



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.: TMSCC/R/23

CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE NO.: 2023/07/262
ISSUE DATE: 13-Jul-2023 Page 1 of 1

ULR No.: CC312523000009528P

1.0 ISSUED TO: M/s. South Calcutta Diagnostic Center
570, Tentulberia Road, P.O.: Garia,
P.S.: Sonarpur, Kolkata - 700084

1.1 Service Request Form No.: SRF/2023/07/03/03

1.2 Service Request Date: 03-07-2023

1.3 Location: At Lab

1.4 Description identification of item to be calibrated:

i Name:	Digital Thermo Hygrometer	ii Make:	HTC
iii Model / Type No.:	HTC-2	iv S/L No.:	-
v LD.No.:	SCDC/DTHM/03	vi Job Code No.:	2023/07/262
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 : 3-Jul-2023 1.8 Date of calibration : 3-Jul-2023

1.9 Calibration due on : 2-Jul-2024 2.0 Frequency of calibration once in : 12 Months

2.1 Environmental condition during calibration :
Temperature : 25.1°C
Humidity : 53% 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	SI. No. / Id no.	Certificate No.	Lab Certificate No.	Calibrated on	Due on
Temp. & Humidity Probe with Indicator	(SI. No.: No.- 2022C01005/ 20571921)	ATL/T/090323/001	CC-2590	06-03-2023	06-03-2024
Digital Temperature Indicator with Sensor(RTD)	(SI. No.- 18K588073) (Sensor SI. No.- 19102403)	TSC/22-23/12065-36	CC - 2231	17-11-2022	17-11-2023

CALIBRATION RESULTS

SI. 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	-34.950	0.050	0.18	Pass
2	-5.0	-5.0	-4.993	0.007	0.18	Pass
3	10.0	10.0	9.986	-0.014	0.18	Pass
4	30.0	30.0	29.957	-0.043	0.18	Pass
5	70.0	70.0	69.900	-0.100	0.31	Pass

Maximum Permissible Error : ± 0.3% of rdg

SI. 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	25.2	0.2	1.3	Pass
2	50	50	50.2	0.2	1.3	Pass
3	90	90	91.3	1.3	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.

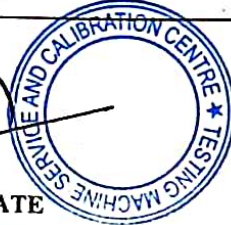
Physical Status of the DUC : OK

Calibrated By:

P. Ghosh
(Calibration Engineer)

Checked By:

P. Ghosh
(Technical Manager)



Approved By:

P. K. Modak
(Sr. Calibration Engineer)

END OF CERTIFICATE