

**GHG INVENTORY**  
**ACCOUNTING**  
**CARBON FOOTPRINT**

**YEAR 2025**

**Messianic Clothing Pvt. Ltd.**  
**A13, HOSIERY COMPLEX, PHASE-II**  
**EXTENSION, NOIDA, Gautam**  
**Buddha Nagar, Uttar Pradesh**





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# Objective of the report

Introduction



Clarify the report overall purpose and establish specific, measurable targets.

**01**

Measure and Track Emissions



Regularly calculating and monitoring greenhouse gas emissions from your operations.

**02**

Enhance Corporate Sustainability Strategy



Strengthening ESG practices to improve long-term business resilience and impact.

**03**

Improve Transparency and Stakeholder Communication



Openly sharing accurate sustainability data, goals, and progress with stakeholders.

**04**

Support Carbon Reduction and Offset Initiatives



Review the outcomes regularly to accurately measure progress and ensure alignment.

**05**

# Messianic

Established in 2001, Messianic Clothing Pvt Ltd is a leading production house specializing in the design and manufacturing of high-fashion garments for ladies. Based in Noida, the company has built a strong reputation for its high-quality apparel and has been exporting to prominent markets in Europe and the USA for over two decades.

With a commitment to excellence, Messianic Clothing combines advanced production techniques with an understanding of global fashion trends, offering a wide range of garments that meet the highest standards of quality and style. The company's global presence underscores its dedication to both the fashion industry and international business partnerships.



*At Messianic Clothing Pvt. Ltd., sustainability is not just a goal—it is an integral part of our business philosophy.*

At Messianic Clothing Pvt Ltd, sustainability is integral to our operations. Since 2001, we have strived to provide high-quality fashion garments while minimizing our environmental impact.

As we continue to expand our presence in international markets, we are committed to reducing our Greenhouse Gas (GHG) emissions and implementing sustainable practices across our processes.

This report highlights our efforts to better understand and mitigate our environmental footprint, reflecting our dedication to a greener future. We remain committed to improving our sustainability initiatives and contributing to the global movement for a more sustainable fashion industry.

- Prakul Luthra  
Director, Messianic Clothing Pvt Ltd

# CARBON FOOTPRINT REPORT

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# What is a Carbon Footprint?

A carbon footprint refers to the total amount of greenhouse gas (GHG) emissions—mainly carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O)—generated throughout the lifecycle of production, from raw material extraction to end-of-life disposal.

## Key Sources of Carbon Footprint:



**Energy Consumption** – Use of fossil fuels for electricity, heating, and industrial processes.



**Transportation** – Emissions from vehicles, airplanes, and logistics.



**Manufacturing & Production** – Industrial activities, including raw material extraction and processing.



**Waste Management** – Landfills, incineration, and wastewater treatment.



**Supply Chain Activities** – Emissions from goods and services used in operations.

# Carbon Emission in Textile Industry



The sector is aligned with the National reduction target of reducing overall GHG emission intensity by **45% from 2005 levels by 2030.**



India's textile and apparel industry contributes around **65 million tonnes of CO<sub>2</sub> equivalent annually**, roughly **2% of national GHG emissions.**



As of 2026, textiles have been formally brought under India's **Carbon Credit Trading Scheme (CCTS)**, requiring companies to meet emission-reduction benchmarks.



Indian textile manufacturing remains energy-intensive, driving significant CO<sub>2</sub> emissions.

# IMPORTANCE OF GHG REPORTING

### **1. Climate Change Mitigation**

Carbon emissions, particularly CO<sub>2</sub>, are the primary drivers of climate change. Transparent reporting helps businesses, governments, and individuals track their environmental impact and take measures to reduce it.

### **2. Regulatory Compliance**

Many countries and regions have laws requiring businesses to disclose their emissions. Compliance with these regulations helps avoid penalties and ensures alignment with national and international climate goals.

### **3. Corporate Responsibility & Reputation**

Consumers and investors are increasingly favoring environmentally responsible companies. Transparent reporting enhances credibility, attracts eco-conscious customers, and strengthens brand reputation.

### **4. Risk Management & Cost Savings**

Understanding emission levels helps organizations identify inefficiencies, reduce energy consumption, and cut costs. This also prepares businesses for future carbon taxes and regulatory changes.

## 5. Investor & Stakeholder Expectations

Many investors and stakeholders demand Environmental, Social, and Governance (ESG) transparency. Carbon reporting allows companies to showcase their commitment to sustainability, making them more attractive for investment.

