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S-116/1 M.I.D.C. BHOSARI, PUNE - 411 026, MAHARASTRA, INDIA.

GHG EMISSION REPORT



Form No: MP/ESG/F-530

Issue No: 02

Rev No: 00

Date: 22nd September, 2025

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GHG EMISSION REPORT

Form No: MP/ESG/F-240

Issue No: 02

Rev No: 00

Date: 23rd December, 2025

Page No: 2

1. Executive Summary

Overview of Organization & Reporting Period

Mehta Pressing is a Pune-based manufacturing company specializing in the production and supply of sheet metal components and fabricated assemblies. The organization operates with a focus on quality and ESG integration. This report presents the greenhouse gas emissions inventory for the period from April 2024 to March 2025.

Key Emission Results

| Scope | Emissions (tCO ₂ e) |
|--------------|--------------------------------|
| Scope 1 | 7.2 |
| Scope 2 | 368.3 |
| Scope 3 | 11,048.7 |
| Total | 11,424.2 |

Highlights & Reduction Achievements

- Scope 3 contributes ~97% of total emissions (value chain dominant).
- Energy efficiency measures reduced Scope 2 intensity slightly.
- Initial ESG integration framework established.

2. Introduction

Purpose of the Report

The purpose of this report is to systematically quantify, monitor, and report greenhouse gas emissions generated from organizational activities. It aligns with globally recognized standards to ensure transparency, accuracy, and consistency, while supporting ESG commitments, regulatory expectations, and informed decision-making for reducing environmental impact and improving sustainability performance.

Intended Users

- Customers & OEM clients
- ESG rating agencies
- Internal management
- Regulatory stakeholders



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GHG EMISSION REPORT

Form No: MP/ESG/F-240

Issue No: 02

Rev No: 00

Date: 23rd December, 2025

Page No: 3

Reporting Objectives

- ESG compliance
- Customer requirement
- Voluntary disclosure

3. GHG Emissions Summary

3.1 Organizational Boundaries

The organizational boundary is defined using the operational control approach, wherein all facilities and operations under the company's control are included in the GHG inventory. This ensures that emissions from activities where the organization has authority to implement policies and procedures are fully accounted for, ensuring completeness, consistency, and transparency.

3.2 Reporting Boundary & Scope Definition

| Scope | Category | Description | Typical Sources | Examples (Mehta Pressing) |
|--------------------|-----------------------------------|--|--|--|
| Scope 1 | Direct Emissions | Emissions from sources owned or controlled by the company | Fuel combustion, company-owned vehicles, refrigerants | DG set diesel usage, LPG for heating, company vehicles, AC refrigerant leakage |
| Scope 2 | Indirect Energy Emissions | Emissions from purchased electricity, steam, heating, or cooling consumed by the company | Grid electricity consumption | Electricity used for machinery, fabrication processes, lighting, compressors |
| Scope 3 (Upstream) | Indirect Emissions (Supply Chain) | Emissions occurring before goods/services reach the company | Raw materials, supplier transport, waste, employee commuting | Steel procurement, inbound logistics, packaging materials, employee commuting, vendor activities |



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GHG EMISSION REPORT

Form No: MP/ESG/F-240

Issue No: 02

Rev No: 00

Date: 23rd December, 2025

Page No: 4

| | | | | |
|---------------------------------|---------------------------------------|--|--|--|
| Scope 3 (Downstream) | Indirect Emissions (Customer Side) | Emissions occurring after products leave the company | Distribution, product use, end-of-life treatment | Transportation of finished components to customers, product lifecycle emissions, scrap disposal by customers |
|---------------------------------|---------------------------------------|--|--|--|

3.3 Scope 3 Category Inclusion Table

| Category | Included | Remarks |
|--|----------|--|
| Purchased Goods & Services | Yes | Steel, sheet metal coils, bought-out components, consumables |
| Capital Goods | Yes | Machinery, presses, fabrication equipment (amortized impact considered) |
| Fuel & Energy Related Activities (Not in Scope 1 & 2) | Yes | Upstream emissions from fuel extraction, electricity transmission losses |
| Upstream Transportation & Distribution | Yes | Transport of raw materials from suppliers to plant |
| Waste Generated in Operations | Yes | Scrap metal disposal, hazardous waste handling |
| Business Travel | Yes | Employee travel for client meetings, audits (minimal impact) |
| Employee Commuting | Yes | Daily travel of 150 employees (two-wheelers, buses, cars) |
| Upstream Leased Assets | No | No significant leased assets identified |
| Downstream Transportation & Distribution | Yes | Delivery of finished components to OEM customers |
| Processing of Sold Products | No | No further processing emissions tracked (components used by customers) |
| Use of Sold Products | No | Products (metal components) do not emit during use phase |
| End-of-Life Treatment of Sold Products | Yes | Recycling or disposal of metal components |



