2025

GHG Emission Report

MELZER
CHEMICALS PVT LTD

GHG EMISSION REPORT CY-2025

MELZER
CHEMICALS PVT LTD

Issue: - 05
Issue date: - 31/03/2026

Document	Reviewed By	Approved By
Name	Rajendra Gunjal	Chandrasen Ghatge
Designation	GM-Quality	Director

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1) Letter from our leader

Dear Esteemed Colleagues,

I am pleased to present to you the Greenhouse Gas (GHG) Inventory Report for Melzer Chemicals Pvt Ltd from January 2025 to December 2025.

This report is a critical component of our ongoing commitment to environmental responsibility, regulatory compliance, and alignment with global sustainability goals.

This is our second attempt to map our GHG and make an honest effort to understand our current position and prepare a plan to reduce the emissions as per define global climate goal.

The findings of this GHG Inventory Report underscore the importance of continuing to address our environmental impact. While we have made progress, there is ample opportunity for improvement. It is essential that we remain committed to reducing our carbon footprint as part of our broader sustainability goals.

In line with this commitment, we have set the following reduction targets:
to achieve a 50% reduction in Scope 1 and Scope 2 emissions by 2035, and to reach net-zero emissions by 2050.

Thank you for your continued dedication to environmental stewardship.

MELZER CHEMICALS PVT. LTD. PUNE

Mr. Chandrasen Ghatge
Director
Place: Pune

Date: 17/02/2026

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2) GHG Assurance Certificate from TUV SUD

BESCHEINIGUNG ◆ CONFIRMATION ◆ BESCHEINIGUNG ◆ CONFIRMATION ◆ BESCHEINIGUNG ◆ CONFIRMATION

TÜV SÜD South Asia

GHG Assurance Statement

Statement No –VVB-VER-26/026/00
Report No – 3153234108 / ET-007851
The Greenhouse Gas Assertion reported by

MELZER CHEMICALS PVT LTD

Melzer Chemicals Private Limited
Plot No. A-11, A-11/B, A-29, A-30, A-31 & W-10, MIDC Kurkumbh Tal- Daund, Dist- Pune, Pin- 413802, Maharashtra, India.

for the calendar year 2025 for its operation at the above mentioned location was verified as per **ISO 14064-3:2019** in compliance with: The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard.

We hereby confirm that based on the Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard for the monitoring period of calendar year CY 2025 (01st January 2025 – 31st December 2025).

Scopes opted for Demonstration: ☒ **Scope I** ☒ **Scope II** ☒ **Scope III**

CY 2025		
Total GHG Emission Reported	**25,854.23**	**tCO_2e**
Scope 1 – Direct GHG Emissions	**1,132.79**	**tCO_2e**
Scope 2 – Electricity Indirect GHG Emissions	**1,549.77**	**tCO_2e**
Scope 3 – Other Indirect GHG Emissions	**23,171.67**	**tCO_2e**
Category 1: Purchased goods and services	16,075.03	tCO_2e
Category 2: Capital goods	608.05	tCO_2e
Category 3: Fuel- and energy-related activities (not included in scope 1 or scope 2)	2.08	tCO_2e
Category 4: Upstream transportation and distribution	1,545.21	tCO_2e
Category 5: Waste generated in operations	304.76	tCO_2e
Category 6: Business travel	13.47	tCO_2e
Category 7: Employee commuting	93.07	tCO_2e
Category 9: Downstream transportation and distribution	4,530.00	tCO_2e

GHG Sources: ☒ CO_2 ☒ CH_4 ☒ N_2O ☒ HFCs ☐ PFCs ☐ SF_6 ☐ NF_3

Level of assurance: Limited level

Melzer Chemicals Private Limited for the calendar year 2025 is verified by TÜV SÜD team to a limited level of assurance, consistent with the agreed verification scope, objectives, and criteria.

Level of materiality: The materiality required of this verification was considered by TÜV SÜD to be ±10% for deviations in sampled data.

This assurance statement is only valid for the mentioned scope and in combination with the objectives, explanations and criteria for evaluation specified in the following pages 2 to 4 of this verification statement.

Issued on: 16-04-2026

Digitally signed by
TUSHAR CHAUDHARI
Date: 2026.04.16
18:52:33 +05'30'

Head, VVB for 'Environment and Energy'
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TÜV

3) About this report

This Greenhouse Gas (GHG) Sustainability Report presents Melzer's carbon emissions and environmental performance for the reporting period of January 1, 2025, to December 31, 2025. The purpose of this report is to provide transparent and credible information to our stakeholders, including customers, regulatory bodies, partners, and employees, regarding our efforts to measure, manage, and reduce our carbon footprint.

