			SURE TECH							
		ATTER								
	2, B.1									
	2, B.T. ROAD (JAYANTI CINEMA COMPLEX), BARRACKPORE, KOLKATA - 700120, W.B.									
Phone : 033 - 2215 - 0032, 2215 - 9687, 8100875519, Mobile: 9831190974,										
LAB:- 8100143376, E-mail: measuretechno@yahoo.co.in										
		RATION CERTI								
	CC - 2545									
CALIBRATION CERTIFICATE NO.:MTL / MMCH / R06 / 04 - 23				ULR - CC2545230	00009278F	Page: 1 of 1				
1.0 Service Request No.: MTL / 05A / 04 / 23 - 24										
1.1 issued to: HIV Testing Laboratory,										
		ICTC (ANC) Unit,								
	Midnapore Medical College & Hospital,									
		Paschim Medinipur								
1.2 Description &		a) Name:	Micro Pipette	b) Code No.:	MMCH / ICTC / ANC / MP - 02					
<b>Identification</b> of item		c) Sl. No.:	19303190	d) Make:	Microlit	,				
to be Calibrated:		e) Model / Type:	N.S.	f) Range: 50 µl (Fixe						
		g) Sensor:	N.A.	h) Resolution:	N.A.					
		i) End User:	Laboratory	j) Accuracy:	N.S.					
		k) Calibration don		te / √ In House						
<b>1.3 Date of receipt of item :</b> 05-04-23				1.4 Physical Condition of DUC : OK						
1.5 Date of calibration :		07-04-2		commended date of	n: 07-04-24					
1.7 Date o		10-04-2								
<b>1.8 Environmental Conditions During Calibration</b>				Temperature:20 °C ± 2 °C						
				•	6 RH to 75 % RH					
					).4 mbar					
	d of Calibratio	n: SOP/	MASS / 02 ( As F	er ISO : 8655 - 6 : 20	02)					
2.0 Tracea	•									
a)Standards used for calibration are traceable to National standards through NABL Accredited Laboratory.										
b) The following standards / Equipment have been used. i) Digital Thermometer With Sensor Cal. Certificate No. MTL / TH / DTM / R01 / 09 - 22 (MTL, Barrackpore) (Cal. Date: 16/09/22, Due Date: 16/09/23)										
	nometer With Sensor . Certificate No. NC-2				Cal. Date: 16/09/22, Du	e Date: 16/09/23)				
ii) weigins Cat	. Ceruncate No. NC-2	10 (NSTAR, Ahmedaba	ad) (Cal. Date: 16/03	i/22, Due Date: 15/05/25)						

## 2.1 Result :

**Mechanical Calibration** 

SI. No.	Parameter/ Range	Nominal Value µl	Mass of Water mg	Volume of Water at 20 °C µl	Error µl	Measurement Expanded Uncertainty ± µl
1.	Volume 50 µl (Fixed)	50	49.5843	49.7826	-0.2174	0.39

Remarks: i) Cubical Expansion co - efficient of pipette material taken as  $10^{-5} \mu$  / °k.

ii) This result has an expanded uncertainty with a coverage factor k=2 at approximately 95% confidence level.iii) The calibration certificate issued for this instrument is to be used for scientific or industrial purposes only.

**DUC - Device Under Calibration** 

N.S. - Not Specified

N.A. - Not Applicable

<b>Opinions and Interpret</b>	Opinions and Interpretations				
Calibrated	$\checkmark$	Accepted / Valid for use			
Limited Use		Rejected / Out of use			
Calibration Engine Calibration Engine Measure Techno L Kalkajatra Calibration Enginee	2/	Checker / . Book KO Quality Mee	Appriver by:		
Form No MTL/22/2006	Issue No. : 2 Issue Date : 10.11.06		04 Rev. Date : 01.04 22		