

Ambient Air Quality Inspection

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

Inspection Ref.: H/A 11520

Contact Us

Corporate Head Office:

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General Information			
Invoice Reference No: GB/2024/08/80		Inspection Date: 09.09.2024	
Inspection Reference No: H/A 11520		Inspection Duration: 11am-5pm	
Report Generation Date:	15.09.2024	Inspection location: Around of factory premises	
Report Submission Date:	22.09.2024	Inspection Description: Ambient Air Quality Inspection	
Inspection Standards: 2004/108/EEC			
<u>Company Name:</u> ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited <i>Address: Tetlabo, Barpa, Rupgonj, Narayangonj.</i>		<u>Contact Person:</u> Md. Ruhul Alam Sharif <i>GM, Compliance</i>	
On Site Inspection Team			
Md. Shaharia Ahmed <i>Executive (Operation)</i> <i>B.Sc. in Environmental Science</i>		Tanzir Hosen <i>Chemist (Operation)</i> <i>B.Sc. in Chemistry</i>	
Report Prepared by		Quality Checked	
			
Tanzir Hosen <i>Chemist (Operation)</i> <i>B.Sc. in Chemistry</i>		Mosharof Hossain <i>Assistant Manager (Operation)</i> <i>M.Sc. & B.Sc. in Environmental Science</i>	
Report Approved by:			
			
Engr. Syed Tasnem Mahmood <i>Chief Environmental Engineer & CEO</i> <i>B.Sc. & M.Sc. (Civil and Environmental Engineering)</i> <i>MIEB No.: M/35960</i>			

Introduction:

Ambient Air Quality (AAQ) is a term which refers to the air quality around buildings and structures, especially as it relates to the health and comfort of building occupants. AAQ can be affected by gases (including carbon monoxide, radon, volatile organic compounds), particulates, microbial contaminants (mold, bacteria), or any mass or energy stressor that can induce adverse health conditions. Source control, filtration and the use of ventilation to dilute contaminants are the primary methods for improving ambient air quality. Residential units can further improve ambient air quality by routine cleaning of carpets and area rugs.

Determination of AAQ involves the collection of air samples, monitoring human exposure to pollutants, collection of samples on building surfaces, and computer modeling of air flow inside buildings.

AAQ is part of Ambient Environmental Quality (AEQ), which includes AAQ as well as other physical and psychological aspects of life Ambient (e.g., lighting, visual quality, acoustics, and thermal comfort).

ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited has hired GREENBUD Testing & Inspection Services Private Limited to inspect the ambient air quality. GREENBUD has covered four different points around the premises for the inspection of the ambient air quality and generated the report according to the condition of the area.

Method of Sampling:

Analysis of the ambient air quality parameters was done using direct reading instruments. So, there was no separate sampling conducted for this analysis. During the analysis, a standard work instruction stated in the TP-GB-04 was followed.

Method of Analysis:

The following methods were used to analyze the air quality parameters:

Parameters	Methods
SO ₂ (Sulfur Dioxide)	Electrochemical
CO (Carbon Monoxide)	Electrochemical
CO ₂ (Carbon Dioxide)	Non-Dispersive Infrared (NDIR)
NH ₃ (Ammonia)	Indophenol
Pb (Lead)	AAS method after sampling on filter paper
Suspended Particulate Matter (SPM)	Calculated
Nitrogen Dioxide (NO ₂)	Electrochemical
Particulate Matter	Electrochemical
Volatile Organic Compound (VOC)	Electrochemical
Formaldehyde (CH ₂ O)	Electrochemical

Reference Standard:

Parameters	PM _{2.5}	PM ₁₀	VOC	CH ₂ O	NO ₂	SO ₂	CO	CO ₂	O ₃	NH ₃	Pb
Air Pollution Control Rules 2022 ¹	65 (µg/m ³)	150 (µg/m ³)	NYS (mg/m ³)	NYS (mg/m ³)	80 µg/m ³ (0.043 ppm)	80 µg/m ³ (0.031 ppm)	5mg/m ³ (4.36) ppm	NYS (ppm)	100 µg/m ³ (0.051) ppm	100 µg/m ³ (0.051) ppm	0.25 µg/m ³ (2.5E-7 ppm)

Ambient Air Quality Inspection Result:

