

**Laboratory** Testing Machine Service Centre, Balitikuri Shibtala Industrial Estate,  
Howrah, Kolkata

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** CC-2498

**Page** 1 of 6

**Validity** 11.12.2018 to 25.12.2019

**Last Amended on** -

*"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"*

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>MECHANICAL CALIBRATION</u></b>				
<b>I</b>	<b>DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>			
1.	Caliper <sup>§</sup> (Vernier /Dial / Digital) LC – 0.01 mm	0 to 600 mm	15 $\mu$ m	Using Gauge Block set, Steel Calliper checker & Digital Micrometer
2.	Height Gauge <sup>§</sup> (Vernier / Dial / Digital) L C – 0.01 mm	0 to 600 mm	16 $\mu$ m	Using Gauge block set & Steel Calliper Checker
3.	External Micrometer <sup>§</sup> L C- 0.01 mm L.C.- 0.001 mm	0 to 500 mm Up to 25 mm	11 $\mu$ m 4 $\mu$ m	Using Gauge block set & Gauge Block Acc. Set
4.	Inside Micrometer <sup>§</sup> L C – 0.01 mm	50 mm to 300 mm	7 $\mu$ m	Using Gauge block set & Gauge Block Acc. Set
5.	Dial Thickness Gauge <sup>§</sup> L C- 0.01 mm	0 to 25 mm	8 $\mu$ m	Using Gauge block set
6.	Dial / Digital <sup>§</sup> Indicator L C- 0.001 mm	0 to 10 mm	6 $\mu$ m	Using Gauge Block Set
7.	Coating Thickness Gauge <sup>§</sup>	0.01 to 3 mm	19 $\mu$ m	Using Foils

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Convenor

**Avijit Das**  
Program Manager

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8.	Feeler Gauge <sup>\$</sup>	0.01 to 1 mm	1.5 $\mu$ m	Using Digital External Micrometer
9.	Steel Scale <sup>\$</sup>	0 to 1000 mm	128 $\mu$ m	Using Scale & Tape Calibration unit
10.	Steel Tape / Pie Tape / Fibre Tape <sup>\$</sup>	0 to 50 mtr	128 $\sqrt{L}$ /1000 $\mu$ m	Using Scale & Tape Calibration unit
11.	Plain Plug Gauge <sup>\$</sup>	0 to 100 mm	7.3 $\mu$ m	Using Dial indicator, Gauge Block, Comparator Stand
12.	Test Sieves <sup>\$</sup>	38 $\mu$ m to 5 mm 5 mm to 125 mm	10.4 $\mu$ m 20.0 $\mu$ m	Using Profile Projector & Digital Caliper
13.	Bevel Protector / Combination Set <sup>\$</sup> L C – 5 min	0-360°	9 min	Using Profile Projector
14.	Thread Pitch Gauge <sup>\$</sup>	0.4 to 6 mm 55° to 60°	10.3 $\mu$ m	Using Profile Projector
15.	Radius Gauge <sup>\$</sup>	1 to 25 mm	3.3 $\mu$ m	Using Profile Projector
16.	Snap Gauge <sup>\$</sup>	10 to 160 mm	5 $\mu$ m	Using Gauge Block Set

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<b>II.</b>	<b>WEIGHTS</b>			
1.	Weights <sup>s</sup> (M1 Class And Coarser)	2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g	0.08 mg 0.09 mg 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 0.23 mg	Using E2 Class standard weights ABBA method as per OIML R-111 2004 with Digital weighing Balance up to 200 g of $d = 0.1$ mg
		500 g 1 kg 2 kg 5 kg 10 kg	2.0 mg 7.0 mg 7.0 mg 1.0 g 1.0 g	

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<b>III.</b>	<b>WEIGHING SCALE AND BALANCE</b>			
1.	Balance/Electronic Weighing Balance# d $\geq$ 0.1 mg	up to 200 g	0.26 mg	Using E2 Class standard weights as per OIML R 76
	d $\geq$ 10 mg	>200g to 3 kg	11.0 mg	Using F1 Class standard weights as per OIML R 76
	d $\geq$ 1g d $\geq$ 1 g	>3 kg to 10 kg > 10 kg to 30 kg	0.86 g 1.0 g	
<b>IV.</b>	<b>VOLUME</b>			
1.	Pipettes <sup>§</sup> (Graduated / Non Graduated)	1 ml to 100 ml	0.15 ml	Using Standard Weights & Digital Balance, Cap. : -220 g, d- 0.1mg
2.	Burette <sup>§</sup>	1 ml to 100 ml	0.15 ml	Using Standard Weights & Digital Balance, Cap. : -220 g, d- 0.1mg
3.	Measuring Cylinder / Volumetric Flask / Conical Flask / Beaker <sup>§</sup>	2 ml to 100 ml	0.15 ml	Using Standard Weights, Digital Balance, Cap. : -220 g, d- 0.1mg
		> 100 ml to 1000 ml > 1000 ml to 2000 ml	1.25 ml 2.1 ml	Using Standard Weights, Digital Balance, Cap. : -3000 g, d- 0.01g

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<b>V.</b>	<b>PRESSURE INDICATOR DEVICES</b>			
1.	Hydraulic Pressure (Dial / Digital Pressure Gauge and Calibrators, Pressure Transmitters and Pressure Switch <sup>#</sup> )	0 to 400 Bar >400 to 1000 Bar	0.8% of rdg 1% of rdg	Using Transducer with Indicator Based on DKD-R6-1
2.	Pneumatic Low Pressure Manometer, Magnehelic Gauge Transmitter #	0 to 200 mmWC	1.6 % of rdg	Using Transducer with Indicator Based on DKD-R6-1
3.	Vacuum # (Dial / Digital Vacuum Gauge / Indicators and calibrators and Vacuum transmitter)	(- )0.85 to 0 bar Or (680 to 0) mmHg	1 % of rdg	Using vacuum Transducer with display unit based on DKD-R6-1
<b>V.</b>	<b>UTM, TENSION CREEP AND TORSION TESTING MACHINE</b>			
1.	Static Uniaxial * Testing Machines i) Compression  ii) Tension	5 kN to 1000 kN 200 kN to 2000 kN  1 kN to 50 kN	0.74% 1.7%  0.8 %	Using Force Proving Instrument of Class 1 or better as per IS 1828

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VI.	<b>DUROMETER</b>			
1.	Rockwell * Hardness Tester	HRBW HRC	1.5 HRBW 0.7 HRC	Using Ref. Hardness Block
2.	Brinell Hardness Tester*	HBW 5/750 HBW 10/3000	2.6 HBW 2.5 HBW	Using Ref. Hardness Block

\* 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.