

Air Emission Inventory

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

Inspection Ref. No.: **A/E 10322**

Contact Us

Corporate Head Office:

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Confidence Center, Kha-09
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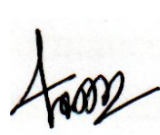

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Chattogram Office:

House 64, Road 4, Block B,
Chandgaon, Chattogram



General Information		
Invoice Reference No: GB/2024/08/80		Inspection Date: 01.01.2025
Inspection Reference No: A/E 10322		Inspection Duration: 11am-5pm
Report Generation Date:	02.01.2025	Inspection location: Exhaust outlet
Report Submission Date:	03.01.2025	Inspection Description: Point, Mobile and Fugitive source emission
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:
		
Basil Kubi <i>Executive (Operation)</i> <i>B.Sc. in Environmental Science</i>		Imran Hossen <i>Sr. Executive (Operation)</i> <i>B.Sc. in Civil Engineering</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:

An Air emissions inventory is a database that lists, by source, the number of air pollutants discharged into the atmosphere during a year or other period. Air Emissions inventories are an essential input to mathematical models that estimate air quality. Six common air pollutants (criteria pollutants) are commonly found in the air anywhere. These main pollutants should be included in the air emission inventory: TSP (PM₁₀ and PM_{2.5}), NO_x (the sum of NO and NO₂), SO₂, and CO. Other pollutants such as VOC and CO₂ will be considered based on the characteristic of the study area and the aim of Air Emission Inventory.

This Air Inventory provides the quantity of Annual Air Emission of pollutants in the air caused by **ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited** from its facility operation & production process. This inventory is prepared as per the request of factory management to fulfill the requirements of the Higg Index.

Method of Analysis (For Point Source):

The following methods were used to analyze the stack emission parameters:

Parameters	Methods
SO ₂ (Sulfur Dioxide)	Electrochemical
CO (Carbon Monoxide)	Electrochemical
CO ₂ (Carbon Dioxide)	Electrochemical
O ₂ (Oxygen)	Electrochemical
NO _x (Oxides of Nitrogen)	Calculated
SPM (Suspended Particular Matter)	Gravimetric
Flue Temperature	Thermocouple
Flue Pressure	Pressure Sensor

Measurement Uncertainties:

The following measurement uncertainties were assigned to the respected parameters:

Gases	±2%
Temperature	±2°C
Pressure	0.05%

Standard Permissible limit:

Relevant Standard Permissible limit for Generator air emission is shown below:

Reference of Relevant Standard			Standards for Stack Emission from Industries or Projects (Generator)		
			SPM (mg/Nm ³)	NO _x	SO ₂
Air Pollution Control Rules-2022 ¹	Diesel	New (Running after 2020)	50	200	200
		Existing (Running before 2020)	80	400	400
	Natural Gas	New (Running after 2020)	-	200	-
		Existing (Running before 2020)	-	400	-
	LPG, LNG etc.	-	50	200	400
	IFC/World Bank1F ² (mg/Nm ³)	Gas	NYS	200 (spark ignition) 400 (Dual Fuel) 1600 (Compressed ignition)	NYS
Liquid		NYS	1460	NYS	
Solid		NYS	NYS	NYS	

[NYS= Not Yet Set]

Relevant Standard Permissible limit for Boiler air emission is shown below:

Reference of Relevant Standard		Boiler of Industrial unit (Parameter Standard)		
		SPM (mg/Nm ³)	NO _x (mg/Nm ³)	SO ₂ (mg/Nm ³)
DoE (Air Pollution Control) ³ (mg/Nm ³)	Gas	-	150	250
	Oil	200	300	
	Coal	250	400	
	Husk	250	400	
IFC/World Bank ⁴ (mg/Nm ³)	Gas	N/A	320	NYS
	Liquid	150	460	2000
	Solid	150	650	2000

[NYS= Not Yet Set; N/A= Not Applicable]

STeP-OEKO TEX STANDARD PERMISSIBLE LIMIT			
For Gas/ Diesel Generator >0.3MW			
Parameter	Minimum	Advanced	Excellent
(Carbon Monoxide) CO: (mg/Nm ³)			
Gaseous Fuel	500	250	150
Diesel Fuel	500	250	150
(Nitrogen oxides) NO _x : (mg/Nm ³)			
Gaseous Fuel	500	300	100
Diesel Fuel	1000	500	200
(Sulphur Dioxide) SO ₂ : (mg/Nm ³)			
Gaseous Fuel	200	100	30
Diesel Fuel	900	400	60

¹ Air Pollution Control Rules (2022), Schedule-05, Department of Environment, Govt. of Bangladesh

² IFC (2007), Environmental, Health and Safety Guidelines: Environmental Air Emissions and Ambient Air Quality, IFC/World Bank Group

³ Air Pollution Control Rules (2022), Schedule-05, Department of Environment, Govt. of Bangladesh

⁴ IFC (2007), Environmental, Health and Safety Guidelines: Environmental Air Emissions and Ambient Air Quality, IFC/World Bank Group

Facility Operations - Equipment/Combustion. Parameters and Limit values for facilities - WHO and Globally Regulated Pollutants⁵:

ZDHC Air Emission Guidelines							
Sl. No.	Parameter	Source	Fuel Type	Foundational	Progressive	Aspirational	Concentrations Unit
1	Facility Combustion	NO _x	Solid	650	300	200	mg/Nm ³
2			Liquid	460	250	85	mg/Nm ³
3			Gas	400	150	40	mg/Nm ³
4		CO	Solid	800	500	100	mg/Nm ³
5			Liquid	650	400	100	mg/Nm ³
6			Gas	500	300	100	mg/Nm ³
7		SO _x	Solid	750	650	300	mg/Nm ³
8			Liquid	600	450	300	mg/Nm ³
9			Gas	400	300	100	mg/Nm ³
10		PM	Solid	500	300	100	mg/Nm ³
11			Liquid	300	100	50	mg/Nm ³
12			Gas	100	50	20	mg/Nm ³

⁵ ZDHC Air Emissions Position Paper (Version 1.0) _January 2021

Method of Analysis (For Non-Point Source):

The following methods were used to analyze the stack emission parameters:

Parameters	Methods
SO ₂ (Sulfur Dioxide)	Electrochemical
CO (Carbon Monoxide)	Electrochemical
CO ₂ (Carbon Dioxide)	Electrochemical
O ₂ (Oxygen)	Electrochemical
NO _x (Oxides of Nitrogen)	Calculated
SPM (Suspended Particular Matter)	Gravimetric
Flue Temperature	Thermocouple
Flue Pressure	Pressure Sensor

Measurement Uncertainties:

The following measurement uncertainties were assigned to the respected parameters:

Gases	±2%
Temperature	±2 ⁰ C
Pressure	0.05%

Scopes & Boundaries:

SL. No.	Type of Emission	Emission Sources
01	Exhaust Outlet (Stack Emission)	❖ Generator (12 Nos.) ❖ Boiler (8 Nos.)
02	Inside the Factory Building or Production Process (Dust Emission)	❖ All Production Floor
03	Inside the Factory Building or Production Process (Gaseous Emission)	❖ All Production Floor
04	Inside the Factory Building or Production Process (ODS Emission)	❖ 268 (Nos)

Annual Air Emission from Production process (Non-point or Fugitive Emission Source):

Gaseous Pollutant Emission (ACS Textiles Bangladesh Ltd.):

Air Emissions Inventory																	
ACS Textiles (Bangladesh) Ltd.																	
Basic Information				Concentration of Pollutants Emitted (Kg/Yr)										Standards and Testing			
Sl No	Building No	Floor	Emission Source	VOC (Kg/Yr)	CH ₂ O (Kg/Yr)	CO (Kg/Yr)	CO ₂ (Kg/Yr)	NO ₂ (Kg/Yr)	SO ₂ (Kg/Yr)	O ₃ (Kg/Yr)	NH ₃ (Kg/Yr)	H ₂ S (Kg/Yr)	Run Time	Determined By	Control Devices In Place	Applicable Regulations	Testing Required
1	Building No-01	Ground Floor	Embroidery Section	0	0	0	861.1	0	0	0	0	0	3120	Estimated	N/A	1. DoE (APCR-2022) 2. IFC/World Bank 3. ZDHC Air Emissions Guidelines	Annually
2			Accessories Store	0	0	0	798.4	0	0	0	0	0	3120	Estimated	N/A		Annually
3		1st Floor	Finished Goods Store	0	0	0	2073.9	0	0	0	0	0	3120	Estimated	N/A		Annually
4			Wastage Store	0	0	0	1012.7	0	0	0	0	0	3120	Estimated	N/A		Annually
5			prayer Room	0	0	0	2029.4	0	0	0	0	0	3120	Estimated	N/A		Annually
6	Building no-02	Ground Floor	Sizing & Weaving	0	0	0	2559.4	0	0	0	0	0	8352	Estimated	N/A		Annually
7		1st Floor	Cutting Section	0	0	0	984.4	0	0	0	0	0	3120	Estimated	N/A		Annually
8			Feeding Section	0	0	0	1726.2	0	0	0	0	0	3120	Estimated	N/A		Annually
9			Stitching Section	0	0	0	861.1	0	0	0	0	0	3120	Estimated	N/A		Annually
10			Fabrics Inspection	0	0	0	869.2	0	0	0	0	0	3120	Estimated	N/A		Annually
11			Fabrics Folding	0	0	0	3369.2	0	0	0	0	0	5568	Estimated	N/A		Annually
12			Packing Section	0	0	0	1863.6	0	0	0	0	0	3120	Estimated	N/A		Annually
13			Metal Free Zone	0	0	0	2552.9	0	0	0	0	0	3120	Estimated	N/A		Annually
14	Building No-03	Ground Floor	Medical Center	0	0	0	1014.7	0	0	0	0	0	3120	Estimated	N/A		Annually
15		1st Floor	Child Care	0	0	0	1621.1	0	0	0	0	0	3120	Estimated	N/A		Annually
16			Fire Control Room	0	0	0	2559.0	0	0	0	0	0	3120	Estimated	N/A		Annually
17	Building No-04	Ground Floor	Warping Section-01	0	0	0	2169.8	0	0	0	0	0	8352	Estimated	N/A		Annually
18			Warping Section-02	0	0	0	12336.8	0	0	0	0	0	8352	Estimated	N/A		Annually
19			Twisting & Doubling	0	0	0	1693.9	0	0	0	0	0	3120	Estimated	N/A		Annually
20		1st Floor	Finishing Folding Section	0	0	0	1727.9	0	0	0	0	0	5568.0	Estimated	N/A		Annually
21	Building-05	Ground Floor	Sub-Station	0	0	0	1701.9	0	0	0	0	0	3120	Estimated	N/A		Annually
22		1st Floor	Office Room	0	0	0	814.6	0	0	0	0	0	3120	Estimated	N/A		Annually
23			Technical Room	0	0	0	1722.2	0	0	0	0	0	3120	Estimated	N/A		Annually

