

# Indoor Temperature & Humidity Level Inspection

## ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited

Inspection Ref. No.: **C/T 11275**

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General Information		
Invoice Reference No: GB/2024/08/80		Inspection Date: 09.09.2024
Inspection Reference No: C/T 11275		Inspection Duration: 11am-5pm
Report Generation Date:	15.09.2024	Inspection Description: Indoor Temperature & Humidity
Report Submission Date:	22.09.2024	Inspection Location: Inside Factory Building
Inspection Standards: 2004/108/EEC		
<b>Company Name:</b>  <b>ACS Textiles (Bangladesh) Ltd. &amp; ACS Towel Limited</b>  <i>Address: Tetlabo, Barpa, Rupgonj, Narayangonj.</i>		<b>Contact Person:</b>  <b>Md. Ruhul Alam Sharif</b>  <i>GM, Compliance</i>
On Site Inspection Team		
<b>Md. Shaharia Ahmed</b> <i>Executive (Operation)</i> <i>B.Sc. in Environmental Science</i>		<b>Tanzir Hosen</b> <i>Chemist (Operation)</i> <i>B.Sc. in Chemistry</i>
<b>Report Prepared by</b>		<b>Quality Checked</b>
		
<b>Md. Shaharia Ahmed</b> <i>Executive (Operation)</i> <i>B.Sc. in Environmental Science</i>		<b>Mosharof Hossain</b> <i>Assistant Manager (Operation)</i> <i>M.Sc. &amp; B.Sc. in Environmental Science</i>
Report Approved by		
		
<b>Engr. Syed Tasnem Mahmood</b> <i>Chief Environmental Engineer &amp; CEO</i> <i>B.Sc. &amp; M.Sc. (Civil and Environmental Engineering)</i> <i>MIEB No.: M/35960</i>		

## Introduction:

Humidity and Temperature level is measured together to understand the comfort level of the work environment. If the temperature rises too high along with the high humidity, then the work environment becomes more uneven for working and other operational condition. Along with the performance and longevity of certain machinery depends on the relation between Humidity and Temperature.

GREENBUD Testing & Inspection Services Private Limited has been hired to test the temperature & humidity level of **ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited**. GREENBUD covered all the production sections for testing the temperature & humidity level and generated a report according to the activity occupancy of the area.

In this report Temperature & Humidity level has been checked for all the production sections of Building.

## Method of Analysis:

Inspection of indoor temperature and humidity level was done using direct reading instruments. During the analysis, a standard work instruction stated in the TP-GB-05 was followed.

## Recommended Value for Temperature and Humidity:

Parameters	Standard (ASHRAE) <sup>1</sup>	Standard (OSHA 4185) <sup>2</sup>	Standard (OSHA) <sup>3</sup>
	Workplace	Workplace	Office Area
Temperature (°C)	20°C -26°C	<ul style="list-style-type: none"> <li>❖ Caution less than 26°C HI;</li> <li>❖ Warning 26°C to 34°C HI;</li> <li>❖ Danger at 35°C HI or higher.</li> </ul>	20°C-24°C
Humidity (%)	30%-60%	-	20%-60%

*Note: The normal levels of relative humidity and temperature for indoor air will vary widely from region (climate) to region (climate).*

<sup>1</sup> [https://www7.nau.edu/itep/main/eeop/docs/airqlty/AkIAQ\\_ThermalComfort.pdf](https://www7.nau.edu/itep/main/eeop/docs/airqlty/AkIAQ_ThermalComfort.pdf)

<sup>2</sup> <https://www.osha.gov/sites/default/files/publications/OSHA4185.pdf>

<sup>3</sup> <https://www.osha.gov/laws-regs/standardinterpretations/2003-02-24>

## Indoor Temperature Level Inspection Result: (ACS Textiles (Bangladesh) Ltd.)

Inspection Area					Inspection Status			
Sl No	Building No	Floor/Level	Section	Condition	Comparative Standard (°C)	Obtained Result (°C)	Within Limit	
1	Building No-01	Ground Floor	Embroidery Section	Working	(20°C-35°C)	27	✓	
2			Accessories Store	Working	(20°C-35°C)	30	✓	
3		1st Floor	Finished Goods Store	Working	(20°C-35°C)	31	✓	
4		2nd Floor	Wastage Store	Working	(20°C-35°C)	29	✓	
5			prayer Room	Working	(20°C-35°C)	31	✓	
6	Building no-02	Ground Floor	Sizing & Weaving	Working	(20°C-35°C)	28	✓	
7		1st Floor	Cutting Section	Working	(20°C-35°C)	29	✓	
8			Feeding Section	Working	(20°C-35°C)	30	✓	
9			Stitching Section	Working	(20°C-35°C)	31	✓	
10			Fabrics Inspection	Working	(20°C-35°C)	32	✓	
11			Fabrics Folding	Working	(20°C-35°C)	30	✓	
12			Packing Section	Working	(20°C-35°C)	31	✓	
13			Metal Free Zone	Working	(20°C-35°C)	29	✓	
14	Building No-03	Ground Floor	Medical Center	Working	(20°C-35°C)	31	✓	
15		1st Floor	Child Care	Working	(20°C-35°C)	30	✓	
16			Fire Control Room	Working	(20°C-35°C)	31	✓	
17	Building No-04	Ground Floor	Warping Section-01	Working	(20°C-35°C)	31	✓	
18			Warping Section-02	Working	(20°C-35°C)	30	✓	
19			Twisting & Doubling	Working	(20°C-35°C)	29	✓	
20			1st Floor	Finishing Folding Section	Working	(20°C-35°C)	29	✓
21	Building-05	Ground Floor	Sub-Station	Working	(20°C-35°C)	28	✓	
22		1st Floor	Office Room	Working	(20°C-35°C)	31	✓	
23			Technical Room	Working	(20°C-35°C)	30	✓	
24	Building-06	Ground Floor	Bleaching	Working	(20°C-35°C)	31	✓	
25			Dyeing	Working	(20°C-35°C)	31	✓	
26			Mercerizing	Working	(20°C-35°C)	30	✓	
27			Dyeing Finishing	Working	(20°C-35°C)	31	✓	
28			Chemical Sub Store	Working	(20°C-35°C)	29	✓	
29			Printing Section	Working	(20°C-35°C)	31	✓	
30			ETP	Working	(20°C-35°C)	30	✓	
31	Building-07	Ground Floor	Chemical Store	Working	(20°C-35°C)	32	✓	
32			Work-Shop	Working	(20°C-35°C)	28	✓	
33		1st Floor	General Store	Working	(20°C-35°C)	29	✓	
34			Officer's Dining	Working	(20°C-35°C)	29	✓	
35		2nd Floor	Worker's Canteen	Working	(20°C-35°C)	28	✓	
36	Building-10	Ground Floor	Washing Area	Working	(20°C-35°C)	29	✓	
37			Dryer Machine	Working	(20°C-35°C)	27	✓	
38	Building-11	Ground Floor	Chemical Store	Working	(20°C-35°C)	27	✓	
39			Quilting Machine	Working	(20°C-35°C)	25	✓	
40		1st Floor	Fabric Store	Working	(20°C-35°C)	29	✓	
41		2nd Floor	Mending	Working	(20°C-35°C)	27	✓	
42	Building-12	Ground Floor	Weaving Section	Working	(20°C-35°C)	29	✓	
43			Sizing Section	Working	(20°C-35°C)	29	✓	
44			Warping Section-02	Working	(20°C-35°C)	30	✓	
45			Stenter Machine	Working	(20°C-35°C)	26	✓	
46			Rasing Section	Working	(20°C-35°C)	28	✓	
47			1st Floor	Quilting Section	Working	(20°C-35°C)	28	✓

