



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.:		2023/07/260		Page 1 of 1		
ISSUE DATE:		13-Jul-2023				
ULR No.:		CC312523000009526P				
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/DTHIM/01	vi Job Code No.:	2023/07/260		
	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	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)	ISU/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	-34.947	0.053	0.18	Pass
2	-5.0	-5.0	-4.992	0.008	0.18	Pass
3	10.0	10.0	9.985	-0.015	0.18	Pass
4	30.0	30.0	29.955	-0.045	0.18	Pass
5	70.0	70.0	69.895	-0.105	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	25.2	0.2	1.3	Pass
2	50	50	50.4	0.4	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. G. Ghosh
(Calibration Engineer)

Checked By:

C. Ghosh
(Technical Manager)



Approved By:

P. N. Modak
(Calibration Engineer)

END OF CERTIFICATE