

Laboratory Technocalibration Laboratory Private Limited, Balitikuri Chakpara,
Howrah, West Bengal

Accreditation Standard ISO/IEC 17025:2005

Discipline Mechanical Calibration **Issue Date** 20.11.2014

Certificate Number C-1156 **Valid Until** 19.11.2016

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. FORCE			
1. a. Compression*	10 kN to 1000 kN 1000 kN to 3000 kN	0.66 %** 0.50 %**	Using Force Proving Ring as per IS 1828:2005
b. Tension*	100 N to 50 kN	0.57 %**	Using Force Proving Ring & Load Cell as per IS 1828:2005
II. HARDNESS			
1. a. Rockwell Hardness Testing Machine*	HRC HRB HRA	0.56 HRC 0.97 HRB 0.96 HRA	Using Standard Rockwell Hardness Block as per IS 1586:2012 by indirect verification
b. Brinell Hardness Testing Machine *	HBW 5/750 HBW 10/3000	7 HBW 7.5 HBW	Using Standard Brinell Hardness Block as per IS 2281:2005 (RA 2010) by indirect verification
III. PRESSURE			
1. Hydraulic Pressure [§]			
Pressure gauges and pressure transmitter	0 to 7 kg/cm ² 0 to 1000 kg/cm ²	0.053 kg/cm ² 2.8 kg/cm ²	Using Digital Pressure Gauge as per Standard DKD-R-6 (Hydraulic pressure)

R. Prakash
Convenor

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Program Manager

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IV. MASS			
1. Mass ^{\$}	1 mg	0.08 mg	Using E2 Class of Weights as per OIML-R 111 (1 mg to 5 kg)
	2 mg	0.09 mg	
	5 mg	0.09 mg	
	10 mg	0.09 mg	
	20 mg	0.09 mg	
	50 mg	0.09 mg	
	100 mg	0.09 mg	
	200 mg	0.09 mg	
	500 mg	0.09 mg	
	1 g	0.09 mg	
	2 g	0.09 mg	
	5 g	0.09 mg	
	10 g	0.09 mg	
	20 g	3.7 mg	
	50 g	3.7 mg	
	100 g	3.7 mg	
	200 g	3.8 mg	
	500 g	0.01 g	
	1 kg	0.01 g	
	2 kg	0.02 g	
	5 kg	1.8 g	
	10 kg	1.8 g	Using F2 Class of Weights as per OIML-R 111 (5 kg to 20 kg)
	20 kg	1.8 g	

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2. Weighing Balance* Readability = d d=0.0001 g d=0.01 g d=0.001 kg	Up to 210 g > 210 g to 3 kg > 3 kg to 30 kg	2.1 mg 0.034 g 5.0 g	Using E2 Class of Weights upto 5 kg & F2 Class of Weights for 10 kg to 30 kg as per OIML-R 76
V. VOLUME			
1. Volume Content Type Volumetric Measures[§]	0.1 ml to 200 ml	60.8 μ l	Using Standard Weight E2 Class & precision balance as per IS/ISO 4787:2010 in gravimetric method
2. Burette & Pipette[§]	0.1 ml to 100 ml	16 μ l	

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

** Relative accuracy error has not been considered for CMC estimation.

[§]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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