



ACCURATE CALIBRATION LABORATORY & SERVICES

(A NABL Accredited Laboratory as per ISO/IEC 17025:2017)

Plot No. 33/B, Sakkubai Residency, Main Road, Mallapur Hyderabad-500 076.

Ph: 040-27245979 Mobile : +91-7893635977, 9573896969.

E-Mail : accuratenabl@gmail.com, accuratecalibrationlab@gmail.com Website : www.acls.co.in



CC - 3373

CALIBRATION CERTIFICATE

Format No.:ACLS_CC_T

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ULR Number : CC337323000000369F Discipline: Thermal/Specific Heat & Humidity

Certificate Number	Date of Receipt	Date of Calibration	Suggested Next Date of Calibration	Date of Issue
ACLS/2023-24/083/HM-001	25/09/2023	28/09/2023	27/09/2024	29/09/2023

1.0	Calibration Request Number	:	083
2.0	Name & Address of the Customer	:	M/s. Bioline Laboratory, 6,7& 15 Dolly Arcade, Near Harley's Bakery,New Nagole, L.B. Nagar, Telangana-500068.
3.0	Details of Device Under Calibration		
3.1	Nomenclature	:	Digital Thermohygrometer
3.2	Make	:	HTC
3.3	Model/ Type Number	:	HTC-1
3.4	Range	:	0 to 50°C & 0 to 100 % RH
3.5	Resolution	:	0.1°C & 1% RH
3.6	Accuracy	:	± 1°C & ± 5% RH
3.7	Identification Number	:	BL/HM-01
4.0	Work Instruction /Procedure	:	ACLS_T_WI_008
5.0	Condition of the item on receipt	:	Physically OK
6.0	Unit of Measurement	:	(°C/%RH)
7.0	Range of Environmental Conditions of the Measurement	:	Temperature : (25 ± 4)°C Relative Humidity : 30 % to 75% RH
7.1	Actual Environmental Conditions at the time of measurement	:	Temperature : 24.2°C Relative Humidity : 62% RH
8.0	Calibration Performed at	:	Thermal Lab
9.0	Reference Method	:	DKD-R-5-1 & ITS-90
10.0	Details of reference Standards		

S.No.	Nomenclature	Serial Number	Certificate No.	Validity
10.1	Digital Humidity Temperature Meter with Sensor	1221/20482481	TSC/22-23/10135-2	13 OCT 2023

11.0 Results Summarized : Relative Humidity @ 50 % RH

S.No.	Set Temp. in(°C)	STD Reading in (°C)	DUC Reading in (°C)	Deviation in (°C)	Uncertainty in ± (°C)
11.1	5.0	5.05	5.0	-0.05	0.29
11.2	20.0	20.08	19.9	-0.18	0.29
11.3	30.0	30.11	29.9	-0.21	0.29
11.4	40.0	40.13	39.9	-0.23	0.29
11.5	50.0	50.14	49.8	-0.34	0.29

Temperature @ 25°C

S.No.	Set % RH	STD Reading in (% RH)	DUC Reading in (% RH)	Deviation in (% RH)	Uncertainty in ± (% RH)
11.6	10.0	10.12	10	-0.12	2.20
11.7	35.0	34.95	35	0.05	2.20
11.8	50.0	49.90	50	0.10	2.20
11.9	75.0	74.86	74	-0.86	2.20
11.10	95.0	94.82	94	-0.82	2.20

12.0	Remarks	:	
12.1	DUC Stands for Device Under Calibration		
12.2	The Certificate refers only to the particular item submitted for calibration		
12.3	Report results are valid at the time of and under the stated conditions of the Measurement		
12.4	Reproduction of this certificate in any form is not permitted without the written consent of ACLS		
12.5	Errors if any ,in this certificate shall be brought to notice within 45 days from the date of this certificate		
12.6	Measurement uncertainty reported is at approximately 95.45 % confidence level with K=2 as per guideline NABL 14		
12.7	The measurment data reported is as found without any adjustment		
12.8	Standard used for calibration were traceable to National / International standards		

Calibrated by
CH.Nagapuri
Cal.Engg.