The GHG inventory has been developed in accordance with internationally recognized standards, including the GHG Protocol, and has been verified and assured by TUV SUD South Asia Pvt. Ltd. It covers Scope 1 and Scope 2 emissions, and where relevant, includes selected Scope 3 categories. Emissions data was gathered from internal systems, metering devices, utility bills, and validated activity records.

This report also outlines the intensity metrics used to evaluate performance over time and includes a comparison of our carbon intensity between 2024 & 2025. Where applicable, emission reduction initiatives and projects are highlighted to showcase our commitment to continuous improvement.

The report has been prepared by Melzer's sustainability and environmental management teams and is intended for both internal review and external communication. It serves as a baseline for tracking progress against future reduction targets and broader sustainability goals.

4) About Melzer

Melzer Chemicals is a specialty chemicals manufacturer based in Pune, India, established in the Year 2000 and serving diverse industries both domestically and globally. Currently Melzer has multiple manufacturing plants located in MIDC, Kurkumbh, Maharashtra and its Corporate office is in Pune – Maharashtra.

Melzer also has an Innovation Centre in Navi Mumbai and a Microbial Lab catering specifically to the needs of our customers.

Melzer Chemicals Pvt. Ltd. is a leading manufacturer of Biocides, Polymers, and Specialty Chemicals, serving a broad spectrum of Industrial Applications. We also cater to the Industrial & Institutional (I&I) segment with an extensive range of specialty Biocides and Additives.

In addition, Melzer offers a comprehensive line of Preservatives tailored for nearly all Aqueous Industrial Products. For the Personal Care industry, our portfolio includes a wide selection of preservatives, conditioning agents, and other high-performance active ingredients.

Our largest product portfolio is dedicated to the Oil & Gas sector, where we supply a wide range of specialty and performance-enhancing chemicals. Melzer is recognized globally for adhering to the highest safety standards in the production of all our products.

At Melzer, our strength lies in complete control over the product specifications.

Our in-house application laboratories validate product performance and suitability prior to market launch, ensuring reliability and customer satisfaction.

We believe our greatest asset is our human resources, supported by state-of-the-art manufacturing facilities and modern laboratories.

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Product Offering: We take pride in offering wide range of cost to quality products including but not restricted to

- ✓ Synthesis,
- ✓ Biocides
- ✓ Preservatives
- ✓ Water Treatment Polymers
- ✓ Various Specialty Chemicals

Industries catering to Our extensive product portfolio includes a diverse range of specialty chemicals catering to various industries, including but not limited to:

- ✓ Oil & Gas Exploration
- ✓ Waste water Treatment
- ✓ Paper, Leather, Textiles
- ✓ Paints, Printing inks
- ✓ Adhesives
- ✓ Wood, Personal care
- ✓ Starches, Poultry
- ✓ Aqua Culture
- ✓ MWF

R&D: We invest significantly in R&D to drive innovation and develop cutting-edge specialty chemicals. Our dedicated team of scientists and researchers continually explore new formulations, applications, and technologies to meet industry demands.

Customized Solutions We collaborate closely with our customers to understand their unique requirements and offer tailored solutions. Our technical expertise allows us to customize formulations, optimize product performance, and provide exceptional customer support.

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Global Presence We have established a strong global presence with a widespread distribution network. This enables us to serve customers through different geographies promptly and efficiently, ensuring timely delivery of our specialty chemicals.

Sustainability and Environmental Responsibility, we are committed to sustainability and environmental responsibility in all aspects of our business. Through responsible sourcing of raw materials, efficient manufacturing processes, and eco-friendly formulations, we strive to minimize our environmental footprint. Our sustainability initiatives also focus on waste reduction, energy conservation, and compliance with relevant environmental regulations. **Together for sustainability (TFS)** is certified by Deutsch Quality System (DQS) and achieved a score of 94.5%. **EcoVadis Bronze Medal for 70th % percentile**.

Quality Assurance: Quality is at the forefront of our operations. We maintain strict quality control measures throughout our manufacturing processes to ensure that our specialty chemicals meet the highest industry standards. Our quality assurance practices encompass raw material selection, process optimization, product testing, and continuous improvement.