Air Emissions Inventory																	
ACS Textiles (Bangladesh) Ltd.																	
Basic Information				Concentration of Pollutants Emitted (Kg/Yr)										Standards and Testing			
Sl No	Building No	Floor	Emission Source	VOC (Kg/Yr)	CH ₂ O (Kg/Yr)	CO (Kg/Yr)	CO ₂ (Kg/Yr)	NO ₂ (Kg/Yr)	SO ₂ (Kg/Yr)	O ₃ (Kg/Yr)	NH ₃ (Kg/Yr)	H ₂ S(Kg/Yr)	Run Time	Determined By	Control Devices In Place	Applicable Regulations	Testing Required
24	Building-06	Ground Floor	Bleaching	0.1	0.1	0	830.8	0	0	0	0	0	3120	Estimated	N/A	1. DoE (APCR-2022) 2. IFC/World Bank 3. ZDHC Air Emissions Guidelines	Annually
25			Dyeing	0.3	0.0	0	4923.9	0	0	0	0	0	8352	Estimated	N/A		Annually
26			Mercerizing	0.02	0.01	0	832.8	0	0	0	0	0	3120	Estimated	N/A		Annually
27			Dyeing Finishing	1.8	0.2	0	5097.1	0	0	0	0	0	8352	Estimated	N/A		Annually
28			Chemical Sub Store	0.7	0.1	0	2552.9	0	0	0	0	0	3120	Estimated	N/A		Annually
29			Printing Section	0.2	0.0	0	2759.6	0	0	0	0	0	8352	Estimated	N/A		Annually
30			ETP	0.1	0.0	0	851.0	0	0	0	0	0.2	3120	Estimated	N/A		Annually
31	Building-07	Ground Floor	Chemical Store	0.011	0.001	0	851.0	0	0	0	0	0	3120	Estimated	N/A		Annually
32			Work-Shop	0	0	0	1750.5	0	0	0	0	0	3120	Estimated	N/A		Annually
33		1st Floor	General Store	0	0	0	2546.9	0	0	0	0	0	3120	Estimated	N/A		Annually
34			Officer's Dining	0	0	0	1928.3	0	0	0	0	0	3120	Estimated	N/A		Annually
35	Building-10	2nd Floor	Worker's Canteen	0	0	0	1952.6	0	0	0	0	0	3120	Estimated	N/A		Annually
36		Ground Floor	Washing Area	0	0	0	4923.9	0	0	0	0	0	8352	Estimated	N/A		Annually
37			Dryer Machine	0	0	0	820.7	0	0	0	0	0	3120	Estimated	N/A		Annually
38	Building-11	Ground Floor	Chemical Store	0.2	0.03	0	2425.6	0	0	0	0	0	3120	Estimated	N/A		Annually
39			Quilting Machine	0	0	0	2383.1	0	0	0	0	0	3120	Estimated	N/A		Annually
40		1st Floor	Fabric Store	0	0	0	810.5	0	0	0	0	0	3120	Estimated	N/A		Annually
41	Building-12	2nd Floor	Mending	0	0	0	1410.4	0	0	0	0	0	5568	Estimated	N/A		Annually
42		Ground Floor	Weaving Section	0	0	0	4447.8	0	0	0	0	0	8352	Estimated	N/A		Annually
43			Sizing Section	0	0	0	6444.4	0	0	0	0	0	8352	Estimated	N/A		Annually
44			Warping Section-02	0	0	0	2153.5	0	0	0	0	0	8352	Estimated	N/A		Annually
45			Stenter Machine	0	0	0	828.7	0	0	0	0	0	3120	Estimated	N/A		Annually
46			Rasing Section	0	0	0	1592.8	0	0	0	0	0	3120	Estimated	N/A		Annually
47		1st Floor	Quilting Section	0	0	0	905.5	0	0	0	0	0	3120	Estimated	N/A		Annually
48			Cutting Section	0	0	0	1867.7	0	0	0	0	0	3120	Estimated	N/A		Annually
49			Feeding Section	0	0	0	816.6	0	0	0	0	0	3120	Estimated	N/A		Annually
50			Stitching Section	0	0	0	832.8	0	0	0	0	0	3120	Estimated	N/A		Annually
51			Fabrics Inspection	0	0	0	1936.4	0	0	0	0	0	3120	Estimated	N/A		Annually

Air Emissions Inventory																	
ACS Textiles (Bangladesh) Ltd.																	
Basic Information				Concentration of Pollutants Emitted (Kg/Yr)										Standards and Testing			
Sl No	Building No	Floor	Emission Source	VOC (Kg/Yr)	CH ₂ O (Kg/Yr)	CO (Kg/Yr)	CO ₂ (Kg/Yr)	NO ₂ (Kg/Yr)	SO ₂ (Kg/Yr)	O ₃ (Kg/Yr)	NH ₃ (Kg/Yr)	H ₂ S(Kg/Yr)	Run Time	Determined By	Control Devices In Place	Applicable Regulations	Testing Required
52	Building-12	1st Floor	Fabrics Folding Section	0	0	0	1533.1	0	0	0	0	0	5568	Estimated	N/A	1. DoE (APCR-2022) 2. IFC/World Bank 3. ZDHC Air Emissions Guidelines	Annually
53			Packing Section	0	0	0	875.2	0	0	0	0	0	3120	Estimated	N/A		Annually
54			Metal Free Zone	0	0	0	1677.7	0	0	0	0	0	3120	Estimated	N/A		Annually
55			Finished Goods Store	0	0	0	1560.5	0	0	0	0	0	3120	Estimated	N/A		Annually
56	Building-13	Ground Floor	Office Area	0	0	0	2358.9	0	0	0	0	0	3120	Estimated	N/A		Annually
57	Building-14	Ground Floor	Digital Printing	0	0	0	2088.6	0	0	0	0	0	8352	Estimated	N/A		Annually
58		1st Floor	Tufting	0	0	0	1742.4	0	0	0	0	0	3120	Estimated	N/A		Annually
59		2nd Floor	Tufting	0	0	0	2389.2	0	0	0	0	0	3120	Estimated	N/A		Annually
60	Building-15	Ground Floor	Admin & Compliance	0	0	0	871.2	0	0	0	0	0	3120	Estimated	N/A		Annually
61			Accounts & Finance	0	0	0	4022.4	0	0	0	0	0	3120	Estimated	N/A		Annually
62			Commercial	0	0	0	1600.9	0	0	0	0	0	3120	Estimated	N/A		Annually
63		1st Floor	Show Room	0	0	0	820.7	0	0	0	0	0	3120	Estimated	N/A		Annually
64			Display Center	0	0	0	1600.9	0	0	0	0	0	3120	Estimated	N/A		Annually
65			Marketing	0	0	0	778.2	0	0	0	0	0	3120	Estimated	N/A		Annually
66			Commercial	0	0	0	1778.8	0	0	0	0	0	3120	Estimated	N/A		Annually
67		2nd Floor	Sample Room	0	0	0	1008.6	0	0	0	0	0	3120	Estimated	N/A		Annually
68			IT Room	0	0	0	1750.5	0	0	0	0	0	3120	Estimated	N/A	Annually	
Total Gaseous Pollutant Emission in Kg per Year				3.4	0.5	0	138858.3	0.0	0.0	0.0	0.0	0.2					

Gaseous Pollutant Emission (ACS Towel Limited):