Inspection Area					Inspection Status		
SI No	Building No	Floor/Level	Section	Condition	Comparative Standard (°C)	Obtained Result (°C)	Within Limit
48	Building-12	1st Floor	Cutting Section	Working	(20°C-35°C)	27	✓
49			Feeding Section	Working	(20°C-35°C)	28	✓
50			Stitching Section	Working	(20°C-35°C)	29	✓
51			Fabrics Inspection	Working	(20°C-35°C)	29	✓
52			Fabrics Folding Section	Working	(20°C-35°C)	28	✓
53			Packing Section	Working	(20°C-35°C)	29	✓
54			Metal Free Zone	Working	(20°C-35°C)	27	✓
55			Finished Goods Store	Working	(20°C-35°C)	27	✓
56	Building-13	Ground Floor	Office Area	Working	(20°C-35°C)	27	✓
57	Building-14	Ground Floor	Digital Printing	Working	(20°C-35°C)	29	✓
58		1st Floor	Tufting	Working	(20°C-35°C)	29	✓
59		2nd Floor	Tufting	Working	(20°C-35°C)	30	✓
60	Building-15	Ground Floor	Admin & Compliance	Working	(20°C-35°C)	26	✓
61			Accounts & Finance	Working	(20°C-35°C)	28	✓
62			Commercial	Working	(20°C-35°C)	28	✓
63		1st Floor	Show Room	Working	(20°C-35°C)	27	✓
64			Display Center	Working	(20°C-35°C)	28	✓
65			Marketing	Working	(20°C-35°C)	29	✓
66			Commercial	Working	(20°C-35°C)	29	✓
67		2nd Floor	Sample Room	Working	(20°C-35°C)	28	✓
68			IT Room	Working	(20°C-35°C)	29	✓