Certifications and Compliance We adhere to international standards and hold relevant certifications to demonstrate our commitment to quality and regulatory compliance. Some of our certifications include:

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Our Certificates

ISO 9001:2015 – Quality Management

Melzer is certified to ISO 9001:2015, which ensures our operations follow a structured quality management approach. This standard promotes consistency, process efficiency, and continual improvement across all departments, enabling reliable data collection and performance tracking — essential for accurate and transparent GHG reporting.

ISO 14001:2015 – Environmental Management System

ISO 14001:2015 certification demonstrates our commitment to identifying, managing, and reducing environmental impacts. target-setting, and reduction initiatives by integrating environmental considerations into operational planning and decision-making.

ISO 45001:2018 – Occupational Health and Safety Management Systems

With ISO 45001:2018 certification, Melzer prioritizes employee health, safety, and well-being. A safe and resilient workforce supports the consistent implementation of environmental practices and GHG initiatives, ensuring that sustainability is embedded in all levels of our operations.

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GMP

Melzer holds GMP certification, ensuring that our products are consistently manufactured and controlled according to rigorous quality standards. GMP supports our sustainability goals by promoting resource efficiency, waste reduction, and strict process control — all of which contribute to minimizing environmental impact and enhancing our GHG performance

Together For Sustainability

As a member of Together for Sustainability (TFS), Melzer aligns with global best practices for sustainable supply chain management. TFS membership enhances our ability to monitor environmental and social risks, ensure supplier compliance, and drive measurable improvements in sustainability performance across procurement and operations.

Ecovadis

Melzer has been rated by Ecovadis, a globally recognized platform for sustainability performance. This assessment evaluates our practices in environmental management, labor and human rights, ethics, and sustainable procurement. Our rating reflects a strong commitment to continuous improvement and responsible business practices across the value chain.

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Halal

Melzer has Halal Certification, confirming product is from prohibited substances (like alcohol, non-halal animal fats), manufactured ethically with high hygiene, and suitable for Muslim consumers and industries (food, pharma, cosmetics) requiring pure inputs, expanding market access and building trust by guaranteeing compliance with Islamic law and promoting clean, safe, transparent production.

Kosher

Melzer holds Kosher certification, confirming that our products meet strict standards of cleanliness, quality, and ingredient sourcing in line with Jewish dietary laws. This certification reflects our commitment to traceability and controlled manufacturing practices, contributing to overall supply chain transparency and environmental responsibility.

REACH

Melzer complies with the European Union's REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) regulation, ensuring the safe use of chemicals throughout the lifecycle of our products. REACH registration supports our commitment to regulatory compliance, and responsible chemical management in line with sustainability objectives.

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CDP

Melzer has been evaluated through the CDP (Carbon Disclosure Project). This assessment reviews our approach to climate change, including GHG emissions management, energy use, risk mitigation, and environmental governance. Our rating reflects a commitment to measuring, managing, and reducing our environmental impact, while continuously strengthening sustainable practices across our operations and value chain.

Final or conclusion statement as a leading/competitive specialty chemicals manufacturer, we provide innovative solutions that enhance the performance, functionality, and sustainability of products across various industries. With our expertise, commitment to quality, and customer-centric approach, we aim to be your trusted partner in specialty chemicals. Contact us today to discover how our products can add value to your business.

Corporate Values and Vision

Sustainability is central to Melzer's operations—balancing human well-being and environmental care. This philosophy has been translated into a shared Vision across the organization, with each member aligning their efforts according to their role, fostering coordinated teamwork towards common goals.

In a short span, this Vision has already led to notable innovations in the field, which have been well received by customers—an achievement that Melzer acknowledges with modest pride.

Guided by this Vision, Melzer has also initiated programs aimed at reducing Biocide consumption at the customer's end through the responsible use of high-quality materials. This approach addresses a pressing concern: the threat to long-term sustainability caused by the excessive use of Biocides, Polymers, and Specialty Chemicals, often driven by the pursuit of performance through higher dosages.

Melzer remains committed to offering solutions that are not only effective but also sustainable—for its customers, its people, and the planet.