*** End of Certificate***



Authorised by:
N.Sreedhar
(Quality/Technical Manager)



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CALIBRATION CERTIFICATE

Format No.:ACLS_CC_T

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ULR Number :	CC337323000000370F	Discipline: Thermal/Specific Heat & Humidity		
Certificate Number	Date of Receipt	Date of Calibration	Suggested Next Date of Calibration	Date of Issue
ACLS/2023-24/083/HM-002	25/09/2023	28/09/2023	27/09/2024	29/09/2023

1.0	Calibration Request Number	:	083
2.0	Name & Address of the Customer	:	M/s. Bioline Laboratory, 6,7& 15 Dolly Arcade, Near Harley's Bakery,New Nagole, L.B. Nagar, Telangana-500068.
3.0	Details of Device Under Calibration		
3.1	Nomenclature	:	Digital Thermohygrometer
3.2	Make	:	HTC
3.3	Model/ Type Number	:	HTC-1
3.4	Range	:	0 to 50°C & 0 to 100 % RH
3.5	Resolution	:	0.1°C & 1% RH
3.6	Accuracy	:	± 1°C & ± 5% RH
3.7	Identification Number	:	BL/HM-02
4.0	Work Instruction /Procedure	:	ACLS_T_WI_008
5.0	Condition of the item on receipt	:	Physically OK
6.0	Unit of Measurement	:	(°C/%RH)
7.0	Range of Environmental Conditions of the Measurement	:	Temperature : (25 ± 4)°C Relative Humidity : 30 % to 75%
7.1	Actual Environmental Conditions at the time of measurement	:	Temperature : 24.2°C Relative Humidity : 62% RH
8.0	Calibration Performed at	:	Thermal Lab
9.0	Reference Method	:	DKD-R-5-1 & ITS-90
10.0	Details of reference Standards	:	

S.No.	Nomenclature	Serial Number	Certificate No.	Validity
10.1	Digital Humidity Temperature Meter with Sensor	1221/20482481	TSC/22-23/10135-2	13 OCT 2023

11.0 Results Summarized : Relative Humidity @ 50 % RH

S.No.	Set Temp. in(°C)	STD Reading in (°C)	DUC Reading in (°C)	Deviation in (°C)	Uncertainty in ± (°C)
11.1	5.0	5.06	5.0	-0.06	0.29
11.2	20.0	20.09	20.0	-0.09	0.29
11.3	30.0	30.12	29.9	-0.22	0.29
11.4	40.0	40.14	39.8	-0.34	0.29
11.5	50.0	50.14	49.8	-0.34	0.29

Temperature @ 25°C

S.No.	Set % RH	STD Reading in (%RH)	DUC Reading in (%RH)	Deviation in (% RH)	Uncertainty in ± (% RH)
11.6	10.0	10.11	10	-0.11	2.20
11.7	35.0	34.95	35	0.05	2.20
11.8	50.0	49.93	49	-0.93	2.20
11.9	75.0	74.86	74	-0.86	2.20
11.10	95.0	94.84	94	-0.84	2.20

- 12.0 Remarks :
- 12.1 DUC Stands for Device Under Calibration
- 12.2 The Certificate refers only to the particular item submitted for calibration
- 12.3 Report results are valid at the time of and under the stated conditions of the Measurement
- 12.4 Reproduction of this certificate in any form is not permitted without the written consent of ACLS
- 12.5 Errors if any ,in this certificate shall be brought to notice within 45 days from the date of this certificate
- 12.6 Measurement uncertainty reported is at approximately 95.45 % confidence level with K=2 as per guideline NABL 141
- 12.7 The measurment data reported is as found without any adjustment
- 12.8 Standard used for calibration were traceable to National / International standards

Calibrated by
CH.Nagagopi
Cal.Engg.

*** End of Certificate***



Authorised by:
N.Sreedhar
(Quality/Technical Manager)