**\*\*Abbreviations and Acronyms:** °C = Temperature Measuring Unit.

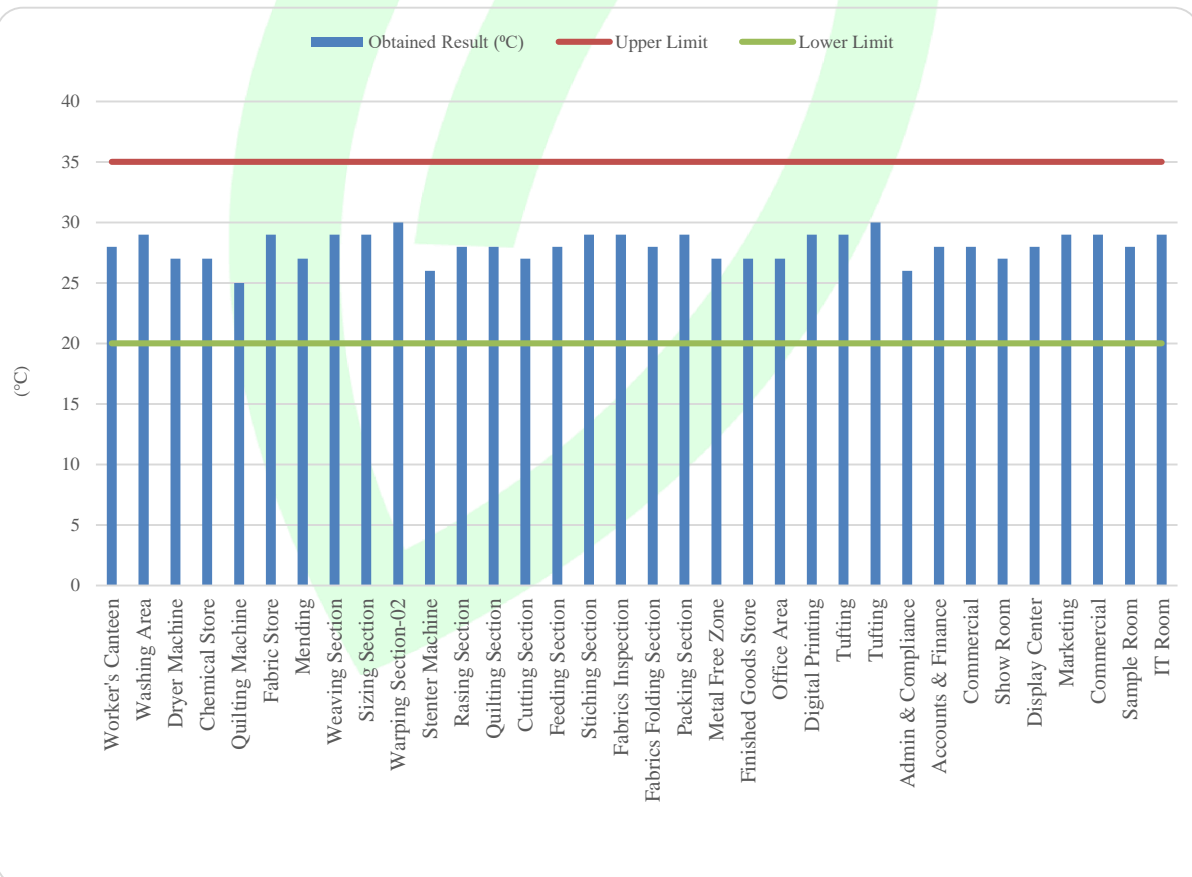
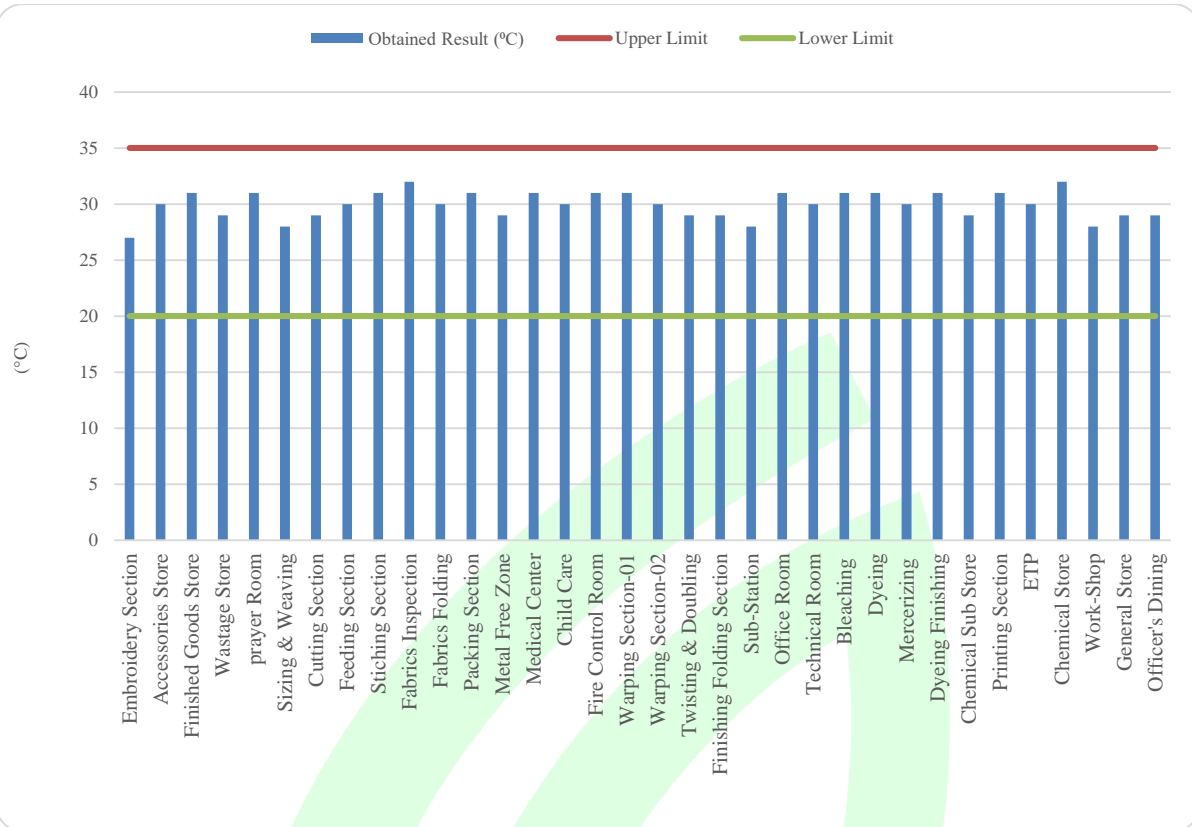


