

## **ACCURATE CALIBRATION**

## LABORATORY & SERVICES

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

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## CALIBRATION CERTIFICATE

	No.:ACLS_CC_T					Page No. : 01 of 0	
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 Nu	mber	:	083			
2.0	Name & Address of the Customer		;	M/s. Bioline	e Laboratory,		
				6,7& 15 Dol	ly Arcade, Near Harley's Bake	ry,New Nagole,	
				L.B. Nagar,	Telangana-500068.		
3.0	Details of Device Under	· Calibration					
3.1	Nomenclature		: Digital Thermohygromter				
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		35	: 0.1°C & 1% RH			
3.6	Accuracy		:	± 1°C & ± 59	% 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		1	: (°C/%RH)			
7.0	Range of Environmenta	d Conditions		Temperature	e : (25 <u>+</u> 4) <sup>0</sup> C		
	of the Measurement		:	Relative Hur	nidity: 30 % to 75%		
7.1	Actual Environmental C	Conditions		Temperature	e: 24.2°C		
	at the time of measurement			Relative Humidity: 62% RH			
8.0	Calibration Performed a	at		Thermal Lab			
9.0	Reference Method			DKD-R-5-1 &	& ITS-90		
10.0	Details of reference Sta	ndards					
S.No.	Nome	nclature	Ser	ial Number	Certificcate No.	Validity	

			Certificcate No.	Validity	
Digital Humidity Temperature Meter with Sensor		1221/20482481	TSC/22-23/10135-2	13 OCT 2023	
Results Summarized		Relative Humidity @ 50 % RH			
Set Temp. in(°C)	STD Reading in (°C)	DUC Reading in (°C)	Deviation in (°C)	Uncertainty in ± (°C)	
5.0	5.06	5.0	-0.06	0.29	
20.0	20.09	20.0	-0.09	0.29	
30.0	30.12	29.9	-0.22	0.29	
40.0	40.14	39.8	-0.34	0.29	
50.0	50.14	49.8	-0.34	0.29	
	Results Summarized Set Temp. in(°C)  5.0 20.0 30.0 40.0	Results Summarized         :           Set Temp. in(°C)         STD Reading in (°C)           5.0         5.06           20.0         20.09           30.0         30.12           40.0         40.14           50.0         50.14	Results Summarized         :         Relative Humidity @ 50           Set Temp. in(°C)         STD Reading in (°C)         DUC Reading in (°C)           5.0         5.06         5.0           20.0         20.09         20.0           30.0         30.12         29.9           40.0         40.14         39.8	Results Summarized         :         Relative Humidity @ 50 % RH           Set Temp. in(°C)         STD Reading in (°C)         DUC Reading in (°C)         Deviation in (°C)           5.0         5.06         5.0         -0.06           20.0         20.09         20.0         -0.09           30.0         30.12         29.9         -0.22           40.0         40.14         39.8         -0.34           50.0         50.14         49.8         -0.34	

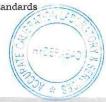
S.No.	Set % RH	STD Reading in (%RH)	DUC Reading in (%RH)	Deviation in (% RH)	Uncertainty in ± (% RH)
11.6	10.0	10.11	10	-0.11	2.20
11.7	35.0	34.95	35	0.05	2.20
11.8	50.0	49.93	49	-0.93	2.20
11.9	75.0	74.86	74	-0.86	2.20
11.10	95.0	94.84	94	-0.84	2.20

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 Measurment 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)

ACCURATE RESULT....

BEST SERVICE....