National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : UNIQUE MEASUREMENT SERVICE, 5/80, SHOP NO.3, GROUND FLOOR, 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	SPEED (Contact Type) TACHOMETER	Using Digital Tachometer and Tachometer Calibrator as source as per Sanas TR 45-1 & 2 by comparison method	50 rpm to 8000 rpm	4.0%
2	MECHANICAL-ACCELERATION AND SPEED	SPEED (Non-contact type) TACHOMETER	Using Digital Tachometer as per SANAS TR 45-1 & 2 by direct method:	50 rpm to 99900 rpm	4.0%
3	MECHANICAL-ACOUSTICS	SOUND LEVEL METER @1 kHz	Using SOUND LEVEL CALIBRATOR by direct method.	94 dB & 114 dB	0.24dB
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	'V' BLOCK(Symmetry, Flatness, Parallelism)	CMM BY COMPARISON METHOD	40 mm to 300 mm	5.6µm
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ANGLE PLATE	CMM BY COMPARISON METHOD	50 mm to 500 mm	5.5µm

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6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	BALL BAR AND MASTER	ULM, CMM(COMPARISON METHOD)	25 mm to 300 mm	6.0µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	BEVEL PROTRACTOR / DEGREE PROTRACTOR(L.C. 5mins)	VIDEO MEASURING MACHINE COMPARISON METHOD	0° - 180° - 0°	3.7min of arc
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	BORE DIAL GAUGE(Transmisson Only) (L.C. 0.001mm)	DIAL CALIBRATION TESTER(COMPARISON METHOD)	0 to 1.5 mm	1.7µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	BOX ANGLE PLATE(Squareness)	CMM BY COMPARISON METHOD	50 mm to 500 mm	6.3µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	BRIDGE CAM GAUGE	VIDEO MEASURING MACHINE BY COMPARISON METHOD	0 to 25 mm	2.3µm

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11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	COATING THICKNESS GAUGE(L.C. 0.001 mm)	MASTER FOILS(COMPARISON METHOD)	0.01 mm to 3 mm	1.6µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	COMPARATOR STAND(Flatness)	LEVER DIAL(COMPARISON METHOD)	150 × 100 mm	1.80 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CYLINDRICAL MEASURING PIN	ULM BY COMPARISON METHOD	0.5 mm to 25 mm	0.80 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DEPTH MICROMETER(L.C. 0.001 mm)	GAUGE BLOCK, LENGTH BAR BY COMPARISON METHOD	0 to 300 mm	8.7µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL THICKNESS GAUGE(L.C. 0.01mm)	GAUGE BLOCK BY COMPARISON METHOD	0 to 10 mm	3.1µm

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16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ENGINEERS SQUARE / TRY SQUARE(Straightness, Parallelism, Squareness)	CMM BY COMPARISON METHOD	109 mm to 600 mm	5.0µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C. 0.001 mm)	GAUGE BLOCK BY COMPARISON METHOD	0 to 100 mm	1.7 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer(L.C. 0.01 mm)	GAUGE BLOCK BY COMPARISON METHOD	100 mm to 400 mm	6.4µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	EXTERNAL MICROMETER(L.C. 0.01 mm)	GAUGE BLOCK, LENGTH BAR BY COMPARISON METHOD	400 mm to 1000 mm	12.6µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	FEELER GAUGE	ELECTRONIC PROBE BY COMPARISON METHOD	0.03 mm to 1 mm	1.6 µm

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21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	FLUSH PIN GAUGE	CMM BY COMPARISON METHOD	10 mm to 150 mm	5.3 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	GRANITE SQUARE(Flatness and Squareness)	CMM(COMPARISON METHOD)	600 × 400 × 100 mm	5.5 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	GROOVE DIAL GAUGE(EXTERNAL) L.C. 0.01 mm	GAUGE BLOCK BY COMPARISON METHOD	0 to 125 mm	6.1µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	GROOVE DIAL GAUGE(INTERNAL)	GAUGE BLOCK, GAUGE BLOCK ACCESSORIES BY COMPARISON METHOD	5 mm to 125 mm	6.1µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	GROOVE MICROMETER(L.C. 0.01 mm)	GAUGE BLOCK BY COMPARISON METHOD	2.5 mm to 50 mm	2.8µm