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Admin Block

Manufacturing & Storage block

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Manufacturing Area

Warehouse Area

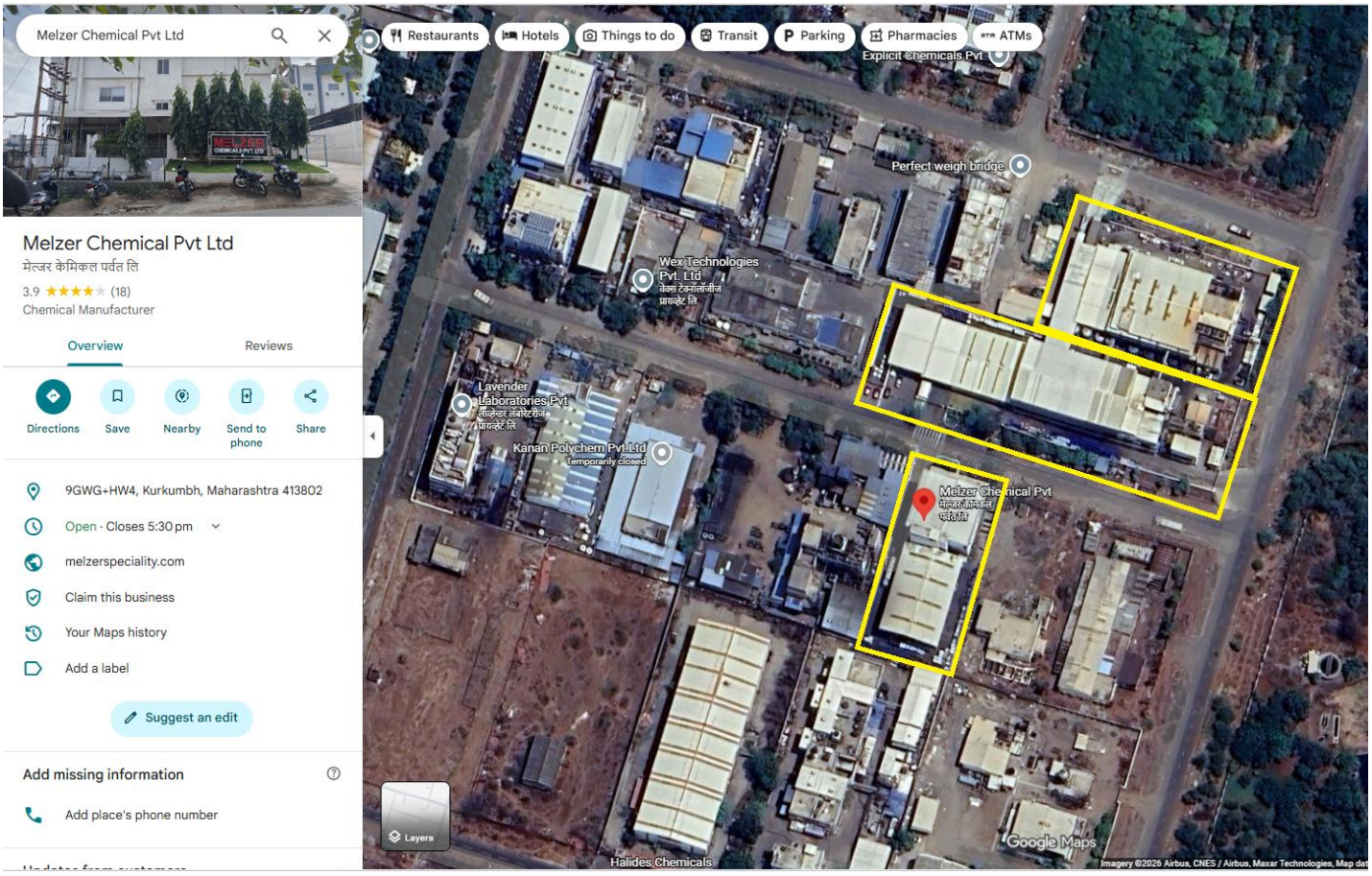
5) Organization Boundary:

To ascertain the operational boundary, the **Melzer Chemicals Pvt. Ltd.** Plot No. A-11, A-11/B, A-29, A-30, A-31 & W-10, MIDC Kurkumbh, Tal- Daund, Dist- Pune, Pin- 413802, Maharashtra. has identified several sources of emissions of Greenhouse Gas (GHG) associated with its operations including carbon dioxide (CO_2)

Reporting base year is considered CY 2024 & control approach is as “Operational Control”.

Location:

https://maps.app.goo.gl/XfkWNFYM8mdmzYQh8



6) Reporting Boundary

The annual GHG Inventory – Scope 1, Scope 2, and Scope 3 in accordance with the requirements of GHG Protocol –the principles & requirements of Corporate Standard and Scope-3 standard, in all material respects.