Sl. No	Inspection Area		SPM	PM ₁	PM _{2.5}	PM ₁₀	VOC	CH ₂ O	NO ₂	SO ₂	H ₂ S	Pb	CO	CO ₂	O ₃
	Point	Sample	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)	(mg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ppm)	(ppm)	(ppm)
1	Location-1 23°45'20.09"N 90°32'46.72"E	Sample-01	77	36	47	59	0	0	0	0	0	0	0	443	0
2		Sample-02	74	34	45	57	0	0	0	0	0	0	0	440	0
3	Location-2 23°45'13.82"N 90°32'42.65"E	Sample-01	62	24	36	48	0	0	0	0	0	0	0	417	0
4		Sample-02	66	26	39	51	0	0	0	0	0	0	0	415	0
5	Location-3 23°45'16.47"N 90°33'0.22"E	Sample-01	87	39	52	67	0	0	0	0	0	0	0	432	0
6		Sample-02	90	37	54	69	0	0	0	0	0	0	0	429	0
7	Location-4 23°45'12.59"N 90°32'58.70"E	Sample-01	61	24	36	47	0	0	0	0	0	0	0	456	0
8		Sample-02	65	27	39	50	0	0	0	0	0	0	0	453	0

****Abbreviations & Acronyms:** PM₁ = Particulate Matter 1; PM_{2.5} = Particulate Matter 2.5; PM₁₀ = Particulate Matter 10; CO = Carbon monoxide; CO₂ = Carbon dioxide; SO₂ = Sulfur Dioxide; NO₂ = Nitrogen Dioxide.

¹ DOE, "Air Pollution Control Rules'2022" Schedule-01, Department of Environment, Govt. of Bangladesh

