Laboratory Regional Reference Standard Laboratory, P.O. IMMT, Bhubaneswar,

Odisha

Accreditation Standard ISO/IEC 17025: 2005

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Validity 06.12.2017 to 05.12.2019 Last Amended on -

Quantity Measured / Range/Frequency	*Calibration Measurement	Remarks			
Instrument	Capability (±)				
MECHANICAL CALIBRATION					
WEIGHTS					
. Mass* 1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 100 mg 200 mg 200 mg 500 mg 5 mg 1 g 2 g 5 g	0.006 mg 0.006 mg 0.006 mg 0.008 mg 0.010 mg 0.012 mg 0.016 mg 0.020 mg 0.025 mg 0.03 mg 0.03 mg 0.06 mg	Using Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111 & NABL-122-02			
10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg	0.22 mg 0.22 mg 0.22 mg 0.66 mg 2.3 mg 2.3 mg 3.5 mg 4.2 mg 4.2 mg 5.1 mg	Using Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class M1 Accuracy and Coarser based on OIML R 111 & NABL-122-02			
. WEIGHING SCALE AND BALANCES					
. Weighing Balance [#] (0 to 5) g, d= 0.1 μg (>5 to 200) g d= 0.1 mg and Coarser (200g to 2kg), d= 0.1 mg and Coarser (>2 to 10) kg,	0.017 mg 3.13 mg 5.06 mg 9.08 mg	Using Calibration of Electronic Weighing Balance of Class I and Coarser as per OIML R-76-1 :2006 and NABL-122-03			
<u>d</u> (= 0.1 mg and Coarser	= 0.1 mg and Coarser			

Ram Ashray Convenor Avijit Das Program Director

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
III.	VOLUME			
1.	Volume [§]	1 ml to 20 ml	0.15 ml	By Gravimetric method - Digital Precision Balance and distilled water of known density as per ISO 4787 & ISO/TR 20461 and
		>20 ml to 50 ml	0.25 ml	
		>50 ml to 100 ml	0.02 ml	
		>100 ml to 500 ml	0.21 ml	
		>500 ml to 1 l	0.1 ml	
		>1 l to 2 l	0.4 ml	NABL 122-04
		>2 I to 5 I	1 ml	147 DE 122 04

Ram Ashray Convenor

^{*} Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95% *Only in Permanent Laboratory

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