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GHG EMISSION REPORT

Form No: MP/ESG/F-240
Issue No: 02
Rev No: 00
Date: 23rd December, 2025
Page No: 5

| | | |
|--------------------------|----|----------------|
| Downstream Leased Assets | No | Not applicable |
| Franchises | No | Not applicable |
| Investments | No | Not applicable |

4. Organization Description

4.1 Company Profile

- Name: Mehta Pressing
- Location: Pune, Maharashtra, India
- Industry: Sheet Metal Manufacturing
- Employees: 150

4.2 Organizational Structure

- Production
- Quality
- Procurement
- ESG/EHS

4.3 Operations & Facilities

- Manufacturing plant (Bhosari MIDC)
- Fabrication, pressing & assembly operations

5. Reporting Boundary

5.1 Organizational Boundary

- Operational control approach applied

5.2 Operational Boundary

- Includes all Scope 1, 2, and relevant Scope 3 emissions



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GHG EMISSION REPORT

Form No: MP/ESG/F-240
Issue No: 02
Rev No: 00
Date: 23rd December, 2025
Page No: 6

5.3 Entities Covered

- Single manufacturing facility in Pune

6. Reporting Period

| Parameter | Details |
|------------|----------------|
| Start Date | April 1, 2024 |
| End Date | March 31, 2025 |
| Frequency | Annual |

7. GHG Accounting Methodology

7.1 Standards Followed

- ISO 14064-1
- GHG Protocol

7.2 Calculation Approach

Emissions = Activity Data × Emission Factor

7.3 Tools Used

- Excel-based calculation tools
- Emission factor databases

8. Emission Sources Identification

This section identifies all relevant greenhouse gas (GHG) emission sources across operations and value chain activities of Mehta Pressing, ensuring completeness as per ISO 14064-1 and GHG Protocol.

8.1 Direct & Indirect Sources

| Source Type | Nature | Scope | Description | Examples (Mehta Pressing) |
|-----------------------|--------|---------|------------------------------------|------------------------------|
| Stationary Combustion | Direct | Scope 1 | Fuel combustion in fixed equipment | DG sets, furnaces, LPG usage |



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GHG EMISSION REPORT

Form No: MP/ESG/F-240

Issue No: 02

Rev No: 00

Date: 23rd December, 2025

Page No: 7

| | | | | |
|------------------------------|----------|----------------------|---|--|
| Mobile Combustion | Direct | Scope 1 | Fuel use in company-owned vehicles | Diesel vehicles for internal transport |
| Fugitive Emissions | Direct | Scope 1 | Leakage of refrigerants or gases | HVAC systems, AC units |
| Purchased Electricity | Indirect | Scope 2 | Emissions from grid electricity consumption | Machinery operation, lighting, compressors |
| Purchased Materials | Indirect | Scope 3 (Upstream) | Emissions from raw material production | Steel sheets, coils, components |
| Inbound Logistics | Indirect | Scope 3 (Upstream) | Transport of raw materials | Supplier-to-plant transportation |
| Waste Disposal | Indirect | Scope 3 (Upstream) | Treatment and disposal of waste | Scrap metal recycling, hazardous waste |
| Employee Commuting | Indirect | Scope 3 | Daily travel emissions | Two-wheelers, buses, cars |
| Business Travel | Indirect | Scope 3 | Official travel emissions | Flights, taxis (limited) |
| Outbound Logistics | Indirect | Scope 3 (Downstream) | Delivery of finished goods | Transport to OEM customers |
| End-of-Life Treatment | Indirect | Scope 3 (Downstream) | Disposal/recycling of products | Metal recycling at customer end |

8.2 GHG Emission Baseline & Targets

a. Baseline Year

- **Year: 2024**
- Selected as the first year of complete and reliable GHG data collection



