



TMSCC

TESTING MACHINE SERVICE AND CALIBRATION CENTRE
Precision is Our Destination.....

An NABL Accredited Calibration Laboratory
A Constituent Board of Quality Council of India
An ISO 9001 : 2015 Certified company

Calibration of Various Instruments & Testing Machines...



CC - 3125

Form No.: TMSCC/R/23

CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE NO.: 2023/06/487 Page 1 of 1

ISSUE DATE : 12-Jun-2023

ULR No. : CC312523000007369P

1.0 ISSUED TO : MSVP
College of Medicine Sagore Dutta Hospital
578 B.T Road , Kolkata -700058



1.1 Service Request Form No.: SRF/2023/06/09/01

1.2 Service Request Date : 09-06-2023

1.3 Location : At Lab

1.4 Description identification of item to be calibrated :

i	Name :	Digital Thermo Hygometer	ii	Make :	R-TEK
iii	Model / Type No.:	--	iv	S/L No.:	--
v	I.D.No.:	SDH/DTHM/01	vi	Job Code No.:	2023/06/487
vii	Range :	[(-)50 to 70] °C & (10 to 99)% RH	viii	Resolution :	0.1°C & 1% RH
ix	Accuracy :	As Per DKD R5 - 1 & DKD-R5-7	x	End User :	--

1.5 Full / Partial Calibration : Partial Calibration

1.6 Applicable specification of item to be calibrated: Accuracy / permissible limit : Not Specified.

1.7 Date of receipt of item : 9-Jun-2023 1.8 Date of calibration : 9-Jun-2023

1.9 Calibration due on : 8-Jun-2024 2.0 Frequency of calibration once in : 12 Months

2.1 Environmental condition during calibration :
Temperature : 25.2°C
Humidity : 52% RH

2.2 Basis of calibration : SOP/10/02, SOP/10/04

2.3 Traceability : Standards used for calibration are traceable to National Standards through NABL accredited Laboratory.

Name of Instrument	Sl. No. / Id no.	Certificate No.	Lab Certificate No.	Calibrated on	Due on
Temp. & Humidity Probe with Indicator	(Sl. No.: No.- 2022C01005/20571921)	ATL/T/090323/001	CC-2590	06-03-2023	06-03-2024
Digital Temperature Indicator with Sensor(RTD)	(Sl. No.- 18K588073) (Sensor Sl. No.- 19102403)	TSC/22-23/12095-36	CC - 2231	17-11-2022	17-11-2023

CALIBRATION RESULTS

Sl. No.	Ref. Bath set in °C	Observed Reading at DUC in °C (Avg. of five readings)	Observed Reading at Ref. Std. in °C (Avg. of five readings)	Error in °C	Uncertainty in ± °C	Acceptance Criteria
1	-35.0	-35.0	-34.942	0.058	0.18	Pass
2	-15.0	-15.0	-14.975	0.025	0.18	Pass
3	10.0	10.0	9.983	-0.017	0.18	Pass
4	30.0	30.0	29.950	-0.050	0.31	Pass
5	70.0	70.0	69.884	-0.116	0.31	Pass

Maximum Permissible Error : ± 0.3% of rdg

Sl. No.	Ref. Source set in %	Observed Reading at DUC in % (Avg. of five readings)	Observed Reading at Ref. Std. in % (Avg. of five readings)	Error in %	Measurement Uncertainty in ± %	Acceptance Criteria
1	25	25	25.3	0.3	1.3	Pass
2	50	50	50.2	0.2	1.3	Pass
3	90	90	90.3	0.3	1.3	Pass

Maximum Permissible Error : ± 3% of rdg

Measurement Uncertainty at 95% Confidence Level where Coverage Factor k = 2

REMARKS : The DUC has been calibrated over its range. The readings observed are tabulated above. The reference standard is traceable to National standard.

DUC: Device Under Calibration.

Physical Status of the DUC : OK

Calibrated By :

J. Bhatnagarjee
(Sr. Calibration Engineer)

Checked By :

C. Ghosh
(Technical Director)

Approved By :

P. K. Modak
(Sr. Calibration Engineer)

END OF CERTIFICATE