



# 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.:	2023/12/1422	Page 1 of 1
ISSUE DATE :	31-Dec-2023	
ULR No.:	CC312523000021198F	
1.0 ISSUED TO:	M/s.: KHARIKAMATHANI RH-SA-ICTC VIII. & P.O.: Kharikamathani, P.S.: Nayagram, Jhargram - 721159.	
1.1 Service Request Form No. :	SRF/2023/12/29/02	
1.2 Service Request Date :	29-12-2023	
1.3 Location:	At Lab	

Description identification of item to be calibrated:					
1.4	i Name:	Micro Pipette	ii Make:	Microlit	
	iii Model / Type No.:	-	iv S/L No.:	--	
	v LD.No.:	KMRH-ICTC-MP-02	vi Job Code No:	2023/12/1422	
	vii Range:	100 µl	viii Resolution:	--	
	ix Accuracy	As Per ISO 8655-6	x End User :	--	

1.5 Full / Partial Calibration:	Full Calibration
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1.6 Applicable specification of item to be calibrated: Accuracy / permissible limit.	Not Specified.
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1.7 Date of receipt of item:	29-Dec-2023	1.8 Date of calibration:	29-Dec-2023
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1.9 Calibration due on:	28-Dec-2024	2.0 Frequency of calibration once in:	12 Months
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2.1 Environmental condition during calibration	Temperature:	20.3 °C
	Humidity:	54 % RH

2.2 Basis of calibration:	SOP/04/02
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2.3 Traceability : Standards used for calibration are traceable to National Standards through NABL accredited Laboratory.

Name of the Instrument	SI No./Id No.	Certificate No.	Lab Certificate No.	Calibrated On	Due On
Digital Weighing Balance	(TMSCC/EB/01) (SI. No.- 14255716)	TC/23-2/4262-04	CC - 2230	09-11-2023	08-11-2024
Digital Temperature Indicator with Sensor(RTD)	(Indicator SI. No.- 18K588073) (Id No.- TMSCC/RTD/01)	TSC/23-24/13010-4	CC - 2231	09-11-2023	08-11-2024

### CALIBRATION RESULTS

SL No.	Denomination Volume in µl	Observed Reading at Ref. Std. Balance in g	Density of De Ionized Water in g/ml	Actual volume in µl	Mean Volume in µl	Error in µl	MPE in ± µl	Measurement Uncertainty in ± µl	Acceptance Criteria
1	100	0.09989	0.998141	100.07404	99.81215	-0.18785	0.5	0.027	Pass
2	100	0.09976	0.998141	99.94279					Pass
3	100	0.09964	0.998141	99.82758					Pass
4	100	0.09953	0.998141	99.71337					Pass
5	100	0.09932	0.998141	99.50298					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. Bhatnagarjee  
(Sr. Calibration Engineer)

Checked By :

S. Chowdhury  
(Quality Manager)

Approved By :

C. Ghosh  
(Technical Director)



END OF CERTIFICATE