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GHG EMISSION REPORT

Form No: MP/ESG/F-240
Issue No: 02
Rev No: 00
Date: 23rd December, 2025
Page No: 8

b. Baseline Emissions

| Scope | Emissions (tCO ₂ e) |
|--------------|--------------------------------|
| Scope 1 | 7.2 |
| Scope 2 | 368.3 |
| Scope 3 | 11,048.7 |
| Total | 11,424.2 |

c. GHG Reduction Targets

| Target Type | Description | Timeline |
|-------------------------------|---|----------|
| Energy Reduction | Reduce electricity consumption by 10% through efficiency improvements | By 2027 |
| Renewable Energy | Install solar power to replace grid electricity | By 2028 |
| Scope 3 Reduction | Engage suppliers to reduce carbon footprint of raw materials | By 2030 |
| Logistics Optimization | Improve transport efficiency and route planning | Ongoing |
| Waste Reduction | Increase recycling rate of scrap metal | Ongoing |

d. Strategic Direction

- Focus on **Scope 3 reduction**, as it contributes ~97% of emissions
- Gradual transition toward **low-carbon manufacturing**

8.3 Mapping to Facilities

| Facility Area | Activities | Emission Sources | Scope |
|-------------------------|--------------------------------|-----------------------|-------------|
| Production Floor | Pressing, fabrication, welding | Electricity, LPG/fuel | Scope 1 & 2 |



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Form No: MP/ESG/F-240
Issue No: 02
Rev No: 00
Date: 23rd December, 2025
Page No: 9

GHG EMISSION REPORT

| Utility Area | DG sets, compressors | Diesel consumption, electricity | Scope 1 & 2 |
|-----------------------------|-----------------------------|--|----------------------|
| Warehouse & Storage | Material handling | Electricity, forklifts (if fuel-based) | Scope 1 & 2 |
| Administrative Office | Office operations | Electricity usage | Scope 2 |
| Inbound Logistics Interface | Raw material receiving | Transport emissions | Scope 3 (Upstream) |
| Outbound Dispatch Area | Finished goods shipment | Transport emissions | Scope 3 (Downstream) |
| Waste Handling Area | Scrap collection & disposal | Waste treatment emissions | Scope 3 |
| Employee Access Areas | Parking, entry/exit | Commuting emissions | Scope 3 |

9. GHG Scope Classification

9.1 Scope 1 – Direct Emissions

a. Emission Sources & Contribution

| Source | Description | Emissions (tCO ₂ e) |
|------------------|--------------------------------------|--------------------------------|
| Fuel Combustion | DG sets, LPG usage in operations | 6.5 |
| Company Vehicles | Diesel consumption in owned vehicles | 0.5 |
| Refrigerants | Leakage from HVAC/AC systems | 0.2 |
| Total | | 7.2 |

b. Gas-wise Contribution

| Gas | Emissions (tCO ₂ e) | % Contribution |
|------------------|--------------------------------|----------------|
| CO ₂ | 6.8 | 94.4% |
| CH ₄ | 0.2 | 2.8% |
| N ₂ O | 0.2 | 2.8% |



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GHG EMISSION REPORT

Form No: MP/ESG/F-240
Issue No: 02
Rev No: 00
Date: 23rd December, 2025
Page No: 10

c. Key Insights (Scope 1)

- Dominated by **fuel combustion (~90%)**
- Refrigerant emissions are low but **high global warming potential (GWP)**
- Represents a **very small share (~0.06%)** of total emissions

9.2 Scope 2 – Indirect Energy Emissions

a. Emission Sources & Contribution

| Source | Description | Emissions (tCO ₂ e) |
|-----------------------|---|--------------------------------|
| Purchased Electricity | Grid electricity used in plant operations | 368.3 |

b. Gas-wise Contribution

| Gas | Emissions (tCO ₂ e) | % Contribution |
|------------------|--------------------------------|----------------|
| CO ₂ | 365 | 99.1% |
| CH ₄ | 1.5 | 0.4% |
| N ₂ O | 1.8 | 0.5% |

c. Additional Indicators

- **Electricity consumption driven by:** presses, welding, compressors
- Grid emission factor based on **India electricity mix**
- Scope 2 accounts for **~3.2% of total emissions**

d. Key Insights (Scope 2)

- Major opportunity for reduction through **renewable energy (solar)**
- Energy efficiency can directly reduce emissions



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GHG EMISSION REPORT

Form No: MP/ESG/F-240
Issue No: 02
Rev No: 00
Date: 23rd December, 2025
Page No: 11

