

GHG INVENTORY
ACCOUNTING
CARBON FOOTPRINT

YEAR 2025

Richa Fashion Private
Limited

A-115, Sector 65 , Noida, UP





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

Richa Fashion Private Limited

Established on March 10, 2011, Richa Fashion Private Limited is a leading export house specializing in the manufacturing and trading of fashion garments and accessories. Since its inception, the company has made a mark in the international market, particularly in the export of ladies' woven garments.

Its dedication to quality, excellence, and safety has played a key role in building a strong global reputation.

Guided by visionary leaders, the company continues to drive strategic growth and innovation in the industry.

The company emphasizes creating a comfortable work environment with a focus on health, safety, and sustainability.



"Sustainability is not just a choice; it is our responsibility."

From the very beginning, we have been committed to not only delivering high-quality fashion but also making a meaningful impact on the environment and society. As the industry progresses, we continue to prioritize sustainability by minimizing our carbon footprint, adopting ethical sourcing practices, and driving innovation in eco-friendly manufacturing.

Our vision is to seamlessly merge craftsmanship with responsible choices, ensuring that our legacy paves the way for a more sustainable and conscientious future in fashion.

- Mr. Pranav Verma
Director, Richa Fashion Pvt Ltd

CARBON FOOTPRINT REPORT

What is a Carbon Footprint?

A carbon footprint refers to the total amount of greenhouse gas (GHG) emissions—mainly carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O)—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 CO₂ 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 CO₂ emissions.

IMPORTANCE OF GHG REPORTING

1. Climate Change Mitigation

Carbon emissions, particularly CO₂, 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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Richa Fashion Private Limited



- Richa Fashion Private Limited has been a trusted name in garment exports, supplying high-quality ready-made apparel to leading European brands.
- The company's infrastructure includes a head office in Noida, Uttar Pradesh, with an in-house design team capable of creating products tailored to diverse market requirements.
- The company maintains in-house laboratories for extensive testing and places special emphasis on sustainability, being highly rated on Environmental, Social, and Governance (ESG) initiatives.
- Compliance is a cornerstone of Richa Fashion's operations. The company emphasizes environmental sustainability and corporate social responsibility.



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अवरोधक उपकरणों को खोलने से सावधान रहें।
1. अवरोधक उपकरणों को खोलने से पहले सभी उचित सुरक्षा उपायों को अपनाएं।
2. उपकरणों को खोलने से पहले सभी उचित सुरक्षा उपायों को अपनाएं।
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SAFETY INSTRUCTIONS

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RESTRICTED AREA
खतरनाक क्षेत्र
इस क्षेत्र में प्रवेश करने से
इस क्षेत्र में प्रवेश करने से
NO SMOKING
NO DRINKING
NO EATING

D. B. Bhowra





















ABOUT THE REPORT

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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 **Richa Fashion Private Limited, 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.



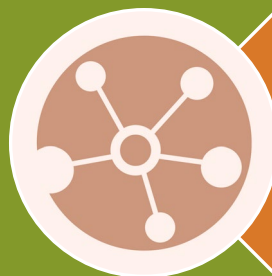
Period of Validity:

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 **Richa Fashion Private Limited**, 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. Pranav Verma | 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