## 6. Benchmarking & Goal Setting

By reporting emissions, organizations can set clear sustainability goals, track progress, and compare their performance against industry standards or competitors.

## 7. Supply Chain Accountability

Large corporations are increasingly requiring suppliers to disclose carbon emissions to ensure their entire supply chain is aligned with sustainability targets.

## 8. Contribution to Global Initiatives

Carbon reporting aligns with international agreements like the **Paris Agreement** and **Net-Zero Initiatives**, helping nations and industries work collectively toward a sustainable future..

# ABOUT THE ORGANIZATION

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# MESSIANIC CLOTHING PVT. LTD.

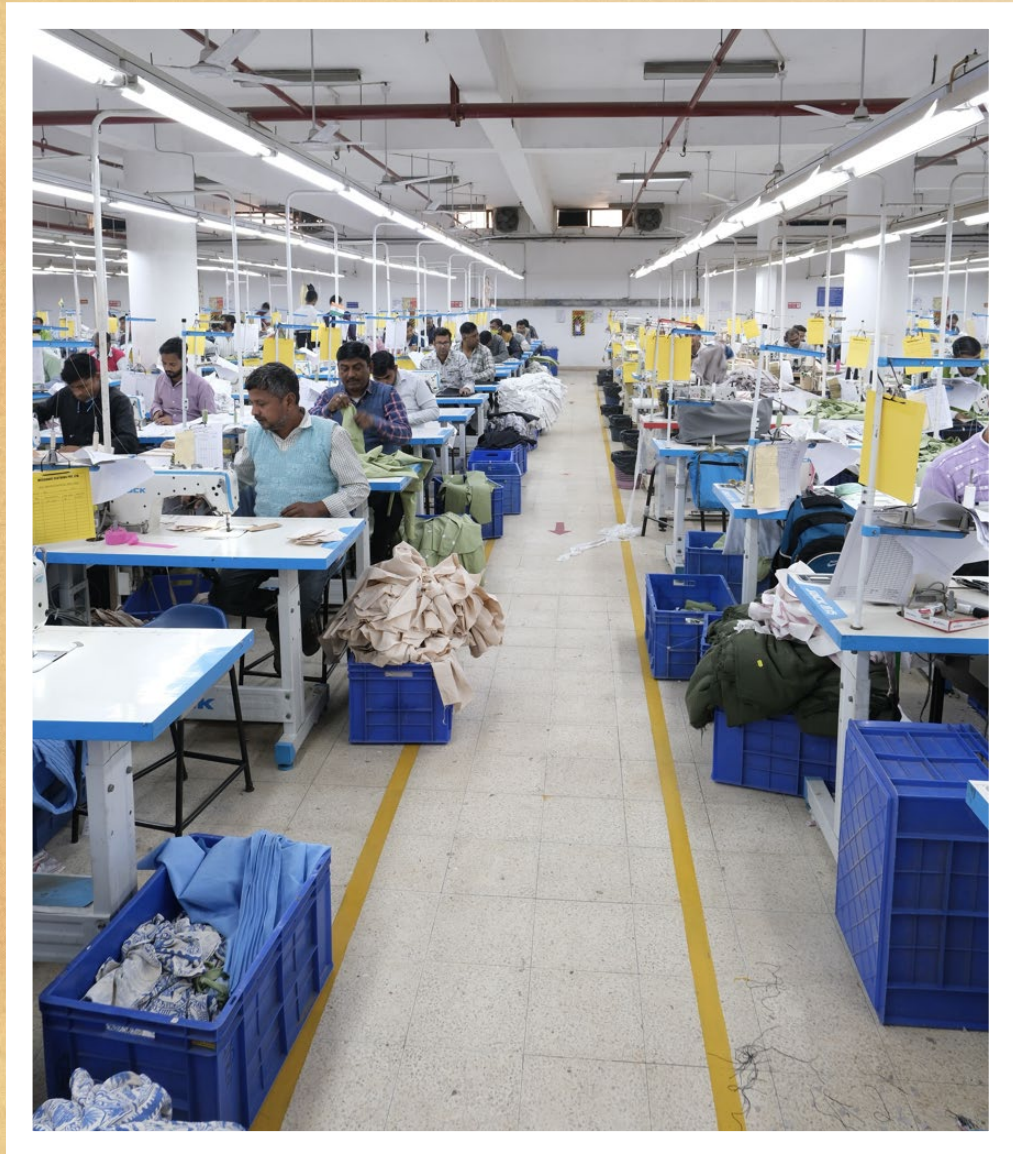
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- Messianic Clothing Pvt Ltd is a premier production house specializing in high-fashion garments for ladies. Based in Noida, India. With a strong focus on international markets, Messianic Clothing exports its products to leading fashion hubs in Europe and the USA, providing clients with garments that reflect the latest trends and high standards of quality.
- As a 100% export-oriented garment manufacturer, the company recognizes the impact of the textile and apparel industry on climate change and has taken steps to mitigate its carbon footprint.



















