



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



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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



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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