THE BOMBAY TEXTILE RESEARCH ASSOCIATION, Mumbai

RECCOMMENDED SCOPE OF ACCREDITATION

(For Calibration Laboratories)

Laborato	Laboratory: The Bombay Textile Research Association, Mumbai Date(s) of visit: 13-14 /						10/ 2016	
Discipline: Mechanical (Mass, Volume)								
SI	Parameter/ Device under calibration	Master equipment used	Range(s) of measurement	Calibration and Measurement Capability			- 1 (0.0)	
				Claimed by	Observed by	Recommended by	Remarks/Method used	
				laboratory	Assessor	Assessor		
	Mass Weights (At Permanent Lab)	Using E2 class standard weights 1mg - 200g and Balance of d:0.01mg /0.1mg Upto 200g	1mg	0.01mg		0.02mg	Calibration of F2 class weights and coarser as per OIML R - 111 Substitution Method through ABBA cycles	
			2mg	0.01mg		0.02mg		
			5mg	0.01mg	0.018mg	0.02mg		
			10mg	0.01mg		0.02mg		
			20mg	0.016mg	0.02mg	0.02mg		
			50mg	0.017mg		0.02mg		
			100mg	0.017mg	0.018mg	0.02mg		
			200mg	0.021mg	0.0092mg	0.03mg		
			500mg	0.027mg	0.016mg	0.03mg		
			1g	0.03 mg	0.018mg	0.03mg		
			2g	0.04 mg	0.016mg	0.04mg		
1			5g	0.04 mg	0.02mg	0.04mg		
_			10g	0.06 mg	0.023mg	0.06mg		
			20g	0.08 mg	0.027mg	0.08mg		
			50g	0.09 mg	0.035mg	0.09mg		
			100g	0.17 mg	0.11mg	0.2mg		
			200g	0.25 mg	0.15mg	0.3mg		
		Using F1 class weights and weighing Balances of d:0.01g/3kg d:0.1g/5kg	500g	0.92mg	8.94mg	10mg	Calibration of M1 class weights and coarser as per OIML R-111 by Substitution Method	
			1kg	1.72mg	9.06mg	10mg		
			2kg	3.36mg	8.67mg	10mg		
			5kg	9.21mg	89.2mg	100mg		
							through ABBA cycles	
							,	

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				laboratory	Assessor	Assessor	
	Mass Electronic Weighing balance At site & Lab (At lab is only for the internal use)	E2 class standard weights 1mg - 200g	1mg - 80g d <u>></u> 0.01mg	0.03mg	0.03mg	0.03mg	Calibration of class 1 weighing balances and coarser as per OIML R – 76
2			10mg - 200g d <u>></u> 0.1mg	0.32mg	0.22mg	0.3mg	
		ly for the	500mg - 3kg d <u>></u> 0.01g	20mg	5.8mg	20mg	Calibration of class 2 weighing balances and coarser as per OIML R – 76
			1g - 5kg d <u>></u> 0.1g	150mg	56mg	200mg	

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Discip	line: Mechanical (I	Mass, Volume)						
SI	Parameter/	Master	Range(s) of measurement	Calibration and Measuren		nent Capability	Domonico/Mothod	
	Device under calibration	equipment used		Claimed by laboratory	Observed by Assessor	Recommended by Assessor	Remarks/Method used	
3	Volume Glassware (Pipette, Burette, Measuring	Using Weighing balance with d: 0.01mg /	0.5ml < V <u>< </u> 10ml	0.012ml	0.0106ml	0.012ml	Calibration of Glassware based	
	Cylinder, Volumetric Flask, (At permanent Lab) 0.1mg and distilled water, Standard weights	10ml < V <u><</u> 100ml	0.02ml	0.0104ml	0.02ml	on Gravimetric method as per ISO 4787		