Nagar, K.R. Puram, Avarampalayam Road, Coimbatore, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

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Validity 05.08.2017 to 04.08.2019 Last Amended on 06.12.2017

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks		
	MECHANICAL CALIBRATION					
I.	VOLUME					
1.	Piston Operated Micropipettes ^{\$}	1 µl to 50 µl 50 µl to 100 µl 100 µl to 200 µl 200 µl to 500 µl 500 µl to 1000 µl 1000 µl to 5000 µl 5000 µl to 10000 µl	0.08 µl 0.10 µl 0.10 µl 0.10 µl 0.10 µl 0.35 µl 0.50 µl	Using Precision Weighing Balances (Readability = 0.001mg / 0.01mg / 0.1mg) and as per ISO 8655:2002 Part - 6 standard and ISO TR20461:2000		
2.	Piston Operated Burettes ^{\$}	1 ml to 50 ml	5.54 μΙ	Using Precision Weighing Balances (Readability = 0.001mg / 0.01mg / 0.1mg) and as per ISO 8655:2002 Part -6 and ISO TR 20461:2000		
3.	Piston Operated Dispenser ^{\$}	1 ml to 60 ml	10 μΙ	Using Precision Weighing Balances (Readability = 0.001mg / 0.01mg / 0.1mg) and as per ISO 8655:2002 Part -6 and ISO TR 20461:2000		
4.	Pipette Controllers\$	50 ml	0.60 μΙ	Using Precision Weighing Balances (Readability = 0.001mg / 0.01mg / 0.1mg) and as per ISO 8655:2002 Part - 6 and ISO TR 20461:2000		

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
5.	Volumetric Glassware ^{\$} Graduated Pipettes/ Volumetric Pipettes Burette Measuring	1 ml to 100 ml	0.1 μl 0.15 μl	Using Precision Weighing Balances (Readability = 0.01mg / 0.1mg / 10mg) and distilled water as per on IS/ISO 4787, ISO/TR
	Cylinder/Volumetric and conical flask, Graduated Beaker	1ml to 2000ml	0.9 μl to 37 μl	20461
II.	MASS			
1.	Weights ^{\$} (Class E2 and Coarser)	1mg 2mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500mg 1g 2g 5 g 10 g 20 g 50 g 100 g 200 g	0.001 mg 0.001 mg 0.001 mg 0.001 mg 0.001 mg 0.001 mg 0.002 mg 0.002 mg 0.003 mg 0.003 mg 0.004 mg 0.005 mg 0.016 mg 0.012 mg 0.011 mg 0.083 mg 0.085 mg	Using Standard Weights of class E1 & Precision weighing balances (Readability = 0.001mg / 0.01mg / 0.1mg / 0.1mg / 10mg) and Procedures based on OIML R111-1:2004 standard
	F1 Class and Coarser	500 g 1000 g 2000 g 5000 g	0.82 mg 0.83 mg 8.18 mg 8.28 mg	

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
III.	WEIGHING SCALE AND BALANCE			
1.	Electronic Weighing Balances# Readability 0.001mg Readability 0.01 mg Readability 0.1mg Readability 1 mg Readability 1 mg	Upto 10 g Upto 100 g Upto 220 g Upto 1 kg Upto 6.2 kg	0.01 mg 0.05 mg 0.28 mg 1.57 mg 10.39 mg	Using E1 class Standard Weights as per OIML R76-1:2006

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks		
	THERMAL CALIBRATION					
I.	TEMPERATURE					
1.	Liquid In Glass Thermometer ^{\$}	50°C to 250°C	0.89°C	Using RTD Sensor With Liquid Block Calibrator By Comparison Method		
2.	Digital Thermometer With Sensor#	(-)35°C to 300 °C	1.24°C	Using RTD sensor with Dry Block Calibrators by Comparison Method		
3.	RTD, Thermocouples, Temperature Indicators With Sensors Of Low	(-)35°C to 120°C	0.69°C	Using RTD sensor with Dry Block Calibrators by Comparison Method		
	Temperature Bath, Oven, Incubators, Centrifuge, Furnace, Deep Freezers, Autoclaves, Water Bath & Dry Bath#	120°C to 400°C	0.74°C	Using RTD sensor with Dry Block Calibrators by Comparison Method		
		400°C to 600°C	0.84°C	Using RTD sensor with Dry Block Calibrators by Comparison Method		
		600°C to 1500°C	6.90°C	Using R-Type Thermocouple with Dry Block Furnace Calibrators by Comparison Method		

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

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Convenor Program Director

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