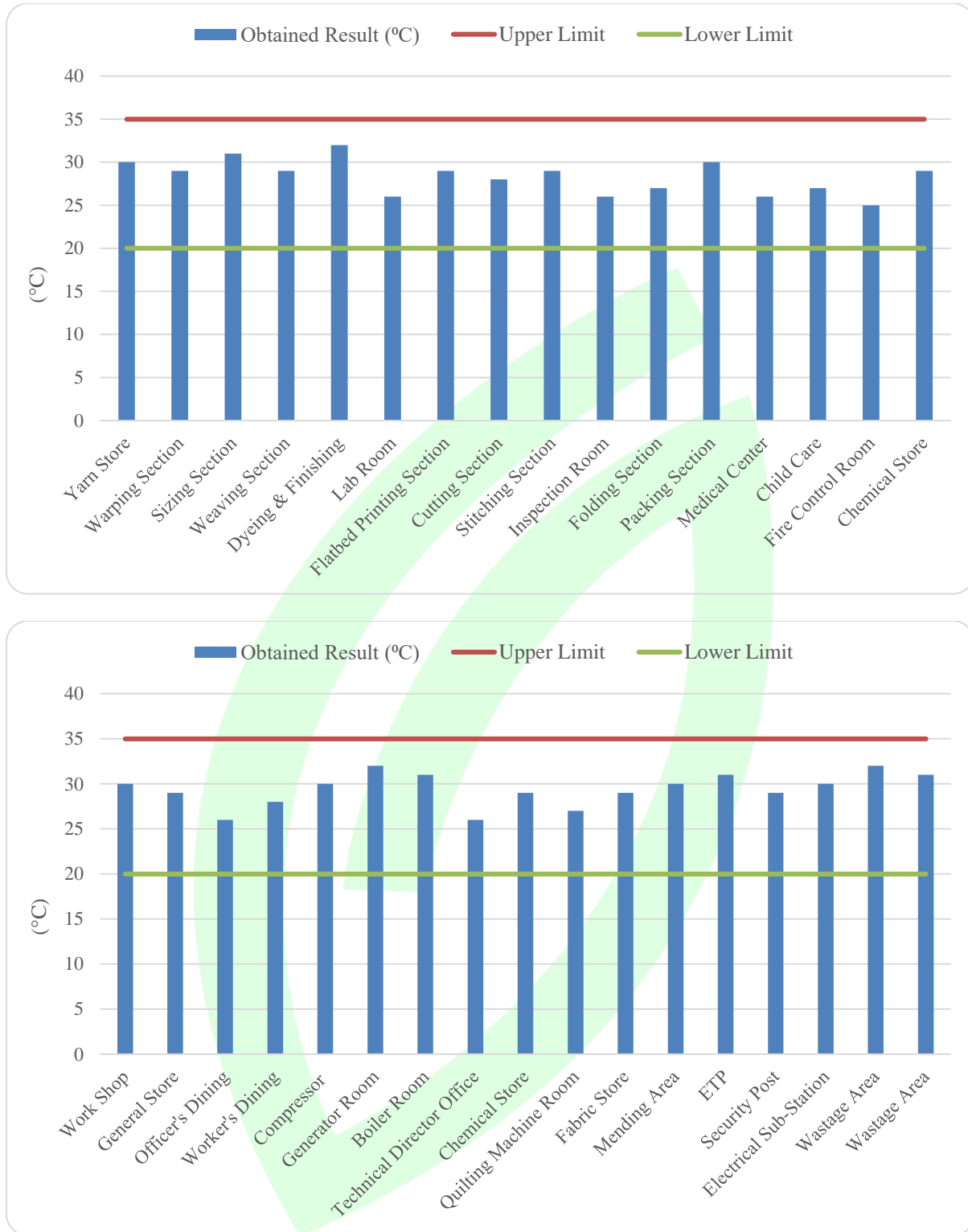
Figure: Temperature level in the working area



## Indoor Temperature Level Inspection Result: (ACS Towel Limited)

Inspection Area					Inspection Status		
SI No	Building No	Floor/Level	Section	Condition	Comparative Standard (°C)	Obtained Result (°C)	Within Limit
1	Building-1	Basement	Yarn Store	Working	(20°C-35°C)	30	√
2		Ground Floor	Warping Section	Working	(20°C-35°C)	29	√
3			Sizing Section	Working	(20°C-35°C)	31	√
4			Weaving Section	Working	(20°C-35°C)	29	√
5			Dyeing & Finishing	Working	(20°C-35°C)	32	√
6			Lab Room	Working	(20°C-35°C)	26	√
7			Flatbed Printing Section	Working	(20°C-35°C)	29	√
8		1st Floor	Cutting Section	Working	(20°C-35°C)	28	√
9			Stitching Section	Working	(20°C-35°C)	29	√
10			Inspection Room	Working	(20°C-35°C)	26	√
11			Folding Section	Working	(20°C-35°C)	27	√
12			Packing Section	Working	(20°C-35°C)	30	√
13	Building-2	Ground Floor	Medical Center	Working	(20°C-35°C)	26	√
14		1st Floor	Child Care	Working	(20°C-35°C)	27	√
15			Fire Control Room	Working	(20°C-35°C)	25	√
16	Building-3	Ground Floor	Chemical Store	Working	(20°C-35°C)	29	√
17			Work Shop	Working	(20°C-35°C)	30	√
18		1st Floor	General Store	Working	(20°C-35°C)	29	√
19			Officer's Dining	Working	(20°C-35°C)	26	√
20	Building-3	2nd Floor	Worker's Dining	Working	(20°C-35°C)	28	√
21	Building-4	Ground Floor	Compressor	Working	(20°C-35°C)	30	√
22			Generator Room	Working	(20°C-35°C)	32	√
23			Boiler Room	Working	(20°C-35°C)	31	√
24			Technical Director Office	Working	(20°C-35°C)	26	√
25	Building-5	Ground Floor	Chemical Store	Working	(20°C-35°C)	29	√
26			Quilting Machine Room	Working	(20°C-35°C)	27	√
27		1st Floor	Fabric Store	Working	(20°C-35°C)	29	√
28		2nd Floor	Mending Area	Working	(20°C-35°C)	30	√
29	Building-6	Ground Floor	ETP	Working	(20°C-35°C)	31	√
30	Building-7	Ground Floor	Security Post	Working	(20°C-35°C)	29	√
31	Building-8	Ground Floor	Electrical Sub-Station	Working	(20°C-35°C)	30	√
32	Shed-01		Wastage Area	Working	(20°C-35°C)	32	√
33	Shed-02		Wastage Area	Working	(20°C-35°C)	31	√