Melzer is taken for reporting boundary as per below during the reporting period

Sr. No.	GHG Emission Category	Criteria
1	**Scope-I** **Direct GHG emissions tCO2e Method: Activity data x Emission Factor**	
1.1	Direct emissions from Stationary combustion	Significant
1.2	Direct emission from mobile combustion	Significant
1.3	Direct process emissions & removals arise from industrial process	Not applicable
1.4.1	Direct Fugitive emissions arise from the release of greenhouse gases in anthropogenic systems for CO2 refilling.	Significant
1.4.2	Direct Fugitive emissions arise from the release of greenhouse gases in anthropogenic systems for AC gas refilling	Significant
2	**Scope-II** **Indirect GHG Emissions from imported energy**	
2.1	Indirect Emissions from imported electricity	Significant
2.2	Indirect Emissions from imported energy	Not applicable

3	**Scope-III** **All indirect emissions (not included in scope 2) that occur in the value chain of the reporting company, including both upstream and downstream emissions**	
3.1	Purchased goods & Services- Spend Based Method	Significant
3.1.1	Purchased goods & Services- Electronics repair & Maintenance	
3.1.2a	Purchased goods & Services- Raw material from Domestic	
3.1.2b	Purchased goods & Services- Raw material from Import	
3.1.3	Purchased goods & Services- Packing material from Domestic	
3.1.4	Purchased goods & Services- Service	
3.1.5	Purchased goods & Services- Admin	
3.1.6	Purchased goods & Services- Laboratory	
3.2	Capital goods	Significant
3.2.1	Emissions from capital goods from Domestic	Not applicable
3.2.2	Emissions from capital goods from Import	Significant
3.3	Fuel- and energy related activities (not included in scope 1 scope 2)	
3.4	Upstream Transportation & Distribution	Significant
3.4.1	Emissions from upstream transport and distribution for goods- Raw material & Packing material from domestic market	Significant
3.4.2	Emissions from upstream transport and distribution for goods- Raw material & Packing material from international market	Significant
3.5	Waste generated in Operation	Significant

3	**Scope-III** **All indirect emissions (not included in scope 2) that occur in the value chain of the reporting company, including both upstream and downstream emissions**	
3.6	Business travel	Significant
3.7	Employee Commuting	Not applicable
3.8	Upstream Leased assets	Significant
3.9	Downstream transportation and distribution	
3.9.1	Downstream transportation and distribution-Local	
3.9.2	Downstream transportation and distribution-Export	
3.9.3	Downstream transportation and distribution-Rejected product returned from customer	Not applicable
3.10	Processing of sold products	Not applicable
3.11	Use of sold products	Not applicable
3.12	End-of-life treatment of sold products	Not applicable
3.13	Downstream leased assets	Not applicable
3.14	Franchises	Not applicable

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We Melzer chemicals Pvt Ltd are committed to following the five principles of GHG accounting

1) Relevance:

The inventory captures emissions and removals that are significant to the organization's operations and that addressed the needs of key stakeholders such as Customers, Suppliers, investors, Government & NGOs. Focus is given to including indirect emissions that meaningfully impact the organization's overall environmental footprint.

2) Completeness:

All relevant GHG emissions and removals within the defined organizational and operational boundaries have been accounted for. This includes both direct and significant indirect emissions to ensure that the inventory provides a complete and balanced representation of the organization's climate impact.

3) Consistency:

Consistent methods and data sources have been applied across reporting periods to allow for accurate comparisons over time. Where changes in calculation methods, boundary definitions, or data inputs have occurred, these have been documented to ensure continuity and clarity in the interpretation of results.

4) Transparency:

All assumptions, data sources, methodologies, and exclusions are clearly documented and disclosed. This openness allows users to fully understand the basis of the inventory and supports verification and audit processes.

5) Accuracy:

Efforts have been made to ensure that all reported data is as accurate and reliable as practicable. Emission estimates are based on credible data sources, scientifically valid calculation methods, and recognized emission factors. Inclusion of relevant indirect emissions was assessed to ensure that the inventory totals are reasonably free from material misstatements or uncertainty.

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Methodology:

Data for the various GHG sources was maintained by the respective departments of the Company in excel spreadsheet format and was checked with the source documents.

