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.:	2023/07/261						Page 1 of 1
ISSUE DATE :	13-Jul-2023						
ULR No. :	CC312523000009527P						
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 I.D.No.:	SCDC/DTHM/02	vi	Job Code No.:	2023/07/261		
	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)	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	-34.961	0.039	0.18	Pass
2	-5.0	-5.0	-4.994	0.006	0.18	Pass
3	10.0	10.0	9.989	-0.011	0.18	Pass
4	30.0	30.0	29.967	-0.033	0.18	Pass
5	70.0	70.0	69.923	-0.077	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 %	Measurment Uncertainty in ± %	Acceptance Criteria
1	25	25	25.1	0.1	1.3	Pass
2	50	50	50.3	0.3	1.3	Pass
3	90	90	91.2	1.2	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 :
S. Ghosh
(Calibration Engineer)

Checked By :
C. Ghosh
(Technical Manager)

Approved By :
P. K. Modak
(Sr. Calibration Engineer)

TESTING MACHINE SERVICE AND CALIBRATION CENTRE

END OF CERTIFICATE

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