**\*\*Abbreviations and Acronyms:** °C = Temperature Measuring Unit.



*Figure: Temperature level in the working area*



**Indoor Humidity Level Inspection Result: (ACS Textiles (BD) Ltd.)**

Inspection Area					Inspection Status		
Sl. No	Building No	Floor/Level	Section	Condition	Comparative Standard (%)	Obtained Result	Within Limit
1	Building No-01	Ground Floor	Embroidery Section	Working	(20%-60%)	57	√
2			Accessories Store	Working	(20%-60%)	56	√
3		1st Floor	Finished Goods Store	Working	(20%-60%)	54	√
4		2nd Floor	Wastage Store	Working	(20%-60%)	57	√
5			prayer Room	Working	(20%-60%)	56	√
6	Building no-02	Ground Floor	Sizing & Weaving	Working	(20%-60%)	53	√
7		1st Floor	Cutting Section	Working	(20%-60%)	56	√
8			Feeding Section	Working	(20%-60%)	56	√
9			Stitching Section	Working	(20%-60%)	57	√
10			Fabrics Inspection	Working	(20%-60%)	57	√
11			Fabrics Folding	Working	(20%-60%)	53	√
12			Packing Section	Working	(20%-60%)	54	√
13			Metal Free Zone	Working	(20%-60%)	53	√
14	Building No-03	Ground Floor	Medical Center	Working	(20%-60%)	55	√
15		1st Floor	Child Care	Working	(20%-60%)	54	√
16			Fire Control Room	Working	(20%-60%)	52	√
17	Building No-04	Ground Floor	Warping Section-01	Working	(20%-60%)	51	√
18			Warping Section-02	Working	(20%-60%)	52	√
19			Twisting & Doubling	Working	(20%-60%)	57	√
20		1st Floor	Finishing Folding Section	Working	(20%-60%)	47	√
21	Building-05	Ground Floor	Sub-Station	Working	(20%-60%)	58	√
22		1st Floor	Office Room	Working	(20%-60%)	55	√
23			Technical Room	Working	(20%-60%)	51	√
24	Building-06	Ground Floor	Bleaching	Working	(20%-60%)	55	√
25			Dyeing	Working	(20%-60%)	58	√
26			Mercerizing	Working	(20%-60%)	55	√
27			Dyeing Finishing	Working	(20%-60%)	53	√
28			Chemical Sub Store	Working	(20%-60%)	51	√
29			Printing Section	Working	(20%-60%)	55	√
30			ETP	Working	(20%-60%)	54	√
31	Building-07	Ground Floor	Chemical Store	Working	(20%-60%)	56	√
32			Work-Shop	Working	(20%-60%)	56	√
33		1st Floor	General Store	Working	(20%-60%)	58	√
34			Officer's Dining	Working	(20%-60%)	57	√
35		2nd Floor	Worker's Canteen	Working	(20%-60%)	55	√
36	Building-10	Ground Floor	Washing Area	Working	(20%-60%)	56	√
37			Dryer Machine	Working	(20%-60%)	55	√
38	Building-11	Ground Floor	Chemical Store	Working	(20%-60%)	53	√
39			Quilting Machine	Working	(20%-60%)	52	√
40		1st Floor	Fabric Store	Working	(20%-60%)	56	√
41		2nd Floor	Mending	Working	(20%-60%)	56	√
42	Building-12	Ground Floor	Weaving Section	Working	(20%-60%)	55	√
43			Sizing Section	Working	(20%-60%)	58	√
44			Warping Section-02	Working	(20%-60%)	58	√

Inspection Area					Inspection Status		
Sl. No	Building No	Floor/Level	Section	Condition	Comparative Standard (%)	Obtained Result	Within Limit
45	Building-12	Ground Floor	Stenter Machine	Working	(20%-60%)	48	√
46			Rasing Section	Working	(20%-60%)	57	√
47		1st Floor	Quilting Section	Working	(20%-60%)	55	√
48			Cutting Section	Working	(20%-60%)	54	√
49	Building-12	1st Floor	Feeding Section	Working	(20%-60%)	56	√
50			Stitching Section	Working	(20%-60%)	58	√
51			Fabrics Inspection	Working	(20%-60%)	57	√
52			Fabrics Folding Section	Working	(20%-60%)	55	√
53			Packing Section	Working	(20%-60%)	57	√
54			Metal Free Zone	Working	(20%-60%)	55	√
55			Finished Goods Store	Working	(20%-60%)	53	√
56	Building-13	Ground Floor	Office Area	Working	(20%-60%)	56	√
57	Building-14	Ground Floor	Digital Printing	Working	(20%-60%)	55	√
58		1st Floor	Tufting	Working	(20%-60%)	58	√
59		2nd Floor	Tufting	Working	(20%-60%)	58	√
60	Building-15	Ground Floor	Admin & Compliance	Working	(20%-60%)	48	√
61			Accounts & Finance	Working	(20%-60%)	59	√
62			Commercial	Working	(20%-60%)	55	√
63		1st Floor	Show Room	Working	(20%-60%)	54	√
64			Display Center	Working	(20%-60%)	54	√
65			Marketing	Working	(20%-60%)	57	√
66			Commercial	Working	(20%-60%)	57	√
67		2nd Floor	Sample Room	Working	(20%-60%)	55	√
68			IT Room	Working	(20%-60%)	57	√