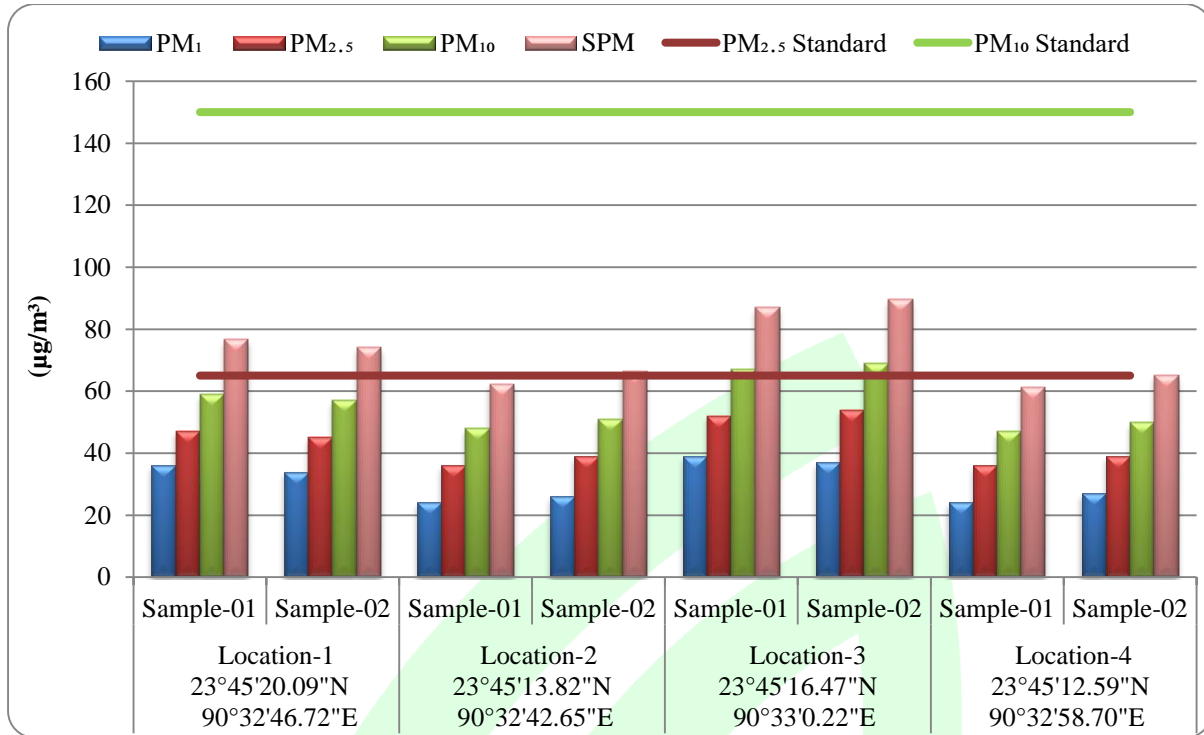


Figure: Ambient Particulate Matter Monitoring Chart

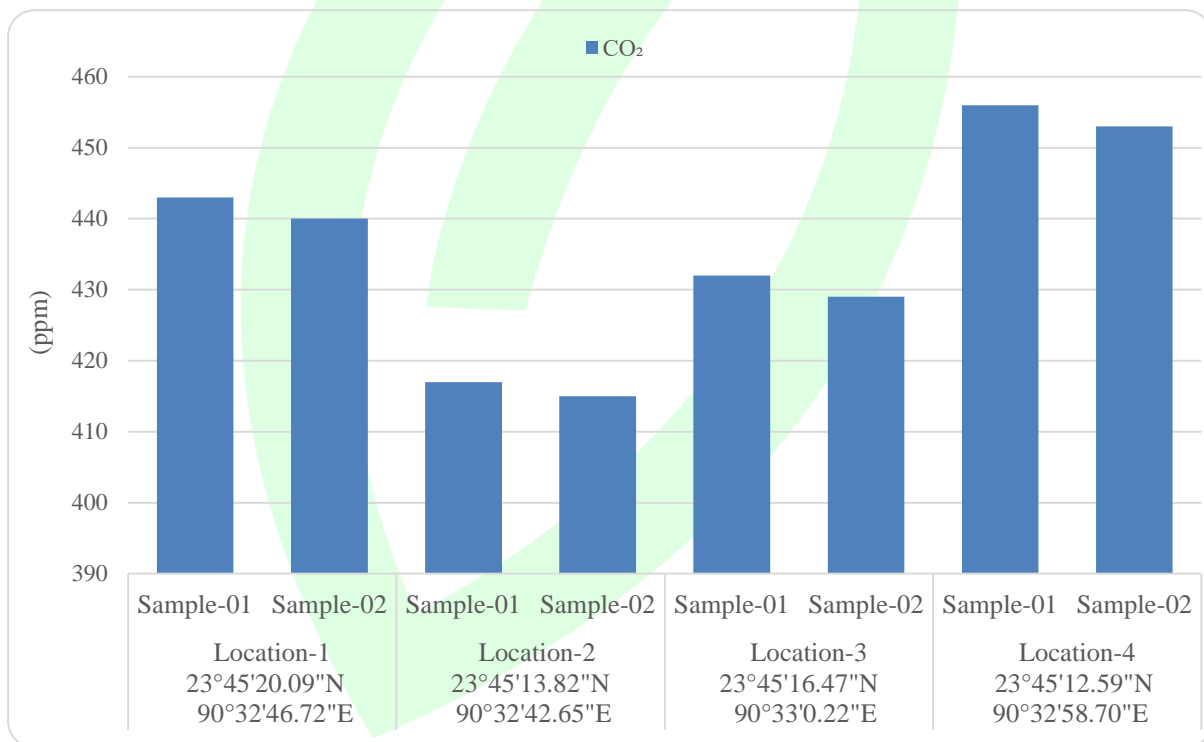


Figure: Ambient Carbon Dioxide (CO₂) Monitoring Chart



Figure: Ambient Air Quality Sampling Location

Discussion and Recommendation:

GREENBUD Testing & Inspection Services Private Limited has adopted the **Air Pollution Control Rules-2022** guidelines for testing ambient air quality of the **ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited**. During inspection, it has been found that all of the parameters were within the standard limit, given by **Air Pollution Control Rules-2022**. However, no traces of VOC, CH₂O, NO₂, SO₂, O₃, Pb and NH₃ were found during the inspection. As standard limit for CO₂, VOC and CH₂O has not yet set in the **Air Pollution Control Rules-2022**. Therefore, it was not possible to conclude whether these parameters were within or exceeded the limit.

The management may follow the following recommendation for further improvement:

- ✓ More Tree plantation around the factory premises
- ✓ Restrict any kind of onsite waste disposal, incineration or open burning
- ✓ Control factory vehicle movement
- ✓ Road watering/road paving with stone to reduce dust generation
- ✓ Regular Air quality monitoring.

Factory is suggested to assess the ambient air quality at least once annually if all other setups remain 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: Ambient Air Quality Inspection

Inspection Instrument:



Air Quality Meter – JD-3002



Air Quality Meter -DM106



Multi Gas detector-BH-4S



Carbon Monoxide Meter- pyle pcmm05



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



CERTIFICATE OF CALIBRATION

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 Sarwar Sutan
Performed At : Caltech Laboratory
Environmental Conditions : Temp: 25.2 °C & RH: 57.5%
Caltech Procedure : CTPH-WI-126

Certificate No. : CTPH/23-24-6183

Equipment Details :

Description : Air Quality Meter
Manufacturer : Diemmer
Model No. : DM105
Serial No. : N/P
Asset ID No : GB-110-014-001
Range : Ref On Obs
Readability : Ref On Obs

Comments/Notes

Declaration of result as per ILAC-GB-2019 (Binary).
The result of calibration is satisfactory.
Any section marked,
N/P= Not Provided,
N/S= Not Submitted,
UUC= Unit Under Calibration.

