



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.: 2023/08/1643 Page 1 of 1

ISSUE DATE: 13-Sep-2023

ULR No.: CC312523000013650P

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 Thermometer	ii	Make:	Aptech Deals
iii	Model / Type No.:	THM10	iv	S/L No.:	--
v	I.D.No.:	ICTC/DTM/01	vi	Job Code No.:	2023/08/1643
vii	Range:	(-50 to 100)°C	viii	Resolution:	0.1 °C
ix	Accuracy:	As Per DKD R5 - 1	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

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
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	Reading at DUC in °C	Observed Reading at Ref. Std. in °C (Avg. of five readings)	Error in °C	Uncertainty in ± °C	Acceptance Criteria
1	-35.0	-35.0	-35.076	-0.076	0.15	Pass
2	-15.0	-15.0	-15.033	-0.033	0.15	Pass
3	10.0	10.0	10.022	0.022	0.15	Pass
4	25.0	25.0	25.055	0.055	0.25	Pass
5	50.0	50.0	50.109	0.109	0.25	Pass
6	75.0	75.0	75.164	0.164	0.25	Pass
7	100.0	100.0	100.218	0.218	0.25	Pass

Maximum Permissible Error: ± 0.3% 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 Director)

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

END OF CERTIFICATE



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.: 2023/08/1644 Page 1 of 1

ISSUE DATE : 13-Sep-2023

ULR No.: CC312523000013651P

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 Thermometer	ii	Make :	Aptech Deals
iii	Model / Type No.:	THM10	iv	S/L No.:	--
v	I.D No.:	ICTC/DTM/02	vi	Job Code No.:	2023/08/1644
vii	Range :	(-50 to 100)°C	viii	Resolution :	0.1 °C
ix	Accuracy :	As Per DKD R5 - 1	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

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
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	Reading at DUC in °C	Observed Reading at Ref. Std. in °C (Avg. of five readings)	Error in °C	Uncertainty in ± °C	Acceptance Criteria
1	-35.0	-35.0	-35.059	-0.059	0.15	Pass
2	-15.0	-15.0	-15.025	-0.025	0.15	Pass
3	10.0	10.0	10.017	0.017	0.15	Pass
4	25.0	25.0	25.042	0.042	0.25	Pass
5	50.0	50.0	50.085	0.085	0.25	Pass
6	75.0	75.0	75.127	0.127	0.25	Pass
7	100.0	100.0	100.169	0.169	0.25	Pass

Maximum Permissible Error : ± 0.3% 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 Director)

Approved By :

P. K. Modak
(Sr. Calibration Engineer)

END OF CERTIFICATE



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.:		2023/08/1645		Page 1 of 1		
ISSUE DATE:		13-Sep-2023				
ULR No.:		CC312523000013652P				
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 Thermometer		ii Make:		Aptech Deals
iii Model / Type No.:		THM10		iv S/L No.:		--
v I.D.No.:		ICTC/DTM/03		vi Job Code No.:		2023/08/1645
vii Range:		(-50 to 100)°C		viii Resolution:		0.1 °C
ix Accuracy:		As Per DKD R5 - 1		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				
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
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	Reading at DUC in °C	Observed Reading at Ref. Std. in °C (Avg. of five readings)	Error in °C	Uncertainty in ± °C	Acceptance Criteria
1	-35.0	-35.0	-35.091	-0.091	0.15	Pass
2	-15.0	-15.0	-15.039	-0.039	0.15	Pass
3	10.0	10.0	10.026	0.026	0.15	Pass
4	25.0	25.0	25.065	0.065	0.25	Pass
5	50.0	50.0	50.130	0.130	0.25	Pass
6	75.0	75.0	75.195	0.195	0.25	Pass
7	100.0	100.0	100.259	0.259	0.25	Pass
Maximum Permissible Error:		± 0.3% 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 Director)

Approved By:

P. K. Modak
(Sr. Calibration Engineer)

END OF CERTIFICATE



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 / 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/090323001	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 %	Measurement 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)

END OF CERTIFICATE



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.: 2023/08/1642 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 %	Measurement 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.

DUC: Device Under Calibration.
 Physical Status of the DUC : OK

Calibrated By :
R. Ghosh
R. Ghosh
(Calibration Engineer)

Checked By :
R. Ghosh
R. Ghosh
(Technical Manager)



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

END OF CERTIFICATE