

CARBON FOOTPRINT REPORT 2023



Ekram Sweaters Ltd.

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This report has been prepared for the sole benefit, use, and information of EKRAM SWEATERS LTD. in combination of Lidl supplier to publish the target at SBTi, under the name of "Science Based Targets Project". The liability of GSCS International Ltd. in respect of the information contained in the report will not extend to any third party.

The report has been prepared in accordance with the requirements established in Standard UNE-EN- ISO 14064-1:2018: "Greenhouse gases. Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals".

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Abbreviations and Acronyms

CDP	Carbon Disclosure Project
CFP	Carbon Footprint
CH₄	Methane
CO₂	Carbon Dioxide
CO₂e	Carbon Dioxide equivalent
DEFRA	Department of Environment, Food & Rural Affairs
EF	Emission Factor
GHG	Green House Gases
GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
ISO	International Standard Organization
KWh	Kilowatt-hour
L	Liter
m²	Square Meter
m³	Cubic Meter
mt	Metric tons
mtCO₂e	Metric tons Carbon Dioxide equivalent
MWh	Megawatt hour
pkm	Passenger-Kilometer
SBTi	Science-based Targets initiative
Scp	Scope
SDG	Sustainable Development Goal
tkm	Ton kilometer
WTT	Well-to -Tank
SAM	Standard Allowed Minutes
AMM	Actual Manufactured Minutes

Introduction

Ekram Sweater Ltd. is a comprehensive manufacturing company established in 2003. Its main product is sweaters and the company has been developed in this field for nearly 10 years. Company products seek to meet the special requirements of professional custom, and also carry out a strict quality management system in accordance with ISO standard requirements. The production capability of the organization is 55,0000 pieces every month.

The scope of Ekram Sweater Ltd. is all kinds of sweater manufacturers.

The structure of Ekram Sweater Ltd. is receiving raw materials, knitting, linking, trimming/mending, washing, sewing, heat pressing, pressing, QC, and Packaging and finally shipment.

Company website: <https://osmangroupbd.com/>

Executive Summary

A **carbon footprint** measures the total greenhouse gas (GHG) emissions associated with an individual, organization, product, or event, typically expressed in **carbon dioxide equivalent (CO₂e)**. Carbon Footprint also helps to set a baseline to inform future actions, which can range from reporting and engagement to decarbonization and integrated risk management.

This is the first annual Carbon Footprint Report for **Ekram Sweater Ltd.'s** head office located in Bangladesh. This report analyses the carbon footprint for 2023 to be the baseline year and will be used to disclose the Carbon Footprint and Carbon Reduction Plan.

Subsequent reports will be disclosed annually to ensure continuous measurement of carbon neutrality.

Carbon footprint has become a fundamental concept for assessing the impact of human activities on the environment and has become mainly used to measure GHG greenhouse gas emissions.

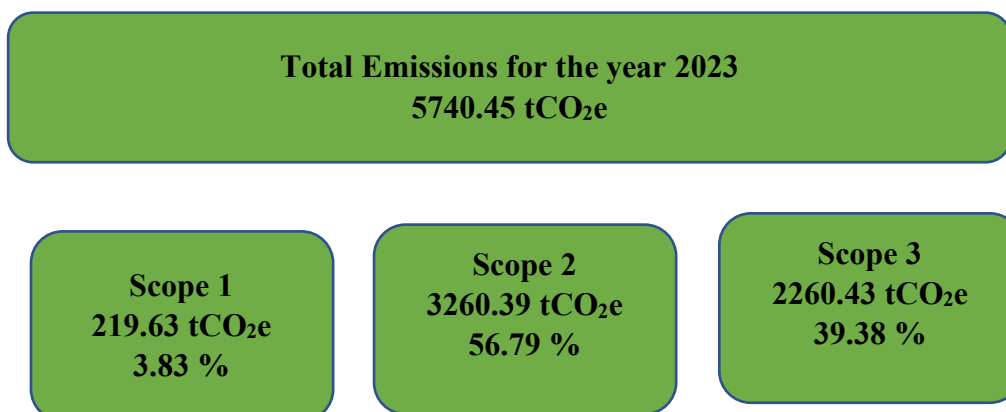
Ekram Sweater Ltd. is pursuing a “carbon footprint” project to estimate their own contributions to global climate change.

