Laboratory	**Sibali Instrument Works, Jagacha Mohiary Road, A.T. Ghosh Road JN, P.O. GIP Colony, Howrah, West Bengal**		
Accreditation Standard	**ISO/IEC 17025:2005**		
Discipline	**Mechanical Calibration**	**Issue Date**	**24.07.2014**
Certificate Number	**C-0482**	**Valid Until**	**23.07.2016**
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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
I. DIMENSION[$]				
1.	**Steel Scale** **L.C. – 0.5 mm**	0 to 1000 mm	0.4 mm	Using Vernier Depth Gauge & Fixure
2.	**Steel Tape** **L.C. – 1.0 mm**	Upto 30 m	0.5 mm/m	Using Vernier Depth Gauge & Fixure
3.	**Vernier Depth Gauge** **L.C. – 0.02 mm**	0 to 300 mm	15.0 µm	Using Long Slip Gauge & Surface Plate
4.	**Depth Micrometer** **L.C. - 0.01 mm**	0 to 150 mm	7.4 µm	Using Slip Gauge '0' grade& Surface Plate
5.	**Bore Dial Gauge** **L.C. - 0.01 mm**	Upto 2.00 mm travel	8.5 µm	Using Long Slip Gauge & Accessories
6.	**Dial Indicator** **L.C. -0.01 mm**	0 to 50 mm	8.2 µm	Using Slip Gauge '0'grade
7.	**Digital Height Gauge** **L.C. -0.01 mm**	0 to 600 mm	17 µm	Using Slip Gauge '0'grade
8.	**Inside Micrometer** **L.C. – 0.01 mm**	50 mm to 500 mm	15 µm	Using Slip Gauge '0' grade, Long Slip Gauge, Dial Indicator & Vernier Height Gauge
9.	**External Micrometer** **L.C. - 0.01 mm**	25 mm to 600 mm	11.0 µm	Using Long Slip Gauge & '0' grade Slip gauge
10.	**External Micrometer** **L.C. - 0.001 mm**	Upto 150 mm	4.0 µm	Using Long Slip Gauge & '0' grade Slip gauge
11.	**Caliper (Digimatic / Vernier / Dial)** **L.C. -0.01 mm** **L.C. – 0.02 mm**	 Upto 300 mm Upto 1000 mm	 10.0 µm 17.3 µm	Using Long Slip Gauge & '0' grade slip gauge

Avijit Das
Program Manager

Naveen Jangra
Convenor

	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
12.	**Feeler Gauge**	Upto 1.0 mm	5 µm	Using Digital Ext. Micrometer
13.	**Coating Thickness Gauge L.C. - 1.0 µm**	Upto 1200 µm	4.75 µm	Using Master Thickness Foil
14.	**Thickness Foil**	Upto 1.0 mm	15 µm	Using Digital Ext Micrometer
15.	**Telescoping Gauge**	8 mm to 150 mm	17 µm	Using Slip Gauge Accessories
II. MASS[$]				
1.	**Digital Balance Readability 0.001 g**	Upto 210 g	0.16 mg	Using F2 Class SS Weight
2.	**Weight (Upto M1 Class)**	1.0 mg 2.0 mg 5.0 mg 10.0 mg 20.0 mg 50.0 mg 100.0 mg 200.0 mg 500.0 mg 1.0 g 2.0 g 5.0 g 10.0 g 20.0 g 50.0 g 100.0 g 200.0 g	0.09 mg 0.09 mg 0.09 mg 0.09 mg 0.09 mg 0.11 mg 0.11 mg 0.11 mg 0.11 mg 0.13 mg 0.15 mg 0.18 mg 0.23 mg 0.27 mg 0.32 mg 0.51 mg 1.0 mg	Using F2 Class SS Weight & Balance with Resolution 0.1 mg by 'ABA' method

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
III. VOLUME[$]			
1. (Measuring Flask/ Cylinder)	Upto 200 ml	0.54 ml	Using F2 Class SS Weight & Balance with Resolution 0.1 mg
2. Burette L.C. -0.2 ml	Upto 100 ml	0.56 ml	Using F2 Class SS Weight & Balance as per IS/ISO 4787: 2010
3. Pipette	Upto 100 ml	0.56 ml	Using F2 Class SS Weight & Balance as per IS/ISO 4787: 2010
4. Beaker	Upto 100 ml	0.6 ml	Using F2 Class SS Weight, Balance & Graduated Pipette as per IS/ISO 4787: 2010
IV. PRESSURE[$]			
1. Dial & Digital Pressure Gauge	Upto 600 kg/cm^2	2.7 kg/cm^2	Using Digital Pressure Gauge by comparison method as per DKD- R-6-1
2. Vacuum Gauge	(-) 0.8 to 0 kg/cm^2	0.08 kg/cm^2	Using Digital Pressure Gauge by comparison method as per DKD- R-6-1

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

[$]Only in Permanent Laboratory

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Program Manager

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