



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

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CALIBRATION CERTIFICATE NO. : 2023/12/1413		ISSUE DATE : 31-Dec-2023		ULR No. : CC312523000020996P		
1.0 ISSUED TO : M/s.: Hijli Rural Hospital Kharagpur-1, Prembazar, P.O.: Hijli Co-Operative Society, Paschim Medinipur, West Bengal-721306						
1.1 Service Request Form No. : SRF/2023/12/29/01						
1.2 Service Request Date : 29-12-2023						
1.3 Location : At Lab						
1.4 Description identification of item to be calibrated :						
i Name : Digital Thermo Hygrometer		ii Make : ACETEQ				
iii Model / Type No. : DC-3		iv S/L No. : -				
v I.D.No. : HRH/ICTC/DT-01		vi Job Code No. : 2023/12/1413				
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 : 29-Dec-2023		1.8 Date of calibration : 29-Dec-2023				
1.9 Calibration due on : 28-Dec-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/T090323/001	CC-2590	06-03-2023	06-03-2024
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	-34.913	0.087	0.18	Pass
2	-5.0	-5.0	-4.988	0.012	0.18	Pass
3	10.0	10.0	9.975	-0.025	0.18	Pass
4	30.0	30.0	29.925	-0.075	0.31	Pass
5	50.0	50.0	49.876	-0.124	0.31	Pass
6	70.0	70.0	69.826	-0.174	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	90.8	0.8	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)

Approval By :

P. K. Modak
(Sr. Calibration Engineer)

END OF CERTIFICATE