Air Emissions Inventory																	
ACS Towel Limited																	
Basic Information				Concentration of Pollutants Emitted (Kg/Yr)										Standards and Testing			
SI No	Building No	Floor	Emission Source	VOC (Kg/Yr)	CH ₂ O (Kg/Yr)	CO (Kg/Yr)	CO ₂ (Kg/Yr)	NO ₂ (Kg/Yr)	SO ₂ (Kg/Yr)	O ₃ (Kg/Yr)	NH ₃ (Kg/Yr)	H ₂ S(Kg/Yr)	Run Time	Determined By	Control Devices In Place	Applicable Regulations	Testing Required
1	Building-1	Basement	Yarn Store	0	0	0	1685.8	0	0	0	0	0	3120	Estimated	N/A	1. DoE (APCR-2022) 2. IFC/World Bank 3. ZDHC Air Emissions Guidelines	Annually
2		Ground Floor	Warping Section	0	0	0	2110.2	0	0	0	0	0	8352	Estimated	N/A		Annually
3			Sizing Section	0	0	0	2088.6	0	0	0	0	0	8352	Estimated	N/A		Annually
4			Weaving Section	0	0	0	4447.8	0	0	0	0	0	8352	Estimated	N/A		Annually
5			Dyeing & Finishing	0.2	0.02	0	2397.0	0	0	0	0	0	8352	Estimated	N/A		Annually
6			Lab Room	0.2	0.03	0	810.5	0	0	0	0	0	3120	Estimated	N/A		Annually
7			Flatbed Printing Section	0	0	0	4534.3	0	0	0	0	0	8352	Estimated	N/A		Annually
8		1st Floor	Cutting Section	0	0	0	830.8	0	0	0	0	0	3120	Estimated	N/A		Annually
9			Stitching Section	0	0	0	802.5	0	0	0	0	0	3120	Estimated	N/A		Annually
10			Inspection Room	0	0	0	2009.2	0	0	0	0	0	3120	Estimated	N/A		Annually
11			Folding Section	0	0	0	1684.6	0	0	0	0	0	5568	Estimated	N/A		Annually
12			Packing Section	0	0	0	810.5	0	0	0	0	0	3120	Estimated	N/A		Annually
13	Building-2	Ground Floor	Medical Center	0	0	0	1839.4	0	0	0	0	0	3120	Estimated	N/A		Annually
14		1st Floor	Child Care	0	0	0	911.6	0	0	0	0	0	3120	Estimated	N/A		Annually
15	Fire Control Room		0	0	0	1568.5	0	0	0	0	0	3120	Estimated	N/A	Annually		
16	Building-3	Ground Floor	Chemical Store	0.7	0.1	0	1976.8	0	0	0	0	0	3120	Estimated	N/A		Annually
17			Work Shop	0	0	0	832.8	0	0	0	0	0	3120	Estimated	N/A		Annually
18		1st Floor	General Store	0	0	0	810.5	0	0	0	0	0	3120	Estimated	N/A		Annually
19			Officer's Dining	0	0	0	1920.2	0	0	0	0	0	3120	Estimated	N/A		Annually
20	2nd Floor	Worker's Dining	0	0	0	921.7	0	0	0	0	0	3120	Estimated	N/A	Annually		
21	Building-4	Ground Floor	Compressor	0	0	0	780.2	0	0	0	0	0	3120	Estimated	N/A		Annually
22			Generator Room	0	0	0	1621.1	0	0	0	0	0	3120	Estimated	N/A		Annually
23			Boiler Room	0	0	0	1758.5	0	0	0	0	0	3120	Estimated	N/A		Annually
24			Technical Director Office	0	0	0	1661.5	0	0	0	0	0	3120	Estimated	N/A		Annually
25	Building-5	Ground Floor	Chemical Store	0.2	0.1	0	806.5	0	0	0	0	0	3120	Estimated	N/A		Annually
26			Quilting Machine Room	0	0	0	810.5	0	0	0	0	0	3120	Estimated	N/A		Annually
27		1st Floor	Fabric Store	0	0	0	1706.0	0	0	0	0	0	3120	Estimated	N/A		Annually
28		2nd Floor	Mending Area	0	0	0	1536.7	0	0	0	0	0	5568	Estimated	N/A		Annually

Air Emissions Inventory																	
ACS Towel Limited																	
Basic Information				Concentration of Pollutants Emitted (Kg/Yr)										Standards and Testing			
Sl No	Building No	Floor	Emission Source	VOC (Kg/Yr)	CH ₂ O (Kg/Yr)	CO (Kg/Yr)	CO ₂ (Kg/Yr)	NO ₂ (Kg/Yr)	SO ₂ (Kg/Yr)	O ₃ (Kg/Yr)	NH ₃ (Kg/Yr)	H ₂ S(Kg/Yr)	Run Time	Determined By	Control Devices In Place	Applicable Regulations	Testing Required
29	Building-6	Ground Floor	ETP	0.1	0.03	0	873.2	0	0	0	0	0	3120	Estimated	N/A	1. DoE (APCR-2022) 2. IFC World Bank 3. ZDHC Air Emissions Guidelines	Annually
30	Building-7	Ground Floor	Security Post	0	0	0	1718.1	0	0	0	0	0	3120	Estimated	N/A		Annually
31	Building-8	Ground Floor	Electrical Sub-Station	0	0	0	806.5	0	0	0	0	0	3120	Estimated	N/A		Annually
32	Shed-01		Wastage Area	0	0	0	859.1	0	0	0	0	0	3120	Estimated	N/A		Annually
33	Shed-02		Wastage Area	0	0	0	1661.5	0	0	0	0	0	3120	Estimated	N/A		Annually
Total Gaseous Pollutant Emission in Kg per Year				1.4	0.2	0	51593.0	0	0	0	0	0					

Dust Emission (ACS Textiles Bangladesh Ltd.):

Air Emission Inventory											
ACS Textiles (Bangladesh) Ltd.											
Basic Information				Concentration of Pollutants Emitted (Kg/Yr)			Standards and Testing				
Sl No	Building No	Floor	Emission Source	PM 2.5 (Kg/Yr)	PM 10 (Kg/Yr)	Run Time	Determined By	Control Devices In Place	Applicable Regulations	Testing Required	
1	Building No-01	Ground Floor	Embroidery Section	0.03	0.04	3120	Estimated	N/A	1. DoE (APCR-2022) 2. IFC/World Bank 3. ZDHC Air Emissions Guidelines	Annually	
2			Accessories Store	0.04	0.05	3120	Estimated	N/A		Annually	
3		1st Floor	Finished Goods Store	0.07	0.08	3120	Estimated	N/A		Annually	
4			2nd Floor	Wastage Store	0.04	0.06	3120	Estimated		N/A	Annually
5				prayer Room	0.09	0.11	3120	Estimated		N/A	Annually
6	Building no-02	Ground Floor	Sizing & Weaving	0.08	0.10	8352	Estimated	N/A		Annually	
7		1st Floor	Cutting Section	0.06	0.08	3120	Estimated	N/A		Annually	
8			Feeding Section	0.08	0.15	3120	Estimated	N/A		Annually	
9			Stitching Section	0.05	0.07	3120	Estimated	N/A		Annually	
10			Fabrics Inspection	0.04	0.06	3120	Estimated	N/A		Annually	
11			Fabrics Folding	0.14	0.19	5568	Estimated	N/A		Annually	
12			Packing Section	0.09	0.10	3120	Estimated	N/A		Annually	
13			Metal Free Zone	0.19	0.24	3120	Estimated	N/A		Annually	
14	Building No-03	Ground Floor	Medical Center	0.04	0.06	3120	Estimated	N/A		Annually	
15		1st Floor	Child Care	0.11	0.13	3120	Estimated	N/A		Annually	
16			Fire Control Room	0.11	0.16	3120	Estimated	N/A		Annually	
17	Building No-04	Ground Floor	Warping Section-01	0.10	0.12	8352	Estimated	N/A		Annually	
18			Warping Section-02	0.54	0.71	8352	Estimated	N/A		Annually	
19			Twisting & Doubling	0.07	0.09	3120	Estimated	N/A		Annually	
20		1st Floor	Finishing Folding Section	0.10	0.14	5568	Estimated	N/A		Annually	
21	Building-05	Ground Floor	Sub-Station	0.08	0.10	3120	Estimated	N/A		Annually	
22		1st Floor	Office Room	0.04	0.05	3120	Estimated	N/A		Annually	
23			Technical Room	0.07	0.10	3120	Estimated	N/A		Annually	
24	Building-06	Ground Floor	Bleaching	0.04	0.05	3120	Estimated	N/A		Annually	
25			Dyeing	0.19	0.26	8352	Estimated	N/A		Annually	
26			Mercerizing	0.04	0.06	3120	Estimated	N/A		Annually	
27			Dyeing Finishing	0.23	0.34	8352	Estimated	N/A		Annually	
28			Chemical Sub Store	0.11	0.15	3120	Estimated	N/A		Annually	

Air Emission Inventory										
ACS Textiles (Bangladesh) Ltd.										
Basic Information				Concentration of Pollutants Emitted (Kg/Yr)			Standards and Testing			
Sl No	Building No	Floor	Emission Source	PM _{2.5} (Kg/Yr)	PM ₁₀ (Kg/Yr)	Run Time	Determined By	Control Devices In Place	Applicable Regulations	Testing Required
29	Building-06	Ground Floor	Printing Section	0.08	0.12	8352	Estimated	N/A	1. DoE (APCR-2022) 2. IFC/World Bank 3. ZDHC Air Emissions Guidelines	Annually
30			ETP	0.03	0.05	3120	Estimated	N/A		Annually
31	Building-07	Ground Floor	Chemical Store	0.03	0.05	3120	Estimated	N/A		Annually
32			Work-Shop	0.08	0.11	3120	Estimated	N/A		Annually
33		1st Floor	General Store	0.10	0.14	3120	Estimated	N/A		Annually
34			Officer's Dining	0.08	0.10	3120	Estimated	N/A		Annually
35		2nd Floor	Worker's Canteen	0.07	0.10	3120	Estimated	N/A		Annually
36	Building-10	Ground Floor	Washing Area	0.16	0.22	8352	Estimated	N/A		Annually
37			Dryer Machine	0.02	0.03	3120	Estimated	N/A		Annually
38	Building-11	Ground Floor	Chemical Store	0.13	0.16	3120	Estimated	N/A		Annually
39			Quilting Machine	0.11	0.14	3120	Estimated	N/A		Annually
40		1st Floor	Fabric Store	0.04	0.05	3120	Estimated	N/A		Annually
41		2nd Floor	Mending	0.05	0.07	5568	Estimated	N/A		Annually
42	Building-12	Ground Floor	Weaving Section	0.16	0.21	8352	Estimated	N/A		Annually
43			Sizing Section	0.29	0.36	8352	Estimated	N/A		Annually
44			Warping Section-02	0.11	0.15	8352	Estimated	N/A		Annually
45			Stenter Machine	0.06	0.07	3120	Estimated	N/A		Annually
46			Rasing Section	0.09	0.11	3120	Estimated	N/A		Annually
47		1st Floor	Quilting Section	0.04	0.05	3120	Estimated	N/A		Annually
48			Cutting Section	0.08	0.11	3120	Estimated	N/A		Annually
49			Feeding Section	0.04	0.05	3120	Estimated	N/A		Annually
50			Stitching Section	0.02	0.03	3120	Estimated	N/A		Annually
51			Fabrics Inspection	0.06	0.07	3120	Estimated	N/A		Annually
52			Fabrics Folding Section	0.04	0.05	5568	Estimated	N/A		Annually
53			Packing Section	0.03	0.03	3120	Estimated	N/A		Annually
54			Metal Free Zone	0.06	0.07	3120	Estimated	N/A		Annually
55			Finished Goods Store	0.08	0.11	3120	Estimated	N/A		Annually
56	Building-13	Ground Floor	Office Area	0.13	0.18	3120	Estimated	N/A		Annually
57	Building-14	Ground Floor	Digital Printing	0.11	0.14	8352	Estimated	N/A		Annually
58		1st Floor	Tufting	0.07	0.11	3120	Estimated	N/A		Annually