The organization plays a pivotal role in driving global decarbonization and remains focused on the GHG emissions reduction plan to reach and sustain net-zero greenhouse gas (GHG) emissions as a long-term plan and as a short-term plan to set a near-term target by 2030 and limit the rise in temperature above 1.5°C.

The base year is 2023 and the reporting period covers the 1st of January 2023 to the 31st of December 2023. As a result of the expansion in the reporting organizational and operational boundaries, the year 2023 is considered as a base year to which upcoming years will be compared.

Emission Summary

Ekram Sweater Ltd.- Overall GHG Summary



Details Calculation of Emissions

All data collected and analyzed and calculation methods within this report follow the World Resources Institute Greenhouse Gas (GHG) Protocol standards.

Carbon emissions are shown in CO₂e (tons of carbon dioxide equivalent). This is a measure of how much a gas contributes to global warming, relative to carbon dioxide. The carbon dioxide equivalent of a gas is calculated by multiplying its mass (in tons) by the gas' global warming potential (GWP) over 100 years.

With annual footprint accounting, we can benchmark performance indicators, evaluate our environmental performance, and assess its evolution over time, in addition to staying on track with our net-zero goals. Enlisting in the Carbon Disclosure Project (CDP) for the second year or at the Company website (<https://osmangroupbd.com/>), setting GHG reduction targets ensuring that our activities emissions contribute to the global temperature increase of no more than 1.5 degrees Celsius, developing and monitoring the adherence to our environmental policies and our continual carbon footprint reporting exemplifies our aspiration to be leaders in corporate sustainability.

The analysis and calculations were based on the Greenhouse Gas Protocol, the Intergovernmental Panel on Climate Change (IPCC) Guidelines for Greenhouse Gas Inventories, the ISO 14064-1:2018 standards, and UK Government GHG Conversion Factors for Company Reporting 2023.

Table 1 : 2023 Carbon Footprint Summary of Emissions of Ekram Sweater Ltd.

Scope	Operational Unit	GHG Emission (Tones CO ₂ e)	% of Total Emissions
Scope 1	Direct Emissions	219.63	3.83 %
Scope 2	Indirect Emissions	3260.39	56.79 %
Scope 3	Indirect Emissions (excluding scope 2)	2260.43	39.38 %
Total Absolute GHG Emissions- tCO₂e		5740.45	100.00 %

Table 2 : Breakdown of Scope 3 Emissions of Ekram Sweater Ltd.

Scope	Operational Unit	GHG Emission (Tones CO ₂ e)	Total Scope 3 Emission (Tones CO ₂ e)
Scope 3	1. Purchased goods and services	328.03	2260.43
	2. Capital goods	Relevant, but not yet calculated	
	3. Fuel- and energy-related activities	Relevant, but not yet calculated	
	4. Upstream transportation and distribution	122.02	
	5. Waste generated in operations	15.57	
	6. Business travel	14.37	
	7. Employee commuting	1,455.37	
	8. Upstream leased assets	Not relevant	
	9. Downstream transportation and distribution	325.07	
	10. Processing of sold products	Relevant, but not yet calculated	
	11. Use of sold products	Relevant, but not yet calculated	
	12. End-of-life treatment of sold products	Relevant, but not yet calculated	
	13. Downstream leased assets	Not relevant	
	14. Franchises	Not relevant	
	15. Investments	Relevant, but not yet calculated	

2023 Base year

Ekram Sweater Ltd. Select year 2023 to be the baseline year to see continued growth for all Company services which should have decreased the emissions when compared to the base year 2023 and coming years.

