



# TMSCC

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

An ISO 9001 : 2015 Certified company  
Calibration of Various Instruments & Testing Machines...



CC - 3125

Form No.: TMSCC/R/23

## CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE NO.: 2023/07/266 Page 1 of 1

ISSUE DATE: 13-Jul-2023

ULR No.: CC312523000099531P

1.0 ISSUED TO: M/s.: South Calcutta Diagnostic Center  
570, Tentulberia Road, P.O.: Garis,  
P.S.: Sonarpur, Kolkata - 700084



1.1 Service Request Form No.: SR/R/2023/07/03-03

1.2 Service Request Date: 03/07/2023

1.3 Location: All Lab

Description identification of item to be calibrated:

1.4	i Name	Micro Pipette	ii Make	-
	iii Model / Type No.	-	iv SL No.	-
	v ID No.:	5CDC/MP-02	vi Job Code No.:	2023/07/266
	vii Range	(10 to 100) µl	viii Resolution :	1 µl
	ix Accuracy	As Per ISO 8655-6	x End User :	-

1.5 Full / Partial Calibration: Partial Calibration

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

1.7 Date of receipt of item: 3-Jul-2023 1.8 Date of calibration: 3-Jul-2023

1.9 Calibration due on: 2-Jul-2024 2.0 Frequency of calibration once in: 12 Months

2.1 Environmental condition during calibration: Temperature: 20.3°C  
Humidity: 52% RH

2.2 Basis of calibration: SOP/04/02

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	CC - 2231	17-11-2022	17-11-2023

## CALIBRATION RESULTS

SL No.	Denomination Volume in µl	Observed Reading at Ref. Std. Balance in g (Avg. of five readings)	Density of De ionized Water in g/ml	Actual volume in µl	Error in µl	MPE in ± µl	Measurement Uncertainty in ± µl	Acceptance Criteria
1	20	0.02000	0.998183	20.03418	0.03418	0.2	1.93	Pass
2	30	0.03000	0.998183	30.05127	0.05127	0.5	1.93	Pass
3	50	0.04999	0.998183	50.08546	0.08546	0.5	1.93	Pass
4	70	0.06999	0.998183	70.11964	0.11964	0.8	1.93	Pass
5	100	0.09999	0.998183	100.17091	0.17091	0.8	1.93	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 :

J. Bhattacharjee  
(Sr. Calibration Engineer)

Checked By :

S. Chowdhury  
(Quality Manager)



Approved By :

C. Ghosh  
(Technical Director)

END OF CERTIFICATE