GHG source type	GHG activity data	Evidence Source	Frequency of collection
Scope-I			
Boiler & Thermic Fluid	Light Diesel Oil Quantity (Liters)	Fuel Bills (SAP)	As Required
DG set	Diesel (Liters)	Fuel Bills (SAP)	As Required
MCPL Company Cars & Forklift	Diesel Quantity (Liters)	Fuel Bills through HPCL Smart Card System	As Required
AC, Dryer, Cooler, Refrigerator, Freeze, Chiller, CO_2 fire extinguishers	CO_2 Refill Quantity (Kg)	Amount Submitted by Vendor	Monthly
Scope-II			
Purchased Electricity	Electricity Consumption (kWh)	Electricity Bills	Monthly
Scope-III			
Purchased Goods and Services	1) Raw material: Basic Organic Chemicals 2) Consumables: Electronics repairs & Maintenance 3) Packaging Material - All other Plastic product manufacturing	SAP record Spend Based Method: USEEIO 2024	As Required
	4) Services 5) Admin 6) Laboratory		

Capital Goods	All other miscellaneous general purposes, chemical manufacturing	SAP record Spend Based Method: USEEIO 2024	As Required
Fuel- and Energy-Related Activities Not Included in Scope 1 or Scope 2	Well to tank farm. Emission factors consider for LDO, Diesel & Petrol.	Distance & Weight of product based on vendor location & bills Distance based method	As Required
Upstream Transportation and Distribution	Raw material suppliers, Consumables, Packing material suppliers, Capex material suppliers etc.	Invoice / SAP record Distance based method	As Required
Waste Generated in Operations	Process residue, ETP Sludge, Empty Plastic barrel, E-waste	Actual generation at manufacturing site	Monthly
Business Travel Air travel	Class & Sectors/ Passenger Kilometers (per Km)	Excel sheet based on Flight bills Distance based method	Monthly
Employee Commuting	Own car, Bike, Bus, Bicycle	Individual form No.HR/QF/044 & Ascent software Distance based method	Yearly
Downstream Transportation & Distribution	Approved transporter vehicle	Transporter bill Distance based method	As Required

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7) Quantified GHG Inventory of Emission

The reported GHG emissions for the reporting period for the year ended December 31, 2025

GHG Sources: CO_2

Reporting year 01st January 2025 to 31 December 2025

Sr. No.	GHG Emission Category	Applicability / Significant	GHG Emission in tCO_2e	Remarks
1	**Scope-I**			
1.1	Direct emissions from Stationary combustion	Significant	1102.41	DG Set 250 KVA & Boiler of 1.0 & 0.6 Ton & 1Thermic Fluid Heater (1 Lac KCal/hr)
1.2	Direct emission from mobile combustion	Significant	29.53	Company Vehicles: 6 Nos & Forklift-1 No.
1.3	Direct process emissions & removals arise from industrial process	Not applicable	0.00	
1.4.1	Direct Fugitive emissions arise from the release of greenhouse gases in anthropogenic systems for CO2 refilling	Significant	0.00	Fire Extinguishers: 20 Nos, CO2 cylinder: 1 No, Hydrogen Cylinder: 1 No.
1.4.2	Direct Fugitive emissions arise from the release of greenhouse gases in anthropogenic systems for AC gas refilling	Significant	0.85	AC: 36 Nos, Air Compressor Refrigerant Air dryer: 2 Nos, Fridge: 7 Nos, Stability chamber: 3 Nos, Drinking water cooler: 2 Nos
				1132.79

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Sr. No.	GHG Emission Category	Applicability / Significant	GHG Emission in tCO_2e	Remarks
2	**Scope-II**			
2.1	Indirect Emissions from imported electricity	Significant	1549.77	
2.2	Indirect Emissions from imported energy	Not applicable	0	No such energy used.
				1549.77
3	**Scope-III**			
3.1	Purchased Goods and Services	Significant	16075.03	
3.1.1	Utilities	Significant	98.46	Consumable: Electronics repairs & Maintenance
3.1.2 a	Raw Material from Domestic	Significant	6593.33	Basic Organic & Inorganics Chemicals
3.1.2b	Raw Material from Import	Significant	8723.23	Basic Organic & Inorganics Chemicals
3.1.3	Packing Material	Significant	528.51	All other Plastic product manufacturing (HDPE Carboys, Drums, IBC, Paper bag, Jumbo Bag etc.)
3.1.4	Services	Significant	114.69	Installation, Calibration, Repair & Maintenance etc.
3.1.5	Admin	Significant	12.28	Stationary.
3.1.6	Laboratory	Significant	4.53	Laboratory Chemicals, consumables, Glassware, Samples bottles.