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# ABOUT THE REPORT



The study follows **ISO 14064-1 & ISO 14064-2** for GHG accounting, covering **Scope 1, Scope 2, and Scope 3 emissions** (direct, energy indirect, and other indirect emissions). The GHG inventory report is prepared to enhance transparency and ensure compliance with stakeholder communication.



The company has conducted a **Greenhouse Gas (GHG) accounting study** for its operations from **January 1, 2025, to December 31, 2025**. The following methodologies and standards were used for assessment:

1. GHG Protocol Corporate Accounting and Reporting Standard – Greenhouse Gas Protocol
2. Corporate Value Chain (Scope 3) Accounting and Reporting Standard – Greenhouse Gas Protocol



This report also includes necessary data assumptions, exclusions, and explanations for any deviations from methodologies. The scope includes all emissions within the operational boundaries of **Messianic Clothing Pvt. Ltd., Noida**.



The facility holds all applicable pollution consents and operates under government regulations. The study involved collecting and analyzing data as per the above standards, ensuring full compliance with environmental regulations.



### **Organizational Boundary:**

Establishing an **organizational boundary** is essential for accurate greenhouse gas (GHG) emissions reporting.



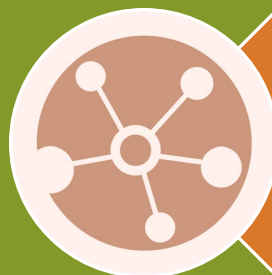
### **Period of Validity:**

This report remains valid until it is superseded by a future revision or until the Company publishes a report that modifies the approach and calculation methodology outlined herein.



### **Frequency of the Report:**

The unit plans to assess its GHG performance annually. This report covers data from January 1, 2025, to December 31, 2025, inclusive of both dates.



### **Contents:**

The report includes data collected method from various sources, and details of emission factors & proper calculation.

# Intended Use & Users of the Report

This report is a voluntary communication to various stakeholders of **Messianic Clothing Pvt. Ltd.**, including customers, management, investors, government agencies, and the public. It serves to monitor GHG emissions performance and to establish a basis for future GHG reduction targets. Stakeholders can track the company's GHG performance over time and refer to this report for future verification of carbon performance, if applicable.

**Scopes covered:** Scope 1, Scope 2 and Scope 3

**Management Details:**

**Mr. Prakul Luthra** | Director

**Verifier:** Mr. Rajiv Chaturvedi

**Verifier Certificate:** ISO 14064-1 & ISO 14064-2

**Certificate No.:** 117874925 / 165946641:

**Issued by:** SGS India Pvt. Ltd.

**Accounting & Verification by:** Green Compliance Services

# Carbon Footprint – GHG Inventory Reporting

## **Quantification of GHG emissions and removals**

GHG emissions are quantified following the GHG Protocol, but removals are not quantified due to lack of verifiable data. No biogenic fuel is used within the operational boundary.

## **Calculation steps:**

- Identification of GHG sources/sinks
- Selection of quantification methodology
- Selection and collection of GHG activity data
- Selection or development of GHG emission factors
- Calculation of GHG emissions



