



MEASURE TECHNO LAB

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CC - 2545

CALIBRATION CERTIFICATE OF DIGITAL THERMO HYGROMETER

CALIBRATION CERTIFICATE NO.: MTL / SMCH(PPTCT) / R04 / 03 - 23

ULR - CC254523000005251F

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1.0 Service Request No.: MTL / 02F / 03 / 22 - 23

1.1 Issued to: Office of The PPTCT,
Department of O&G,
Silchar Medical College & Hospital,
Silchar, Cachar, Assam - 788014.

1.2 Description & Identification of item to be Calibrated:	a) Name:	Digital Thermo Hygrometer	b) Code No.:	PPTCT/SMCH/ O&G/THM-02
	c) Sl. No.:	N.S.	d) Make:	Winner
	e) Model / Type:	TH 402	f) Range:	10 °C to 50 °C & 99 % RH
	g) Sensor:	N.A.	h) Resolution:	0.1 °C & 1 % RH
	i) End User:	PPTCT	j) Accuracy:	N.S.
	k) Calibration done at:	On Site / √ In House		

1.3 Date of receipt of item : 28-02-23

1.4 Physical Condition of DUC : OK

1.5 Date of calibration : 02-03-23

1.6 Recommended date of next calibration : 02-03-24

1.7 Date of Issue : 04-03-23

1.8 Environmental Conditions During Calibration: Temperature: 23.2 °C
Humidity: 58.6 % RH

1.9 Method of Calibration: SOP / TH / HU - 01

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) Temperature & Humidity Data Logger Cal. Certificate No. JRPM-CCTR-THER-2022-1186 (JRPM, Chennai) (Cal. Date: 20/07/22, Due Date: 19/07/23)

2.1 Result :

Thermal Calibration

Sl. No.	Parameter/ Range	Measured Value on DUC °C	Corrected Std. Value °C	Error °C	Measurement Expanded Uncertainty ± °C & % RH
At 45 % RH					
1.	Temperature 10 °C to 50 °C	10.2	10.45	-0.25	0.89
2.		19.7	19.98	-0.28	0.89
3.		29.8	30.13	-0.33	0.89
4.		39.6	40.02	-0.42	0.89
At 25 °C					
1.	Humidity 99 % RH	22	22.87	-0.87	1.79
2.		39	40.16	-1.16	1.79
3.		49	50.54	-1.54	1.79
4.		68	70.98	-2.98	1.79

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

Calibrated by:

J. Dey
Calibration Engineer
Measure Techno Lab
Kolkata

Checked / Approved by:

S. Pandey
Quality & Technical Manager