MASS/VOLUME

FORM 73
RECOMMENDED SCOPE OF ACCREDITATION
(For Calibration Laboratories)

Laboratory : **PRISM CALIBRATION CENTRE, Ahmedabad, F/101. Rudraksh Complex - II, GIDC vatva, Ahemedabad - 380445, Gujrat**

Date(s) of Visit: **3rd - 4th October, 2017**

Discipline: Mechanical (Mass/Weights) [Lab]

Sl	Parameter*/ Device under calibration	Master equipment Used	Range(s) of measurement	Calibration and Measurement Capability **			Remarks*/ Method used
				Claimed by Lab	Observed by Assessor	Recommended by Assessor	
1	Mass Calibration of Weights	Weights of accuracy class E2 and Precision Weighing Balance up to 100g / 200 g readability 0.01mg / 0.1 mg	1 mg	0.01 mg	0.007 mg ✓	0.01 mg	Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111 & NABL-122-02
			2 mg	0.01 mg		0.01 mg	
			5 mg	0.01 mg		0.01 mg	
			10 mg	0.01 mg	0.007 mg ✓	0.01 mg	
			20 mg	0.01 mg		0.01 mg	
			50 mg	0.01 mg		0.01 mg	
			100 mg	0.01 mg	0.007 mg ✓	0.01 mg	
			200 mg	0.01 mg		0.01 mg	
			500 mg	0.01 mg		0.01 mg	
			1 g	0.01 mg	0.008 mg ✓	0.01 mg	
			2 g	0.01 mg		0.01 mg	
			5 g	0.01 mg		0.01 mg	
			10 g	0.01 mg	0.025 mg ✓	0.025 mg	
			20 g	0.01 mg		0.025 mg	
			50 g	0.05 mg		0.025 mg	
			100 g	0.05 mg	0.046 mg ✓	0.05 mg	
			200 g	0.06 mg	0.057 mg ✓	0.06 mg	
		Weight of accuracy class F1 Electronic balances : up to 1 kg readability 1mg, up to 6 kg readability: 10 mg, up to 20 kg readability: 100mg and up to 100 kg readability: 5g/10g	500 g	0.50 mg	0.586 mg ✓	0.60 mg	Class F2 Accuracy and Coarser
			1 kg	0.60 mg	0.492 mg ✓	0.60 mg	
			2 kg	4.0 mg		4.0 mg	
			5 kg	4.0 mg	4.490 mg ✓	4.5 mg	
			10 kg	41.0 mg	42.063 mg ✓	42.5 mg	
			20 kg	41.0 mg	41.939 mg ✓	42.5 mg	
			50 kg	408 mg	2.04 g ✓	2.04 g	M1 Accuracy and Coarser

* *Only for Electro-technical discipline; scope shall be recommended parameter wise (where applicable) and the ranges may be mentioned frequency wise.*

** *NABL 143 shall be referred for the recommendation of CMC*

* *Remarks shall also include whether the same scope is applicable for site calibration as well. NABL 130 shall be referred while recommending the scope for site calibration.*

(Mr. Parthiv Kiariwala) Signature & Name of the Manager	A K Bandyopadhyay Dr. A K Bandyopadhyay Signature & Name of Technical Assessor 4/10	(Mr. Gautam Pal) Signature & Name of Lead Assessor

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Date(s) of Visit: 3rd - 4th October, 2017

Discipline: Mechanical (Weighing Balance) [Lab + Site]

Sl	Parameter*/ Device under calibration	Master equipment used	Range(s) of measurement	Calibration and Measurement Capability **			Remarks*/ Method used
				Claimed by Lab.	Observed by Assessor	Recommended by Assessor	
2	Calibration of Weighing Balance	Standard weights (E2 Class)	(0 to 100) g d= 0.01 mg and Coarser	0.076 mg	0.0431 mg ✓	0.076 mg	Calibration of Electronic Weighing Balance of Class I and Coarser as per OIML R-76-1 :2006 and NABL-122-03
			(>100 to 200) g d= 0.1 mg and Coarser	0.095 mg	—	0.095 mg	
		Standard weights (F1 Class)	(>200g to 1 kg) d= 1 mg and Coarser	0.69 mg	0.6620 mg ✓	0.69 mg	Calibration of Electronic Weighing Balance of Class II
			(>1 to 6) kg d= 10 mg and Coarser	6.0 mg		6.0 mg	Calibration of Electronic Weighing Balance of Class III Coarser
			(>6 to 20) kg d= 100 mg and Coarser	57.0 mg	65.33 mg ✓	65.5 mg	
		Standard weights (F1 and M1 Class)	(>20 to 100) kg d= 5g/10 g and Coarser	5.70 g	5.77 g ✓	5.8 g	
			(>100 to 250) kg d= 50 g and Coarser	57.0 g	102.50 g ✓	102.50 g	

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Discipline: Mechanical (Volume) (Lab only)

Sl	Parameter*/ Device under calibration	Master equipment used	Range(s) of measurement	Calibration and Measurement Capability **			Remarks/ Method used
				Claimed by Laboratory	Observed by Assessor at 27° C	Recommended by Assessor	
3	Calibration of Piston Pipette	Micropipette as per IS 8655-6 & ISO/TR 20461 and NABL 122-04.	10 µl to 100 µl	0.1 µl	0.090 µl at 10 µl	0.1 µl	Digital Balance up to 100g/ 200 g readability 0.01g/0.1 mg and distilled water of known density
			>100 µl to 500 µl	0.4 µl	0.106 µl at 100 µl	0.4 µl	
			>500 µl to 1000 µl	0.4 µl	0.65 µl at 1000 µl	0.65 µl	
4	Calibration of Volume (Glass ware)	Glass Pipettes (Graduated / non graduated)	0.1 ml to 1.0 ml	0.4 µl	0.4 µl at 0.1 ml	0.4 µl	Digital Precision Balance and distilled water of known density as per ISO 4787 & ISO/TR 20461 and NABL 122-04.
			1 ml to 10 ml	2.4 µl	1.16 µl at 10 ml	2.4 µl	
			>10 ml to 50 ml	24.0 µl	2.84 µl at 50 ml	24.0 µl	
		Glass Burette	1 ml to 10 ml	2.4 µl	1.01 µl at 10 ml	2.4 µl	
			>10 ml to 100 ml	24.0 µl	1.27 µl at 100 ml	24.0 µl	
		Measuring Cylinder/ Volumetric Flask/Conical Flask/Beaker	1 ml to 100 ml	24.0 µl	-	24.0 µl	
			>100 ml to 1000 ml	0.24 ml	9.76 µl at 1000 ml	0.24 ml	
			>1000 ml to 2000 ml	0.48 ml	14.73 µl at 2000 ml	0.48 ml	
			>2000 ml to 5000 ml	1.2 ml	0.28 ml at 5000 ml	1.2 ml	

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Discipline: Mechanical –Acceleration & Speed and Sound Level

Sl	Parameter*/ Device under calibration	Master equipment used	Range(s) of measure ment	Calibration and Measurement Capability **			Remarks*/ Method used
				Claimed by Laboratory	Observed by Assessor	Recommended by Assessor	
5	Acceleration & Speed RPM (non Contact type)	Digital Tachometer along with Tacho-generator	(180 to 10000) RPM	1.73 to7.35 RPM	1.73 to7.29 RPM	1.73 to7.35 RPM	By Comparison Method
6.	Acoustics Sound Level Meter	Sound Level Calibrator along with Meter	94 dB and 114 dB @ 1 kHz	0.87 dB	1.074 dB At both the points	1.074 dB	By Comparison Method

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