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Sr. No.	GHG Emission Category	Applicability / Significant	GHG Emission in tCO_2e	Remarks
3.2	Capital Goods	Significant	608.05	Capex: All other miscellaneous general-purpose machinery Manufacturing
3.3	Fuel- and Energy- Related Activities Not Included in Scope 1 or Scope 2	Significant	2.08	Well to tank farm. Emission factors consider for LDO, Diesel & Petrol.
3.4	Upstream Transportation and Distribution	Significant	1545.21	Only road Transport
3.4.1	Emissions from upstream transport and distribution for goods- Raw material & Packing material from domestic market	Significant	632.14	
3.4.2	Emissions from upstream transport and distribution for goods- Raw material & Packing material from international market	Significant	913.07	
3.5	Waste Generated in Operations	Significant	304.76	Process residue, ETP Sludge, Empty Plastic barrel, E-waste
3.6	Business Travel (Only air & train travel considered during reporting period)	Significant	13.47	Flight & train travel

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Sr. No.	GHG Emission Category	Applicability / Significant	GHG Emission in tCO_2e	Remarks
3.7	Employee Commuting (Only permanent employees considered during reporting period)	Significant	93.07	Own car, Bike, Bus, Bicycle
3.8	Upstream Leased Assets	Not applicable	0.00	
3.9	Downstream Transportation and Distribution	Significant	4530.00	
3.9.1	Downstream transportation and distribution-Local	Significant	1776.87	Only road Transport
3.9.2	Downstream transportation and distribution-Export	Significant	2747.30	Only sea transport
3.9.3	Downstream transportation and distribution-Rejected product returned from customer.	Significant	5.84	
3.10	Processing of Sold Products	Not applicable	0.00	
3.11	Use of Sold Products	Not applicable	0.00	
3.12	End-of-Life Treatment of Sold Products	Not applicable	0.00	Our FG is for B2B
3.13	Downstream Leased Assets	Not applicable	0.00	
3.14	Franchises	Not applicable	0.00	No franchise
3.15	Investments	Not applicable	0.00	No investment in reporting year
				23171.67

Total Scope I, II & III	25854.23

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Summary:

Scope	Scope wise GHG Emission tCO2e
Scope-I	1132.79
Scope-II	1549.77
Scope-III	23171.67
Total	25854.23

Uncertainty and materiality

This GHG inventory uses primarily measured and documented activity data (e.g. fuel invoices). Emission factors are sourced from reliable, nationally accepted sources.
Uncertainty: Potential sources of uncertainty include:

- Scope III GHG emission is estimated as per invoices and various GHG data sources, that could be ±10% uncertainty.
- The overall inventory is considered to be sufficiently reliable for internal and external reporting.

Materiality Threshold: A materiality threshold of ±10% has been adopted for this GHG inventory. Based on this threshold:
All known Scope 1, Scope 2 and Scope 3 sources have been included.

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The reported GHG emission uncertainty for the reporting period 01st January 2025 to 31st December 2025 are:

Scope	Scope wise GHG Emission tCO2e	Uncertainty%	Uncertainty tCO2e
Scope-I	1132.79	0%	0
Scope-II	1549.77	0%	0
Scope-III	23171.67	10%	2317.17

8) Carbon intensity/Performance analysis:

Scope	Scope wise GHG Emission tCO2e	Sales in MT (01 Jan 2025 to 31 Dec. 2025)	tCO2e/MT
Scope-I	1132.79	14505.14	0.08
Scope-II	1549.77	14505.14	0.11
Scope-III	23171.67	14505.14	1.60
Total	25854.23	14505.14	**1.78**

9) Comparative Carbon intensity/Performance analysis 2024 & 2025:

Scope	Scope wise GHG Emission tCO2e		Sales in MT (2024) & (2025)		tCO2e/MT		Difference
	2024	2025	(01 Jan 2024 to 31 Dec. 2024)	(01 Jan 2025 to 31 Dec. 2025)	2024	2025	
Scope- I	834.35	1132.79	13582.00	14505.14	0.06	0.08	+ 0.02
Scope- II	1410.93	1549.77	13582.00	14505.14	0.10	0.11	+ 0.01
Scope- III	21151.11	23171.67	13582.00	14505.14	1.56	1.60	+ 0.04
Total	23396.40	25854.23	13582.00	14505.14	1.72	1.78	+ 0.06

Note:
In the 2025 reporting year, additional fuel sources have been included under Scope I emissions. This expansion improves the completeness and accuracy of emissions accounting by capturing previously unreported fuel consumption sources within operational boundaries.

