

Laboratory	ASKIB Engineers Private Limited, 86 D, Dr. Suresh Sarkar Road, Kolkata, West Bengal		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Calibration	Issue Date	20.11.2014
Certificate Number	C-0251	Valid Until	19.11.2016
Last Amended on	15.12.2014	Page	1 of 9

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. DIMENSION			
1. OUTSIDE MICROMETER L.C. : 0.001 mm	0-25 mm	4.0 μ m	Using Slip Gauge Set
2. EXTERNAL MICROMETER L.C.: 0.001mm	0 to 300 mm	14.0 μ m	Using Slip Gauge Set & Standard Length Bar
	300 mm to 500 mm	17.0 μ m	
L.C.: 0.01 mm	500 mm to 1000 mm	28.0 μ m	
3. DIGITAL MICROMETER L.C.: 0.001 mm	0 to 300 mm	16 μ m	Using Slip Gauge Set & Standard Length bar
4. BALL (Steel & Tungsten Carbide)	0 to 25 mm	4.25 μ m	Using Digital Micrometer
5. INTERNAL MICROMETER (Stick) L.C.: 0.01 mm	50 mm to 500 mm	38.0 μ m	Using Slip Gauge Set and Caliper checker
6. DEPTH MICROMETER L.C.: 0.01 mm	0 to 150 mm	36.0 μ m	Using Slip Gauge Set & Standard Length bar
	150 mm to 300 mm	42.0 μ m	
7. DIAL GAUGE PLUNGER TYPE L.C. : 0.01 mm	0 to 25 mm	9.0 μ m	Using Dial Gauge Calibrator
	25 mm to 50 mm	14.0 μ m	
L.C.: 0.001 mm	0 to 1 mm	2.0 μ m	

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Last Amended on	15.12.2014	Page	2 of 9

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8. DIGITAL DIAL GAUGE L. C. : 0.001 mm	0 to 25 mm	3.6 μ m	Using Dial Gauge Calibrator
9. LEVER TYPE DIAL GAUGE L. C. : 0.002 mm Φ	0 to 2 mm	5.0 μ m	Using Dial Gauge Calibration / Slip Gauge Set
10. VERNIER HEIGHT GAUGE (Digital/ Dial) L. C. : 0.01 mm Φ	0 to 600 mm	25.0 μ m	Using Slip Gauge Set & Standard Length Bar
11. PISTOL CALIPER L. C. : 0.01 mm	0 to 50 mm	127.0 μ m	Using Slip Gauge Set
12. VERNIER CALIPER (Digital / Dial) L. C. : 0.01 mm Φ	0 to 600 mm	27.0 μ m	Using Slip Gauge Set & Standard Length Bar
13. DIGITAL /VERNIER CALIPER L.C.: 0.01 mm	0 to 600 mm	26.0 μ m	Using Caliper Checker
14. DEPTH VERNIER GAUGE L.C.: 0.01 mm	0 to 150 mm 150 mm to 300 mm 0 to 450 mm	29.0 μ m 22.0 μ m 38.0 μ m	Using Slip Gauge Set & Standard Length Bar
15. FEELER GAUGE	0 to 1 mm	7.46 μ m	Using Digital Dial Gauge
16. DIAL THICKNESS GAUGE	0 to 20 mm	14.0 μ m	Using Slip Gauge Set

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Last Amended on	15.12.2014	Page	3 of 9

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17. SETTING ROD	Upto 500 mm	11.54 μ m	Using Slip Gauge Set & Comparator Stand/Dial Gauge
18. DIAL STAND (Flatness Only)	50 mm Base	5.0 μ m	Using Digital Dial Gauge
19. THREAD PITCH GAUGE	1to 7 mm Angle	44.0 μ m 55' Arc	Using Profile Projector
20. STEP BLOCK FOR ULTRASONIC MACHINE	Upto 10 mm	7.74 μ m	Using Digital Dial Gauge
21. ULTRASONIC THICKNESS GAUGE	Upto 100 mm	125 μ m	Using Slip Gauge Set
22. WIRE GAUGE	-	15.89 μ m	Using Profile Projector
23. THICKNESS FOIL	0-2mm	17.0 μ m	Using Digital Micrometer
24. BEVEL PROTRACTOR L.C. : 5'	0-180-0°	8.5'	Using Profile Projector
25. PLAIN PLUG GAUGE	Upto 100 mm	4.32 μ m	Using Slip Gauge & Accessories
26. STEEL SCALE L.C.: 1.0 mm	0 – 1000 mm	579.0 μ m	Using Profile Projector
27. FLANGE MICROMETER	Upto 100 mm	17.0 μ m	Using Slip Gauge Set
28. ANGLE GAUGE/MEASUREMENT	0 - 90 ⁰	10' of arc	Using Profile Projector