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 **Comparison method** 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

Sl. No.	Description	Nominal (ppm)	Standard Solution (mg/m ³)	As found UUC (mg/m ³)	Error(mg/ Tolerance (t)) (mg/m ³)	Result	Uncertainty (t)
01	HCOC	50.000	1.999	1.998	-0.001 N/A	D	0.02 % Rdg.

Sl. No.	Description	Nominal (mg/m ³)	Standard Solution (mg/m ³)	As found UUC (mg/m ³)	Error(mg/ Tolerance (t)) (mg/m ³)	Result	Uncertainty (t)
01	TVOC	10.000	10.000	9.999	-0.001 N/A	D	0.02 % Rdg.



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CERTIFICATE OF CALIBRATION

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 : 09 Dec 2023
Due on : 08 Dec 2024
Issued on : 09 Dec 2023
Received Condition : Good
Returned Condition : Good
Interval : 12 Months
Performed By : Md. Mahin Sarwar Sutan
Performed At : Caltech Laboratory
Environmental Conditions : Temp: 24.9 °C & RH: 57.6%
Caltech Procedure : CTPH-WI-126

Certificate No. : CTPH/23-24-6186

Equipment Details :

Description : Air Quality Meter
Manufacturer : JLDG
Model No. : JD-3002
Serial No. : N/P
Asset ID No : GB-110-014-004
Range : Ref On Obs
Readability : Ref On Obs

Comments/Notes

Declaration of result as per ILAC-GB-2019 (Binary).
The result of calibration is satisfactory.
Any section marked,
N/P= Not Provided,
N/S= Not Submitted,
UUC= Unit Under Calibration.

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 **Comparison method** 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.

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

Sl. No.	Description	Nominal (ppm)	Standard Solution (mg/m ³)	As found UUC (mg/m ³)	Error(mg/ Tolerance (t)) (mg/m ³)	Result	Uncertainty (t)
01	HCOC	50.000	1.999	1.998	-0.001 N/A	D	0.02 % Rdg.

Sl. No.	Description	Nominal (mg/m ³)	Standard Solution (mg/m ³)	As found UUC (mg/m ³)	Error(mg/ Tolerance (t)) (mg/m ³)	Result	Uncertainty (t)
01	TVOC	2.000	2.000	1.999	-0.001 N/A	D	0.02 % Rdg.



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CERTIFICATE OF CALIBRATION

Standard Used to Calibrate Equipment

Sl. No.	Description	Manufacturer	Model	Serial	Calibrated from	Cal. Due on
01	CARBON MONOXIDE 50 PPM	Snaptech Products, UK	Y811255	N/P	NIST Traceable	Nov 2024
02	Certified Gas Mixtures	Snaptech Products, UK	Y112587	N/P	NIST Traceable	Feb 2024

Calibration Performed By :
Calibration Engineer

[Signature]

[END]

Authorized By :
Laboratory Manager



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CERTIFICATE OF CALIBRATION

Certificate No. : CTPH/23-24-6186

Sl. No.	Description	Nominal (ppm)	Standard Gas (ppm)	As found UUC (ppm)	Error (ppm)	Tolerance (t) (ppm)	Result	Uncertainty (t) (ppm)
01	CO 2 Gas	50	50	49	-1	1	P	0.59

Standard Used to Calibrate Equipment

Sl. No.	Description	Manufacturer	Model	Serial	Calibrated	Cal. Due on
01	CARBON MONOXIDE 50 PPM	Snaptech Products, UK	Y811255	N/P	NIST Traceable	Nov 2024
02	Certified Gas Mixtures	Snaptech Products, UK	Y112587	N/P	NIST Traceable	Feb 2024
03	Carbon Dioxide Calibration Gas CO2	GASCO	1031-37-50	N/P	NIST Traceable	Feb 2024

Calibration Performed By :
Calibration Engineer

[Signature]

[END]