Carbon Intensity

Total absolute carbon footprint and carbon intensity for the year 2023 is calculated for Ekram Sweater Ltd. and found to equal **5740.45 tones CO₂e and 0.0201 Kg Co₂ e /AMM respectively.**

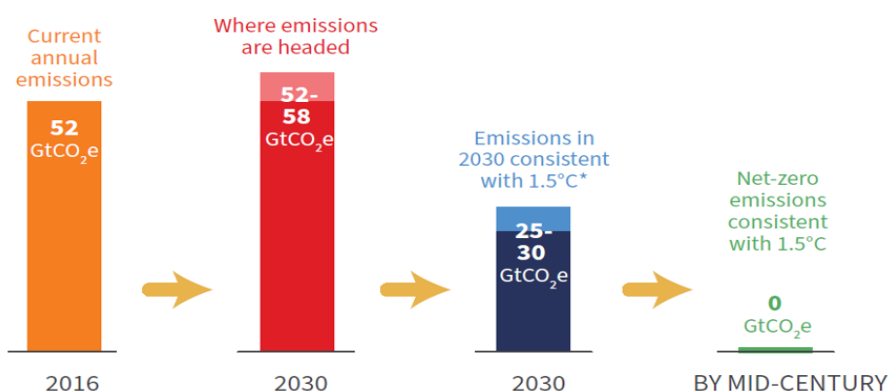
Table 3: GHG Emission Per AMM of Ekram Sweater Ltd.

Category	Quantity (Pcs)	SAM	Total GHG Emission (Tones CO ₂ e)	GHG Emission per minute (Kg CO ₂ e/AMM)
Laddies cardgal	2421752	60	5740.45	0.0201
Laddies top	2180597	45		
Mens polo	285623	55		
Mens t-shirts	355210	50		
kids	235285	35		

Table 4: Near-Term Targets up to 2030 of Ekram Sweater Ltd.

Scope	Base Year's (2023) Absolute GHG Emission (Tones CO ₂ e)	% Of Reduction Target	Target Year's (2030) Absolute GHG Emission (Tones CO ₂ e)
Scope 1	3480	42%	2018.4
Scope 2			

The world target



Methodology

Applied Standards

This carbon footprint assessment is conducted based on the GHG Protocol Guidelines, along with several international and widely applied standards, protocols, and guidelines specially developed for accounting and reporting GHG emissions, including but not limited to the following:

- The Greenhouse Gas (GHG) Protocol Guidelines which include, but not limited to:
 - A Corporate Accounting and Reporting Standard
 - Corporate Value Chain (Scope 3) Accounting and Reporting Standard
- ISO 14064-1 2018: Specification with guidance at the organization level for the quantification and reporting of greenhouse gas emissions and removals.

- 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines for Greenhouse Gas Inventories (with 2019 Refinements).

The emissions of all activities related to **Ekram Sweater Ltd.** have been identified and accounted for activity data of 2023 was retrieved from the data recordings and all data has been reviewed and refined.

Each activity is classified based on its respective scope, described in more detail in the 'Boundaries' section. Each activity falls under a certain scope according to the GHG Protocol Guidelines; Scope 1 (Direct emissions), Scope 2 (Indirect emissions associated with the consumption of purchased electricity) and Scope 3 (Indirect emissions that are a consequence of the operations of the organization but are not directly owned or controlled by the reporting company).

System boundary

Organizational Boundaries

The organizational boundary defines the businesses and operations that constitute the company for the purpose of accounting and reporting greenhouse gas emissions. Companies can choose to report either the emissions from operations over which they have financial or operational control (the control approach) or from operations according to their share of equity in the operation (the equity share approach).

Operational Boundaries

The operational system boundary describes the emission sources considered for the calculation of the carbon footprint. While Scope 1 and 2 emissions sources is mandatory to be considered in order to comply with the GHG Protocol, Scope 3 emission sources is optional. Before starting the carbon footprint calculation for 2023, the Organization's team and GSCS' team discussed and agreed on several relevant scope 3 emissions sources relevant to the organization's activities.

Data

Activity data must be collected within **Ekram Sweater Ltd.** In total, all carbon-relevant information with respect to activities covered by the defined operational system boundary should be compiled.

The operational boundaries for the organization's CFP report include the following:

Scope 1

Emissions from sources that are owned or controlled by the organization (i.e. any owned or controlled activities that release emissions straight into the atmosphere).

