Laboratory Eppendorf Calibration Services, Plot No: 18, 19, 20 (Part), Ambit Park

Road, SIDCO Industrial Estate (South Phase), Ambattur, Chennai,

Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2481 (in lieu of C-0773, C-1159 & Page 1 of 3

C-1160)

Validity 15.11.2017 to 14.11.2019 Last Amended on 06.12.2017

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks					
	ELECTRO-TECHNICAL CALIBRATION								
1.	Time & Frequency Timers of Centrifuge, Mixmate, Incubator, Shaker, Water Bath, Autoclave, Oven, Dry Bath	60 s to 3600 s	0.59 s to 8.3 s	Using Digital Stop Watch by Comparison Method					

Ashish Kakran Convenor Avijit Das Program Director Laboratory Eppendorf Calibration Services, Plot No: 18, 19, 20 (Part), Ambit Park

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2481 (in lieu of C-0773, C-1159 & Page 2 of 3

C-1160)

Validity 15.11.2017 to 14.11.2019 Last Amended on 06.12.2017

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks					
	MECHANICAL CALIBRATION								
I.	ACCELERATION AND SPEED								
1.	Speed - RPM, Centrifuges, Shakers and Mixers*	25 rpm to 30000 rpm	22 rpm	Using Digital Tachometer (Non- Contact) By Comparison Method					
II.	VOLUME								
1.	Volume-Micropipette ^{\$} (Piston Operated)	10 µl to 20 µl >20 µl to 100 µl >100 µl to 200 µl >200 µl to 300 µl >300 µl to 1000 µl >1 ml to 5 ml >5 ml to 10ml	0.13 µl 0.13 µl 0.15 µl 0.18 µl 0.26 µl 1.07 µl 2.69 µl	Using Electronic Balance with least count of 0.01mg/0.1mg (100g/220g) and Distilled Water as per ISO 8655-6 and uncertainty evaluation as per ISO 20461					

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SI.	Quantity Measured / Instrument	, , ,	*Calibration Measurement Capability (±)	Remarks					
	THERMAL CALIBRATION								
l.	TEMPERATURE								
1.	Temperature Indicator/Controller of Oven, Incubator, Centrifuge, Deep Freezer, Refrigerator, Autoclave, Furnace, Water Bath, Dry Bath (Single Point)	(-) 196 °C (-) 80 °C to 37 °C 37 °C to 200 °C	0.9 °C 0.6 °C 1.2 °C	Using Digital Thermometer with Probe Sensor By Comparison Method					

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

Ashish Kakran Convenor

^{\$}Only in Permanent Laboratory

^{*}Only for Site Calibration

^{**} Relative accuracy error has not been considered for CMC estimation.