**\*\*Abbreviations and Acronyms:** RH= Relative Humidity

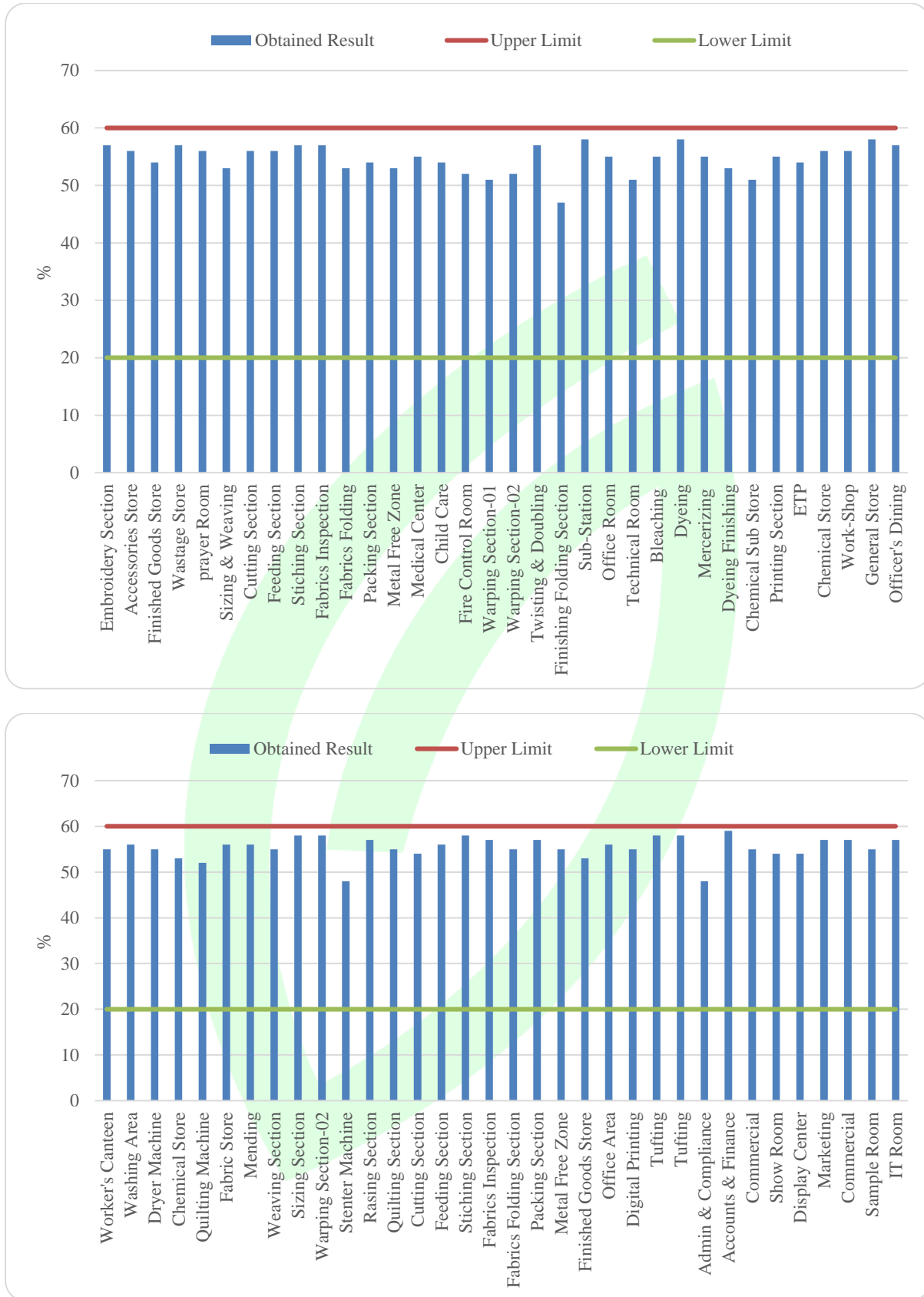
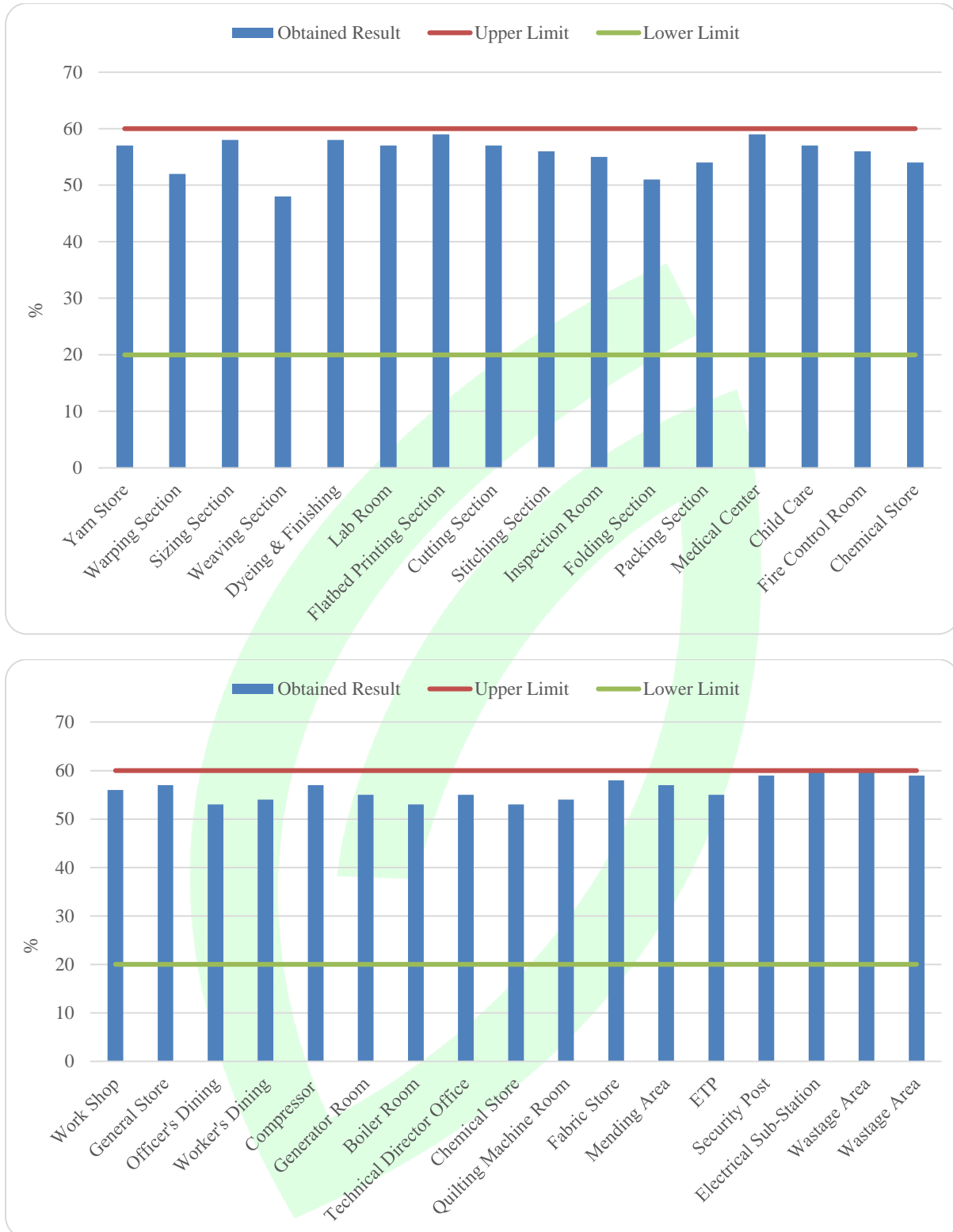