The list of Scope 1 activities includes the following:

Ref: GSCS-100794

- **Mobile Combustion** (Fuel burning – Owned vehicles)
- **Stationary Combustion** (Fuel burning – Diesel)
- **Fugitive Emissions** (Refrigerant leakage)
- **Lubricant**

Scope 2

Emissions associated with the consumption of purchased electricity and steam, from a source that is not owned or controlled by the organization. The list of Scope 2 activities includes the following:

- **Purchased Electricity**
- **Purchased Steam**

Scope 3

Emissions resulting from other activities. This includes transport fuel used by air business travel, and employee commuting vehicles for commuting to and from work; emissions resulting from purchased goods and services, emissions resulting from upstream and downstream transportation, shipment; emissions from waste disposal, etc.

- **Fuel and energy-related activities (not included in Scope 1 and 2)** (Fuel burning – Owned vehicles (WTT), Fuel burning – Diesel (WTT), Fuel burning – Natural Gas (WTT), Water usage & wastewater treatment.
 - o **Upstream transportation and distribution**
 - o **Downstream transportation and distribution**
- **Waste generated in operations** (Solid waste disposal)
- **Purchased goods and services** (Purchased goods, Paper consumption, Ink consumption, Packing material)
- **Employee Commuting** (Commuting + (WTT))
- **Business travel** (Fuel Burning – Business travel + (WTT), Air Travel + (WTT), Hotel Stay.

Calculation Approach

As required by best practice in organizational GHG accounting and the chosen WBCSD/WRI GHG Protocol, all seven Kyoto Protocol greenhouse gases have been included in the assessment. Global warming potentials (GWPs) are factors describing the radiative forcing impact of one unit of a specific greenhouse gas (e.g. methane) relative to one unit of carbon dioxide. They are used in GHG accounting to convert individual greenhouse gas emissions to a standardized unit for comparison; carbon dioxide equivalent (CO₂e).

Ekram Sweater Ltd. applied 100-year GWPs to all emissions data in this inventory in order to calculate total emissions, in metric tons of carbon dioxide equivalent (tCO₂e). Global warming potential values were sourced from the Intergovernmental Panel on Climate Change's (IPCC) sixth Assessment Report (AR6 2021), the most

recent IPCC report available at the time of assessment. The Kyoto Protocol GHGs (or categories of GHGs) and their respective GWPs are listed in the table below.

Table 5: GHGs and their respective GWPs

Greenhouse Gas	Chemical Formula	100- Year GWP
Carbon dioxide	CO ₂	1
Methane	CH ₄	27
Nitrous oxide	N ₂ O	273
Hydrofluorocarbons (HFCs)	Various	Various
Perfluorocarbons (PFCs)	Various	Various
Nitrogen trifluoride	NF ₃	17,400
Sulphur hexafluoride	SF ₆	25,200

When doing this, a unit analysis is performed in order to make sure the results of the emissions are obtained in the desired unit mtCO₂e. The general formula for calculating the emissions for each activity is according to the below equation.

The unit of the GHG Emissions is metric tons carbon dioxide equivalent (mtCO₂e). **UK Government GHG Conversion Factors for Company Reporting version 2023 were used at this report.**

The unit CO₂e refers to an amount of a GHG, whose atmospheric impact has been standardized to that one-unit mass of carbon dioxide (CO₂), based on the global warming potential (GWP) of the gas.

The general formula could be applied for each activity to obtain its emissions. All activities were calculated for the fiscal year, 2023. Thus, the emissions accounted for, were those of the total value for each activity in a single year.

$$\text{GHG Emissions, E [mtCO}_2\text{e]} = \text{Activity, A [unit]} \times \text{Emission Factor, EF [mtCO}_2\text{e/unit]}$$

Emission Factors

Emission factors (EF) are representing the quantity of pollutants released to the atmosphere caused by a certain activity. The emission factor is usually expressed as the carbon dioxide equivalent (CO₂e) emissions generated by a unit weight, volume, distance, or duration of the activity, e.g., CO₂e/liter fuel consumed, CO₂e/ km driven or CO₂e/kWh of purchased electricity etc.

