



MEASURE TECHNO LAB

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KOLKATA - 700120, W.B.

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CC - 1545

CALIBRATION CERTIFICATE OF DIGITAL THERMOMETER

CALIBRATION CERTIFICATE NO.: MTL / MMCH / R01 / 04 - 23

ULR - CC254523000008972F

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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 & Identification of item to be Calibrated:	a) Name:	Digital Thermometer	b) Code No.:	MMCH / ICTC / ANC / DT - 01
	c) Sl. No.:	N.S.	d) Make:	N.S.
	e) Model / Type:	ST - 9283B	f) Range:	(-) 50 °C to 300 °C
	g) Sensor:	N.A.	h) Resolution:	0.1 °C
	i) End User:	Laboratory	j) Accuracy:	N.S.
	k) Calibration done at:	√ On Site / In House		

1.3 Date of receipt of item : 05-04-23 1.4 Physical Condition of DUC : OK

1.5 Date of calibration : 05-04-23 1.6 Recommended date of next calibration : 05-04-24

1.7 Date of Issue : 10-04-23

1.8 Environmental Conditions During Calibration: Temperature: 25.2 °C
Humidity: 65.5 % RH

1.9 Method of Calibration: SOP / TH / 01 (A)

2.0 Traceability :

a) Standards used for calibration are traceable to National standards through NABL Accredited Laboratory.

b) The following standards / Equipment have been used.

- i) Data Acquisition Switch Unit Cal. Certificate No. JRPm - CCTR - ET - 2022 - 1498 (JRPm, Chennai) (Cal. Date: 25/08/22, Due Date: 24/08/23)
- ii) RTD (PT - 100) Cal. Certificate No. TL / 022 / 1166.2.1 (TEMPESENS, Udaipur) (Cal. Date: 19/10/22, Due Date: 18/10/23)

2.1 Result :

Thermal Calibration

Sl. No.	Parameter/ Range	Measured Value on DUC °C	Corrected Std. Value °C	Error °C	Measurement Expanded Uncertainty ± °C
1.	Temperature (-) 50 °C to 300 °C	-28.5	-28.231	-0.269	0.63
2.		0.3	0.642	-0.342	0.63
3.		50.4	50.847	-0.447	0.60
4.		150.0	150.564	-0.564	0.60
5.		295.3	295.928	-0.628	2.64

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

DUC - Device Under Calibration N.S. - Not Specified N.A. - Not Applicable Std. - Standard

Opinions and Interpretations	
Calibrated	√ Accepted / Valid for use
Limited Use	Rejected / Out of use

Calibration Engineer
Calibrated by:
Measure Techno Lab
Kolkata
J. Dey
Calibration Engineer

Checked / Approved by:
Quality & Technical Manager
G. Pandey