Recycled



Natural

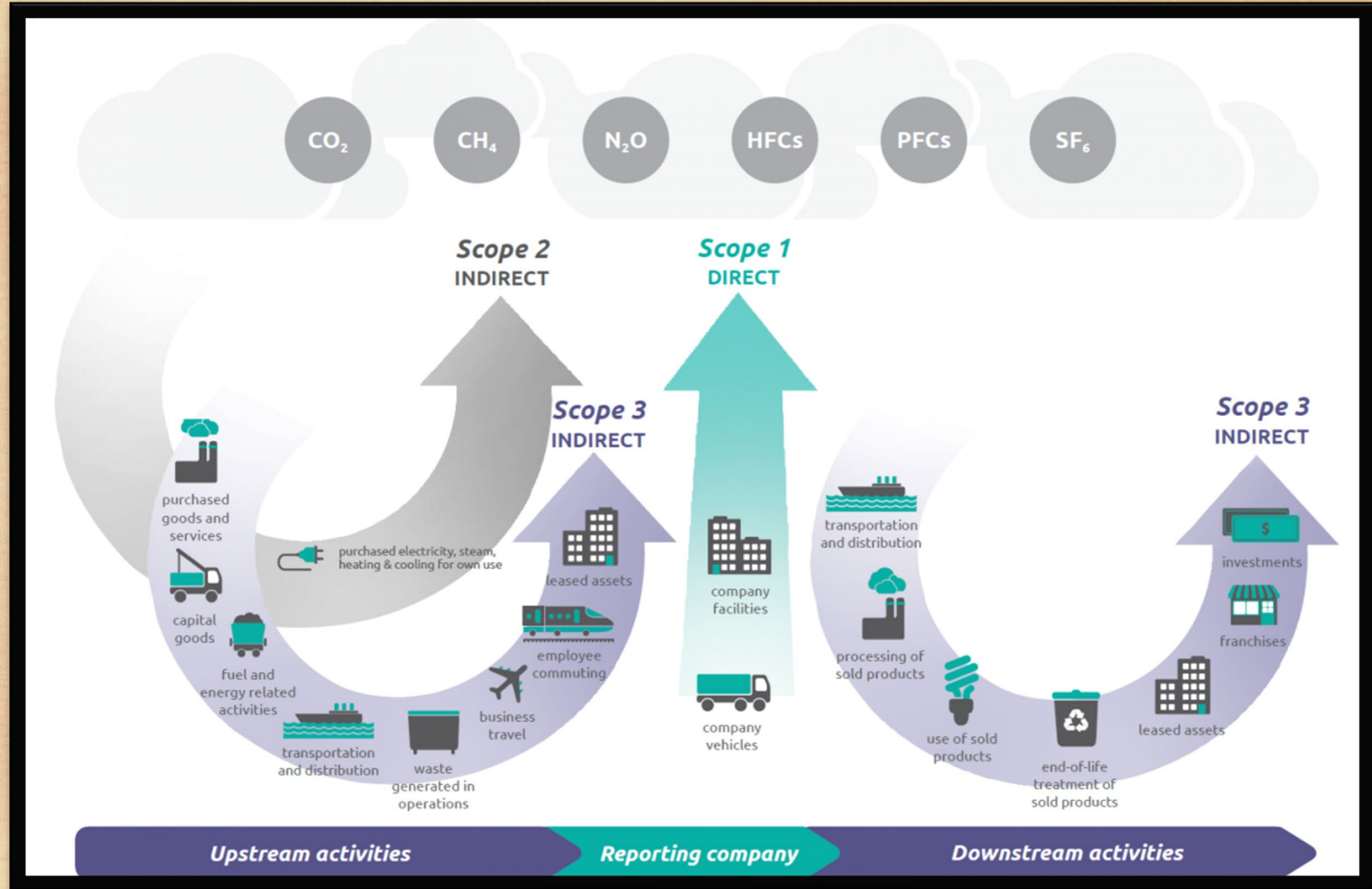


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Carbon friendly

# SCOPE 1, SCOPE 2, SCOPE 3 EMISSIONS

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- **Direct emissions:** Include fossil fuel consumption, PNG gas in DG sets, boilers, and other equipment, HFC replenishment in ACs, and fuel use in vehicles under direct administrative control of the unit.
- **Energy indirect emissions:** Result from the electricity purchased from the grid.
- **Other indirect emissions:** Arise from fuel consumption in vehicles used for material transportation, final product dispatch, and employee commutation.



