# 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.: | 2024/02/778 | | Page 1 of 1 |
| ISSUE DATE : | 16-Feb-2024 | | |
| ULR No. : | CC312524000002631F | | |
| 1.0 ISSUED TO : | M/s.: Anushka Diagnostics<br>119/148, Chandidas Road, Trisulapatty,<br>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/01 | vi | Job Code No.: | 2024/02/778 |
| 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 | 9.986 | -0.014 | 0.18 | Pass |
| 2 | 20.0 | 20.0 | 19.971 | -0.029 | 0.18 | Pass |
| 3 | 30.0 | 30.0 | 29.957 | -0.043 | 0.31 | Pass |
| 4 | 50.0 | 50.0 | 49.928 | -0.072 | 0.31 | Pass |
| 5 | 70.0 | 70.0 | 69.899 | -0.101 | 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 | 20 | 20 | 20.3 | 0.3 | 1.3 | Pass |
| 2 | 25 | 25 | 25.3 | 0.3 | 1.3 | Pass |
| 3 | 50 | 50 | 50.7 | 0.7 | 1.3 | Pass |
| 4 | 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 Director)

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

TESTING MACHINE SERVICE AND CALIBRATION CENTRE

**END OF CERTIFICATE**


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