

Laboratory Calibration Laboratory, Medical Engineering & Services, Door No. XI/411/21, Abhcon Crown, Ambadilane, Kokkala, Thrissur, Kerala

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2543

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Validity 18.01.2018 to 17.01.2020

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I.	VOLUME			
1.	Micro-Pipettes ^s	10 μ l to 100 μ l > 100 μ l to 200 μ l > 200 μ l to 500 μ l > 500 μ l to 1000 μ l > 1000 μ l to 5000 μ l	0.12 μ l 0.12 μ l 0.2 μ l 0.6 μ l 1.1 μ l	Using Digital Balance Up to 60/200g readability 0.01/0.1 mg and distilled water of known density
2.	Glass Wares, Pipettes ^s (Graduated/ Non-Graduated)	0.1 ml to 10 ml > 10 ml to 25 ml	1.6 % rdg. 1.0 % rdg.	Using Digital Balance Up to 60/200g readability 0.01/0.1 mg and distill water of known density
3.	Glass Burettes ^s	1 ml to 10 ml > 10 ml to 25 ml	1.6 % rdg. 1.0 % rdg.	Using Digital Balance Up to 60/200g readability 0.01/0.1 mg and distill water of known density
4.	Measuring Cylinder/ Volumetric Flask/ Conical Flask/ Beaker ^s	> 1 ml to 10 ml > 10 ml to 50 ml > 50 ml to 100 ml	1.6 % rdg. 1.0 % rdg. 0.6 % rdg.	Using Digital Balance Up to 60/200g readability 0.01/0.1 mg and distill water of known density

Abhinav Thakur
Convenor

Avijit Das
Program Director

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II.	MASS			
1.	Weights [§] Calibration of F Class and coarser	1 mg 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	0.01 mg 0.01 mg 0.01 mg 0.01 mg 0.01 mg 0.01 mg 0.01 mg 0.01 mg 0.01 mg 0.011 mg 0.02 mg 0.02 mg 0.02 mg 0.02 mg 0.03 mg 0.032 mg 0.106 mg 0.112 mg	Using E2 Class Standard Weights and Digital Balance up to 60/200 g Readability 0.01/0.1 mg As per OIML R 111
IV.	WEIGHING SCALE AND BALANCE			
1.	Weighing Balance [#] d:0.01mg & Coarser d: 0.1 mg & Coarser d: 1 mg & Coarser	(0 to 60)g (> 60 to 200) g (> 200 to 500) g	0.076 mg 0.4 mg 1.5 mg	Using Standard Weights (E2 Class) as per OIML R-76-1

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

§ Only in Permanent Laboratory

* Only for Site Calibration

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

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