# Identification of GHG Sources and sinks

<b>Source GHG Unit</b>			
<b>Scope 1 (Direct Emissions)</b>			
<b>Combustion Sources</b>	Stationary combustion in diesel generators	CO <sub>2</sub>	tCO <sub>2</sub>
	Stationary combustion in boiler	CO <sub>2</sub>	tCO <sub>2</sub>
	Refrigerant loss	CO <sub>2</sub>	tCO <sub>2</sub>
	LPG used in canteen	CO <sub>2</sub>	tCO <sub>2</sub>
<b>Mobile Emissions</b>	Fossil fuel consumption in company-owned vehicles	CO <sub>2</sub>	tCO <sub>2</sub>
<b>Scope 2 (Energy Indirect Emissions)</b>			
<b>Purchased electricity from grid</b>	Emissions associated with power generation in the power plants connected to the regional grid	CO <sub>2</sub>	tCO <sub>2</sub>
<b>Scope 3 (Other Indirect Emissions)</b>			
<b>Transportation &amp; Employee Commutation</b>	Fossil fuel consumption in third party vehicles	CO <sub>2</sub>	tCO <sub>2</sub>

*There are no relevant GHG sinks for the operations for this unit.*





# Stationary Combustion

Activity	Activity Data Required	Units
<b>CO<sub>2</sub> emissions from fossil fuel (diesel) Consumption</b>	Diesel Consumed	Litres
	Density of diesel	Kg/lit
	NCV of diesel	TJ/Gg
	Emission factor of diesel(EF)	tCO <sub>2</sub> /TJ
<b>CO<sub>2</sub> emissions from fossil fuel (PNG) Consumption</b>	PNG Consumed	kg
	NCV of PNG	TJ/kT
	Emission factor of PNG (EF)	tCO <sub>2</sub> /TJ
<b>CO<sub>2</sub> Emissions from LPG Consumption</b>	Amount of LPG used	kg
	NCV of LPG	TJ/Gg
	Emission factor of LPG	tCO <sub>2</sub> /TJ

**Remarks:**

*Density of diesel assumed as 0.82 kg/ lit*

## Other Emission Sources

<b>Emission Source</b>	<b>Activity Data Required</b>	<b>Units</b>
HFC emission from refrigerant top up	Amount of HFC top up	Metric tonnes

## Energy Indirect Emissions

<b>Emission Source</b>	<b>Activity Data Required</b>	<b>Units</b>
<b>Purchase of grid electricity</b>	Electricity imported from the grid	kWh
	Emission factor of grid	tCO <sub>2</sub> /kWh

# Mobile Combustion

Emission Source	Activity Data Required	Units
<b>Emissions due to mobile combustion</b>	Fuel Consumed	Litres
	Density of the fuel	Kg/lit
	NCV of the fuel	TJ/Gg
	Emission factor of fuel	tCO <sub>2</sub> /TJ

# Other Indirect Emissions

Emission Source	Activity Data Required	Units
<b>Emissions due to mobile combustion</b>	Fuel Consumed in third party vehicles	Litres
	Density of fuel	Kg/lit
	NCV of fuel	TJ/Gg
	Emission factor of fuel	tCO <sub>2</sub> /TJ



# Messianic Clothing Pvt. Ltd.

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Environmental Data

Year 2025

# Factory Data - 2025

YEAR 2025																
S.No.	Description	GHG Scope	Unit	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1	Shipment	Yearly	Pcs	117168	95117	102338	52974	35728	65820	101665	75249	22486	10066	29225	80727	788563
2	Shipment	Yearly	Kg	26949	21877	23538	12184	10433	19056	37067	29721	8051	2149	10112	24102	225239
3	Production	Yearly	Pcs	83661	78426	89989	59045	50706	72480	77784	74832	22676	26142	43377	95351	774469
4	Production	Yearly	Kg	19242	18038	20697	13580	11662	19998	28674	28777	7616	7208	12797	27269	215558
7	Manpower	Yearly	Number	714	741	690	600	543	582	669	679	287	317	428	525	565
8	Working Days	Yearly	Number	26	24	24	26	26	25	27	25	26	23	25	27	304

# Scope 1 Data - 2025

YEAR 2025																
S.No.	Description	GHG Scope	Unit	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1	<b>PNG consumed in Boiler (100 kg)</b>	Scope 1	SCM	1072	980	1181	504	482	677	1273	1005	556	710	906	1072	10417
2	<b>PNG consumed in Boiler (50 kg)</b>	Scope 1	SCM	528	482	581	248	238	333	627	495	274	350	446	528	5131
3	<b>PNG consumed in Tumbler 1</b>	Scope 1	SCM	1606	1495	1269	872	765	1072	1001	1105	232	134	548	892	10990
4	<b>PNG consumed in Tumbler 2</b>	Scope 1	SCM	1606	1495	1269	872	765	1072	1001	1105	232	134	548	892	10990
5	<b>PNG consumed in Tumbler 3</b>	Scope 1	SCM	1606	1495	1269	872	765	1072	1001	1105	232	134	548	892	10990
6	<b>PNG consumed in DG Set</b>	Scope 1	SCM	56	32	45	96	93	62	103	54	0	0	0	0	541
7	<b>Total PNG consumed</b>	Scope 1	SCM	6474	5979	5614	3464	3109	4287	5007	4868	1525	1461	2997	4275	49060
8	<b>Diesel consumed in DG set</b>	Scope 1	Ltr	317	113	136	397	428	267	450	156	104	140	212	177	2897