Air Emission Inventory										
ACS Textiles (Bangladesh) Ltd.										
Basic Information				Concentration of Pollutants Emitted (Kg/Yr)			Standards and Testing			
Sl No	Building No	Floor	Emission Source	PM 2.5 (Kg/Yr)	PM 10 (Kg/Yr)	Run Time	Determined By	Control Devices In Place	Applicable Regulations	Testing Required
59	Building-14	2nd Floor	Tufting	0.11	0.14	3120	Estimated	N/A	1. DoE (APCR-2022) 2. IFC/World Bank 3. ZDHC Air Emissions Guidelines	Annually
60	Building-15	Ground Floor	Admin & Compliance	0.04	0.05	3120	Estimated	N/A		Annually
61			Accounts & Finance	0.29	0.39	3120	Estimated	N/A		Annually
62			Commercial	0.08	0.10	3120	Estimated	N/A		Annually
63			1st Floor	Show Room	0.05	0.06	3120	Estimated		N/A
64		Display Center		0.09	0.11	3120	Estimated	N/A		Annually
65		Marketing		0.04	0.06	3120	Estimated	N/A		Annually
66		Commercial		0.05	0.07	3120	Estimated	N/A		Annually
67		2nd Floor	Sample Room	0.04	0.05	3120	Estimated	N/A		Annually
68			IT Room	0.11	0.16	3120	Estimated	N/A		Annually
Total Emission of Particulate Matter in Kg per Year				6.24	8.24					

Dust Emission (ACS Towel Limited):

Air Emission Inventory										
ACS Towel Limited										
Basic Information				Concentration of Pollutants Emitted (Kg/Yr)			Standards and Testing			
Sl No	Building No	Floor	Emission Source	PM _{2.5} (Kg/Yr)	PM ₁₀ (Kg/Yr)	Run Time	Determined By	Control Devices In Place	Applicable Regulations	Testing Required
1	Building-1	Basement	Yarn Store	0.09	0.13	3120	Estimated	N/A	1. DoE (APCR-2022) 2. IFC/World Bank 3. ZDHC Air Emissions Guidelines	Annually
2		Ground Floor	Warping Section	0.11	0.17	8352	Estimated	N/A		Annually
3			Sizing Section	0.11	0.15	8352	Estimated	N/A		Annually
4			Weaving Section	0.28	0.40	8352	Estimated	N/A		Annually
5			Dyeing & Finishing	0.14	0.19	8352	Estimated	N/A		Annually
6			Lab Room	0.04	0.05	3120	Estimated	N/A		Annually
7			Flatbed Printing Section	0.22	0.29	8352	Estimated	N/A		Annually
8		1st Floor	Cutting Section	0.05	0.06	3120	Estimated	N/A		Annually
9			Stitching Section	0.03	0.06	3120	Estimated	N/A		Annually
10			Inspection Room	0.07	0.09	3120	Estimated	N/A		Annually
11			Folding Section	0.06	0.10	5568	Estimated	N/A		Annually
12			Packing Section	0.03	0.04	3120	Estimated	N/A		Annually
13	Building-2	Ground Floor	Medical Center	0.09	0.13	3120	Estimated	N/A		Annually
14		1st Floor	Child Care	0.05	0.06	3120	Estimated	N/A		Annually
15			Fire Control Room	0.10	0.13	3120	Estimated	N/A		Annually
16	Building-3	Ground Floor	Chemical Store	0.11	0.16	3120	Estimated	N/A		Annually
17			Work Shop	0.04	0.05	3120	Estimated	N/A		Annually
18		1st Floor	General Store	0.05	0.07	3120	Estimated	N/A		Annually
19			Officer's Dining	0.12	0.15	3120	Estimated	N/A		Annually
20		2nd Floor	Worker's Dining	0.06	0.08	3120	Estimated	N/A		Annually
21	Building-4	Ground Floor	Compressor	0.06	0.07	3120	Estimated	N/A		Annually
22			Generator Room	0.13	0.18	3120	Estimated	N/A		Annually
23			Boiler Room	0.11	0.14	3120	Estimated	N/A		Annually
24			Technical Director Office	0.08	0.11	3120	Estimated	N/A		Annually
25	Building-5	Ground Floor	Chemical Store	0.06	0.08	3120	Estimated	N/A		Annually
26			Quilting Machine Room	0.06	0.07	3120	Estimated	N/A		Annually
27		1st Floor	Fabric Store	0.10	0.13	3120	Estimated	N/A		Annually
28		2nd Floor	Mending Area	0.09	0.14	5568	Estimated	N/A		Annually

Air Emission Inventory										
ACS Towel Limited										
Basic Information				Concentration of Pollutants Emitted (Kg/Yr)			Standards and Testing			
Sl No	Building No	Floor	Emission Source	PM 2.5 (Kg/Yr)	PM 10 (Kg/Yr)	Run Time	Determined By	Control Devices In Place	Applicable Regulations	Testing Required
29	Building-6	Ground Floor	ETP	0.06	0.08	3120	Estimated	N/A	1. DoE (APCR-2022) 2. IFC/World Bank 3. ZDHC Air Emissions Guidelines	Annually
30	Building-7	Ground Floor	Security Post	0.11	0.15	3120	Estimated	N/A		Annually
31	Building-8	Ground Floor	Electrical Sub-Station	0.05	0.06	3120	Estimated	N/A		Annually
32	Shed-01		Wastage Area	0.05	0.07	3120	Estimated	N/A		Annually
33	Shed-02		Wastage Area	0.12	0.17	3120	Estimated	N/A		Annually
Total Emission of Particulate Matter in Kg per Year				2.90	4.01					

Stack Air Emission from Exhaust Outlet:

Basic Information			Testing Information					Standards and Recommendation				
ID Number	Emission Source		Parameter	Emission Amount mg/Nm3	Emission Level	Total Concentration (Ton/Year)	Emission Flow Rate	Yearly Run time (Hours)	Determined by	Control Devices In Place	Applicable Regulations	Testing Required
Generator-1	Brand Name:	Waukesha	SPM	18.6	Aspirational	There will be no emission as all the generators are connected through EGB Boilers	5.4	4405	Calculated	N/A	1. DoE (APCR-2022) 2. IFC/World Bank 3. STeP BY OEKO-TEX 4. ZDHC Air Emissions Guidelines	Annually
	Model No.:	VHP5904GSID	NO _x	188.6	Aspirational							
	Made By:	USA	SO ₂	0	Aspirational							
	Fuel:	Natural Gas	CO	228	N/A							
	Capacity:	900 KW	CO ₂	5.2	N/A							
Generator- 2	Brand Name:	Waukesha	SPM	19.1	Aspirational		4.3	7961	Calculated	N/A		Annually
	Model No.:	VHP5904GSID to Conversion LTDE	NO _x	184.8	Aspirational							
	Made By:	USA	SO ₂	0	Aspirational							
	Fuel:	Natural Gas	CO	231	N/A							
	Capacity:	900 KW	CO ₂	5.3	N/A							
Generator- 3	Brand Name:	Waukesha	SPM	20.3	Aspirational		5.3	8257	Calculated	N/A		Annually
	Model No.:	VHP5904GSID	NO _x	182	Aspirational							
	Made By:	USA	SO ₂	0	Aspirational							
	Fuel:	Natural Gas	CO	228	N/A							
	Capacity:	900 KW	CO ₂	5.5	N/A							
Generator- 4	Brand Name:	MTU	SPM	19.2	Aspirational		5.1	8405	Calculated	N/A		Annually
	Model No.:	20V4000L32	NO _x	193.9	Aspirational							
	Made By:	Germany	SO ₂	0	Aspirational							
	Fuel:	Natural Gas	CO	225.6	N/A							
	Capacity:	1948 KW	CO ₂	6.2	N/A							
Generator-5	Brand Name:	MTU	SPM	18.9	Aspirational		5.2	6469	Calculated	N/A		Annually
	Model No.:	20V4000L32	NO _x	175.2	Aspirational							
	Made By:	Germany	SO ₂	0	Aspirational							
	Fuel:	Natural Gas	CO	226.4	N/A							
	Capacity:	1948 KW	CO ₂	5.4	N/A							
Generator-6	Brand Name:	Jenbacher	SPM	18.2	Aspirational		5.3	5163	Calculated	N/A		Annually
	Model No.:	JGS 320GS-NL	NO _x	193.9	Aspirational							
	Made By:	Austria	SO ₂	0	Aspirational							
	Fuel:	Natural Gas	CO	233	N/A							
	Capacity:	1064 KW	CO ₂	6.2	N/A							

