Laboratory		Adarsha Calibration Servi Bangalore, Karnataka	ces, 204/4, Ullal, Sir.M. V	/ishveswaraiy	/a Layout,
Accreditation Standard		ISO/IEC 17025:2005			
Discipline Certificate Number Last Amended on		Mechanical Calibration		Issue Date	29.09.2014
		C-1136 18.01.2016		Valid Until Page	28.09.2016 1 of 5
I.	DIMENSION				
1.	CALIPERS <sup>\$</sup> (VERNIER/ DIAL/DIGITAL) L.C.: 0.01mm	Upto 300 mm >300 mm to 600 mm	8.8 μm	Using Caliper Checker, (	
2.	DEPTH GAUGE <sup>\$</sup> (VERNIER/	>300 mm to 600 mm >600 mm to 1000 mm	13.8 μm 15.0 μm	Blocks & Accessories by Comparison Method Using Gauge Blocks/ Length Bars by Comparison Method	
	DIAL/DIGITAL) L.C:.0.01mm	Upto 300 mm	13.2 μm		
3.	PISTOL CALIPER/OI CALIPER/ LEG CALIPER <sup>\$</sup> L.C:.0.01mm	D Upto 100 mm	6.8 μm	Using Caliper Checker, Gaug Blocks & Accessories by Comparison Method	
4.	INTERNAL/ STICK MICROMETER <sup>\$</sup> (Analogue/Digital) L.C:.0.01mm	10 to 300 mm	6.0 µm	Using Ga Acce	uge Blocks & ssories by
5.	EXTERNAL MICROMETER/ BLADE/FLANGE/ POINT MICROMETE (Analogue/Digital) L.C:.0.001mm	C <b>R <sup>\$</sup></b> Upto 150 mm	2.0 µm	Using G	ison Method auge Blocks /
		>150 mm to 300 mm >300 mm to 600 mm	4.7 μm 7.5 μm		s by Comparison Iethod
	Neeraj Verma Convenor	-		Aviji Program	t Das Manager

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	Quantity Measured / Instrument	Range/ Frequency	* Calibration Measuremen Capability (±)	nt Remarks		
6.	DEPTH MICROMETER <sup>\$</sup> (Analogue/Digital) L.C:.0.01mm	Upto 100 mm	6.8 µm		e Blocks/Lengths	
7.	DIAL GAUGE <sup>\$</sup> Plunger Type L.C:.0.01mm	Upto 50 mm	2.8 μm	Bars By Comparison Method Using Gauge Blocks By Comparison Method		
8.	HEIGHT GAUGE <sup>\$</sup> (Vernier/Dial/ Digital) L.C:.0.01mm	Upto 300 mm >300 mm to 600 mm >600 mm to 1000 mm	9.6 μm 9.9 μm 10.9 μm	Using Gauge Blocks /Caliper Checker By Comparison Method		
9.	FEELER GAUGE <sup>\$</sup>	Upto 1.0 mm	3.0 µm	Using Digital Micrometer By Comparison Method		
10.	DIAL THICKNESS GAUGE <sup>\$</sup> L.C:.0.01 mm	Upto 50 mm	6.3 µm	Using Gauge Block By Comparison Method		
11.	SNAP GAUGE <sup>\$</sup>	2 to 150 mm	2.6 µm		ige Blocks By ison Method	
12.	TACHOMETER RPM METER/ CENTRIFUGE #	>50 rpm to 6000 rpm >6000 rpm to 90000 rpm	0.27 % to 0.08 % of Rdg 0.08 % to 0.035% of Rdg	Using Reference Tachometer By Comparison Method		

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measuremer Capability (±)	ent Remarks	
II. MASS				
1. Weights <sup>\$</sup> (Conventional)	1mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1g 2 g 5 g 10 g 20 g 50 g 100 g 200 g	0.018 mg 0.018 mg 0.018 mg 0.018 mg 0.018 mg 0.018 mg 0.028 mg 0.026 mg 0.032 mg 0.036 mg 0.036 mg 0.036 mg 0.036 mg 0.036 mg	Using E2 Class Standard Weights and Mass Comparators Readability: 0.01 mg up to 82g and 0.1 mg 220 g Calibration of weights of Class E2 accuracy and coarser as per OIML R-111 and NABL-122-02	
2. Electronic Weighin Balance * (Readability 0.01 mg to 1 mg)	g 0 to 80 g > 80 g to 200 g	0.16 mg 0.17 mg	Weight Of electro balance of	F2 Class Standard s Calibration onic weighing of class II and
Electronic Weighin Balance * (Readability 0.001 g to 10 g)	y >1 kg to 3 kg > 3 kg to 20 kg	1.33 g 1.34 g	R 76-1	as per OIML and NABL- 22-03

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				Page		
				ent Remarks		
III.	VOLUME					
1.	Micropipettes <sup>\$</sup>	10 μl to 100 μl >100 μl to 1000 μl >1ml to 5 ml	0.7 μl 0.7 μl 0.03 ml	Using E2 Class weights and precision Weighing Balance with Resolution 0.01 mg up to 80 g and 0.1 mg above Using E2 Class Standard with Digital Precision Balance and distilled water of known density. Procedure based on ISO-8655-6 (micro pipette).		
2.	Glass ware <sup>\$</sup> Burette Pipette Measuring Cylinder Volumetric Flask	1 ml to 100 ml 1 ml to 25 ml 1 ml to 100 ml 1 ml to 150 ml	0.004 ml 0.001 ml 0.58 ml 0.59 ml	Standa with Dig Balance Wate Densit	g E2 Class ard weights, gital Precision e and distilled r of known y. Procedure on ISO 4787	
IV.	ACCOUSTICS	04 JD	0 07 JD	Hoin- Court	Laval Calibrati	
1.	Sound Level Meter <sup>§</sup>	94 dB 114 dB	0.96 dB 1.12 dB	By the compari procedu	Level Calibrato e method of ison using the re OMIL-R58 xure B & C	

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V. I	V. PRESSURE AND VACUUM							
1.	Hydraulic Pressure <sup>#</sup> Analog/Digital Pressure Gauges & Pressure Transmitter	0 to 700 bar	0.14 bar	Using Digital Pressure Gauge by Comparison method based on DKD-R-6-1 and NABL 122-13.				
2.	Pneumatic Gauge <sup>#</sup> Positive Pressure – Analog/Digital Pressure Gauges, Pressure Transmitters	0 to 40 bar s	0.01 bar	Using Digital Pressure Gauge by Comparison method based on DKD-R-6-1 and NABL 122-13.				
3.	Vacuum <sup>#</sup> Negative Pressure - (Analogue/ Digital) Vacuum Gauges & Pressure Transmitter	-0.8 bar to 0 bar	0.003 bar	Using Digital Pressure Gauge by Comparison method based on DKD-R-6-1 and NABL 122-13.				
4.	Differential Pressure Gauge <sup>#</sup>	-18.4 mmHg to 18.4 mmHg	0.014mm Hg	by Compariso	al Manometer on method based BL 122-13.			

\* Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95% \*Only in Permanent Laboratory

**\***Only for Site Calibration

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