Scope	Emission source category	t CO2e
Scope 1	Fuels	106.30
	<b>Total Scope 1</b>	106.30

## Scope 2 Data - 2025

YEAR 2025																
S.No.	Description	GHG Scope	Unit	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1	Government Grid Electricity	Scope 2	KwH	36696	34344	38492	35020	36476	44948	54120	47720	24396	20788	24576	34092	431668

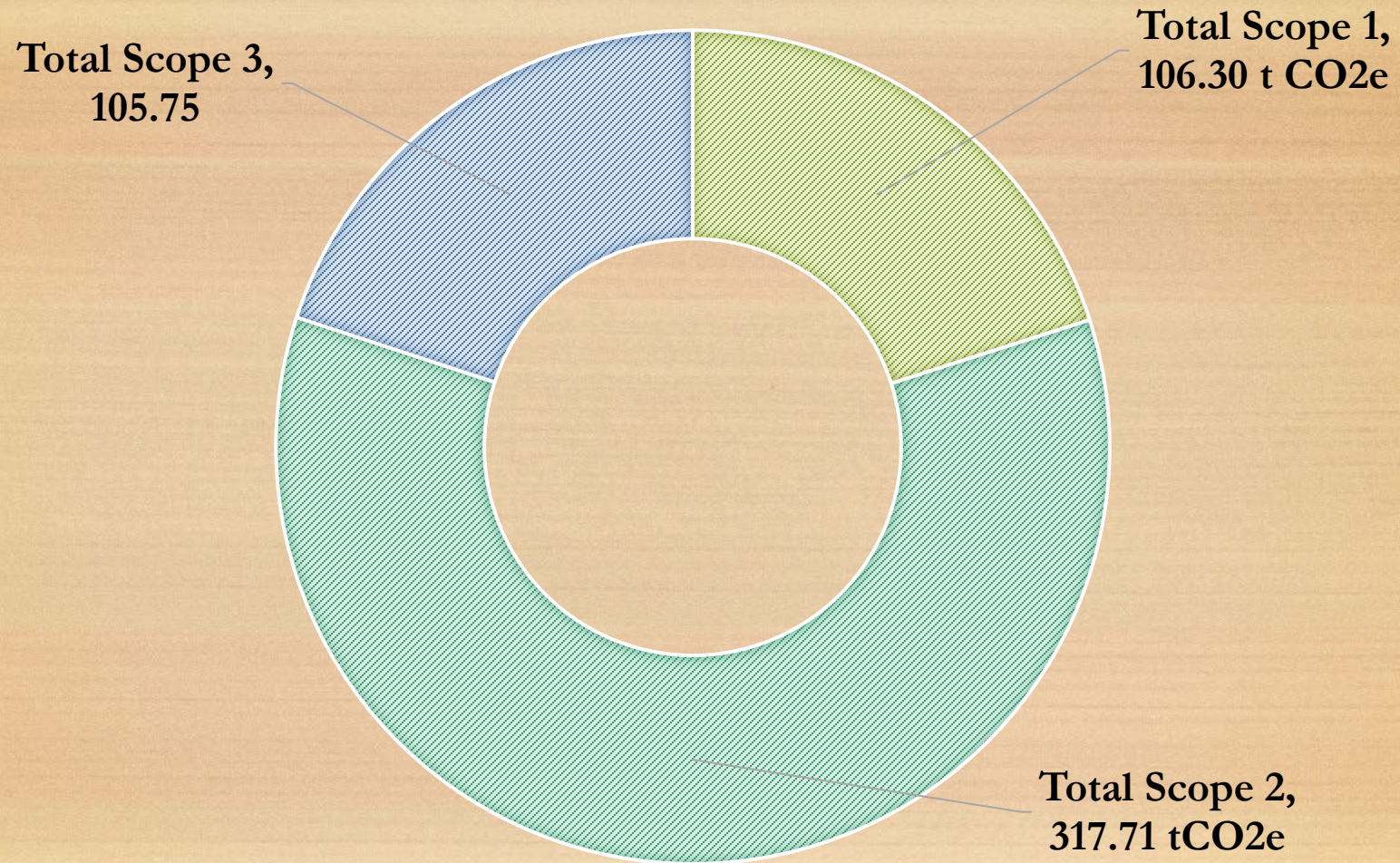
Scope	Emission source category	t CO2e
Scope 2	Emissions from the generation of purchased electricity	317.71
	<b>Total Scope 2</b>	<b>317.71</b>