Basic Information			Testing Information					Standards and Recommendation				
ID Number	Emission Source		Parameter	Emission Amount mg/Nm3	Emission Level	Total Concentration (Ton/Year)	Emission Flow Rate	Yearly Run time (Hours)	Determined by	Control Devices In Place	Applicable Regulations	Testing Required
Generator-7	Brand Name:	Jenbacher	SPM	19.8	Aspirational	There will be no emission as all the generators are connected through EGB Boilers	5.2	5163	Calculated	N/A	1. DoE (APCR-2022) 2. IFC/World Bank 3. STeP BY OEKO-TEX 4. ZDHC Air Emissions Guidelines	Annually
	Model No.:	JGS 320GS-NL	NO _x	187.7	Aspirational							
	Made By:	Austria	SO ₂	0	Aspirational							
	Fuel:	Natural Gas	CO	232	N/A							
	Capacity:	1064 KW	CO ₂	6.2	N/A							
Generator-8	Brand Name:	Waukesha	SPM	18.9	Aspirational		5.1	2257	Calculated	N/A		Annually
	Model No.:	VHP5904GSID	NO _x	163.8	Aspirational							
	Made By:	USA	SO ₂	0	Aspirational							
	Fuel:	Natural Gas	CO	190	N/A							
	Capacity:	900 KW	CO ₂	6.3	N/A							
Generator-9	Brand Name:	Waukesha	SPM	18.2	Aspirational		5.4	4612	Calculated	N/A		Annually
	Model No.:	VHP5904GSID	NO _x	173.4	Aspirational							
	Made By:	USA	SO ₂	0	Aspirational							
	Fuel:	Natural Gas	CO	198	N/A							
	Capacity:	900 KW	CO ₂	5.6	N/A							
Generator-10	Brand Name:	Jenbacher	SPM	18.8	Aspirational		5.3	7235	Calculated	N/A		Annually
	Model No.:	JGS 320GS-NL	NO _x	167.3	Aspirational							
	Made By:	Austria	SO ₂	0	Aspirational							
	Fuel:	Natural Gas	CO	197	N/A							
	Capacity:	1064 KW	CO ₂	5.3	N/A							
Generator-11	Brand Name:	Waukesha	SPM	19.8	Aspirational		5.1	7958	Calculated	N/A		Annually
	Model No.:	VHP5904LTDE	NO _x	187.7	Aspirational							
	Made By:	USA	SO ₂	0	Aspirational							
	Fuel:	Natural Gas	CO	212	N/A							
	Capacity:	900 KW	CO ₂	5	N/A							
Generator-12	Brand Name:	Waukesha	SPM	18.5	Aspirational		5.3	7506	Calculated	N/A		Annually
	Model No.:	VHP5904 LTDE	NO _x	188.7	Aspirational							
	Made By:	USA	SO ₂	0	Aspirational							
	Fuel:	Natural Gas	CO	217	N/A							
	Capacity:	900 KW	CO ₂	5.3	N/A							
Boiler-1	Brand Name:	Thermax	SPM	16.1	Aspirational	0.332	4.6	4414	Calculated	N/A	Annually	
	Model No.:	SM: 100DL/10.54/11E	NO _x	123.3	Aspirational	2.579						
	Made By:	India	SO ₂	0	Aspirational	0						

Basic Information			Testing Information						Standards and Recommendation			
ID Number	Emission Source		Parameter	Emission Amount mg/Nm3	Emission Level	Total Concentration (Ton/Year)	Emission Flow Rate	Yearly Run time (Hours)	Determined by	Control Devices In Place	Applicable Regulations	Testing Required
Boiler-1	Fuel:	Natural Gas	CO	184	N/A	3.855	4.6	4414	Calculated	N/A	1. DoE (APCR-2022) 2. IFC/World Bank 3. STeP BY OEKO-TEX 4. ZDHC Air Emissions Guidelines	Annually
	Capacity:	10 Ton/hr.	CO ₂	4.7	N/A	1903.107						
Boiler-2	Brand Name:	Thermax	SPM	15.8	Aspirational	0.486	4.9	6146	Calculated	N/A		Annually
	Model No.:	SMt 100C/10.54/27	NO _x	114.4	Aspirational	3.571						
	Made By:	India	SO ₂	0	Aspirational	0						
	Fuel:	Natural Gas	CO	181	N/A	5.659						
	Capacity:	10 Ton/hr.	CO ₂	4.3	N/A	2598.130						
Boiler-3	Brand Name:	Thermax	SPM	15.6	Aspirational	0.391	4.7	5127	Calculated	N/A		Annually
	Model No.:	SMt 100DL/10.54/1001	NO _x	109.9	Aspirational	2.790						
	Made By:	India	SO ₂	0	Aspirational	0						
	Fuel:	Natural Gas	CO	180	N/A	4.577						
	Capacity:	10 Ton/hr.	CO ₂	4.8	N/A	2358.819						
Boiler-4	Brand Name:	Daelim	SPM	16.2	Aspirational	0.199	4.3	2713	Calculated	N/A		Annually
	Model No.:	-	NO _x	115.6	Aspirational	1.438						
	Made By:	Korea	SO ₂	0	Aspirational	0						
	Fuel:	Natural Gas	CO	179	N/A	2.231						
	Capacity:	6 Ton/hr.	CO ₂	4.6	N/A	1108.056						
Boiler-5 (EGB)	Brand Name:	DDFC	SPM	15.6	Aspirational	0.078	3.9	8328	Calculated	N/A		Annually
	Model No.:	-	NO _x	155.4	Aspirational	0.786						
	Made By:	Pakistan	SO ₂	0	Aspirational	0						
	Fuel:	Exhaust Gas	CO	180	N/A	0.912						
	Capacity:	2700 kg/hr.	CO ₂	4.5	N/A	440.539						
Boiler-6 (EGB)	Brand Name:	Forbes Vyncke Pvt. Ltd.	SPM	15.2	Aspirational	0.078	4.1	8328	Calculated	N/A		Annually
	Model No.:	-	NO _x	158	Aspirational	0.824						
	Made By:	India	SO ₂	0	Aspirational	0						
	Fuel:	Exhaust Gas	CO	178	N/A	0.930						
	Capacity:	3050 kg/hr.	CO ₂	4.8	N/A	484.783						
Boiler-7 (EGB)	Brand Name:	Forbes Vyncke Pvt Ltd.	SPM	15	Aspirational	0.081	4	8328	Calculated	N/A		Annually
	Model No.:	-	NO _x	157	Aspirational	0.859						
	Made By:	India	SO ₂	0	Aspirational	0						
	Fuel:	Exhaust Gas	CO	172	N/A	0.943						
	Capacity:	3350 kg/hr.	CO ₂	4.6	N/A	487.263						

Basic Information			Testing Information						Standards and Recommendation			
ID Number	Emission Source		Parameter	Emission Amount mg/Nm3	Emission Level	Total Concentration (Ton/Year)	Emission Flow Rate	Yearly Run time (Hours)	Determined by	Control Devices In Place	Applicable Regulations	Testing Required
Boiler-8 (EGB)	Brand Name:	Forbes Vyncke Pvt Ltd.	SPM	15.3	Aspirational	0.085	4.2	8328	Calculated	N/A	1. DoE (APCR-2022) 2. IFC/World Bank 3. STeP BY OEKO-TEX 4. ZDHC Air Emissions Guidelines	Annually
	Model No.:	-	NO _x	88.2	Aspirational	0.498						
	Made By:	India	SO ₂	0	Aspirational	0						
	Fuel:	Exhaust Gas	CO	187	N/A	1.057						
	Capacity:	2700 kg/hr.	CO ₂	4.2	N/A	458.869						

Emission from Refrigerant Device / Cooling System:

The annual air emission caused by **ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited** by refilling refrigerant in the last twelve months is presented below:

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
Sl. No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
1	AC-01	Textiles	MD Sir Room, Office Building, 1st Floor	2 Ton	R-22	1810	-	0	0	No Leaks Found
2	AC-02	Textiles	Showroom, Office Building, 1st Floor	5 Ton	R-22	1810	-	2.5	4525	No Leaks Found
3	AC-03	Textiles	Showroom, Office Building, 1st Floor	5 Ton	R-22	1810	4	2.5	4525	No Leaks Found
4	AC-04	Textiles	Marketing Hall Room, Office Building, 1st Floor	5 Ton	R-22	1810	4	4	7240	No Leaks Found
5	AC-05	Textiles	Marketing Hall Room, Office Building, 1st Floor	5 Ton	R-22	1810	4	1.6	2896	No Leaks Found
6	AC-06	Textiles	Marketing Hall Room, Office Building, 1st Floor	3 Ton	R-22	1810	3	4	7240	No Leaks Found
7	AC-07	Textiles	Marketing Director, Office Building, 1st Floor	2 Ton	R-22	1810	1.5	3	5430	No Leaks Found
8	AC-08	Textiles	Marketing Office Room, Office Building, 1st Floor	1 Ton	R-22	1810	0.9	1.2	2172	No Leaks Found
9	AC-09	Textiles	Marketing Office Room, Office Building, 1st Floor	1 Ton	R-22	1810	0.9	0	0	No Leaks Found
10	AC-10	Textiles	Marketing Office Room, Office Building, 1st Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
11	AC-11	Textiles	Commercial Director Sir Room, Office Building, 1st Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
Sl. No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
12	AC-12	Textiles	DMD Sir Room, Office Building, 1st Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
13	AC-13	Textiles	Reception, Office Building, Ground Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
14	AC-14	Textiles	Reception, Office Building, Ground Floor	5 Ton	R-22	1810	4	0	0	No Leaks Found
15	AC-15	Textiles	Admin, HR & Compliance Department, Office Building, Ground Floor	5 Ton	R-22	1810	4	0	0	No Leaks Found
16	AC-16	Textiles	Admin, HR & Compliance Department, Office Building, Ground Floor	5 Ton	R-22	1810	4	0	0	No Leaks Found
17	AC-17	Textiles	Admin G.M, Office Building, Ground Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
18	AC-18	Textiles	ED Sir Room, Office Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
19	AC-19	Textiles	MD Madam Room, Office Building, Ground Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
20	AC-20	Textiles	GM Compliance Room, Office Building, Ground Floor	1 Ton	R-22	1810	0.9	0	0	No Leaks Found
21	AC-261	Textiles	GM Compliance Room, Office Building, Ground Floor	5 Ton	R-22	1810	4	2.5	4525	No Leaks Found
22	AC-21	Textiles	Conference Room, Office Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
23	AC-22	Textiles	Commercial and Accounts Hall Room, Office Building, Ground Floor	5 Ton	R-22	1810	4	0	0	No Leaks Found
24	AC-23	Textiles	Commercial and Accounts Hall Room, Office Building, Ground Floor	5 Ton	R-22	1810	4	0.5	905	No Leaks Found
25	AC-24	Textiles	Accounts Director, Office Building, Ground Floor	2 Ton	R-410A	1924	1.5	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
SL No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
26	AC-25	Textiles	GM (Accounts & Finance), Office Building, Ground Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
27	AC-26	Textiles	GM (Commercial), Office Building, Ground Floor	1 Ton	R-22	1810	0.9	0	0	No Leaks Found
28	AC-27	Textiles	Accounts Cash Room, Office Building, Ground Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
29	AC-28	Textiles	Accounts Credit Room, Office Building, Ground Floor	2.5 Ton	R-22	1810	2.5	0	0	No Leaks Found
30	AC-30	Textiles	CCTV Room, Office Building, 2nd Floor	4 Ton	R-22	1810	3.5	0	0	No Leaks Found
31	AC-31	Textiles	IT Section, Office Building, 2nd Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
32	AC-32	Textiles	IT Section, Office Building, 2nd Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
33	AC-33	Textiles	IT Section, Office Building, 2nd Floor	3 Ton	R-22	1810	3	0	0	No Leaks Found
34	AC-34	Textiles	Server Room, IT Section, Office Building, 2nd Floor	2 Ton	R-410A	1924	1.5	1.5	2886	No Leaks Found
35	AC-35	Textiles	Server Room, IT Section, Office Building, 2nd Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
36	AC-76	Textiles	Generator Control Room,Utility Unit-03, Ground Floor	5 Ton	R-22	1810	4	3	5430	No Leaks Found
37	AC-77	Textiles	Generator Control Room,Utility Unit-03, Ground Floor	5 Ton	R-22	1810	4	8	14480	No Leaks Found
38	AC-78	Textiles	Generator Control Room,Utility Unit-03, Ground Floor	5 Ton	R-22	1810	4	4	7240	No Leaks Found
39	AC-79	Textiles	Generator Control Room,Utility Unit-03, Ground Floor	5 Ton	R-22	1810	4	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
SL No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
40	AC-80	Textiles	Generator Control Room,Utility Unit-03, Ground Floor	4 Ton	R-22	1810	3.5	0	0	No Leaks Found
41	AC-81	Textiles	Generator Control Room,Utility Unit-03, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
42	AC-82	Textiles	Director (Technical) Room, Utility Building-03, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
43	AC-83	Textiles	Digital Printing-01, Digital Printing Building, Ground Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
44	AC-84	Textiles	Digital Printing-01, Digital Printing Building, Ground Floor	5 Ton	R-22	1810	4	0	0	No Leaks Found
45	AC-85	Textiles	Digital Printing-01, Digital Printing Building, Ground Floor	5 Ton	R-22	1810	4	0	0	No Leaks Found
46	AC-86	Textiles	Digital Printing-01, Digital Printing Building, Ground Floor	5 Ton	R-22	1810	4	4	7240	No Leaks Found
47	AC-87	Textiles	Digital Printing-01, Digital Printing Building, Ground Floor	5 Ton	R-22	1810	4	0	0	No Leaks Found
48	AC-88	Textiles	Digital Printing-01, Digital Printing Building, Ground Floor	5 Ton	R-22	1810	4	4	7240	No Leaks Found
49	AC-89	Textiles	Digital Printing-01 (Office/Design Room), Digital Printing Building, Ground Floor	1 Ton	R-22	1810	0.9	0	0	No Leaks Found
50	AC-90	Textiles	Digital Printing-02, Digital Printing Building, Ground Floor	5 Ton	R-410A	1924	4	4	7696	No Leaks Found
51	AC-91	Textiles	Digital Printing-02, Digital Printing Building, Ground Floor	5 Ton	R-410A	1924	4	0	0	No Leaks Found
52	AC-92	Textiles	Digital Printing-02, Digital Printing Building, Ground Floor	5 Ton	R-410A	1924	4	0	0	No Leaks Found
53	AC-93	Textiles	Digital Printing-02, Digital Printing Building, Ground Floor	5 Ton	R-410A	1924	4	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
SL No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
54	AC-94	Textiles	Digital Printing-02, Digital Printing Building, Ground Floor	5 Ton	R-410A	1924	4	0	0	No Leaks Found
55	AC-95	Textiles	Digital Printing-02, Digital Printing Building, Ground Floor	5 Ton	R-410A	1924	4	0	0	No Leaks Found
56	AC-96	Textiles	Chemical Store, Digital Printing Building, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
57	AC-97	Textiles	Raising Panel, Weaving Building-02, Ground Floor	2 Ton	R-22	1810	1.5	3	5430	No Leaks Found
58	AC-98	Textiles	Raising Panel, Weaving Building-02, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
59	AC-99	Textiles	Raising Panel, Weaving Building-02, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
60	AC-100	Textiles	Monforts-2 Stenter Machine Panel Room, Weaving Building-02, Ground Floor	2 Ton	R-22	1810	1.5	3	5430	No Leaks Found
61	AC-101	Textiles	Monforts-2 Stenter Machine Panel Room, Weaving Building-02, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
62	AC-102	Textiles	Monforts-2 Stenter Machine Panel Room, Weaving Building-02, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
63	AC-103	Textiles	Sizing-02 Office Room, Weaving Building-02, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
64	AC-104	Textiles	Sizing-02 Panel Room, Weaving Building-02, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
65	AC-105	Textiles	Admin (Weaving), Weaving Building-02, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
66	AC-106	Textiles	Admin (Weaving), Weaving Building-02, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
67	AC-107	Textiles	Weaving G.M, Weaving Building-02, Ground Floor	1.5 Ton	R-22	1810	1.2	1.5	2715	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
SL No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
68	AC-108	Textiles	Weaving Manager, Weaving Building-02, Ground Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
69	AC-109	Textiles	Electrical Room-03, Weaving Building-02, Ground Floor	1.5 Ton	R-22	1810	1.2	1.5	2715	No Leaks Found
70	AC-110	Textiles	Electrical Room-03, Weaving Building-02, Ground Floor	2 Ton	R-22	1810	1.5	0.5	905	No Leaks Found
71	AC-112	Textiles	Quality Inspection Room-01, Stitching Building-02, 1st Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
72	AC-113	Textiles	Quality Inspection Room-01, Stitching Building-02, 1st Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
73	AC-114	Textiles	Quality Inspection Room-02, Stitching Building-02, 1st Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
74	AC-115	Textiles	Quality Inspection Room-02, Stitching Building-02, 1st Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
75	AC-116	Textiles	Stitching GM Room, Weaving Building-02, 1st Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
76	AC-117	Textiles	Chemical Office, Weaving Building-04, Ground Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
77	AC-118	Textiles	Yarn Store Office, Weaving Building-04, Ground Floor	1.5 Ton	R-22	1810	1.2	1.2	2172	No Leaks Found
78	AC-119	Textiles	Mending Office, Weaving Building-04, 1st Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
79	AC-120	Textiles	Workshop Office, Workshop Building, Ground Floor	1 Ton	R-22	1810	0.9	0	0	No Leaks Found
80	AC-123	Textiles	ETP Panel Room, ETP, 1St Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
81	AC-124	Textiles	ETP Panel Room, ETP, 1St Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
Sl. No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
82	AC-125	Textiles	Mecanical Office Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
83	AC-126	Textiles	Electrical Office Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
84	AC-127	Textiles	Zimmer Printing Control Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	3	5430	No Leaks Found
85	AC-128	Textiles	Zimmer Printing Control Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	3	5430	No Leaks Found
86	AC-129	Textiles	Zimmer Printing Control Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
87	AC-130	Textiles	Zimmer Printing Control Room, Processing Building, Ground Floor	1.5 Ton	R-22	1810	1.2	6	10860	No Leaks Found
88	AC-131	Textiles	Monforts-04 Panel Room, Processing Building, Ground Floor	2 Ton	R-410A	1924	1.5	1.5	2886	No Leaks Found
89	AC-132	Textiles	Monforts-04 Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
90	AC-133	Textiles	Monforts-04 Panel Room, Processing Building, Ground Floor	3 Ton	R-22	1810	3	0	0	No Leaks Found
91	AC-134	Textiles	Monforts-04 Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
92	AC-135	Textiles	New Washing m/c (Chaina), Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
93	AC-136	Textiles	New Washing m/c (Chaina), Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
94	AC-137	Textiles	Bleaching Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
95	AC-138	Textiles	Bleaching Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
SL No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
96	AC-139	Textiles	Bleaching Panel Room, Processing Building, Ground Floor	1 Ton	R-22	1810	0.9	0	0	No Leaks Found
97	AC-140	Textiles	QC/Processing lab-Online room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
98	AC-141	Textiles	QC/Processing lab-Offline room, Processing Building, Ground Floor	3 Ton	R-22	1810	3	5	9050	No Leaks Found
99	AC-142	Textiles	QC/Processing lab-Offline room, Processing Building, Ground Floor	3 Ton	R-22	1810	3	5.5	9955	No Leaks Found
100	AC-143	Textiles	QC/Processing lab-GM room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	4.5	8145	No Leaks Found
101	AC-144	Textiles	QC/Processing lab-Testing room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
102	AC-145	Textiles	QC/Processing lab-Testing room, Processing Building, Ground Floor	3 Ton	R-22	1810	3	0	0	No Leaks Found
103	AC-146	Textiles	Pad Steam Control Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
104	AC-147	Textiles	Pad Steam Control Room, Processing Building, Ground Floor	3 Ton	R-22	1810	3	0	0	No Leaks Found
105	AC-148	Textiles	Mercerizing Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
106	AC-149	Textiles	Mercerizing Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
107	AC-150	Textiles	Mercerizing Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
108	AC-151	Textiles	Monforts Stenter-03 Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
109	AC-152	Textiles	Monforts Stenter-03 Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
Sl. No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
110	AC-153	Textiles	Monforts Stenter-03 Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
111	AC-154	Textiles	Monforts Stenter-03 Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
112	AC-155	Textiles	Monforts Stenter-01 Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
113	AC-156	Textiles	Monforts Stenter-01 Panel Room, Processing Building, Ground Floor	2 Ton	R-410A	1924	1.5	1.5	2886	No Leaks Found
114	AC-157	Textiles	Monforts Stenter-01 Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
115	AC-158	Textiles	Monforts Stenter-01 Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
116	AC-159	Textiles	Thermosol Dyeing Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
117	AC-160	Textiles	Thermosol Dyeing Panel Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
118	AC-161	Textiles	Dyeing Lab, Processing Building, Ground Floor	2 Ton	R-410A	1924	1.5	0	0	No Leaks Found
119	AC-162	Textiles	Processing GM Office Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
120	AC-163	Textiles	Processing GM Dining Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
121	AC-164	Textiles	Admin Office (Processing), Processing Building, Ground Floor	1.5 Ton	R-22	1810	1.2	6	10860	No Leaks Found
122	AC-165	Textiles	Dyeing Engraving Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	4.5	8145	No Leaks Found
123	AC-166	Textiles	Dyeing Engraving Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
Sl. No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
124	AC-167	Textiles	Dyeing Engraving Room, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
125	AC-168	Textiles	File Room, Processing Building, Ground Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
126	AC-169	Textiles	Sanforizing Machine Panel, Processing Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
127	AC-170	Textiles	LT Panel Room, Utility Unit-01, Ground Floor	5 Ton	R-22	1810	4	6.5	11765	No Leaks Found
