

Laboratory Central Laboratory of Legal Metrology (CLLM), Legal Metrology Bhavan, Kakkanad, Ernakulam, Kerala

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2720 **Page** 1 of 2

Validity 28.05.2018 to 27.05.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I.	WEIGHTS			
1.	Mass ^s	1 mg 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	0.004 mg 0.004 mg 0.004 mg 0.004 mg 0.004 mg 0.004 mg 0.004 mg 0.005 mg 0.005 mg 0.005 mg 0.016 mg 0.016 mg 0.020 mg 0.032 mg 0.047 mg 0.111 mg 0.176 mg	Using Calibration of weights of F1 Class and lower as per OIML R 111, using E2 Class weights and 26 g Electronic balance with readability of 0.001 mg (ABBA method) Using Calibration of weights of F1 Class and lower as per OIML R 111, using E2 Class weights and 220 g Electronic balance with readability of 0.01 mg (ABBA method)

Rajeshwar Kumar
Convenor

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Program Manager

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
		500 g 1 kg 2 kg 5 kg	1.0 mg 1.5mg 3.0 mg 3.0 mg	Using Calibration of weights of F1 Class and lower as per OIML R 111, using E2 Class weights and 26 kg Electronic balance with readability of 1 mg (ABBA method)
		10 kg 20 kg	8.7mg 20 mg	Using Calibration of weights of F2 Class and lower as per OIML R 111, using F1 Class weights and 26 kg Electronic balance with readability of 1 mg (ABBA method)
II.	WEIGHING SCALE AND BALANCE			
1.	Electronic Weighing Balance* d=0.001 mg and above d=0.01 mg and above d=0.01 mg and above d=0.1 mg and above d=1mg and above	0 to 20 g >20 g to 50 g >50 g to 200 g >0.2 kg to 10 kg >10 kg to 20 kg	0.05 mg 0.05 mg 0.1 mg 11.5mg 32mg	Using Calibration of Electronic Weighing Balance of Class II and coarser using E2 Class weights

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

\$ Only in Permanent Laboratory

*Only for Site Calibration

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