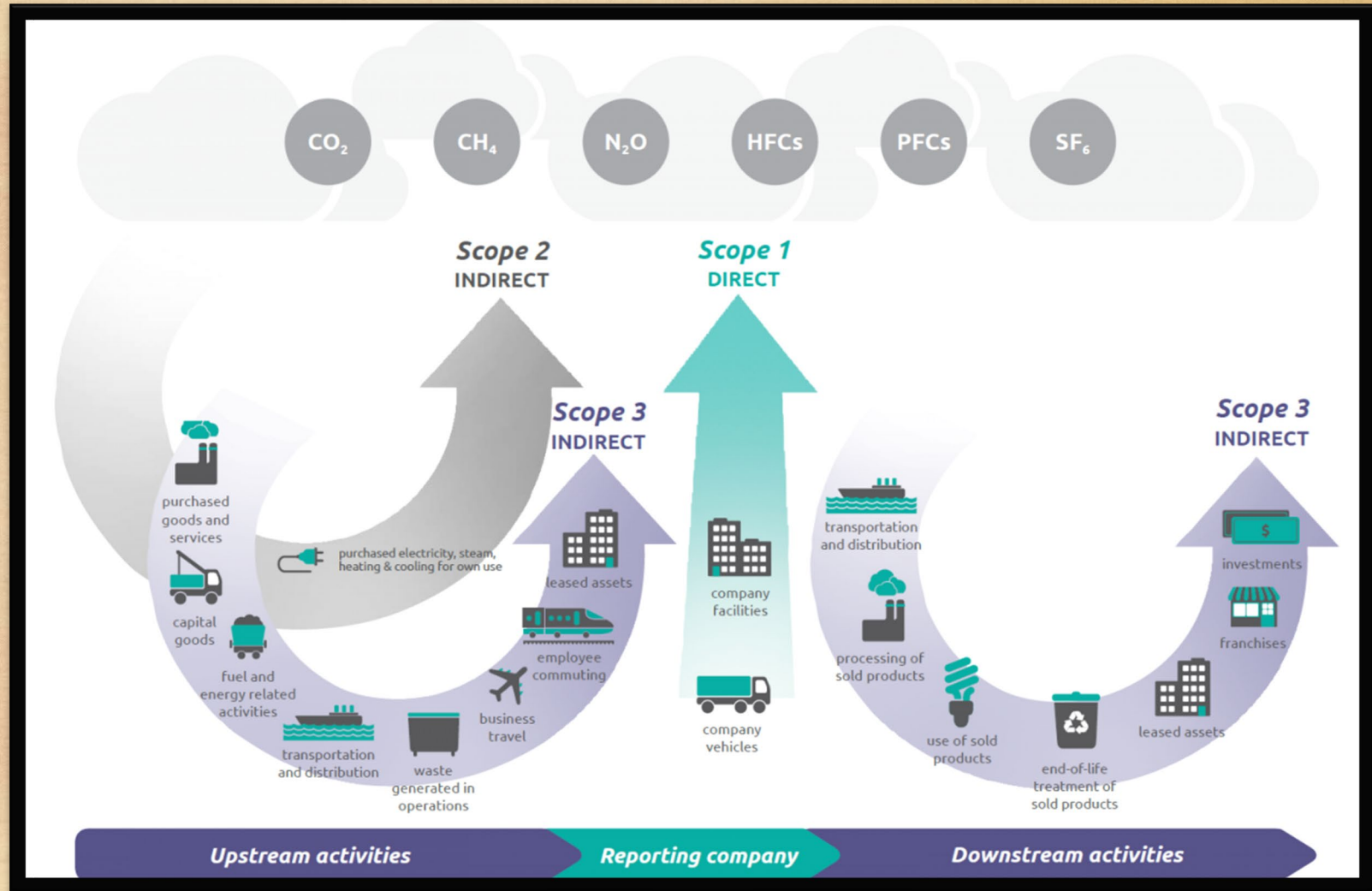


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Carbon friendly

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

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

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





Stationary Combustion

Activity	Activity Data Required	Units
CO₂ emissions from fossil fuel (diesel) Consumption	Diesel Consumed	Litres
	Density of diesel	Kg/lit
	NCV of diesel	TJ/Gg
	Emission factor of diesel(EF)	tCO ₂ /TJ
CO₂ emissions from fossil fuel (PNG) Consumption	PNG Consumed	kg
	NCV of PNG	TJ/kT
	Emission factor of PNG (EF)	tCO ₂ /TJ
CO₂ Emissions from LPG Consumption	Amount of LPG used	kg
	NCV of LPG	TJ/Gg
	Emission factor of LPG	tCO ₂ /TJ

Remarks:

