



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.:		2023/12/1412		Page 1 of 1				
ISSUE DATE:		31-Dec-2023						
ULR No.:		CC312523000020995P						
1.0	ISSUED TO:	M/s.: Hijli Rural Hospital Kharagpur-1, Prembazar, P.O.: Hijli Co-Operative Society, Paschim Medinipur, West Bengal-721306						
1.1	Service Request Form No.:	SRF/2023/12/29/01						
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:	Dragon Lab		
	iii	Model / Type No.:	--	iv	S/L No.:	YE226AX0390739		
	v	I D No.:	HRH/ICTC/MP-2	vi	Job Code No:	2023/12/1412		
	vii	Range:	(5 - 50) µl	viii	Resolution:	0.5 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:	29-Dec-2023	1.8	Date of calibration:	29-Dec-2023			
1.9	Calibration due on:	28-Dec-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)	TC/23-24/4262-04	CC - 2230	09-11-2023	08-11-2024		
Digital Temperature Indicator with Sensor(RTD)		(Indicator Sl. No.- 18K588073) (Sensor 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 (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	0.01998	0.998141	20.01220	0.01220	0.20	0.033	Pass
2	25	0.02497	0.998141	25.01525	0.01525	0.20	0.033	Pass
3	30	0.02996	0.998141	30.01830	0.01830	0.50	0.033	Pass
4	40	0.03995	0.998141	40.02441	0.02441	0.50	0.033	Pass
5	50	0.04994	0.998141	50.03051	0.03051	0.50	0.033	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