

Laboratory Jyoti Test House, B-1/111, Sector-11, Faridabad, Haryana

Accreditation Standard ISO/IEC 17025: 2005

Discipline Mechanical Calibration **Issue Date** 24.09.2015

Certificate Number C-0401 **Valid Until** 23.09.2017

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. DIMENSION			
1. Vernier Caliper \$ L.C.: 0.01mm Φ	0 to 200 mm	18 μ m	Caliper Checker by Calculation
	0 to 300 mm	19 μ m	
	0 to 600 mm	20 μ m	
2. External Micro Meter \$ L.C.- 0.001mm Φ	Upto 50 mm	6.2 μ m	Slip Gauge Set
	75 mm to 100 mm	6.2 μ m	
3. Height gauge \$ L.C.-0.01mm Φ	Upto 300 mm	15 μ m	Caliper Checker
	Upto 600 mm	18 μ m	
4. Plain Plug Gauge \$	Upto 50 mm	7.0 μ m	External Micrometer
5. Snap Gauge \$	Upto 100 mm	7.0 μ m	Slip Gauge Set
6. Feeler Gauge \$	Upto 1 mm	3 μ m	Micrometer
7. Depth Vernier Gauge \$	Upto 150 mm	18 μ m	Slip Gauge Set
8. Dial Gauge \$ L.C.: 0.001 mm L.C.: 0.01 mm	Upto 1.0 mm	4.0 μ m	Slip Gauge Set by Calculation
	Upto 10 mm	6.0 μ m	Slip Gauge Set by Calculation
9. DiaL Test Indicator \$ L.C.: 0.01mm L.C.: 0.002mm	Upto 0.8 mm	6.0 μ m	Slip Gauge Set
	Upto 2 mm	4.0 μ m	Slip Gauge Set
10. Test Sives \$	2 mm to 40 mm	24 μ m	Vernier Caliper

Ram Ashray
Convenor

Avijit Das
Program Manager

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II. PRESSURE & VACUUM

1. Industrial Pressure Gauge \$	0 bar to 30 kg/cm ² 0 bar to 600 bar	0 bar to 0.22kg/cm ² 8.4 bar	Digital Pressure Indicator with Transducer &
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III. MASS

1. MASS \$	1 mg	0.061 mg	Using MI Class Weights weights
	2 mg	0.061 mg	
	5 mg	0.108 mg	
	10 mg	0.107 mg	
	20 mg	0.121 mg	
	50 mg	0.145 mg	
	100 mg	0.160 mg	
	200 mg	0.200 mg	
	500 mg	0.250 mg	
	1 g	0.300 mg	
	2 g	0.400 mg	
	5 g	0.500 mg	
	10 g	1.000 mg	
	20 g	1.145 mg	
	50 g	1.001mg	
	100 g	1.602 mg	
	200 g	3.005 mg	
	500 g	0.082 g	
	1 kg	0.083 g	
	2 kg	0.086 g	
	5 kg	0.672 g	
	10 kg	0.672 g	
	20 kg	0.672 g	
	50 kg	6.7 g	
2. BALANCE \$	Upto 100 g	1.0 mg	Using F1/ M1 Class Weights As per OIML-R.76
	100 g to 200 g	3.0 mg	
	200 g to 5000 g	0.1 g	
	5 kg to 20 kg	0.5 g	
	20 kg to 200 kg	6.0 g	

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IV. VOLUME				
1. VOLUME \$	1 ml to 10 ml	0.0012 cm ³	Using FI Class Weights by Gravimetric Method using weighing balance and distilled water	
	>10 ml to 25 ml	0.0025 cm ³		
	>25 ml to 100 ml	0.0912 cm ³		
	>100 ml to 5000 ml	0.958cm ³		
V. FORCE				
1. Static Uniaxial \$ Testing M/C Tension	1 kN to 5 kN	1.73 %	Force Proving Instrument (Proving Rings) Tension IS: 1828(Part 1):2005	
	5 kN to 50 kN	0.93 %		
	Compression	20 kN to 200 kN		0.92 %
		100 kN to 1000 kN		0.92 %
VI. HARDNESS				
1. Rockwell Hardness Testing Machine \$	HRA	1.31 HRA	Standard Blocks (Indirect Method)	
	HRB	2.10 HRB		
	HRC	1.50 HRC		
2. Brinell Hardness Testing Machine	HBW/10/3000	3.17 % (HBW/10/3000)	Standard Blocks (Indirect Method)	
3. Balance \$	Upto 100 g	1.00 mg	Using M1 Class Weights OIML-R.76	
	100 g to 200 g	3.00 mg		
	200 g to 5000 g	0.1 g		
	5 kg to 20 kg	0.5 g		
	20 kg to 200 kg	6.0 g		

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

\$ Only in Permanent Laboratory

^Φ Laboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.

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