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Last Amended on	15.12.2014	Page	4 of 9

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29. DIGITAL COATING THICKNESS GAUGE L.C. : 0.001 mm	Up to 1.25 mm Up to 2000 μm	17.50 μm 20.0 μm	Using Electronic Dial Gauge with standard thickness foil
30. COATING THICKNESS GAUGE, ANALOG	Up to 2 mm	20.0 μm	Using Electronic Dial Gauge with standard thickness foil
31. FORD CUP (Orifice Dia Only)	4 mm	14.5 μm	Using Profile Projector
32. DIAMOND INDENTOR	120 ⁰ cone & 136 ⁰ Pyramid	3.75 ⁰	Using Profile Projector
33. COMBINATION SET	180 ⁰	35' of arc	Using Profile Projector
34. SNAP GAUGE	0 to 100 mm, 101 mm to 300 mm	18.1 μm 20.0 μm	Using Slip Gauge
35. DIAL BORE GAUGE	Up to 1 mm (Transmission only)	12.0 μm	Using Dial Calibrator
36. TEST SIEVE	0.04 to 0.5 mm 0.5 to 1.0 mm 1 to 60 mm	9.0 μm 18.0 μm 180 μm	Using Profile Projector
37. MEASURING TAPE	Up to 100 m	$356 \sqrt{\frac{L}{500}} \mu\text{m}$ Where L is in mm	Using Depth Vernier Gauge
38. MICROMETER HEAD	25 mm	8.0 μm	Using Slip Gauge Set

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Last Amended on 15.12.2014 **Page** 5 of 9

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39. PROFILE PROJECTOR	Length X axis Length Y Axis Angle	4 μ m 6 μ m 1' of arc	Using Glass scale & Slip Gauge
40. MICROSCOPE L.C. : 0.001 mm	Up to 10 mm	568 μ m	Using Profile Projector
41. PLAIN RING GAUGE	Up to 300 mm	12 μ m	Using Slip Gauge Set & Accessories
42. CUBE MOULD	Up to 150 mm	0.2 mm	Using Digital Caliper
43. SOUND LEVEL METER	94 dB & 114 dB	1.25 dB	Using Sound Calibrator
44. TRI SQUARE (Squareness)	Upto 300 mm	15 μ m	Using Master Cylinder with Gauge block set
45. WELD FILLET GAUGE (Length & Angle)	0 to 35 mm 0 to 90°	500 μ m 21.8' of arc	Using Slip Gauge set & Profile Projector
46. GEAR TOOTH VERNIER	0 to 20 mm	50 μ m	Using Slip Gauge Set
47. HEGMAN GAUGE	Upto 1 mm	22 μ m	Using Digital Dial Indicator
48. SPRIT LEVEL (Sensitivity)	0.02 mm/m	15 μ m/m	Using Micrometer Head With Accessories
49. DIAL CALIBRATION TESTER	0 to 25 mm	4.0 μ m	Using Slip Gauge Set & Digital Dial Gauge

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Last Amended on	15.12.2014	Page	6 of 9