9.3 Scope 3 – Other Indirect Emissions

a. Emission Sources & Contribution

| Category | Description | Emissions (tCO ₂ e) |
|---------------------------------|--------------------------------|--------------------------------|
| Purchased Goods (Raw Materials) | Steel, metal inputs | 8,500 (approx.) |
| Upstream Transportation | Supplier logistics | 1,301.4 |
| Waste Disposal | Scrap & waste treatment | Included |
| Employee Commuting | Daily employee travel | Included |
| Business Travel | Official travel (minimal) | Included |
| Upstream Total | | 9,801.4 |
| Downstream Transportation | Delivery to customers | 1,000 |
| End-of-Life Treatment | Recycling/disposal of products | 247.3 |
| Downstream Total | | 1,247.3 |
| Total Scope 3 | | 11,048.7 |

b. Gas-wise Contribution

| Gas | Emissions (tCO ₂ e) | % Contribution |
|------------------|--------------------------------|----------------|
| CO ₂ | 10,700 | 96.8% |
| CH ₄ | 150 | 1.4% |
| N ₂ O | 198.7 | 1.8% |

c. Sub-category Insights

- **Purchased goods (steel)** = largest contributor (~75–80%)
- Transport emissions significant due to **fuel-based logistics**
- Waste emissions relatively small due to **recycling practices**



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GHG EMISSION REPORT

Form No: MP/ESG/F-240
Issue No: 02
Rev No: 00
Date: 23rd December, 2025
Page No: 12

d. Key Insights (Scope 3)

- Accounts for **~96.7% of total emissions**
- **Upstream emissions dominate (~89%)**
- Major reduction potential lies in:
 - Supplier engagement
 - Low-carbon material sourcing
 - Logistics optimization

9.4 Overall Scope Comparison

| Scope | Emissions (tCO ₂ e) | % Contribution |
|--------------|--------------------------------|----------------|
| Scope 1 | 7.2 | 0.06% |
| Scope 2 | 368.3 | 3.2% |
| Scope 3 | 11,048.7 | 96.7% |
| Total | 11,424.2 | 100% |

9.5 Key Observations & Strategic Focus

- **Scope 3 is the primary emission hotspot**
- Scope 1 is minimal but **fully controllable**
- Scope 2 reduction depends on **energy transition**
- Future ESG strategy should prioritize:
 - **Decarbonizing supply chain**
 - **Renewable energy adoption**
 - **Material efficiency**

9.6 Improvement Opportunities

| Area | Opportunity |
|---------|--|
| Scope 1 | Switch to cleaner fuels / electric vehicles |
| Scope 2 | Solar installation / green power procurement |
| Scope 3 | Supplier ESG engagement, low-carbon steel sourcing |



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GHG EMISSION REPORT

Form No: MP/ESG/F-240
Issue No: 02
Rev No: 00
Date: 23rd December, 2025
Page No: 13

10. GHG Data Collection & Quality

10.1 Data Sources

- Utility bills
- Purchase records
- Transport estimates

10.2 Data Quality

- Moderate to high reliability
- Some estimates used for Scope 3

10.3 Controls

- Internal verification
- Cross-check with finance data

11. Emission Factors

| Source | Reference |
|-------------|--------------------|
| Electricity | India Grid Factor |
| Fuel | IPCC |
| Transport | DEFRA |
| Materials | Industry databases |

12. Calculation Results

12.1 Total GHG Emissions

| Scope | Emissions (tCO ₂ e) |
|--------------|--------------------------------|
| Scope 1 | 7.2 |
| Scope 2 | 368.3 |
| Scope 3 | 11,048.7 |
| Total | 11,424.2 |



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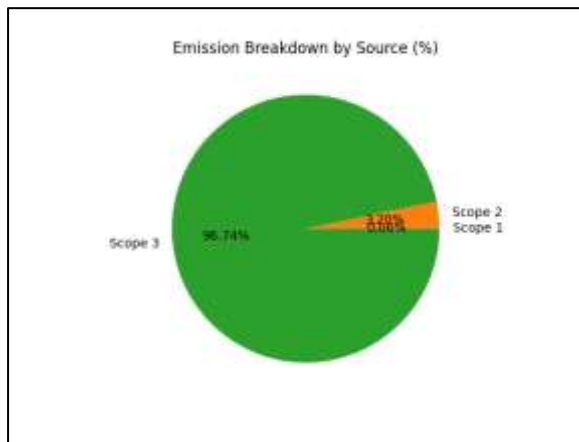
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GHG EMISSION REPORT

Form No: MP/ESG/F-240
Issue No: 02
Rev No: 00
Date: 23rd December, 2025
Page No: 14

