



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.: TMSCCR/23

CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE NO.: 2024/02/779 Page 1 of 1

ISSUE DATE: 16-Feb-2024

ULR No.: CC312524000002632F

1.0 ISSUED TO: M/s.: Anushka Diagnostics
119/148, Chandidas Road, Trisulapatty,
P.O.: Bolpur, Birbhum - 731204

1.1 Service Request Form No.: SRF/2024/02/12/03

1.2 Service Request Date: 12-02-2024

1.3 Location: At Lab

1.4 Description identification of item to be calibrated:

| | | | | | |
|-----|-------------------|-----------------------------|------|---------------|-------------|
| i | Name: | Digital Thermo Hygrometer | ii | Make: | Aptechdeals |
| iii | Model / Type No.: | HTC-1 | iv | S/L No.: | -- |
| v | I.D.No.: | AD/DTHM/02 | vi | Job Code No.: | 2024/02/779 |
| vii | Range: | [0 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 | End User: | - |

1.5 Full / Partial Calibration: Full Calibration

1.6 Applicable specification of item to be calibrated: Accuracy / permissible limit: Not Specified.

1.7 Date of receipt of item: 12-Feb-2024 **1.8** Date of calibration: 12-Feb-2024

1.9 Calibration due on: 11-Feb-2025 **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) (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 | 10.0 | 10.0 | 9.984 | -0.016 | 0.18 | Pass |
| 2 | 20.0 | 20.0 | 19.967 | -0.033 | 0.18 | Pass |
| 3 | 30.0 | 30.0 | 29.951 | -0.049 | 0.31 | Pass |
| 4 | 50.0 | 50.0 | 49.918 | -0.082 | 0.31 | Pass |
| 5 | 70.0 | 70.0 | 69.886 | -0.114 | 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 | 20 | 20 | 20.2 | 0.2 | 1.3 | Pass |
| 2 | 25 | 25 | 25.2 | 0.2 | 1.3 | Pass |
| 3 | 50 | 50 | 50.5 | 0.5 | 1.3 | Pass |
| 4 | 90 | 90 | 90.9 | 0.9 | 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 Director)



Approved By:

P. K. Modak
(Sr. Calibration Engineer)

END OF CERTIFICATE