



TMSCC

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

An ISO 9001 : 2015 Certified company
Calibration of Various Instruments & Testing Machines...



CC - 3125

Form No.: TMSCCR/23

CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE NO.: 2024/11/1285 Page 1 of 1

ISSUE DATE : 9-Nov-2024

ULR No. : CC312524000024141P

1.0 ISSUED TO : M/s.: Succes Diagnostic Centre
8C, Mohan Lal Street, Shyambazar,
(Near R.G. Kar Medical College), Kolkata - 700004.



1.1 Service Request Form No.: SRF/2024/11/07/05

1.2 Service Request Date : 07-11-2024

1.3 Location : At Lab

1.4 Description identification of item to be calibrated :

i	Name :	Digital Thermo Hygrometer	ii	Make :	HTC-1
iii	Model / Type No.:	--	iv	S/L No.:	--
v	I.D.No.:	SDE/DTHM/01	vi	Job Code No.:	2024/11/1285
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 : 7-Nov-2024 1.8 Date of calibration : 7-Nov-2024

1.9 Calibration due on : 6-Nov-2025 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)	TSC/23-24/20427-3	CC - 2231	14-03-2024	13-03-2025
Digital Temperature Indicator with Sensor(RTD)	Indicator Sl. No.- 18K588073 (Sensor ID No.- TMSCC/RTD/01)	TSC/23-24/13010-4	CC - 2231	09-11-2023	08-11-2024

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	-34.919	0.081	0.18	Pass
2	20.0	20.0	19.954	-0.046	0.18	Pass
3	30.0	30.0	29.931	-0.069	0.29	Pass
4	50.0	50.0	49.884	-0.116	0.29	Pass
5	70.0	70.0	69.838	-0.162	0.29	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	50.6	0.6	1.3	Pass
3	90	90	91.1	1.1	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 :

R. Ghosh
(Calibration Engineer)

Checked By :

C. Ghosh
(Technical Director)

Approved By :

P. K. Modak
(Sr. Calibration Engineer)

END OF CERTIFICATE