Authorized By :
Laboratory Manager





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CERTIFICATE OF CALIBRATION

Calibration Performed For:		Certificate No. CTPL(23-24)-6188
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		Equipment Details: Description : Multi Gas Detector Manufacturer : HENAN ROSEN ELECTRIC COM. LTD. Model No. : BH-45 Serial No. : 202011170 Asset /ID No : GB-110-014-006 Range/ readability () : Ref. on obs.
Calibration Status: 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 Sarwar Suton Performed At : Caltech Laboratory Environmental Conditions : Temp: 25.2 °C & RH: 57.5% Caltech Procedure : CTPL-WI-102		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, N/A= Not Applicable 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 DKK-R6-1 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.
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Calibration Points		Result Column : P= Pass, F= Fail, A= Adjusted, N/S= Not Specified						
Sl. No.	Description	Nominal (ppm)	Standard Gas (ppm)	As found UUC (ppm)	Error (ppm)	Tolerance (±) (ppm)	Result	Uncertainty (±) (ppm)
01	CO Gas	50	50	49	-1	1	P	0.59
02	CO Gas	100	100	99	-1	2	P	0.59

Sl. No.	Description	Nominal (ppm)	Standard Gas (ppm)	As found UUC (ppm)	Error (ppm)	Tolerance (±) (ppm)	Result	Uncertainty (±) (ppm)
01	H ₂ S Gas	50	50	50	0	1	P	0.59
02	H ₂ S Gas	100	100	100	0	2	P	0.59



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CERTIFICATE OF CALIBRATION

Calibration Performed For:		Certificate No. CTPL(23-24)-6190
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		Equipment Details: Description : Carbon Monoxide gas Detector Manufacturer : PYLE Model No. : PCMM05 Serial No. : N/P Asset /ID No : GB-110-014-008 Range/ readability () : Ref. on obs.
Calibration Status: Received on : 06 Dec 2023 Date Serviced : 09 Dec 2023 Due on : 08 Dec 2024 Issued on : 09 Dec 2023 Received Condition : Good Returned Condition : Good Interval : 12 Months Performed By : Md. Mahin Sarwar Suton Performed At : Caltech Laboratory Conditions : Temp 25.1 °C & RH% 55.3 Caltech Procedure : CTPL-WI-102		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, N/A= Not Applicable 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 ISO/IEC 60079-29-2 : 2007 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.
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Calibration Points		Result Column : P= Pass, F= Fail, A= Adjusted, N/S= Not Specified						
Sl. No.	Description	Nominal (ppm)	Standard Gas (ppm)	As found UUC (ppm)	Error (ppm)	Tolerance (±) (ppm)	Result	Uncertainty (±) (ppm)
01	CO Gas	100	100	102	2	10	P	1
02	CO Gas	200	200	199	-1	10	P	1
03	CO Gas	500	500	506	6	10	P	2



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CERTIFICATE OF CALIBRATION

Calibration Performed For:		Certificate No. CTPL(23-24)-6188
Standard Used to Calibrate Equipment		Equipment Details: Description : O ₂ Gas Manufacturer : Spantech Products, UK Model : Y123119 Serial : N/P Calibrated from : NIST Traceable Cal. Due on : August 2024

Sl. No.	Description	Nominal (% Vol)	Standard Gas (% Vol)	As found UUC (% Vol)	Error (% Vol)	Tolerance (±) (% Vol)	Result	Uncertainty (±) (% Vol)
01	O ₂ Gas	20.0	20.00	20.0	0.0	0.05	P	0.4% of rdg.

Calibration Performed By: [Signature]
Authorized By: [Signature]
Laboratory Manager



CALIBRATION TECHNOLOGY PVT. LIMITED
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CERTIFICATE OF CALIBRATION

Standard Used to Calibrate Equipment		Certificate No. CTPL(23-24)-6190
Calibration Performed By: Calibration Engineer		Equipment Details: Description : Standard Gas Manufacturer : Spantech Products, UK Model : Y118200 Serial : N/P Calibrated from : NIST Traceable Cal. Due on : May 2024

Sl. No.	Description	Manufacturer	Model	Serial	Calibrated from	Cal. Due on
01	Standard Gas	CASCO	10L 49-100	N/P	NIST Traceable	31 Dec 2024
02	Standard Gas	Spantech Products, UK	Y118200	N/P	NIST Traceable	May 2024
03	Standard Gas	Spantech Products, UK	Y118500	N/P	NIST Traceable	May 2024

Calibration Performed By: [Signature]
Authorized By: [Signature]
Laboratory Manager



ACCREDITATION CERTIFICATE

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

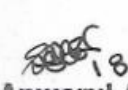
GREENBUD Testing & Inspection Services
14A, Level-14, Building 2, Confidence center
Kha-09, Sahajadpur, Gulshan, Dhaka-1212, Bangladesh

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

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