



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.: 2023/06/92						Page 1 of 1
ISSUE DATE :		5-Jun-2023				
ULR No. :		CC312523000007009P				
1.0	ISSUED TO :	M/s. Suraha Speciality Laboratory 167, Beharapara, H.C. Sarani, Sonarpur, 24.Parganas(S), Kolkata - 700150				
1.1	Service Request Form No.:	SRF/2023/06/02/02				
1.2	Service Request Date :	02-06-2023				
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.:	-	iv S/L No.:	-		
	v LD.No.:	SSL/DTHM/01	vi Job Code No.:	2023/06/92		
	vii Range :	[-50 to 70]°C(10 to 99)%RH	viii Resolution :	0.1°C/1%RH		
	ix Accuracy :	As Per DKD-R5-7, DKD R5 - 1	x Find 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 :	2-Jun-2023	1.8 Date of calibration :	2-Jun-2023		
1.9	Calibration due on :	1-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	-34.993	0.007	0.18	Pass
2	-5.0	-5.0	-4.999	0.001	0.18	Pass
3	10.0	10.0	9.998	-0.002	0.18	Pass
4	30.0	30.0	29.994	-0.006	0.18	Pass
5	70.0	70.0	69.985	-0.015	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	25.4	0.4	1.3	Pass
2	50	50	50.5	0.5	1.3	Pass
3	90	90	90.7	0.7	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 Manager)

Approved By :

P. K. Modak
(Sr. Calibration Engineer)

END OF CERTIFICATE