Density of diesel assumed as 0.82 kg/ lit

Other Emission Sources

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

Energy Indirect Emissions

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

Mobile Combustion

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

Other Indirect Emissions

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



Richa Fashion Private Limited

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	205333	158862	102192	42222	64461	54811	47899	20137	27931	19743	59884	96040	899515
2	Shipment	Yearly	Kg	51333	39716	25548	10556	16115	13703	11975	5034	6983	4936	14971	24010	224879
3	Production	Yearly	Pcs	85927	70206	56398	40608	47580	36206	35142	45876	78615	52936	60883	69372	679749
4	Production	Yearly	Kg	21482	17552	14100	10152	11895	9052	8786	11469	19654	13234	15221	17343	169940
7	Manpower	Yearly	Number	647	613	562	505	486	465	460	463	548	540	541	583	534
8	Working Days	Yearly	Number	27	24	24	26	27	25	27	23	26	22	25	27	303

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	PNG consumed in Boiler	Scope 1	SCM	6365	4737	4270	3037	3817	1869	2530	2701	3005	2979	4934	4830	45073
2	PNG consumed in Tumbler	Scope 1	SCM	1497	1114	1004	714	898	439	595	635	707	701	1160	1136	10601
3	PNG consumed in DG Set	Scope 1	SCM	2377	1770	1595	1135	1426	698	945	1009	1123	1113	1843	1804	16837
4	Total PNG consumed	Scope 1	SCM	10239	7621	6869	4886	6141	3006	4070	4346	4835	4792	7937	7770	72512
5	Diesel consumed in DG set (320 KVa)	Scope 1	Ltr	150	118	292	216	462	238	552	175	186	49	52	147	2637
6	Refrigerant AC R32	Scope 1	Kg	0	0	0	2	0	2	0	0	0	0	0	0	4
7	LPG (Canteen)	Scope 1	Kg	38	38	38	38	38	38	38	38	38	38	38	38	456
8	Factory Vehicle CNG - Small Car	Scope 1	Kg	3	3	3	2	2	3	3	3	2	2	2	3	30
9	Factory Vehicle CNG - Small Truck	Scope 1	Kg	46	123	112	78	85	43	76	47	56	63	8	0	737
10	Factory Owned Vehicle - Petrol	Scope 1	Ltr	5	10	5	5	10	5	10	5	10	5	5	15	90
11	Factory Owned Vehicle - Electric	Scope 1	KwH	306	267	261	293	295	233	282	218	243	216	240	286	3141

Scope	Emission source category	t CO2e
Scope 1	Fuels	154.39
	Refrigerants	2.70
	Factory Owned Vehicle	0.18
	Total Scope 1	157.27

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	27922	17330	13040	17120	23864	23840	25976	22716	29468	21296	22794	24026	269392
2	Solar Electricity	Scope 2	KwH	11354	15252	23345	23580	21724	18686	16962	14776	18210	15017	11522	9533	199961