The Emission Factors were identified based are:

- DERPA: Department for Environment, Food & Rural Affairs UK 2021
- IPCC: Intergovernmental Panel on Climate Change
- Country Specific Emission Factors Emission factor calculated specifically for each country

As regards the country-specific grid electricity emission factor, the emission factor is derived based on the **Ekram Sweater Ltd.** published reports of monthly data of the grid electricity.

Quality of Data and Emission Sources

All data utilized to calculate the emissions arising from our activities is derived from our database. The quality of the data has been assessed and presented below, where the data of each sector of the business has been assessed separately in order to allow a better analysis and demonstration of resolution and additional clarifications.

Different types of data may be used to carry out a corporate carbon footprint. The most used types of data are:

- **Primary data:** Data taken during interviews as well as recorded data that are directly linked to the assessment.
- The **monthly consumption** of each area at the company in the form of invoices that are used to calculate the emissions resulting from different activities.
- **Secondary data:** such as databases, studies, and reports.
- **Assumptions:** assumptions made based on internationally recognized standards and studies.

Relevancy & Exclusions

Some of our Scope 3 emissions have not been included in this carbon footprint report due to data not being attainable or activities whose emission quantification is beyond the organization's operation and control. The exclusion rationale per category has also been specified.

Table 5: Exclusion from GHG Calculation

Activity	Description	Status
Purchased goods and services	Purchased consumables such as office supplies; envelopes, printing materials, chemicals and disposable items.	Relevant and calculated, but not cover all.
Capital goods	Includes the emissions from embodied carbon in owned assets, buildings, etc.	Relevant, but not yet calculated
Fuel and energy-related activities (not included in Scope 1 and 2)"	Emissions from energy Consumed for municipal water supply and wastewater treatment, as well as WTT from fuel burning and transportation.	Relevant, but not yet calculated.
Upstream transportation and distribution	Emissions from raw materials and products/residents transportation to the distributes.	Relevant, calculated.

Ref: GSCS-100794

Waste generated in operations	This includes the waste generated from the different operations occurring at each area at Manufacturing companies in addition to the waste generated by the employees.	Relevant, calculated.
Business travel	This includes business travel of Ekram Sweater Ltd. using owned vehicles, air travel, and hotel stays.	Relevant, calculated.
Employee commuting	This includes emissions from the use of transportation, using their private vehicles or rented	Relevant, calculated.
Upstream leased assets	This category is not relevant as Ekram Sweater Ltd. does not lease any type of assets.	Not relevant
Downstream transportation	Transportation from the Company to the warehouses	Relevant, calculated.
Processing of sold products	Processing of sold products	Relevant, but not yet calculated.
End-of-life treatment of sold products	Ekram Sweater Ltd. does not offer end-of-life treatment of sold products/residents.	Relevant, but not yet calculated.
Downstream leased assets	Ekram Sweater Ltd. does not lease any assets to the mother Company.	Relevant, but not yet calculated.
Franchises	Ekram Sweater Ltd. does not operate any franchises.	Not relevant
Investments	-	Relevant, but not yet calculated.

Carbon Footprint Calculations and Equations

SCOPE 1

Stationary combustion

- **Diesel Fuel**

Diesel fuel is consumed by the generators that supply most of our Company's electricity demands. Every month, the fuel burned by in our factories is logged into the database. The total amount of fuel consumed was multiplied by the corresponding emission factor to calculate the corresponding direct emissions.

Fuel burning – Diesel emission (mtCO_{2e}) = Fuel consumption (L) * EF (mtCO_{2e}/L)

- **NATURAL GAS**

Natural gas is consumed by the generators to meet some of the company's electricity demands. The monthly consumption of natural gas in m³ was retrieved from the data recordings. The emissions due to the natural gas consumption was calculated by multiplying the total annual amount consumed in m³ by the corresponding emission factor.

Fuel burning – Natural Gas emission (mtCO_{2e}) = Fuel consumption (m³) * EF (mtCO_{2e}/m³)

Mobile combustion

- **OWNED VEHICLES**

Emissions resulting from the owned vehicles fall under Scope 1 direct emissions. The fuel burned by the owned vehicles, or the data related to the distance traveled for each owned truck is logged into each company's database monthly.

