

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

Calibration of Various Instruments & Testing Machines...

CC - 3125

Form No.: TMSCC/R/23

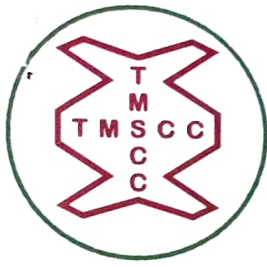
CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE NO.:	TMSCC-1124-22-23	Page 1 of 2
ISSUE DATE :	26-May-2022	
ULR No.:	CC31252200002178F	
1.0 ISSUED TO:	M/s.: ICTC, MCH 88, College Street, Kolkata - 700 073	
1.1 Service Request Form No. :	SRF/22-23/05/042	
1.2 Service Request Date :	02-05-2022	
1.3 Location:	At Lab	

1.4	Description identification of item to be calibrated:				
	i Name:	Micro Pipette	ii Make:	Microlit	
	iii Model / Type No.:	Fixed	iv S/L No.:	20105656	
	v I.D.No.:	--	vi Job Code No:	22-23/1124	
	vii Range:	100 µl	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:	24-May-2022	1.8 Date of calibration:	24-May-2022		
1.9 Calibration due on:	24-May-2023	2.0 Frequency of calibration once in:	365	Days	
2.1 Environmental condition during calibration	Temperature:	25°C ± 4°C			
	Humidity:	(50 ± 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/21-22/11157-1	CC-2231	15-11-2021	15-11-2022
Digital Temperature Indicator with Sensor(RTD)	Sl. No.- 18K588073 (Sensor Sl. No.- 19102403)	TSC/20-21/7842-36		24-11-2020	24-11-2022



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Form No. : TMSCC/R/23						CC No. :	TMSCC-1124-22-23			
						Date :	26-05-2022			
						Page No. :	2 of 2			
CALIBRATION RESULTS										
Recorded Temperature : 20.1°C										
Sl. No.	Denomination Volume in μ l	Observed Reading at Ref. Std. Balance in g (Avg. of five readings)	Density of De-ionized Water in g/ml	Actual volume in μ l	Mean reading in μ l	Error in μ l	MPE in \pm μ l	Measurement Uncertainty in \pm μ l	Acceptance Criteria	
1	100	0.09999	0.998183	100.16947	100.15647	0.15647	0.8	1.94	Pass	
2	100	0.09998	0.998183	100.16074					Pass	
3	100	0.09997	0.998183	100.15072					Pass	
4	100	0.09998	0.998183	100.16074					Pass	
5	100	0.09996	0.998183	100.14070					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 :

R. Ghosh
(Calibration Engineer)

Checked By :

S. Chowdhury
(Quality Manager)

Approved By :

C. Ghosh
(Technical Director)

END OF CERTIFICATE

