



ELECTRO METER CORPORATION
P- 5, C.I.T ROAD,
KOLKATA - 700014

Form No. FM/22
Issue No 10 and Issue Date: 31.12.2022

**CALIBRATION CERTIFICATE OF:
MICRO PIPETTE**

CALIBRATION CERTIFICATE NO: EMC2023-KOL-00028821		DUPLICATE NO: CC2147230000221999		Page: 1/1	
1.0 ISSUED TO:		Shri Medscan Imaging Center Damana Square, Padmaavati Vihar, Near Max Showroom, Bhubaneswar, Odisha - 751021			
1.1 Service Request / Order No.					
1.2 Description identification of item to be calibrated:					
i	Name:	MICRO PIPETTE	ii	Code No.:	--
iii	SI. No.:	PC547333	iv	Make:	--
v	Model / Type No.:	--	vi	Range:	10µl to 100µl
vii	Sensor:	--	viii	Resolution:	1 µl
ix	Location:	CENTRAL LAB	x	Cal. Performed:	At Lab
1.3 Applicable specification of item to be calibrated: Accuracy / permissible limit:				Not Specified	
1.4 Date of receipt of item:		27-May-2023	1.5 Date of calibration:		27-May-2023
1.6 Recommended date for next calibration		27-May-2024	1.7 Report Issue Date:		27-May-2023
1.8a	Environmental condition during calibration	Temperature:	20.7 °C		
		Humidity:	55.9 % RH		
		Atmospheric pressure:	1005.6 mbar		
		Water Temperature:	20.6 °C		
1.8b	Recommended Environmental Condition	Temperature:	20°C ± 2°C		
		Humidity:	50% RH ± 10% RH		
1.9 Basis of calibration:		S.O.P Number	S.O.P/MASS/08		

2.0 Standard Equipment Used for Calibration are Traceable to National/International Standards through ISO/IEC: 17025:2017 Accredited Laboratory.

Sl. No.	Name of the standard instrument used (Sl. No./Code Nos.)	Range	Resolution	Recommended date for next calibration	Certificate Nos.
1	Weight Box, Make: Mettler Toledo, Grade: E1, Sl. No. B309075500, Code No. EMC/WB-E1/629	1 mg to 200 g	-	20-04-2025	WMCL/E/2022-04/1794
2	Micro Balance, Make: Mettler Toledo, Model No: XP6, Sl. No. B713878915, Code No. EMC/MB/766	6.1 g	0.000001 g	13-08-2023	EMC2022-KOL-00042925
3	Digital Temperature & Humidity Meter, Make: EMC, Model No. THSM-05, Sl. No. THG-04, Code No. EMC/DTHM/997	18°C to 25°C (for Temperature) & 40% RH to 75% RH (for Humidity)	0.1°C (for Temperature) & 0.1% RH (for Humidity)	30-05-2023	EMC2022-KOL-00070841
4	Digital Temperature Indicator, Make: Metravi, Model No. DTI-111, Sl. No. 503, Code No. EMC/DTI/267	(-)50°C to 199.9°C	0.1°C	28-10-2023	EMC2022-KOL-00044640
5	Digital Pressure Gauge (Absolute Pressure) Sl. No. D12B151 Model. YDPIR0101, Code No: EMC/APG/574	0 bar to 1.5 bar (Abs)	0.0001 bar	03-09-2023	WCP/021-407

Disciplines: Mechanical Group: Volume

CALIBRATION RESULT							
Nominal Range	Resolution	Nominal Value	Value determined by Electronic Balance in	Actual value determined after temp correction in	Error in	Expanded Uncertainty (±)	k factor
		(µl)	(mg)	(µl)	(µl)	(µl)	
10 µl to 100 µl	1 µl	10	9.3266	9.354	-0.646	0.004	2.00
		50	48.4147	48.558	-1.442	0.006	2.00
		100	96.3036	96.589	-3.411	0.011	2.00

Note: i) Average of 10 readings had been taken in DUC/STD.
 ii) The Calibration result is only to be used for scientific purpose.
 iii) The calibration certificate issued by Electro Meter Corporation refers only for the particular item submitted to calibrate.
 iv) Entire certificate should be produced for all purposes. Partial production of an extract of the certificate needs approval from the technical or the quality manager of the lab.
 v) The results in the calibration certificate are valid at the time and the stated conditions of measurement.

Measurement uncertainty at approx 95 % of confidence level & at a coverage factor : As Per Calibration Result

Remarks: NA
 DUC- Device Under Calibration FS- Full Scale Physical status of the DUC: OK

Calibrated by: **Raja Dhali**
(Callibration Engineer)

Approved by: **Saptarshi Das**
(Technical Manager)

END OF CERTIFICATE