



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

Form No. FM/22  
Issue No. 10 and Issue Date: 11.12.2022

**CALIBRATION CERTIFICATE OF:  
MICRO PIPETTE**

CALIBRATION CERTIFICATE NO: **EMC2023-KOL-00020020** IIR NO: **CC214723000022197F** Page: 1/1

1.0 ISSUED TO  
**Shri Medscan Imaging Center  
Damana Square, Padmavati 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 SL No.:	YE168AA0004102	iv Make:	--
v Model / Type No.:	--	vi Range:	0µl to 1000µl
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 (z)	k factor
		(µl)	(mg)	(µl)	(µl)	(µl)	
0 µl to 1000 µl	1 µl	0	0.0589	0.046	0.046	0.019	2.00
		500	498.4110	499.391	-0.109	0.059	2.00
		1000	996.3086	999.265	-0.734	0.120	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 **ES-Full Scale** Physical status of the DUC: **OK**

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

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

END OF CERTIFICATE





1000	8
500	4
200	1.6
100	0.8
50	0.4
20	0.16