Figure: Humidity level in the working area

## Indoor Humidity Level Inspection Result: (ACS Towel Limited)

Inspection Area					Inspection Status		
Sl. No	Building No	Floor/Level	Section	Condition	Comparative Standard (%)	Obtained Result	Within Limit
1	Building-1	Basement	Yarn Store	Working	(20%-60%)	57	✓
2		Ground Floor	Warping Section	Working	(20%-60%)	52	✓
3			Sizing Section	Working	(20%-60%)	58	✓
4			Weaving Section	Working	(20%-60%)	48	✓
5			Dyeing & Finishing	Working	(20%-60%)	58	✓
6			Lab Room	Working	(20%-60%)	57	✓
7			Flatbed Printing Section	Working	(20%-60%)	59	✓
8		1st Floor	Cutting Section	Working	(20%-60%)	57	✓
9			Stitching Section	Working	(20%-60%)	56	✓
10			Inspection Room	Working	(20%-60%)	55	✓
11			Folding Section	Working	(20%-60%)	51	✓
12			Packing Section	Working	(20%-60%)	54	✓
13	Building-2	Ground Floor	Medical Center	Working	(20%-60%)	59	✓
14		1st Floor	Child Care	Working	(20%-60%)	57	✓
15			Fire Control Room	Working	(20%-60%)	56	✓
16	Building-3	Ground Floor	Chemical Store	Working	(20%-60%)	54	✓
17		1st Floor	Work Shop	Working	(20%-60%)	56	✓
18			General Store	Working	(20%-60%)	57	✓
19	Building-3	1st Floor	Officer's Dining	Working	(20%-60%)	53	✓
20		2nd Floor	Worker's Dining	Working	(20%-60%)	54	✓
21	Building-4	Ground Floor	Compressor	Working	(20%-60%)	57	✓
22			Generator Room	Working	(20%-60%)	55	✓
23			Boiler Room	Working	(20%-60%)	53	✓
24			Technical Director Office	Working	(20%-60%)	55	✓
25	Building-5	Ground Floor	Chemical Store	Working	(20%-60%)	53	✓
26			Quilting Machine Room	Working	(20%-60%)	54	✓
27		1st Floor	Fabric Store	Working	(20%-60%)	58	✓
28		2nd Floor	Mending Area	Working	(20%-60%)	57	✓
29	Building-6	Ground Floor	ETP	Working	(20%-60%)	55	✓
30	Building-7	Ground Floor	Security Post	Working	(20%-60%)	59	✓
31	Building-8	Ground Floor	Electrical Sub-Station	Working	(20%-60%)	60	✓
32	Shed-01		Wastage Area	Working	(20%-60%)	60	✓
33	Shed-02		Wastage Area	Working	(20%-60%)	59	✓

**\*\*Abbreviations and Acronyms:** RH= Relative Humidity



*Figure: Humidity level in the working area*

## Discussion and Recommendation:

There is no “ideal” humidity and Temperature condition. The normal levels of relative humidity and temperature for indoor air will vary widely from region (climate) to region (climate). Individuals can also vary widely as to what they find acceptable. The OSHA and ASHRAE guidelines recommend a range of 20°C to 35°C and a relative humidity (RH) of 20 to 60 percent. GREENBUD Testing & Inspection Services Private Limited has tested Temperature and Humidity for all the production sections of **ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited**. During inspection, temperature and humidity in all sections found within the limit.

The following recommendations are suggested to reduce any farther adverse effect:

- ✓ Automation and mechanization of tasks minimize the need for heavy physical work and the resulting buildup of body heat.
- ✓ Covering hot surfaces with sheets of low emissivity material such as aluminum or paint that reduces the amount of heat radiated from this hot surface into the workplace.
- ✓ Insulation reduces the heat exchange between the source of heat and the work environment.
- ✓ Ventilation, localized air conditioning is commonly used to provide cool workstations.
- ✓ Passive ventilation by opening windows for cross ventilation
- ✓ Remove moisture at the source, for example, use an extract fan in the high humid area, using a range hood in the kitchen, venting a dryer to the outside and using only externally vented gas heaters.
- ✓ Regular temperature and humidity monitoring.

The factory is suggested to assess the temperature and humidity level once annually at least if all other setups are constant.



Engr. Syed Tashem Mahmood  
CEO and Chief Environmental Engineer  
GREENBUD  
MIEB No.: M/35960  
ISO 14001 certification Number.: EA/15/IN/16050  
ISO 50001 certification Number.: ENMS/16/IN/533



## APPENDIX



*Figure: Indoor Temperature and Humidity Monitoring*

## Instrument Description:

Humidity affects stress on materials and products to a degree that can be calculated. The data generated by humidity testing can be important in planning materials selection, paints, and coatings, and expected a lifetime of a product. High and low humidity can be simulated in a number of testing chambers and machines. GREENBUD Testing & Inspection Services Private Ltd. FY 866 Digital Hydro-Thermometer to measure Indoor & Ambient Temperature & Humidity level. The digital Humidity & Temperature Meter & Wet Bulb Temperature Dew Point temperature has been designed to combine the functions of Humidity Meter, Temperature Meter, Wet Bulb Temperature and Dew point temperature. It is an ideal Humidity & Temperature Meter Instrument with scores of practical applications for laboratorial, industrial, Engineer and professional use. The Humidity & Temperature Meter is for use a humidity & temperature semiconductor sensor.



## Technical Specification:

Response Time	%RH:10S (90% at +25°C still air)
Accuracy	Ambient Temperature range: 64 to 82°F (18 to 28°C)
Sampling Rate	2.5 samples per second
Operating Conditions	32 to 104°F (0 to 40°C); < 80% RH non-condensing
Humidity Accuracy	+ 2%RH (at 25°C, 20% ~ 80% RH). + 2.5%RH (at other ranges)
Humidity	0%~100%RH
Resolution	0.01% RH, 0.01°C /°F.
Dew Point Temperature	(-30°C ~100°C /-22°F~199°F)
Wet Bulb Temperature	(0°C~80°C /32°F~176°F)



## CERTIFICATE OF CALIBRATION

**Issued by: Calibration Technology Pvt. Limited.**

Address: Vivek Biponon Tower, Level-2, 13/P, Biponon C/A, Mymensing Lane, Dhaka-1000, Bangladesh.

