



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	THE BOMBAY TEXTILE RESEARCH ASSOCIATION, L.B.S. ROAD, GHATKOPAR WEST, MUMBAI, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2090	Page No	1 of 11
Validity	07/06/2019 to 06/06/2021*	Last Amended on	17/06/2021

*The validity is extended for one year up to 06.06.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-VOLUME	Volume Glassware (Pipette, Burette, Measuring Cylinder, Volumetric Flask)	Using weighing balance with d:0.01 mg / 0.1 mg and distilled water. Standard weights by gravimetric method as per ISO 4787	0.5 ml to 100 ml	0.012ml
2	MECHANICAL-VOLUME	Volume Glassware(Pipette, Burette, Measuring Cylinder, Volumetric Flask)	Using Weighing Balance with d:0.01 mg/0.1 mg and distilled water, standard weights by Gravimetric method as per ISO 4787	100 ml to 1000 ml	0.06ml
3	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Electronic Weighing Balance d = 0.01 g.	Using E2 Class standard weights 1 mg to 200 g and 500 g to 5 kg, F1 Class weights, as per OIML R-76	500 mg to 3 kg	20mg
4	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Electronic Weighing Balance d = 0.1 g Calibration of Class 2 Weighing Balance and coarser	Using E2 Class standard weights 1 mg to 200 g and 500 g to 5 kg, F1 Class weights as per OIML R-76	1 g to 5 kg	200mg



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5	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Electronic Weighing Balance d = 0.1 mg. Calibration of Class 1 Weighing Balance and coarser	Using E2 Class standard weights 1 mg to 200 g as per OIML R-76	10 mg to 200 g	0.3mg
6	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE d ≥ 0.01 mg	USING E2 CLASS STANDARD WEIGHTS 1 mg TO 200 g AS PER OIML R 76	1 mg to 80 g	0.03mg
7	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE d ≥ 0.01 mg	USING E2 CLASS STANDARD WEIGHTS 1mg TO 200g AS PER OIML R 76	1 mg to 80 g	0.03mg
8	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	1 g	0.03mg



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9	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	1 mg	0.02mg
10	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	10 g	0.06mg
11	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	10 mg	0.02mg



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12	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	100 g	0.2mg
13	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	100 mg	0.02mg
14	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	2 g	0.04mg



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15	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	2 mg	0.02mg
16	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	20 g	0.08mg
17	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	20 mg	0.02mg



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18	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	200 g	0.3mg
19	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	200 mg	0.03mg
20	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	5 g	0.04mg



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21	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	5 mg	0.02mg
22	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	50 g	0.09mg
23	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	50 mg	0.02mg



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24	MECHANICAL-WEIGHTS	Calibration of F2 Class weights and coarser	Using E2 Class standard weights 1mg-200g and Balance of d:0.01 mg/0.1 mg upto 200 g. As per OIML R-111 substitution method through ABBA cycle	500 mg	0.03mg
25	MECHANICAL-WEIGHTS	Calibration of M1 Class weights and coarser	Using F1 Class standard weights and Weighing Balances of d:0.01 g/3 kg As per OIML R-111 substitution method through ABBA cycle	1 kg	10mg
26	MECHANICAL-WEIGHTS	Calibration of M1 Class weights and coarser	Using F1 Class standard weights and Weighing Balances of d:0.01 g/3 kg As per OIML R-111 substitution method through ABBA cycle	2 kg	30mg



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27	MECHANICAL-WEIGHTS	Calibration of M1 Class weights and coarser	Using F1 Class standard weights and Weighing Balances of d:0.1 g/ 5 kg. As per OIML R-111 substitution method through ABBA cycle	5 kg	100mg
28	MECHANICAL-WEIGHTS	Calibration of M1 Class weights and coarser	Using F1 Class standard weights and Weighing Balances of d:0.01 g/3 kg As per OIML R-111 substitution method through ABBA cycle	500 g	20mg



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Site Facility					
1	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Electronic Weighing Balance d = 0.01 g.	Using E2 Class standard weights 1 mg to 200 g and 500 g to 5 kg, F1 Class weights, as per OIML R-76	500 mg to 3 kg	20mg
2	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Electronic Weighing Balance d = 0.1 g Calibration of Class 2 Weighing Balance and coarser	Using E2 Class standard weights 1 mg to 200 g and 500 g to 5 kg, F1 Class weights as per OIML R-76	1 g to 5 kg	200mg
3	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Electronic Weighing Balance d = 0.1 mg. Calibration of Class 1 Weighing Balance and coarser	Using E2 Class standard weights 1 mg to 200 g as per OIML R-76	10 mg to 200 g	0.3mg
4	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE d>=0.01 mg	USING E2 CLASS STANDARD WEIGHTS 1 mg TO 200 g AS PER OIML R 76	1 mg to 80 g	0.03mg



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5	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE $d \geq 0.01$ mg	USING E2 CLASS STANDARD WEIGHTS 1mg TO 200g AS PER OIML R 76	1 mg to 80 g	0.03mg

* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of $k = 2$.