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26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	HEIGHT GAUGE(L.C. 0.01 mm)	CHECK MASTER, LENGTH BAR, SURFACE PLATE BY COMPARISON METHOD	0 to 1000 mm	16.0µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	HEIGHT GAUGE(L.C. 0.01 mm)	CHECK MASTER, SURFACE PLATE BY COMPARISON METHOD	0 to 600 mm	10.2µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	INSIDE MICROMETER/ TUBULAR MICROMETER (L.C. 0.01 mm)	GAUGE BLOCK, SLIP GAUGE ACCESSORIES BY COMPARISON METHOD	50 mm to 200 mm	6.1µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LEVER DIAL(L.C. 0.001mm)	ULM BY COMPARISON METHOD	0 to 0.14 mm	1.0 µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MASTER FOILS	ULM(COMPARISON METHOD)	0.01 mm to 4 mm	0.8µm

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31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MEASURING SCALE(L.C. 1 mm)	TAPE AND SCALE CALIBRATOR BY COMPARISON METHOD	0 to 2000 mm	0.29 µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MEASURING TAPE(L.C. 1 mm)	TAPE AND SCALE CALIBRATOR(COMPARISON METHOD)	0 to 50 m	(0.14+0.075L) µm L in meter
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MICROMETER HEAD(L.C. 0.01 mm)	ULM BY Comparison METHOD	0 to 25 mm	5.9µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MICROMETER SETTING ROD	ULM BY COMPARISON METHOD	25 mm to 500 mm	2.3µm
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PARALLEL BLOCK(Parallelism)	BY CMM COMPARISON METHOD	10 mm to 600 mm	5.6µm

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36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PISTOL CALIPER(L.C. 0.1 mm)	GAUGE BLOCK BY COMPARISON METHOD	0 to 100 mm	57.8µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PITCH MICROMETER(L.C. 0.001 mm) Linear only	GAUGE BLOCK, VIDEO MEASURING MACHINE(COMPARISON METHOD)	0 to 25 mm	1.4µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN PLUG GAUGE	ULM BY COMPARISON METHOD	0.5 mm to 100 mm	1.0 µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN PLUG GAUGE	ULM BY COMPARISON METHOD	100 mm to 200 mm	1.6µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN RING GAUGE	ULM BY COMPARISON METHOD	100 mm to 300 mm	1.6µm

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41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN RING GAUGE	ULM BY COMPARISON METHOD	3 mm to 100 mm	1.40µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLUNGER DIAL(L.C. 0.001 mm)	ULM BY COMPARISON METHOD	0 to 12.7 mm	1µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLUNGER DIAL(L.C. 0.001 mm)	ULM BY COMPARISON METHOD	0 to 50 mm	1.30µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	RADIUS GAUGE	VIDEO MEASURING MACHINE BY COMPARISON METHOD	0.6 mm to 25 mm	6µm
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SINE BAR(Parallelism, Angle, Centre Distance)	CMM BY COMPARISON METHOD	100 mm to 300 mm	6µm

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46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SLIP GAUGE ACCESSORIES(Flatness)	LEVER DIAL BY COMPARISON METHOD	75 mm to 300 mm	1.8µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SNAP GAUGE	GAUGE BLOCK, LONG GAUGE BLOCK BY COMPARISON METHOD	100 mm to 300 mm	4.20µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SNAP GAUGE	GAUGE BLOCK COMPARISON METHOD	2 mm to 100 mm	1.40µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SPHERE MASTER(Only Dia)	ULM(COMPARISON METHOD)	30 mm	1.90µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	STRAIGHT EDGE(Parallelism)	CMM BY COMPARISON METHOD	100 mm to 600 mm	3.40µm

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51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SURFACE PLATE	ELECTRONIC LEVEL BY COMPARISON METHOD	1600 × 1000 mm	0.7xSqrt((L+W)/150) µmL & W are in mm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER PLAIN PLUG GAUGE(Major Diameter and Minor Diameter)	ULM BY COMPARISON METHOD	5 mm to 100 mm	1.70 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER PLAIN RING GAUGE	ULM BY COMPARISON METHOD	5 mm to 100 mm	1.60µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER SCALE	VIDEO MEASURING MACHINE BY COMPARISON METHOD	0.1 mm to 60 mm	6.80µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER THREAD PLUG GAUGE(Effective diameter)	ULM BY COMPARISON METHOD	3 mm to 100 mm	1.60µm