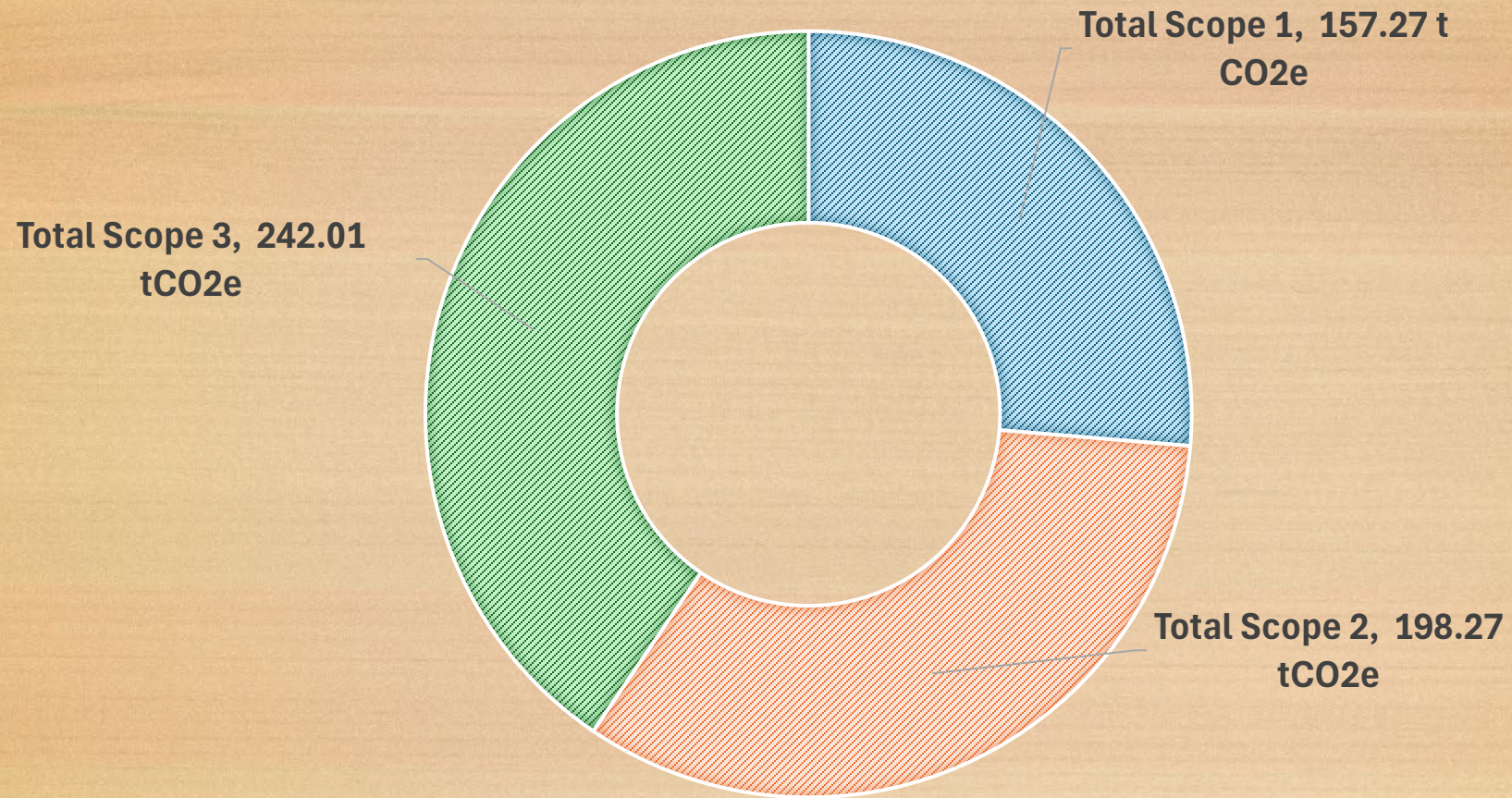
Scope	Emission source category	t CO2e
Scope 2	Emissions from the generation of purchased electricity	198.27
	Total Scope 2	198.27

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 CNG Vehicle	Scope 3	Km	4800	1600	1600	6400	8000	14400	11200	6400	1600	6400	6400	14400	83200
2	Employee Commute By Car Petrol	Scope 3	Km	2484	2208	2208	2392	2484	2300	2484	2116	2392	2024	2300	2484	27876
3	Employee Commute By Car CNG	Scope 3	Km	3132	2784	2784	3016	3132	2900	3132	2668	3016	2552	2900	3132	35148
4	Employee Commute By Motorcycle Petrol	Scope 3	Km	26730	23760	23760	25740	26730	24750	26730	22770	25740	21780	24750	26730	299970

Scope	Emission source category	t CO2e
Scope 3	Freighting goods	210.32
	Transmission and distribution losses	2.69
	Employees commuting	29
	Total Scope 3	242.01

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	157.27	198.27	242.01	597.55
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	0.0002	0.0002	0.00027	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	0.0007	0.0009	0.0011	0.0027

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)	156.07	245.04	165.02	566.13
Year 2023 (Normalized)	0.0001	0.0001	0.0001	0.0003
Emission	Scope 1 tCO2e	Scope 2 tCO2e	Scope 3 tCO2e	Total Scope tCO2e
Year 2024 (Absolute)	155.09	251.58	133.58	540.25
Year 2024 (Normalized)	0.0001	0.0002	0.0001	0.0005
Emission	Scope 1 tCO2e	Scope 2 tCO2e	Scope 3 tCO2e	Total Scope tCO2e
Year 2025 (Absolute)	157.27	198.27	242.01	597.39
Year 2025 (Normalized)	0.0002	0.0002	0.0003	0.0007

RECOMMENDATIONS

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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

Opting for green electricity can significantly reduce Scope 2 emission.

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