



# TMSCC

TESTING MACHINE SERVICE AND CALIBRATION CENTRE  
Precision is Our Destination.....



An NABL Accredited Calibration Laboratory  
A Constituent Board of Quality Council of India  
An ISO 9001 : 2015 Certified company

CC - 3125

Calibration of Various Instruments & Testing Machines...

Form No.: TMSCC/R/23

## CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE NO.: 2023/03/425 Page 1 of 2

ISSUE DATE : 17-Mar-2023

ULR No. : CC312523000002554F

1.0 ISSUED TO: M/s.: Anubhab Life care  
2/8, Jessore Road(East),Genjimill ,  
Near Barasat Medical College ,Barasat, North 24 pgs,W.B

1.1 Service Request Form No. : SRF/2023/03/11/01

1.2 Service Request Date : 11-03-2023

1.3 Location: At Lab

Description identification of item to be calibrated:

1.4	i	Name:	Micro Pipette	ii	Make:	FIXA PIPETTE
	iii	Model / Type No.:	--	iv	S/L No.:	--
	v	I.D.No.:	ALC/MIP/F1	vi	Job Code No:	2023/03/425
	vii	Range:	(100) $\mu$ l	viii	Resolution:	--
	ix	Accuracy	As Per ISO 8655-6	x	End User :	--

1.5 Full / Partial Calibration: Full Calibration

1.6 Applicable specification of item to be calibrated: Accuracy / permissible limit: Not Specified.

1.7 Date of receipt of item: 11-Mar-2023 1.8 Date of calibration: 11-Mar-2023

1.9 Calibration due on: 11-Mar-2024 2.0 Frequency of calibration once in: 366 Days

2.1 Environmental condition during calibration  
Temperature: 25°C  $\pm$  4°C  
Humidity: (50  $\pm$  10)% RH

2.2 Basis of calibration: SOP/04/02

- The above Instrument has been calibrated over its range and the results are tabulated from page 2 of report.
- The Calibration Certificates relates only to the above DUC & reported results are valid at the time of and under the stated conditions of measurements.
- Errors if any, in this certificate shall be brought to notice within 45 days from the date of this certificate.
- NABL-133 guidelines are adopted for use of NABL symbol.
- This certificate shall not be reproduced, except in full, without the written permission of TMSCC
- Corrections/erasing. invalidate the Calibration Certificate- exception to the 'Final Page or Part of this Report- provided for incorporation of additional data( To be filled by customer authorized signatory and not under calibration laboratory control).
- Laboratory Standards are traceable to National Standards
- In Result Sheets, 'Pass' indicates measured readings are within specification limit, 'Fail' Indicates measured readings are out of specification limit & '-' indicates no specification limit furnished.

2.3 Traceability : Standards used for calibration are traceable to National Standards through NABL accredited Laboratory.

Name of the Instrument	Sl. No./ Id No.	Certificate No.	Lab Certificate No.	Calibrated On	Due On
Digital Weighing Balance	(TMSCC/EB/01) (Sl. No.- 14255716)	TSC/22-23/12101-25	CC-2231	15-11-2022	15-11-2023
Digital Temperature Indicator with Sensor(RTD)	Sl. No.- 18K588073 (Sensor Sl. No.- 19102403)	TSC/22-23/12095-36		17-11-2022	17-11-2023



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## CALIBRATION RESULTS

Recorded Temperature : 20.1°C

Sl. No.	Denomination Volume in $\mu$ l	Observed Reading at Ref. Std. Balance in g	Density of De-ionized Water in g/ml	Actual volume in $\mu$ l	Mean Volume in $\mu$ l	Error in $\mu$ l	MPE in $\pm \mu$ l	Measurement Uncertainty in $\pm \mu$ l	Acceptance Criteria
1	100	0.09983	0.998183	100.01663	100.04075	0.04075	0.5	1.83	Pass
2	100	0.09993	0.998183	100.11190					Pass
3	100	0.09978	0.998183	99.96163					Pass
4	100	0.09980	0.998183	99.98167					Pass
5	100	0.09995	0.998183	100.13194					Pass

Measurement Uncertainty at 95% confidence level where coverage factor, k=2

**Remarks:** The above DUC has been calibrated over its above range & the readings observed are tabulated above. The reference standard used is traceable to National Standard.

DUC: Device Under Calibration

Physical status of the Instrument : Ok

Calibrated By :

Checked By :

Approved By :

J. Bhattacharjee

S. Chowdhury

C. Ghosh

(Sr. Calibration Engineer)

(Quality Manager)

(Technical Director)

END OF CERTIFICATE

