 mm	0.26µm
77	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauges (Steel)	Using Slip Gauges & Slip Gauge Calibrator By Comparison Method	70 mm to 100 mm	0.35µm
78	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge	Using Digital Pressure Calibrator, Hydraulic hand pump / Comparator (Medium Hydraulic Oil) by Comparison Method as per DKD R6 - 1	0 bar to 700 bar	0.93 bar



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : S. V. PRECISION INSTRUMENTS, SHED NO. 11A & 11B, TYPE III, INDUSTRIAL ESTATE, KUKATPALLY, HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2619 **Page No** 17 of 18

Validity 28/04/2022 to 27/04/2024 **Last Amended on** 03/09/2022

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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Parallelism & Coaxiality)	Using Mandrel & Milliness By Comparison Method	Up to 1000 mm	9.2µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Height Gauge (Linear Accuracy & Perpendicular) L.C. 0.001 mm	Using Slip Gauges, Length Bars & Granite Surface Plate & Granite Square By Comparison Method	0 to 600 mm	5.5 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite & Cast Iron)	Using Electronic Level By Comparison Method	600 X 600 mm to 4000 X 4000 mm	2.04 x Sqrt (L+ w) / 120
4	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angle Measurement)	Using Angle Gauge By Comparison Method	0 ° to 360 °	72.1 s
5	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Linear Dimension)	Using Slip Gauges By Comparison Method	0 to 50 mm (X,Y Axis)	6.5 µm



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6	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Slip Gauges, Digimaitc Caliper & Standard Glass Scale By Comparison Method	10 X	0.4 %
7	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge	Using Digital Pressure Calibrator, Hydraulic hand pump / Comparator (Medium Hydraulic Oil) by Comparison Method as per DKD R6 - 1	0 bar to 700 bar	0.93 bar

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