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56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER THREAD RING GAUGE(Effective Diameter)	ULM BY COMPARISON METHOD	4 mm to 100 mm	1µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TEST SIEVES	VIDEO MEASURING MACHINE BY COMPARISON METHOD	0.01 mm to 5 mm	13.6µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TEST SIEVES	VERNIER CALIPER(COMPARISON METHOD)	5 mm to 125 mm	13.6µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	THREAD MEASURING WIRE	ULM BY COMPARISON METHOD	0.17 mm to 6.35 mm	0.80µm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	THREAD PITCH GAUGE	VIDEO MEASURING MACHINE BY COMPARISON METHOD	0.3 mm to 7.0 mm	Pitch Linear 2.5 µmand Angle 1.25 Arc Minutes

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61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	THREAD PLUG GAUGE (Effective Diameter)	ULM BY COMPARISON METHOD	3 mm to 150 mm	0.6µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	THREAD RING GAUGE (Effective Diameter)	ULM BY COMPARISON METHOD	3 mm to 100 mm	1.90µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ULTRA SONIC THICKNESS GAUGE(L.C. 0.1 mm)	GAUGE BLOCK COMPARISON METHOD	0.5 mm to 100 mm	83µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	VERNIER CALIPER(L.C. 0.01 mm)	CALIPER CHECKER BY COMPARISON METHOD	0 to 300mm	8.6µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	VERNIER CALIPER(L.C. 0.01 mm)	CALIPER CHECKER, LENGTH BAR BY COMPARISON METHOD	0 to 600 mm	13.20µm

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66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	VERNIER DEPTH GAUGE(L.C. 0.01 mm)	LENGTH BAR BY COMPARISON METHOD	0 to 300 mm	7.80µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	WELD FILLET GAUGE	VIDEO MEASURING MACHINE BY COMPARISON METHOD	0 to 25 mm	2.30µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	WIRE GAUGE	VIDEO MEASURING MACHINE(COMPARISON METHOD)	0.01 mm to 25 mm	2.50µm
69	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	3D CMM(0.0001 mm)	CHECK MASTER AND LENGTH BARS BY COMPARISON METHOD	600 × 1200 × 600 mm	5µm
70	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	ANGULAR GRATICULE(90° to 0° to 90°)	VIDEO MEASURING MACHINE(DIRECT METHOD)	0° - 90° - 0°	1.2min of arc
71	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	CALIPER CHECKER	GAUGE BLOCK, LENGTH BAR, LEVER DIAL(COMPARISON METHOD)	0 to 600 mm	6.5 µm

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72	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	CHECK MASTER	GAUGE BLOCK, LENGTH BAR, LEVER DIAL(COMPARISON METHOD)	0 to 600 mm	6.4 µm
73	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	ELECTRONIC HEIGHT GAUGE(L.C. 0.0001 mm)	CHECK MASTER BY COMPARISON METHOD	0 to 600 mm	4.6µm
74	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	ELECTRONIC PROBE / DIAL CALIBRATION TESTER(L.C. 0.0001 mm)	GAUGE BLOCK BY COMPARISON METHOD	0 to 25 mm	0.2µm
75	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	GAUGE BLOCK(Steel, carbide)	GAUGE BLOCK CALIBRATOR AND GRADE 'K' GAUGE BLOCKS(BY COMPARISON METHOD)	0.5 mm to 25 mm	0.4µm
76	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	GAUGE BLOCK(Steel, carbide)	GAUGE BLOCK CALIBRATOR AND GRADE 'K' GAUGE BLOCKS(BY COMPARISON METHOD)	25 mm to 50 mm	0.4µm
77	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	GAUGE BLOCK(Steel, carbide, Ceramics)	GAUGE BLOCK CALIBRATOR AND GRADE 'K' GAUGE BLOCKS(BY COMPARISON METHOD)	50 mm to 100 mm	0.4µm