Owned Vehicle Emission (mtCO_{2e}) = Fuel consumption (L) * EF (mtCO_{2e}/L)

Or

Owned Vehicle Emission (mtCO_{2e}) = Distance travel (km) * EF (mtCO_{2e}/km)

Fugitive emissions

- **REFRIGERANTS LEAKAGE**

Refrigeration fluids are fluids that are used to cool a space in refrigeration cycles. Each of the sites has been analyzed and wherever applicable, the amount of refrigerants used to recharge the cooling systems in order to compensate for the leakage that happened during the operating year has been included. The refrigerant type and all its related data were found in Ekram Sweater Ltd.'s database.

Refrigerant Leakage Emission (mtCO_{2e}) = Refrigerant Leakage (kg) * EF (mtCO_{2e}/kg)

SCOPE 2

PURCHASED ELECTRICITY

The organization's electricity is used in HVAC, lighting, computers, and other equipment. The electricity consumption data per month was obtained from each Company's database. Emissions from electricity consumption are the

resident of the national grid emission factor and the annual electricity consumption of each area at the company.

Purchased Electricity falls under Scope 2 (Indirect emissions). The electricity consumption includes all Ekram Sweater Ltd.'s operating factories. The monthly electricity consumed at the factories was retrieved from the electricity bills in kWh. Therefore, the total electricity consumption for the fiscal year was calculated using the formula below:

$$\text{Electricity Consumption Emission (mtCO}_2\text{e)} = \text{Electricity consumption (kWh)} \\ * \text{EF (mtCO}_2\text{e/kWh)}$$

SCOPE 3

Purchased goods and services

- **PURCHASED GOODS**

For the factories consumables consist of hygiene disposable items, such as gloves, head covers, face masks, etc.

The resulting emissions fall under Scope 3. The yearly amounts of consumables per type have been retrieved from the factories' data recordings, as units of items. The emissions were obtained by multiplying the emission factor per unit by the weight of items.

$$\text{Emission of purchased goods (mtCO}_2\text{e)} = \sum \text{weight of items (ton)} * \text{EF of material (mtCO}_2\text{e/ton)}$$

- **PAPER CONSUMPTION**

Paper consumption emissions fall under Scope 3 (indirect emissions). Emissions from paper consumption are the residents of the emission factor of the paper by the weight of paper used for each paper type. The emission factor accounted for extraction, processing, manufacturing, and transportation.

$$\text{Paper consumption emission (mtCO}_2\text{e)} = \sum \text{weight of paper (ton)} * \text{EF of paper (mtCO}_2\text{e/ton)}$$

- **PACKING MATERIAL**

Packing materials emissions fall under Scope 3 (indirect emissions). Packing materials include cello tape, stretch rolls, packing cartoons, etc. Emissions from packing materials are the residents of the weight of each type of packing material by the emission factor of this material.

$$\text{Packing material emission (mtCO}_2\text{e)} = \sum \text{weight of packing material (ton)} * \\ \text{EF of material (mtCO}_2\text{e/ton)}$$

Fuel and energy-related activities (not included in Scope 1 and 2)

- **WELL-TO-TANK (WTT) EMISSIONS**

WTT emissions are those that result from the production of a fuel, including resource extraction, initial processing, transportation, fuel production, distribution and marketing, and delivery into a consumer vehicle's fuel tank. WTT emissions were taken into consideration in order to reflect the full range of climatic impacts from fuel-burning activities.

$$\text{WTT Emission (mtCO}_2\text{e)} = \text{Fuel consumption (unit)} * \text{WTT EF (mtCO}_2\text{e/unit)}$$

- **WATER USAGE & WASTEWATER TREATMENT:**

The emission factor for water supply and wastewater treatment is calculated by using a conversion formula, provided by Holding Company for Water and Wastewater (HCWW). The emissions are based on the amount of energy consumed in each process. The emission factors for water supply and wastewater treatment are accordingly calculated by multiplying the conversion factor by the electricity emission factor. At the same time, a unit analysis is performed to make sure the units are conforming.

$$\text{Water supply emission (mtCO}_2\text{e)} = \text{Water supply (m}^3\text{)} * \text{EF (mtCO}_2\text{e/m}^3\text{)}$$

$$\text{Wastewater treatment emission (mtCO}_2\text{e)} = \text{Wastewater treated (m}^3\text{)} * \text{EF (mtCO}_2\text{e/m}^3\text{)}$$

Waste generated in operations

- **SOLID WASTE DISPOSAL**

Solid waste disposal falls under Scope 3 (indirect emissions). Emissions from solid waste disposal are the residents of the emission factor for each waste type, the quantity of waste for each type, and the fate of each waste stream.