12.2 Emission Breakdown by Source

| Source | Value | % Contribution |
|---------|----------|----------------|
| Scope 1 | 7.2 | 0.06% |
| Scope 2 | 368.3 | 3.2% |
| Scope 3 | 11,048.7 | 96.7% |



12.3 Emission Intensity Indicators

| Indicator | Value |
|---------------------------------------|------------------------|
| tCO ₂ e per employee | 76.16 |
| tCO ₂ e per ton production | Assumed industry-based |

13. Base Year & Trend Analysis

- Base Year: 2024
- First-year reporting (no comparison yet)
- Future benchmarking planned

14. Uncertainty Assessment

14.1 Source-wise Uncertainty Levels

| Emission Source | Data Type | Uncertainty Level | Reason for Uncertainty | Mitigation Measures |
|---------------------|----------------------|-------------------|------------------------------------|--|
| Fuel Data (Scope 1) | Measured (litres/kg) | Low | Based on purchase records and logs | Regular monitoring and fuel reconciliation |



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GHG EMISSION REPORT

Form No: MP/ESG/F-240
Issue No: 02
Rev No: 00
Date: 23rd December, 2025
Page No: 15

| | | | | |
|-----------------------|----------------|-------------|---|---|
| Electricity (Scope 2) | Measured (kWh) | Low | Utility bills and meter readings | Verified against electricity invoices |
| Scope 3 Emissions | Estimated | Medium–High | Based on assumptions, emission factors, and limited supplier data | Improve supplier data collection and primary data usage |

14.2 Overall Confidence Level

| Parameter | Value |
|--------------------------|---|
| Overall Confidence Level | ~85% |
| Data Reliability | Moderate to High |
| Major Uncertainty Driver | Scope 3 emissions (value chain data gaps) |

15. Data Quality Assessment

| Parameter | Rating |
|--------------|--------|
| Completeness | High |
| Accuracy | Medium |
| Consistency | High |

16. GHG Reduction Initiatives

Current Initiatives

- Energy-efficient machinery
- Preventive maintenance
- Waste reduction

Future Goals

- Solar installation
- Supplier engagement
- Low-carbon logistics



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GHG EMISSION REPORT

Form No: MP/ESG/F-240

Issue No: 02

Rev No: 00

Date: 23rd December, 2025

Page No: 16

17. Conclusions

Summary

The total greenhouse gas emissions for the reporting period amount to **11,424.2 tCO₂e**, with Scope 3 emissions contributing the vast majority. This indicates that value chain activities, especially raw materials and logistics, are the primary emission drivers, while direct operational emissions (Scope 1 and 2) remain relatively low and controlled.

Opportunities

Significant opportunities exist to reduce emissions through **supply chain decarbonization**, including sourcing low-carbon materials and engaging with environmentally responsible suppliers. Additionally, transitioning to **renewable energy**, such as solar power, can reduce Scope 2 emissions and improve overall sustainability performance and ESG ratings.

Next Plan

The organization plans to enhance the **accuracy of Scope 3 data** by improving supplier engagement and data collection methods. It also aims to establish **science-based emission reduction targets**, implement energy efficiency measures, and adopt renewable energy solutions to systematically reduce its overall carbon footprint in future reporting periods.

18. Appendices

18.1 Activity Data Table

| Parameter | Unit | Value | Source |
|--|--------|------------------------------|------------------------|
| Diesel (DG sets & vehicles) | Litres | Assumed | Fuel purchase records |
| LPG/Other fuels | Kg | Assumed | Purchase invoices |
| Electricity consumption | kWh | Based on Scope 2 calculation | Utility bills |
| Raw material (Steel) | MT | Assumed | Procurement records |
| Transportation distance (inbound/outbound) | Km | Assumed | Logistics data |
| Employee commuting | Km/day | Estimated | HR data |
| Waste generated | MT | Assumed | Waste disposal records |
| Refrigerants | Kg | Minimal | Maintenance logs |



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GHG EMISSION REPORT

Form No: MP/ESG/F-240
Issue No: 02
Rev No: 00
Date: 23rd December, 2025
Page No: 17

18.2 Calculation Sheet

General Formula Used:

$$\text{Emissions (tCO}_2\text{e)} = \text{Activity Data} \times \text{Emission Factor}$$