Tel: +8809643220000, E-mail : info@caltechbd.com, Visit us at: www.caltechbd.com



Accredited to ISO 9001:2015 & ISO/IEC 17025:2017

### Calibration Performed For :

**GREENBUD**

F14A,L14, Confidence Center(Building 2),Kha-09, Shajadpur,Gulshan,Dhaka,Bangladesh

Phone : +880 1711084732

Mail Address : jesan@greenbudbd.com

Contact Person : SYEED JESAN MAHMOOD

### Calibration Statics:

Received on : 06 Dec 2023

Date Serviced : 07 Dec 2023

Due on : 06 Dec 2024

Issued on : 07 Dec 2023

Received Condition : Good

Returned Condition : Good

Interval : 12 Months

Performed By : Md. Mahin Saruar Sutton

Performed At : Caltech Laboratory

Environmental Conditions : Temp 25.1°C & RH 56.7%

CalTech Procedure : CTPL-WI-51

Certificate No. CTPL(23-24)-6182

### Equipment Details :

Description : Digital Thermo Hygrometer  
 Manufacturer : FUYI  
 Model No. : FY866  
 Serial No. : 6F221604006P  
 Asset /ID No : GB-140-021-002  
 Working Range : Temp.(-10 to 50)°C & Hum.(20 to 99)%  
 Readability : 0.1°C for Temp. & 1% for RH.

### Comments/Notes

Declaration of result as per ILAC-G8:2019 (Binary).

The result of calibration is satisfactory.

Any section marked,

N/P= Not Provided,

N/S= Not Submitted,

UUC= Unit Under Calibration.

Tolerance is taken from manufacturer specification.

### CalTech hereby certifies that...

The above described instrument met or exceeded all established specifications at the time of calibration specified above; and the calibration results published in this certificate obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI) or have been derived from accepted values, physical constants, by ratio or self calibration techniques. All Calibration activities performed are in compliance with ANSI/NCCL Z540-2-1997 and ISO 17025:2017 when specified as well as national/ international system guidelines. The quality system is ISO 9001:2015 certified. This report shall not be reproduced, except in full, without the written permission of CalTech.

All Calibrations, unless otherwise noted, are performed using accuracies of less than or equal to one quarter of the specification of the unit under calibration. The measurement uncertainties include a coverage factor of K=2, having a confidence level of 95%.

**Calibration Points** Result Column : P= Pass, F= Fail, A= Adjusted, D= No Result drawn due to tolerance N/S

### Dew Point Temperature

Sl. No.	Description	As found		UUC (°C)	Error (°C)	Tolerance (±) (°C)	Result	Uncertainty (±) (°C)
		Nominal (°C)	(Corrected) (°C)					
01	Temperature	-20	-19.9	-20.0	-0.1	1.5	P	0.3
02	Temperature	20	19.9	20.0	0.1	1	P	0.3
03	Temperature	30	30.0	30.0	0.0	1	P	0.3
04	Temperature	40	39.9	40.0	0.1	1	P	0.3
05	Temperature	50	49.8	50.0	0.2	1.5	P	0.3



**TECH**  
on Technology Pvt. Limited

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**ANAB**  
ACCREDITED  
ISO/IEC 17025  
CALIBRATION LABORATORY  
Certificate Number: AC-3052

**IAS** ACCREDITED  
Management Systems  
Certification Body

**IAF** MEMBER OF MULTILATERAL  
RECOGNITION ARRANGEMENT

Certificate No : DQ150C144

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Certificate No.

CTPL(23-24)-6182

**Wet Bulb Temperature**


Sl. No.	Description	Nominal (°C)	As found (Corrected) (°C)	UUC (°C)	Error (°C)	Tolerance (±) (°C)	Result	Uncertainty (±) (°C)
01	Temperature	-10	-9.9	-10.0	-0.1	1.5	P	0.3
02	Temperature	20	19.9	20.0	0.1	1	P	0.3
03	Temperature	30	30.0	30.0	0.0	1	P	0.3
04	Temperature	40	40.1	40.0	-0.1	1	P	0.3
05	Temperature	50	50.2	50.0	-0.2	1.5	P	0.3

Sl. No.	Description	Nominal (%)	As found (Corrected) (%)	UUC (%)	Error (%)	Tolerance (±) (%)	Result	Uncertainty (±) (%)
01	Humidity at 25(°C)	20	20.1	20.0	-0.1	3	P	0.9
02	Humidity at 25(°C)	30	29.8	30.0	0.2	3	P	0.9
03	Humidity at 25(°C)	40	40.4	40.0	-0.4	3	P	0.9
04	Humidity at 25(°C)	50	48.6	50.0	1.4	5	P	0.9
05	Humidity at 25(°C)	70	67.5	70.0	2.5	5	P	0.9

**Standard Used to Calibrate Equipment**


Sl. No.	Description	Manufacturer	Model	Serial	Calibrated from	Cal. Due on
01	Humidity Meter	TEARER Tech	201	202112232	QSI	24 Mar 2024

Calibration Performed By :  
Calibration Engineer



[END]

Authorized By :  
Laboratory Manager



Md. Reza Hossain



# ACCREDITATION CERTIFICATE

Issued under the authority of Bangladesh Accreditation Act, 2006  
by Bangladesh Accreditation Board (BAB), Ministry of Industries to

**GREENBUD Testing & Inspection Services**  
**14A, Level-14, Building 2, Confidence center**  
**Kha-09, Sahajadpur, Gulshan, Dhaka-1212, Bangladesh**


This is to certify that this

**Inspection Body(Type-A)**  
is accredited in accordance with the international standard

**ISO/IEC 17020:2012**  
in respect of the associated scope, subject to the terms and  
conditions governing the relevant conformity assessment  
body (CAB) accreditation.

Certificate Number : 05.003.18  
Accreditation Date : 28 June 2018  
Date of Issuance : 18 Aug 2024 (2nd Renewal)  
Date of Expiration : 27 June 2027



 18. 08.2024  
**Md. Anwarul Alam**  
**Director General**

This certificate must be returned on request; reproduction must follow BAB guidelines. For the specific scopes to which this accreditation applies, please refer to the Directory of CABs at BAB website.