128	AC-171	Textiles	LT Panel Room, Utility Unit-01, Ground Floor	5 Ton	R-22	1810	4	0	0	No Leaks Found
129	AC-172	Textiles	Generator Control Room-01, Utility Unit-01, Ground Floor	5 Ton	R-22	1810	4	0	0	No Leaks Found
130	AC-173	Textiles	Generator Control Room-01, Utility Unit-01, Ground Floor	2.5 Ton	R-410A	1924	1.5	0	0	No Leaks Found
131	AC-174	Textiles	Generator Control Room-01, Utility Unit-01, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
132	AC-175	Textiles	Generator Control Room-01, Utility Unit-01, Ground Floor	2.5 Ton	R-410A	1924	1.5	2	3848	No Leaks Found
133	AC-176	Textiles	Generator Control Room-01, Utility Unit-01, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
134	AC-177	Textiles	Generator Control Room-02, Utility Unit-02, Ground Floor	5 Ton	R-22	1810	4	0	0	No Leaks Found
135	AC-178	Textiles	Generator Control Room-02, Utility Unit-02, Ground Floor	5 Ton	R-22	1810	4	12	21720	No Leaks Found
136	AC-179	Textiles	Generator Control Room-02, Utility Unit-02, Ground Floor	5 Ton	R-22	1810	4	5	9050	No Leaks Found
137	AC-180	Textiles	Generator Control Room-02, Utility Unit-02, Ground Floor	5 Ton	R-22	1810	4	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
SL No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
138	AC-181	Textiles	Technical GM Office, Utility Unit-01, 1st Floor	2.5 Ton	R-22	1810	2.5	0	0	No Leaks Found
139	AC-182	Textiles	Technical GM Office, Utility Unit-01, 1st Floor	2 Ton	R-410A	1924	1.5	0	0	No Leaks Found
140	AC-184	Textiles	Auto Drawing Machine Section, Weaving Building-01, Ground Floor	4 Ton	R-22	1810	3.5	3.5	6335	No Leaks Found
141	AC-185	Textiles	Auto Drawing Machine Section, Weaving Building-01, Ground Floor	5 Ton	R-22	1810	4	0	0	No Leaks Found
142	AC-186	Textiles	Sizing Panel Room, Weaving Building-01, Ground Floor	1.5 Ton	R-22	1810	1.2	1.2	2172	No Leaks Found
143	AC-187	Textiles	Sizing Panel Room, Weaving Building-01, Ground Floor	1.5 Ton	R-22	1810	1.5	0	0	No Leaks Found
144	AC-189	Textiles	Medical Center, Weaving Building-01, Ground Floor	2.5 Ton	R-22	1810	2.5	2	3620	No Leaks Found
145	AC-190	Textiles	Medical Center, Weaving Building-01, Ground Floor	2.5 Ton	R-22	1810	2.5	0	0	No Leaks Found
146	AC-191	Textiles	Dr. Room-01, Medical Center, Weaving Building-01, Ground Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
147	AC-193	Textiles	Child Care Room, Weaving Building-01, 1st Floor	2.5 Ton	R-22	1810	2.5	0	0	No Leaks Found
148	AC-194	Textiles	Admin Office (Weaving) , Weaving Building-01, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
149	AC-195	Textiles	Weaving Manager, Weaving Building-01, Ground Floor	1 Ton	R-22	1810	0.9	0	0	No Leaks Found
150	AC-196	Textiles	Weaving G.M, Weaving Building-01, Ground Floor	1 Ton	R-22	1810	0.9	0	0	No Leaks Found
151	AC-197	Textiles	Weaving Mechanical Room, Weaving Building-01, Ground Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
Sl. No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
152	AC-198	Textiles	Weaving Electrical Room, Weaving Building-01, Ground Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
153	AC-199	Textiles	Embroidery Section-01, Stitching Building-01, Ground Floor	3 Ton	R-22	1810	3	0	0	No Leaks Found
154	AC-200	Textiles	Embroidery Section-01, Stitching Building-01, Ground Floor	3 Ton	R-22	1810	3	0	0	No Leaks Found
155	AC-202	Textiles	Embroidery Section-02, Stitching Building-01, Ground Floor	4 Ton	R-22	1810	3.5	0	0	No Leaks Found
156	AC-203	Textiles	Embroidery Section-02, Stitching Building-01, Ground Floor	4 Ton	R-22	1810	3.5	3	5430	No Leaks Found
157	AC-204	Textiles	Garment Accessories Office, Stitching Building-01, Ground Floor	1.5 Ton	R-22	1810	1.2	4.8	8688	No Leaks Found
158	AC-205	Textiles	Garment Accessories Store, Stitching Building-01, Ground Floor	1.5 Ton	R-22	1810	1.2	1.2	2172	No Leaks Found
159	AC-206	Textiles	Target Room, Stitching Building-01, 1st Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
160	AC-207	Textiles	GM Room, Stitching Building-01, 1st Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
161	AC-209	Textiles	QC/Inspection Room-01, Stitching Building-01, 1st Floor	2.5 Ton	R-22	1810	1.5	3	5430	No Leaks Found
162	AC-210	Textiles	QC/Inspection Room-01, Stitching Building-01, 1st Floor	1.5 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
163	AC-211	Textiles	QC/Inspection Room-02, Stitching Building-01, 1st Floor	1.5 Ton	R-410A	1924	1.2	2	3848	No Leaks Found
164	AC-212	Textiles	QC/Inspection Room-02, Stitching Building-01, 1st Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
165	AC-213	Textiles	Room-201, Pakistani Dormitory, 1St Floor	1.5 Ton	R-22	1810	1.2	3.6	6516	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
SL No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
166	AC-214	Textiles	Room-202, Pakistani Dormitory, 1St Floor	1.5 Ton	R-22	1810	1.2	3	5430	No Leaks Found
167	AC-215	Textiles	Room-203, Pakistani Dormitory, 1St Floor	1.5 Ton	R-22	1810	1.2	2.7	4887	No Leaks Found
168	AC-216	Textiles	Room-204, Pakistani Dormitory, 1St Floor	1.5 Ton	R-22	1810	1.2	3	5430	No Leaks Found
169	AC-217	Textiles	Room-205, Pakistani Dormitory, 1St Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
170	AC-218	Textiles	Room-206, Pakistani Dormitory, 1St Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
171	AC-219	Textiles	Room-207, Pakistani Dormitory, 1St Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
172	AC-220	Textiles	Room-208, Pakistani Dormitory, 1St Floor	1.5 Ton	R-22	1810	1.2	1.2	2172	No Leaks Found
173	AC-221	Textiles	Room-209, Pakistani Dormitory, 1St Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
174	AC-222	Textiles	Room-210, Pakistani Dormitory, 1St Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
175	AC-252	Textiles	Sizing-01 Machine Panel AC	N/A	R-134A	1300	-	0	0	No Leaks Found
176	AC-253	Textiles	Sizing-01 Machine Panel AC	N/A	R-134A	1300	-	0	0	No Leaks Found
177	AC-254	Textiles	Bleaching Machine Panel AC	N/A	R-134A	1300	-	0	0	No Leaks Found
178	AC-255	Textiles	Shearing Machine Panel AC	N/A	R-134A	1300	-	0	0	No Leaks Found
179	AC-256	Textiles	Shearing Machine Panel AC	N/A	R-134A	1300	-	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
Sl. No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
180	AC-257	Textiles	Monforts-01 Machine Panel AC	N/A	R-134A	1300	-	0	0	No Leaks Found
181	AC-259	Textiles	Coating Machine Panel AC	N/A	R-134A	1300	-	0	0	No Leaks Found
182	AC-260	Textiles	Sizing-02 Machine Panel AC	N/A	R-134A	1300	-	0	0	No Leaks Found
183	Dryer-01	Textiles	Compressor- Unit-01	10	R-404A	3943	7.5	0	0	No Leaks Found
184	Dryer-02	Textiles	Compressor- Unit-01	10	R-410A	1924	11	0	0	No Leaks Found
185	Dryer-03	Textiles	Compressor- Unit-01	10	R-404A	3943	7.5	0	0	No Leaks Found
186	Dryer-04	Textiles	Compressor- Unit-01	10	R-404A	3943	8	0	0	No Leaks Found
187	Dryer-05	Textiles	Compressor- Unit-01	10	R-404A	3943	8	0	0	No Leaks Found
188	Dryer-06	Textiles	Compressor- Unit-01	10	R-404A	3943	8	0	0	No Leaks Found
189	Dryer-07	Textiles	Compressor- Unit-01	10	R-404A	3943	7.5	0	0	No Leaks Found
190	Dryer-08	Textiles	Compressor- Unit-01	10	R-404A	3943	7.5	0	0	No Leaks Found
191	Dryer-09	Textiles	Compressor- Unit-01	10	R-404A	3943	7.5	0	0	No Leaks Found
192	Dryer-10	Textiles	Compressor- Unit-01	10	R-410A	3943	12	0	0	No Leaks Found
193	Dryer-11	Textiles	Compressor- Unit-02	10	R-404A	3943	8	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
Sl. No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
194	Dryer-12	Textiles	Compressor- Unit-02	10	R-404A	3943	7.5	0	0	No Leaks Found
195	Dryer-13	Textiles	Compressor- Unit-02	10	R-404A	3943	7.5	0	0	No Leaks Found
196	Dryer-14	Textiles	Compressor- Unit-02	10	R-404A	3943	7.5	0	0	No Leaks Found
197	Dryer-15	Textiles	Compressor- Unit-02	10	R-404A	3943	7.5	0	0	No Leaks Found
198	Dryer-16	Textiles	Compressor- Unit-02	10	R-404A	3943	7.5	0	0	No Leaks Found
199	Dryer-17	Textiles	Compressor- Unit-02	10	R-410A	1924	12	0	0	No Leaks Found
200	Dryer-18	Textiles	Compressor- Unit-02	10	R-404A	3943	8	0	0	No Leaks Found
201	Rf-04	Textiles	Pantry Room, Office Building, Ground Floor	4 cft	R-134A	1300	70 W	0	0	No Leaks Found
202	Rf-05	Textiles	Medical, Weaving Building-01, Ground Floor	6.5 cft	R-134A	1300	70 W	0	0	No Leaks Found
203	Rf-06	Textiles	GM Room, Office Building, 1st Floor	4 cft	R-134A	1300	70 W	0	0	No Leaks Found
204	Rf-07	Textiles	GM (Technical) Room, Utility Building-01, 1st Floor	7.5 cft	R-134A	1300	100 W	0	0	No Leaks Found
205	Rf-08	Textiles	Kitchen Room, Dormatory Building, Ground Floor	10 cft	R-134A	1300	130 W	0	0	No Leaks Found
206	Rf-09	Textiles	Kitchen Room, Dormatory Building, Ground Floor	10 cft	R-134A	1300	130 W	0	0	No Leaks Found
207	Rf-10	Textiles	Worker Canteen, Chemical Building, Roof Top	6 cft	R-134A	1300	70 W	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
SL No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
208	Rf-11	Textiles	Staff Canteen, Chemical Building, 1st Floor	8 cft	R-134A	1300	120 W	0	0	No Leaks Found
209	Rf-12	Textiles	Showroom, Office Building, 1st Floor	250 Ltr	R-134A	1300	150 W	2	2600	No Leaks Found
210	AC-36	Towel	CAD Room-01, Towel Building, 1st Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
211	AC-37	Towel	CAD Room-01, Towel Building, 1st Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
212	AC-38	Towel	CAD Room-01, Towel Building, 1st Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
213	AC-39	Towel	CAD Room-01, Towel Building, 1st Floor	2 Ton	R-22	1810	1.5	2	3620	No Leaks Found
214	AC-40	Towel	CAD Room-02, Towel Building, 1st Floor	2.5 Ton	R-22	1810	2.5	0	0	No Leaks Found
215	AC-41	Towel	CAD Room-02, Towel Building, 1st Floor	2.5 Ton	R-22	1810	2.5	0	0	No Leaks Found
216	AC-42	Towel	CAD Room-02, Towel Building, 1st Floor	2.5 Ton	R-22	1810	2.5	0	0	No Leaks Found
217	AC-43	Towel	Testing Lab,Towel Building, 1st Floor	1.5 Ton	R-22	1810	1.2	1.5	2715	No Leaks Found
218	AC-44	Towel	Testing Lab,Towel Building, 1st Floor	1.5 Ton	R-22	1810	1.2	1.5	2715	No Leaks Found
219	AC-45	Towel	Colour Matching Lab, Towel Building, 1st Floor	3 Ton	R-410A	1924	3	0	0	No Leaks Found
220	AC-47	Towel	Lab Manager Room, Towel Building, 1st Floor	1 Ton	R-22	1810	0.9	0	0	No Leaks Found
221	AC-48	Towel	Dark Room, Towel Building, 1st Floor	1 Ton	R-22	1810	0.9	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
Sl. No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
222	AC-49	Towel	Towel GM Room + Server Room, Towel Building, 1st Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
223	AC-50	Towel	Towel GM Room + Server Room, Towel Building, 1st Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
224	AC-51	Towel	Yarn Dyeing GM Room, Towel Building, Ground Floor	2 Ton	R-410A	1924	1.5	0	0	No Leaks Found
225	AC-52	Towel	Engraving/Screen Coating Room, Towel Building, Ground Floor	2.5 Ton	R-22	1810	2.5	0	0	No Leaks Found
226	AC-53	Towel	Engraving/Screen Coating Room, Towel Building, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
227	AC-54	Towel	Engraving/Screen Coating Room, Towel Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
228	AC-55	Towel	Engraving/Screen Coating Room, Towel Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
229	AC-56	Towel	Flatbed Panel Room, Towel Building, Ground Floor	2 Ton	R-22	1810	1.5	6	10860	No Leaks Found
230	AC-57	Towel	Flatbed Panel Room, Towel Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
231	-	-	Photoshut Room	3 Ton	R-23	1810	1.5	1.5	2715	No Leaks Found
232	AC-58	Towel	Coating Panel Room, Towel Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
233	AC-59	Towel	Coating Panel Room, Towel Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
234	AC-60	Towel	Electrical Office, Towel Building, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
235	AC-61	Towel	Mechanical Office, Towel Building, Ground Floor	1 Ton	R-22	1810	0.9	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
Sl. No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
236	AC-62	Towel	GM (Towel Weaving) Office, Towel Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
237	AC-63	Towel	Yarn Testing Lab Room, Towel Building, Ground Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
238	AC-64	Towel	Admin (Weaving) Office, Towel Building, Ground Floor	1 Ton	R-22	1810	0.9	1.5	2715	No Leaks Found
239	AC-65	Towel	Electrical (Weaving) Office, Towel Building, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
240	AC-66	Towel	Towel Weaving Manager, Towel Building, Ground Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
241	AC-67	Towel	Sizing Machine Panel Room-1,Towel Building, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
242	AC-68	Towel	Sizing Machine Panel Room-2,Towel Building, Ground Floor	2 Ton	R-22	1810	1.5	1.5	2715	No Leaks Found
243	AC-69	Towel	Towel Sizing Office Room, Towel Building, Ground Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
244	AC-70	Towel	Towel Stitching Admin Office, Towel Building, 1st Floor	1 Ton	R-22	1810	0.9	0	0	No Leaks Found
245	AC-71	Towel	Towel Stitching G.M Room, Towel Building, 1st Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
246	AC-72	Towel	Towel Stitching G.M Room, Towel Building, 1st Floor	1.5 Ton	R-22	1810	1.2	0	0	No Leaks Found
247	AC-73	Towel	Inspection/QC Room (Stitching), Towel Building, 1st Floor	2 Ton	R-22	1810	1.5	3	5430	No Leaks Found
248	AC-74	Towel	Inspection/QC Room (Stitching), Towel Building, 1st Floor	2 Ton	R-22	1810	1.5	0	0	No Leaks Found
249	AC-75	Towel	Training Room, Towel Building, 1st Floor	3 Ton	R-22	1810	3	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
Sl. No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
250	AC-234	Towel	Towel Stitching Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
251	AC-235	Towel	Towel Stitching Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
252	AC-236	Towel	Towel Stitching Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
253	AC-237	Towel	Towel Stitching Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
254	AC-238	Towel	Yarn Dyeing Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
255	AC-239	Towel	Yarn Dyeing Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
256	AC-240	Towel	Yarn Dyeing Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
257	AC-241	Towel	Yarn Dyeing Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
258	AC-242	Towel	Yarn Dyeing Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
259	AC-243	Towel	Yarn Dyeing Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
260	AC-244	Towel	Yarn Dyeing Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
261	AC-245	Towel	Yarn Dyeing Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
262	AC-246	Towel	Angleda Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
263	AC-247	Towel	Angleda Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found