Several waste types are generated and disposed of at each area at the company, including cardboard, plastics, metal scrap, and wood. Since the activities of each area at the company differ, the waste disposal varies accordingly as well. Most of the waste at the factories is measured in tons, except for some other streams which are counted as units of items. The waste quantities,

$$\text{Solid Waste Emission (mtCO}_2\text{e)} = \text{Quantity of waste/type (ton)} * \text{EF/type (mtCO}_2\text{e/ton)}$$

Business travel

- **HOTEL STAYS**

For each of the hotel stays, dates, locations, no. of hotel rooms, and nights were obtained from organization data records. The hotel stays encompassed approximately 1 country for the year 2023. DEFRA provides the emission factors per hotel night for each country as UK and non-UK countries. In those cases where the country of the hotel stay is not available in DEFRA, an average value of all non-UK values has been used to approximate the emissions.

Hotel Stay Emission (mtCO₂e) = Hotel stays per country (nights) * EF (mtCO₂e/night per country)

- **AIR TRAVEL + WELL TO TANK EMISSIONS**

In 2023, both international and domestic flights took place. The organization data records provided data on flight routes, dates, and no. of tickets. The International flights are calculated as the distance of the departure location to the final destination including transits. The flight distances have been obtained from the airport distances calculator. The emissions factors were obtained from DEFRA as average passenger, flights to/from non-UK countries.

Air Travel Emission (kgCO₂e) = Distance travelled per passenger (p.km) * EF (kgCO₂e/p.km)

WTT emissions were also accounted for to capture the maximum climate impacts related to this activity.

Air Travel WTT Emission (kgCO₂e) = Distance travelled per passenger (p.km) * WTT EF (kgCO₂e/p.km)

- **BUSINESS TRAVEL**

Besides air travel and commuting, there are other business travel-related emissions occurring at each of our factories.

This is when an employee takes a vehicle in order to get to a meeting/conference or other business-related purpose. Since the vehicles used are not owned by Ekram Sweater Ltd., the emissions resulting from the business travel fall under Scope 3 (indirect emissions). The emissions were calculated by multiplying the traveled distance per passenger by the corresponding emission factor (average passenger car or coach). The following formulae were used to calculate the exact emissions in mtCO₂e:

Business Travel Emission (mtCO₂e) = Travel distance (km) * EF (mtCO₂e/km)
Or

Business Travel Emission (mtCO₂e) = Travel distance (km) * Number of passenger (p.km) * EF (mtCO₂e/p.km)

Business Travel WTT Emission (mtCO₂e) = Travel distance (km) * WTT EF (mtCO₂e/km)

Or

Business Travel WTT Emission (mtCO₂e) = Travel distance (km) * Number of passenger (p.km) * WTT EF (mtCO₂e/p.km)

COMMUTING

Employees and workers commute every day to and from work from different locations all over xxx. In general, the employees and workers use different types of transportation means including private cars, carpooling, minibuses, and micro buses. The daily distances were calculated for the buses in km multiplied by the working days and then multiplied by the corresponding emission factor to get the commuting emissions. Emissions from employee commuting vehicles fall under Scope 3. WTT emissions are also accounted for under Scope 3.

Commuting Emission (mtCO₂e) = Working days * Travel distance * Number of passenger (p.km) * EF (mtCO₂e/p.km)

Commuting WTT Emission (mtCO₂e) = Working days * Travel distance * Number of passenger (p.km) * WTT-EF (mtCO₂e/p.km)

Downstream Transportation and Distribution

- **DOWNSTREAM TRANSPORTATION**

This represents the emissions resulting from the transportation of residents and shipments to different destinations. The resulting emissions fall under Scope 3 and were calculated by multiplying the distance traveled by the corresponding emission factor. The data was retrieved from the database of each area at the Company

Downstream transportation Emissions (mtCO₂e) = Distance Travelled (km) * EF (mtCO₂e/km)

Downstream transportation WTT Emissions (mtCO₂e) = Distance Travelled per weight of shipment (km) * WTT EF (mtCO₂e/km)

Limited Assurance Statement

Independent Verifiers' reports on **Ekram Sweater Ltd.** Carbon Footprint Report 2023.

