

Ambient Noise Level Inspection

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

Inspection Ref. No: I/N 11172

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: I/N 11172		Inspection Duration: 11am-5pm	
Report Generation Date:	15.09.2024	Inspection Description: Ambient Noise Level	
Report Submission Date:	22.09.2024	Inspection location: Around Factory Building	
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:

Noise pollution or noise disturbance is the disturbing or excessive noise that may harm the activity or balance of human or animal life. The main source of ambient noise pollution for an industry is the machineries and activities for production, power generation with in-house captive power plant, raw material and goods loading, unloading etc.

Recently, noise pollution has been of increasing concern worldwide, particularly in most garment factories. The noise problems of the modern industrial societies seem incomparable to the past given the larger sources of noise now present outdoors and indoors. According to the World Health Organization, industrial machineries and activity noise is one of the main sources of environmental noise exposure.

Noise levels are measured in decibels (dB). One decibel is the threshold of hearing. Approximately 60 dB is the level of normal talking. According to World Health Organization (WHO), the permissible noise level in industrial environments should not exceed 85 dB. Exposure for more than six hours a day to NOISE in excess of 85 dB is potentially hazardous to health.

ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited has hired GREENBUD Testing & Inspection Services Private Limited to inspect the Ambient Noise level. GREENBUD has covered four locations for testing the noise level and generated report according to the activity occupancy of the area.

Method of Analysis:

Inspection of noise level was done using direct reading instruments. During the analysis, a standard work instruction stated in the **TP-GB-02** was followed.

Ambient Noise Level Inspection Result:

Sl. No.	Inspection Area		Inspection Status				
			Reference of Relevant Standard		Obtained Result (dB)	SPCR, 2006 Limit	WHO Limit
	Point	Sample	Sound Pollution Control Rules-2006 (dB)	WHO Guide Line (dB)			
1	Location-1 23°45'20.09"N 90°32'46.72"E	Sample-01	60	70	59	✓	✓
2		Sample-02	60	70	58	✓	✓
3	Location-2 23°45'13.82"N 90°32'42.65"E	Sample-01	60	70	55	✓	✓
4		Sample-02	60	70	56	✓	✓
5	Location-3 23°45'16.47"N 90°33'0.22"E	Sample-01	60	70	57	✓	✓
6		Sample-02	60	70	58	✓	✓
7	Location-4 23°45'12.59"N 90°32'58.70"E	Sample-01	60	70	53	✓	✓
8		Sample-02	60	70	54	✓	✓

****Abbreviations and Acronyms:** SPCR=Sound Pollution Control Rules; WHO = World Health Organization; dB = decibel.

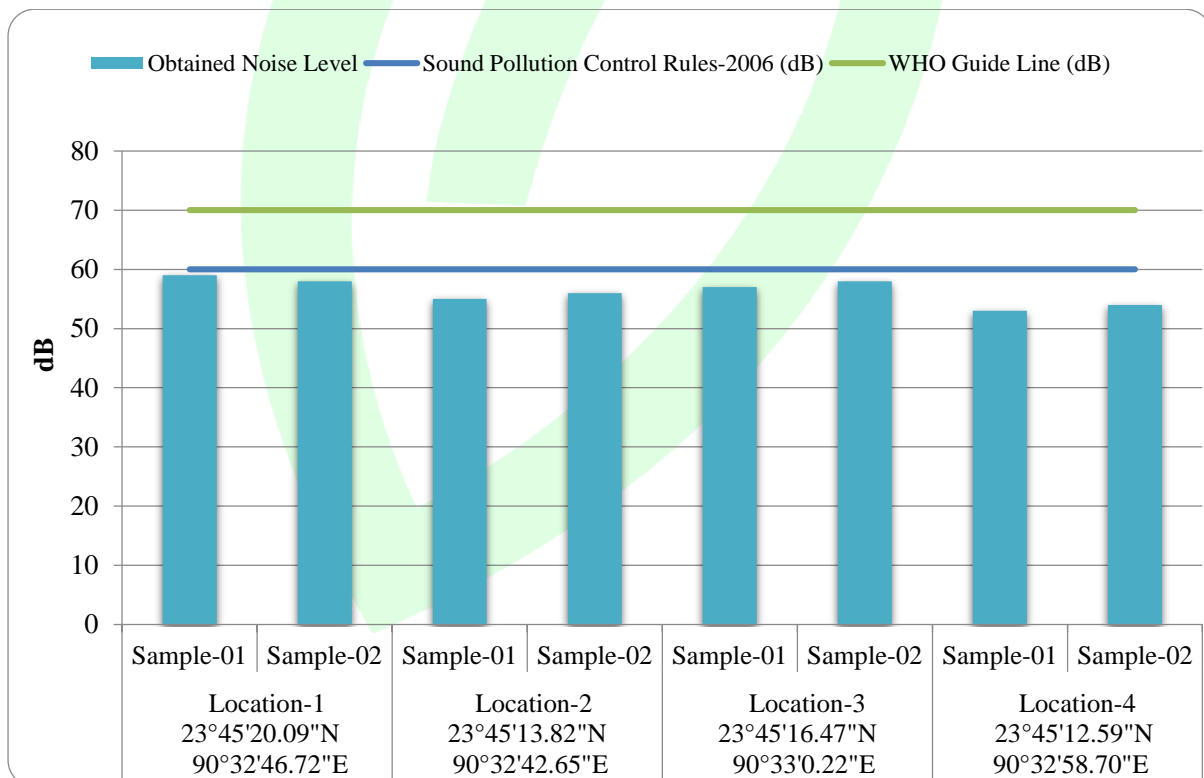


Figure: Ambient Noise Level Monitoring Chart



Figure: Ambient Noise Level Inspection Location

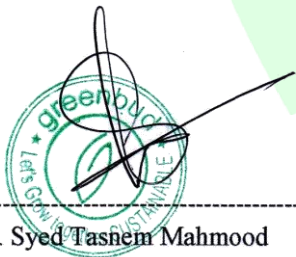
Discussion and Recommendation:

As **ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited** is situated in a mixed zone, therefore the noise level must be within 60 dB according to **Sound Pollution Control Rules-2006**, DoE, Bangladesh. During inspection, noise level in all the inspected locations has been found in compliance with the DoE and WHO standard limit.

Following recommendations are suggested to reduce the adverse effect:

- ✓ Change the activity related to the generated noise so that the sound level is reduced; i.e., reducing motor power or speed of rotating drum of equipment, repair faulty equipment such as loose bolts and nuts etc.
- ✓ Increase greenery around the factory area as green belt act as natural sound barrier.
- ✓ Construct 300 mm thick wall around the generator room and use of fire door as a means of noise baffling measures.
- ✓ Employee who exposed to a noise level greater than 75 dB for duration of more than 8 hours per day must use hearing protection.
- ✓ Use of acoustic insulating materials, isolation of the noise source, and other engineering controls should be investigated and implemented where feasible.

Factory is suggested to assess the Noise level once annually at least if all other set ups 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

ANNEXURE



Fig: Ambient Noise Level Inspection

Inspection Instrument:

In Bangladesh noise pollution (also termed as NOISE pollution) is a major health hazard. In fact, due to noise pollution millions of people in Bangladesh are exposed to a number of health risks - from deafness to heart attack. On city streets noise pollution can be caused by hydraulic horns of vehicles, microphones and cassette players. The hydraulic horns used by buses, trucks and scooters in the crowded city streets are dangerous for human being. This is also how noise pollution in Bangladesh is affecting the hearing power of thousands of children every day. The horns especially cause serious damage to children. Experts say, if a child below three years of age hears a horn emitting 100 dB of noise from a close range, he or she might lose his or her hearing power.

GREENBUD Testing & Inspection Services Private Ltd. high quality equipment is available to assess your NOISE Level. We have used “SLM-25”, GREENBUD is also committed to assess your NOISE inside the factory premises with transparency & Quality. To assess this NOISE level, we have to follow some standards, such as Sound Pollution Control Rules-2006, WHO, DoE etc.



Technical Specification

Microphone	½ inch Electret Condenser Microphone
Measuring Range	30~130dB
Accuracy	±1.5dB
Frequency Range	31.5Hz ~ 8.5kHz
Frequency Weighting	A&C
Low Battery Indication	Yes
Over Range Indication	Yes
Digit & Resolution	5 Digits & 0.1dB



CALIBRATION TECHNOLOGY PVT. LIMITED
Vivek Biponon Tower, Level-2
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Mobile: +8809643220000; www.caltechbd.com
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 Saruar Suton
Performed At : Caltech Laboratory
Environmental Conditions : Temp: 20.3 °C & RH% : 56.1
CalTech Procedure : CTPL-WI-025

Certificate No.

CTPL(23-24)-6175

Equipment Details :

Description : Sound Level Meter
Manufacturer : Teckoplus
Model No. : SLM-25
Serial No. : 89022L
Asset /ID No : GB-120-019-002
Range (dB) : 30~130
Readability (dB) : 0.1

Comments/Notes

Uncertainty taken into account for declaration of result as per
ANAB AR 2251 and 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 IEC 61672:2013 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

Sound "A" Weighting

Sl. No.	Description	Nominal (dB)	Standard Value (dB)	As found (Corrected) UUC (dB)	Error (dB)	Tolerance (±) (dB)	Result	Uncertainty (±) (dB)
01	Sound	94	94	94.0	0.0	1.5	A	0.46
02	Sound	104	104	104.0	0.0	1.5	A	0.46
03	Sound	114	114	114.0	0.0	1.5	A	0.46



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CERTIFICATE OF CALIBRATION

Certificate No. CTPL(23-24)-6175

Sound "C" Weighting

Sl. No.	Description	Nominal (dB)	Standard Value (dB)	As found (Corrected) UUC (dB)	Error (dB)	Tolerance (±) (dB)	Result	Uncertainty (±) (dB)
01	Sound	94	94	94.0	0.0	1.5	A	0.46
02	Sound	104	104	104.0	0.0	1.5	A	0.46
03	Sound	114	114	114.0	0.0	1.5	A	0.46

Standard Used to Calibrate Equipment

Sl. No.	Description	Manufacturer	Model	Serial	Calibrated from	Cal. Due on
01	Sound Calibrator	Lutron	SL-4010	Q662278	MSME	10 Dec 2023

Calibration Performed By :
Calibration Engineer



Authorized By :
Laboratory Manager



[END]



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

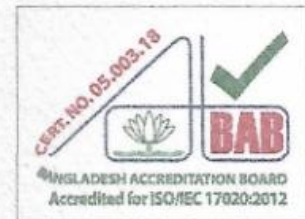
Inspection Body(Type-A)


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.