



# NENO TECHNICAL SERVICES

(Near to True Value)



## CALIBRATION CERTIFICATE

Certificate No. : NTS/B/L-403  
User Name : REGIONAL RESEARCH INSTITUTE OF UNANI MEDICINE  
Chandbali By-Pass Road, Near Rural Police Station, Bhadrak-756100, Odisha

Gauge For Calibration	MICRO PIPETTE	
Make	BOROSIL	
Range	100-1000 $\mu$ l	
Least Count	10 $\mu$ l	
Instrument Id. No.	---	
Instrument Sr. No.	11102437	
Visual Inspection	OK	
Material Receipt Date	28.04.2023	
Date of Calibration	28.04.2023	
Suggested Due Date of Calibration	27.04.2024	
<b>ENVIRONMENTAL CONDITION</b>		
Temperature	22 $\pm$ 3°C	
Relative Humidity	50 $\pm$ 10 %RH	

### Equipment & Master Used For calibration

#### 01. DIGITAL ELECTRONIC BALANCE

Make : ACZET  
Sr. No. : 18412985  
Certificate No. : PMM/090223/21-1  
Next Due Date : 08.02.2024  
Traceability : PMMPL

#### 02. A SET OF WEIGHTS (F1-Class)

Make : WEIGHTRONICS  
Id No. : NTS/B/M/09  
Certificate No. : PMM/120822/13-1  
Next Due Date : 11.08.2023  
Traceability : PMMPL  
Note:- Standard Weight 1mg to 200g

## OBSERVATION RESULTS

Sr. No.	NOMINAL VALUE (UUC) ( $\mu$ l)	OBSERVED VALUE (MASTER) (ml)
1.	200	0.2003
2.	400	0.4008
3.	600	0.6015
4.	800	0.8027
5.	1000	1.0042

Note:- Coefficient of Cubical Thermal expansion of glass  $10 \times 10^{-6}/^{\circ}\text{C}$  & (Water temp. 21.0°C) 0.0308g Add to Mass (grams) of pure water at t°C to obtain capacity of vessel at 27°C as per IS: 8897

Calibration Procedure Based On : CP/M-22 ( Ref. IS:8897)

Uncertainty of Measurement :  $\pm 5.64 \mu$ l (The uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor k=2 corresponds to confidence level of 95.45%)

### NOTE : -

1. The calibration results reported in this certificate are valid at the time of and the stated condition of measurement.
2. This report should not be reproduced except in full without our prior permission in writing.
3. Calibration certificate without signature are not valid.
4. All our certificates are Traceable to National standard..
5. UUC : Unit under calibration, GUT : Gauge under testing.

Calibrated By (S. Nayak)  
F01(5.10/01)  
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Issued / Approved By  
(D. Majhi)  
Dy. T.M. / Quality Manager

ISO/IEC: 17025:2017 Accredited Lab

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