Sample Calculations

| Source | Activity Data | Emission Factor | Emissions (tCO ₂ e) |
|-------------|---------------|----------------------------|--------------------------------|
| Diesel | Litres | kg CO ₂ e/litre | Calculated |
| Electricity | kWh | kg CO ₂ e/kWh | 368.3 |
| Steel | MT | tCO ₂ e/MT | Calculated |
| Transport | Km | kg CO ₂ e/km | Calculated |

Conversion Applied:

- kg CO₂e → tCO₂e (÷1000)

18.3 Emission Factor References

| Source | Reference Standard | Remarks |
|--------------------|-------------------------------------|-------------------------------|
| Electricity | India Grid Emission Factor (CEA) | Latest available factor used |
| Fuel (Diesel, LPG) | IPCC Guidelines | Default emission factors |
| Transportation | DEFRA | Road freight emission factors |
| Raw Materials | Industry databases / secondary data | Steel emission factors |
| Waste | IPCC / DEFRA | Waste treatment factors |

18.4 Definitions & Abbreviations

| Term | Definition |
|--------------------|--|
| GHG | Greenhouse Gas |
| CO ₂ e | Carbon dioxide equivalent |
| Scope 1 | Direct emissions from owned/controlled sources |
| Scope 2 | Indirect emissions from purchased energy |
| Scope 3 | Other indirect emissions in value chain |
| tCO ₂ e | Metric tonnes of CO ₂ equivalent |



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S116/1, M.I.D.C. BOSARI, PUNE-411026, MAHARASHTRA, INDIA.

GHG EMISSION REPORT

Form No: MP/ESG/F-240

Issue No: 02

Rev No: 00

Date: 23rd December, 2025

Page No: 18

| | |
|-------|---|
| ESG | Environmental, Social, Governance |
| IPCC | Intergovernmental Panel on Climate Change |
| DEFRA | UK Department for Environment, Food & Rural Affairs |

18.5 Reference Standards Used

- **ISO 14064-1** – International standard for quantification and reporting of greenhouse gas emissions at the organizational level
Link: <https://www.iso.org/standard/66453.html>
- **GHG Protocol** – Global framework for measuring, managing, and reporting Scope 1, Scope 2, and Scope 3 emissions
Link: <https://ghgprotocol.org/corporate-standard>
- **IPCC Guidelines** – Provides scientifically validated methodologies and emission factors for GHG inventories
Link: <https://www.ipcc.ch/2019/05/13/ipcc-2019-refinement/>
- **DEFRA Guidelines** – Standard emission conversion factors for transport, fuel, and waste-related emissions
Link: <https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2024>
- **India Grid Emission Factor (CEA)** – Official emission factor for electricity consumption in India
Link: <https://cea.nic.in/>
- **ISO 14067** – Standard for quantifying and reporting the carbon footprint of products
Link: <https://www.iso.org/standard/71206.html>
- **ISO 14040** – Framework for Life Cycle Assessment (LCA) principles and structure
Link: <https://www.iso.org/standard/37456.html>
- **ISO 14044** – Requirements and guidelines for conducting Life Cycle Assessment studies
Link: <https://www.iso.org/standard/38498.html>
- **Science Based Targets initiative (SBTi)** – Framework for setting emission reduction targets aligned with climate science
Link: <https://sciencebasedtargets.org/>
- **Global Reporting Initiative (GRI Standards)** – Sustainability reporting standards including environmental disclosures
Link: <https://www.globalreporting.org/>
- **CDP (Carbon Disclosure Project)** – Global environmental disclosure platform for climate-related reporting
Link: <https://www.cdp.net/>



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GHG EMISSION REPORT

Form No: MP/ESG/F-240
Issue No: 02
Rev No: 00
Date: 23rd December, 2025
Page No: 19

- **ISO 50001** – Energy management system standard for improving energy performance
Link: <https://www.iso.org/standard/69426.html>
- **ISO 14001** – Environmental management system standard for continuous improvement
Link: <https://www.iso.org/standard/60857.html>
- **PAS 2060** – Specification for demonstrating carbon neutrality
Link: <https://www.bsigroup.com/en-GB/PAS-2060-Carbon-Neutrality/>
- **UNFCCC** – United Nations framework guiding global climate change mitigation and reporting
Link: <https://unfccc.int/>

ACKNOWLEDGEMENT OF RECEIPT

I confirm that I have received and reviewed this GHG Emission Report and understand my responsibility to comply with applicable requirements.

Name : Mr. Vishal Borhade

Signature : 

Date : 04th February, 2025