## Scope 3 Data - 2025

YEAR 2025																
S.No.	Description	GHG Scope	Unit	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1	Shipping Distance Kms By HGV Vehicle - Diesel	Scope 3	Km	1955	1587	1708	884	757	1383	2689	2156	584	156	734	1749	16341
2	Employee Commute By Scooter Electric	Scope 3	Km	1560	1440	1440	1560	1560	1500	1620	1500	1560	1380	1500	1620	18240
3	Employee Commute By Car Petrol	Scope 3	Km	1560	1440	1440	1560	1560	1500	1620	1500	1560	1380	1500	1620	18240
4	Employee Commute By Motorcycle Petrol	Scope 3	Km	55120	50880	50880	55120	55120	53000	57240	53000	55120	48760	53000	57240	644480

Scope	Emission source category	t CO2e
Scope 3	Freighting goods	45.23
	Transmission and distribution losses	4.32
	Employees commuting	56.20
	<b>Total Scope 3</b>	<b>105.75</b>

# Total Scope – Year 2025



SCOPE EMISSION  
NORMALIZED

YEAR 2025

## Normalized GHG Emission - per Kg and per Pc Shipment– Year 2025

Absolute ss	Scope 1 tCO2e	Scope 2 tCO2e	Scope 3 tCO2e	Total Scope tCO2e
Year 2025	106.30	317.71	105.75	529.76
Normalised	Scope 1 tCO2e <u>Per Pc</u>	Scope 2 tCO2e <u>Per Pc</u>	Scope 3 tCO2e <u>Per Pc</u>	Total Scope tCO2e <u>Per Pc</u>
Year 2025	0.0001	0.0004	0.0001	0.0007
Normalised	Scope 1 tCO2e <u>Per Kg</u>	Scope 2 tCO2e <u>Per Kg</u>	Scope 3 tCO2e <u>Per Kg</u>	Total Scope tCO2e <u>Per Kg</u>
Year 2025	0.0005	0.0014	0.0005	0.0024

# COMPARITIVE STUDY

YEAR 2023 - 2025

## Absolute & Normalized Air Emission Trend

Emission	Scope 1 tCO2e	Scope 2 tCO2e	Scope 3 tCO2e	Total Scope tCO2e
Year 2023 Absolute	86.50	277.04	224.48	588.02
Year 2023 Normalized	0.0001	0.0004	0.0003	0.0008
Emission	Scope 1 tCO2e	Scope 2 tCO2e	Scope 3 tCO2e	Total Scope tCO2e
Year 2024 Absolute	150.05	382.53	253.69	786.27
Year 2024 Normalized	0.0002	0.0005	0.0003	0.0009
Emission	Scope 1 tCO2e	Scope 2 tCO2e	Scope 3 tCO2e	Total Scope tCO2e
Year 2025 Absolute	106.30	317.71	105.75	529.76
Year 2025 Normalized	0.0001	0.0004	0.0001	0.0007

# RECOMMENDATIONS

01

### **Improve Energy Efficiency in Operations**

Implement energy-efficient equipment, optimize production processes, and conduct regular energy audits to reduce electricity consumption, thereby lowering Scope 2 emissions.

02

### **Adopt Renewable Energy Sources**

Increase the use of renewable electricity such as solar power or green energy procurement to reduce emissions associated with purchased electricity.

## Suggestions to reduce GHG emission

03

### **Optimize Fuel Consumption in Direct Operations**

Improve maintenance of boilers, generators, and company vehicles, and adopt fuel-efficient technologies to reduce Scope 1 emissions.

04

### **Promote Sustainable Transportation and Logistics**

Encourage carpooling, public transport, or shuttle services for employees. Optimize freight routes and reduce empty truck runs or shift to lower-emission logistics options to reduce Scope 3 emissions.

# END OF REPORT