Factory Name			ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited.							
Sl. No	AC ID	Facility	Location	Capacity (Ton)	Refrigerant (Gas) Type	GWP	Amount of Refrigerant (Initial) (Kg)	Yearly Refill Amount (Kg)	Total Emission in CO ₂ e from Yearly Refill Amount (Kg)	Comments
264	AC-248	Towel	Angleda Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
265	AC-249	Towel	Angleda Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
266	AC-250	Towel	Angleda Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
267	AC-251	Towel	Angleda Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
268	AC-258	Towel	Towel Washing Machine Panel AC	N/A	R-134A	1300	0	0	0	No Leaks Found
Total Yearly Emission (kg)								220.7	399872	

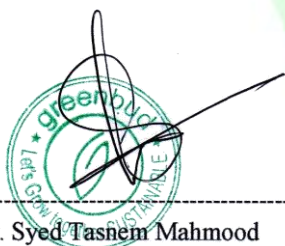
Discussion and Recommendation:

ACS Textiles (Bangladesh) Ltd. & ACS Towel Limited have hired GREENBUD Testing & Inspection Services Private Limited to inspect the overall yearly air emission, i.e., point source and non-point source (fugitive emission source) emission including Stack Emission, Gaseous Pollutant Emission, VOC Emission and ODS Emission.

GREENBUD has inspected all the required parameter according to the Air Pollution Control Rules-2022, ZDHC Air Emission Guidelines'2021, STeP BY OEKO-TEX and the IFC/World Bank emission standard. As standard limits for indoor air quality are yet to set by the national guideline, therefore, it cannot conclude whether these parameters are in compliance with the standard or not.

However, the proponent needs to consider that the concentration of parameters presented in this report is instantaneous data which had been found during inspection and may vary over the period of time.

Factory is suggested to assess all the Air Emission Quality at least annually if all other setups are constant.



Engr. Syed Tasnem 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



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.