We have been appointed to perform a limited assurance engagement on Ekram Sweater Ltd. Carbon Footprint Report 2023 for a reporting period covering from the **1st of January to the 31st of December 2023.**

Quality Assurance Statement

To **Ekram Sweater Ltd. Management**, We have been appointed by **Ekram Sweater Ltd.** to conduct GHG calculations pertaining to **Ekram Sweater Ltd.**'s operational activities for the period from the 1st of January 2023 to the 31st of December 2023. The scope covered all products of **Ekram Sweater Ltd.** in calculation across the entire business's operational boundaries.

Verifiers' Independence and Quality

Control: We adhere to integrity, objectivity, competence, due diligence, confidentiality, and professional behavior. We maintain a quality control system that includes policies and procedures regarding compliance with ethical requirements, professional standards, and applicable laws and regulations.

Verifiers' Responsibility

In conducting the carbon footprint calculations, we have adopted the Greenhouse Gas Protocol Guidelines, IPCC Guidelines for Greenhouse Gas Inventories, and ISO 14064-1:2019 specification with guidance at the organization level for quantification and reporting of GHG emissions and removals.

It is our responsibility to express a conclusion about the quality and completeness of the primary data collected/ provided by **Ekram Sweater Ltd.** We have performed the following quality assurance/ quality control tasks:

- Several rounds of data requests were performed whenever the received information was not clear;
- All data presented in this report were provided by the reporting entity and revised and completed by our technical teams;
- For data outliers, meetings were held to investigate the accuracy of the data, and new data was provided when requested;
- Any gaps, exclusions, and/or assumptions have been clearly stated in the report.

Conclusion

Based on the aforementioned procedures, nothing has come to our attention that would cause us to believe that the **Ekram Sweater Ltd.**'s raw data used in the carbon footprint calculations have not been thoroughly collected, verified, and truly represent **Ekram Sweater Ltd.**'s resource consumption in the reporting period related to all categories/aspects identified in this report. We do not assume and will not accept responsibility to anyone other than **Ekram Sweater Ltd** for the provided assurance and conclusion.

Ref: GSCS-100794

ABOUT GSCS International Ltd.

GSCS International Ltd: is an accredited Certification Body, APSCA-approved member firm, SEDEX Affiliate Audit Company (AAC) for SMETA audit and SAC FEM Higg 3.0, BRM, SLCP, ZDHC In check, Verification Body and Training Body, ANAB Accreditation for the Product Certification Body in for Textile Exchange standards like GRS, RCS, OCS, RWS, RDS, RMS, RAS, and GOTS We are also an accredited Certification body for ISO Management System Certification over the world. GSCS has local offices in Bangladesh, India, Myanmar, Sri Lanka, Cambodia, Vietnam, Pakistan, Egypt, Turkey, Sweden, Korea, Thailand, China, Ethiopia, Kenya, Iran, the USA, etc.

And we extend our service for the carbon footprint and carbon neutrality services: In the realm of business and management, understanding and addressing the carbon footprint has become a critical aspect of corporate strategy and sustainability initiatives. The Carbon footprint refers to the total greenhouse gas (GHG) emissions caused directly or indirectly by an individual, organization, event, or product.

It has several implications:

Environmental Responsibility, Cost Savings, Regulatory Compliance, Brand Reputation, Risk Management, Compliance and Reporting, Supply Chain Transparency and Benchmarking

Location: Rokeya Palace, House 75, Road 19, Sector 11, Uttara, Dhaka -1230, Bangladesh

Managing Director

MD Abdul Mottalib

A handwritten signature in black ink, appearing to read 'M. A. Mottalib', with a stylized flourish at the end.