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50. GLASS SCALE	Upto 10 mm	39.40 μ m	Using Profile Projector
51. ADJUSTABLE GAUGE	0 to 100 mm 100 mm to 200 mm 200 mm to 300 mm	8.00 μ m 10.0 μ m 12.0 μ m	Using Slip Gauge Set
52. SOUND LEVEL CALIBRATOR	94 dB & 114 dB	1.0 dB	Using Sound Level Meter
II. DENSITY			
1. HYDROMETER	0.600 to 0.650 g/ml 0.650 to 0.700g/ml 0.700 to 0.750 g/ml 0.750 to 0.800 g/ml 0.800 to 0.900 g/ml 0.900 to 1.000 g/ml 1.000 to 1.200 g/ml 1.200 to 1.400 g/ml 1.400 to 1.600 g/ml 1.600 to 1.800 g/ml	0.0081 g/ml 0.0081 g/ml 0.0081 g/ml 0.0081 g/ml 0.0081 g/ml 0.0081 g/ml 0.0083 g/ml 0.0083 g/ml 0.0083 g/ml 0.0083 g/ml	Using Standard Hydrometer & Liquids of Appropriate Densities
III. VOLUME			
1. VOLUMETRIC FLASK	0.1 to 1000 ml	0.71 ml	Using Standard weights/ Balance and Pure distilled water of known density
2. MEASURING CYLINDER	0.1 to 1000 ml	0.6 ml	Using Standard weights/ Balance and Pure distilled water of known density
3. BURETTE	0.01 ml	0.6 ml	Using Standard weights/ Balance and Pure distilled water of known density

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Last Amended on	15.12.2014	Page	7 of 9

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4. BEAKER	5 ml to 1000 ml	0.8 ml	Using Standard weights/ Balance and Pure distilled water of known density
5. PIPETTE	0.01 ml to 25 ml	0.6 ml	Using Standard weights/ Balance and Pure distilled water of known density
IV. MASS			
1. SINGLE / DOUBLE PAN BALANCE	Upto 200 g	0.1 g	Using Standard Weights
2. DIGITAL BALANCE	Upto 30 kg	20 g	Using Std Weights F1 Class
3. WEIGHING BALANCE	10 mg to 4200 g	0.6 g	Using Standard Weights F2 Class
4. WEIGHTS (Conventional Mass)	1 mg	0.1 mg	Using Standard F1 Class Weights & Standard Electronic Balance
	2 mg	0.1 mg	
	5 mg	0.1 mg	
	10 mg	1 mg	
	20 mg	1 mg	
	50 mg	1 mg	
	100 mg	1 mg	
	200 mg	8 mg	
	500 mg	8 mg	
	1 g	0.2 g	
	2 g	0.2 g	
	5 g	0.2 g	
	10 g	0.2 g	
	20 g	0.2 g	
	50 g	0.8 g	
	100 g	0.8 g	
	200 g	0.8 g	

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V. PRESSURE AND VACUUM			
1. HYDRAULIC PRESSURE Digital / Analogue Pressure Gauge, Pressure Transducer with Indicator	7.5 kg/cm ² to 70 kg/cm ² 70 kg/cm ² to 700 kg/cm ²	2.0 % of rdg 1.5 % of rdg	Using Dead Weight Tester
2. Digital/ Analogue Pressure Gauge, Pressure Transducer with Indicator	0 to 6 bar 0 to 1000 kg/cm ²	1.75 % of rdg 1.5 % of rdg	Using Digital Pressure Gauge
3. PNEUMATIC Pressure Gauge/ Manometer	1000 mmWc to 10000 mmWc	69.5 mmWc	Using Pneumatic DWT
4. Vacuum Gauge	0 to 700 mmHg	4.13 %	Using Precision Vacuum Gauge
VI. FORCE			
1. Uniaxial Static Testing Machines * (UTM, CTM, TTM) -Tension	1 kN to 50 kN	1.0 %	Using Force Proving Instruments in tension Mode
-Compression	5 kN to 1000 kN 200 kN to 2000 kN	1.0 % 2.0 %	Force Proving Instruments in Compression mode

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VII. HARDNESS			
1. Brinell Hardness Testing Machines*	HBW 2.5/187.5	1.93%	Using Reference Blocks
	HBW 5/750	1.93%	
	HBW 10/300	1.87%	
2. Vickers Hardness Testing Machines*	HV1	2.0%	Reference Blocks
	HV 5	2.0%	
	HV10	2.0%	
	HV30	2.0%	
3. Rubber Hardness Tester* (Durometer Spring Force) Shore A	0 to 100 Shore A	0.6 Shore A	Using Digital Weighing Balance
VIII. RPM			
1. Non-Contact type*	200 rpm to 20000 rpm	1.6 %	Using Digital Tachometer and electric motor

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%.

\$ Only in Permanent Laboratory

* Only for Site Calibration

The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

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