10) GHG Reduction Initiatives

Mitigation plan completed

a) Minimize carbon footprint by installing an air-operated pump instead of an electrical pump — a smart choice that saves our electricity and promotes sustainability.

Before Implementation	After Implementation
Key problems: High Electricity consumption	**Key improvements:** Minimize Electricity consumption
Electricity consumption before implementation was on an avg. for 3HP Centrifugal pump was 22 KWH per day for avg running 10 Hrs. per day for year 22*365 – 8030 KWh.	Installed 02 Nos. Air Compressor of 50 CFM for 7.5 Kw for process air. Cumulative power consumption is 10 kWH/hr per day for 20 Equipment's, Avg. AODD CFM consumption of all AODD pumps is 10 CFM/day i.e. Power consumption = (6*10)/100) *10 = 6 KWH per day for avg running 10 Hrs. per day for year 6*365 = 2190 KWh.
	
Reduction in Total Carbon foot print = 8030-2190= 5840 KWH = 5840 x 0.710(Emmison Factor)/1000 = **4.15 tCO2e** saved / annum	

b) Recovery of heated boiler condensate water circulate through economizer- Saving in LDO consumption

Before Implementation	After Implementation
Key problems:	**Key improvements:**
• Higher Stacker Temperature • Lower overall Efficiency feedwater enters the boiler at lower temperature i.e. 30 Deg.C which is 70-80% • Fuel Consumption increases by 3-6 % • Greater Thermal Stress	• Lower stacker Temperature reduction by 20-40 Deg.C • Improved boiler Efficiency enters the boiler at lower temperature i.e. 60-70 Deg.C which is by 80-85% • Fuel Consumption savings by 3-6% • Reduced Thermal stress in boiler • Environmental benefits less fuel burned lower CO2 & SO2
	 
Installation of economisers in two boilers has improved boiler efficiency and reduced fuel consumption by a minimum of 3% per year.	

c) Replacement of Diesel operated forklift by Electric Operated forklift for internal material handling

Before Implementation	**After Implementation**
Key problems:	**Key improvements:**
• Emissions – Produces CO2 • Noise & Vibration • Higher running Costs • Regulations	• Eco-friendly Zero Emissions • Lower Noise & Vibration. • Lower running costs
	
The diesel consumption for forklift operations was 10 liters per day. On a yearly basis, this amounts to 10 × 365 = 3.65 KL. This diesel consumption has now been eliminated by replacing the diesel-operated forklift with an electric forklift and CO2 reduction = 3650 lit x 2.66155 (DEFRA factor) **= 9.71** ton eCO2t per annum reduced.	

- Motion sensors are installed into common areas & corridors to conserve electricity.
- Installed Variable Frequency devices (VFD) to the reactor to minimize electrical consumption.

Mitigation plan proposed.

- Generation of renewable energy by installing Solar panel system
- We are considering installing either MVR technology or FFE to reduce the total time spent on product distillation, expected time reduction by at least 60%.
- Installed Variable Frequency devices (VFD) to the reactor to minimize electrical consumption.
- Old electrical pumps are replaced with highly efficient pumps.
- Development of green chemistry projects
- Reduction in packaging material for Finished products dispatch in Carboys & Drum into Intermediate Bulk Tank (IBC) & ISO tank container.

11) Reduction Targets

- To achieve a 50% reduction in Scope 1 and Scope 2 emissions by 2035
- To reach net-zero emissions by 2050.

12) Annexure

Sr. No.	Category	Reference
01	Stationary combustion, Mobile combustion, Fugitive emission, Fuel- and Energy-Related Activities Not Included in Scope 1 or Scope 2, Upstream Transportation and Distribution, Waste Generated in Operations, Business Travel, Employee Commuting, Downstream Transportation and Distribution.	Emission Factor (DEFRA - UK 2025)
02	Purchase Electricity	Emission Factor (CEA-India 2025)
03	Purchased Goods and Services, Capital Goods,	Emission Factor (US EEIO - 2024 KgCO2e/USD)

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