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78	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	GLASS SCALE	VIDEO MEASURING MACHINE(COMPARISON METHOD)	Up to 300 mm	3.8µm
79	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LONG GAUGE BLOCK / LENGTH BAR	ULM(COMPARISON METHOD) AND LENGTH BAR DIAL GAUGE	100 mm to 500 mm	2.8 µm
80	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	PROFILE PROJECTOR(0.0001 mm) : Linearity, Angularity, Magnification	GLASS SCALE, ANGULAR GRATICULE, SLIP GAUGE(COMPARISON METHOD)	300 × 200 mm	4.3µm,1.42arcmin,0.6%
81	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	TAPE AND SCALE CALIBRATOR(L.C. 0.001 mm)	GAUGE BLOCK , LENGHT BARS BY COMPARISON METHOD	Up to 1000 mm	2.7µm
82	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	UNIVERSAL LENGTH MACHINE(L.C. 0.0001 mm)	GAUGE BLOCK '0' GRADE, LENGTH BAR(COMPARISON METHOD)	Up to 100 mm	1.8µm
83	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VIDEO MEASURING MACHINE(0.0001 mm) : Linearity, Angularity, Magnification	GLASS SCALE, ANGULAR GRATICULE, SLIP GAUGE(COMPARISON METHOD)	300 × 200 mm	4.3µm,1.42arcmin,0.6%

SCOPE OF ACCREDITATION

Laboratory Name :	UNIQUE MEASUREMENT SERVICE, 5/80, SHOP NO.3, GROUND FLOOR, CHENNAI, TAMIL NADU, INDIA		
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84	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE GAUGES - HYDRAULIC	Using Digital Pressure Gauge & hydraulic pressure comparator by comparison method .Procedure based on DKD-R 6-1	0 to 700 bar	0.235bar
85	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE GAUGES - PNEUMATIC	Using Digital Pressure Gauge & pneumatic pressure comparator by comparison method. Procedure based on DKD-R 6-1	0 to 25 bar	0.01bar
86	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauges	Using Digital Pressure Gauge & Pressure comparator by comparison method based on ISO 3567 and ISO 27893.	- 0.9 bar to 0 bar	0.014bar

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Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	SPEED (Non-contact type) CENTRIFUGE	Using Digital Tachometer as per SANAS TR 45-1 & 2 by direct method	50 rpm to 99900 rpm	4.0%
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SURFACE PLATE	ELECTRONIC LEVEL BY COMPARISON METHOD	2000 × 2000 mm	0.7×Sqrt((L+W)/150) µm, Where L & W are in mm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SURFACE PLATE	ELECTRONIC LEVEL BY COMPARISON METHOD	3000 × 3000 mm	2.80×Sqrt((L+W)/150) µm,Where L & W are in mm
4	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	3D CMM(0.0001 mm)	CHECK MASTER BY COMPARISON METHOD	600 × 1200 × 600 mm	5µm
5	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	ELECTRONIC HEIGHT GAUGE(L.C. 0.0001 mm)	CHECK MASTER BY COMPARISON METHOD	0 to 600 mm	4.6µm
6	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	PORTABLE CMM	CHECK MASTER & LENGTH BAR(COMPARISON METHOD)	Up to 2100 mm	10.9µm

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7	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	PROFILE PROJECTOR(0.0001 mm): Linearity, Angularity, Magnification	GLASS SCALE, ANGULAR GRATICULE, SLIP GAUGE(COMPARISON METHOD)	300 × 200 mm	1µm,1.42arcmin,0.6 %
8	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	TAPE AND SCALE CALIBRATOR(L.C. 0.001mm)	GAUGE BLOCK BY COMPARISON METHOD	Up to 1000 mm	2.2µm
9	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	UNIVERSAL LENGTH MEASURING MACHINE(L.C. 0.0001 mm)	GAUGE BLOCK '0' GRADE, LENGTH BAR(COMPARISON METHOD)	Up to 100 mm	1.2µm
10	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VIDEO MEASURING MACHINE(0.0001 mm): Linearity, Angularity, Magnification	GLASS SCALE, ANGULAR GRATICULE, SLIP GAUGE(COMPARISON METHOD)	300 × 200 mm	1µm,1.42arcmin,0.6 %
11	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE GAUGES - HYDRAULIC	Using Digital Pressure Gauge & hydraulic pressure comparator by comparison method .Procedure based on DKD-R 6-1	0 to 700 bar	0.235bar

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12	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE GAUGES - PNEUMATIC	Using Digital Pressure Gauge & pneumatic pressure comparator by comparison method. Procedure based on DKD-R 6-1	0 to 25 bar	0.01bar
13	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauges	Using Digital Pressure Gauge & Pressure comparator by comparison method based on ISO 3567 and ISO 27893.	- 0.9 bar to 0 bar	0.014bar

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