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. :	2023/08/1641		Page 1 of 1
ISSUE DATE :	13-Sep-2023		
ULR No. :	CC312523000013648P		
1.0 ISSUED TO :	M/s.: Barasat Government Medical College & Hospital ICTC, Barasat, Banamalipur, North 24 Pgs, Pin-700124, West Bengal.		
1.1 Service Request Form No. :	SRF/2023/08/30/03		
1.2 Service Request Date :	30-08-2023		
1.3 Location :	At Lab		

1.4 Description identification of item to be calibrated :

i	Name :	Digital Thermo Hygometer	ii	Make :	R-TEK
iii	Model / Type No. :	--	iv	S/L No. :	--
v	I.D.No. :	ICTC/DTHM-01	vi	Job Code No. :	2023/08/1641
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 / permisssible limit :			Not Specified.	
1.7	Date of receipt of item :	30-Aug-2023	1.8	Date of calibration :	30-Aug-2023
1.9	Calibration due on :	29-Aug-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)	(Indicator 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	-34.912	0.088	0.18	Pass
2	-5.0	-5.0	-4.987	0.013	0.18	Pass
3	10.0	10.0	9.975	-0.025	0.18	Pass
4	30.0	30.0	29.925	-0.075	0.18	Pass
5	70.0	70.0	69.825	-0.175	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	25.4	0.4	1.3	Pass
2	50	50	50.8	0.8	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 :
R. 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

Office : Deshbandhu Lane, Barrackpore - 700122, Lab : "Anima Apartment", 1/1, Harisava Road, Barrackpore, Kolkata - 7
Contact Us: (033) 4801 0723 +91(9830067596/9073667596), Email Id : tmscc.2010@gmail.com/tmscc.2020@yaho

Form No.: TMSCC/R/23

CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE NO. :	2023/08/1642		Page 1 of 1
ISSUE DATE :	13-Sep-2023		
ULR No. :	CC312523000013649P		
1.0 ISSUED TO :	M/s.: Barasat Government Medical College & Hospital ICTC, Barasat, Banamalipur, North 24 Pgs, Pin-700124, West Bengal.		
1.1 Service Request Form No. :	SRF/2023/08/30/03		
1.2 Service Request Date :	30-08-2023		
1.3 Location :	At Lab		

1.4 Description identification of item to be calibrated :

i Name :	Digital Thermo Hygometer	ii Make :	R-TEK
iii Model / Type No. :	--	iv S/L No. :	--
v I.D.No. :	ICTC/DTHM-02	vi Job Code No. :	2023/08/1642
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 :	30-Aug-2023	1.8	Date of calibration :	30-Aug-2023
1.9	Calibration due on :	29-Aug-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)	(Indicator 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	-34.937	0.063	0.18	Pass
2	-5.0	-5.0	-4.991	0.009	0.18	Pass
3	10.0	10.0	9.982	-0.018	0.18	Pass
4	30.0	30.0	29.946	-0.054	0.18	Pass
5	70.0	70.0	69.874	-0.126	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	25.2	0.2	1.3	Pass
2	50	50	50.7	0.7	1.3	Pass
3	90	90	91.4	1.4	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.

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