



GHG Accounting Document

FY 2025-26



GSP Crop Science Limited



PEOPLE



PLANET



PROGRESS

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MEASURING TODAY FOR A BRIGHTER TOMORROW

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LOCAL ACTIONS.
GLOBAL IMPACT.
A SUSTAINABLE
FUTURE TOGETHER.

01 | Introduction

GSP CropScience has established a greenhouse gas (GHG) accounting framework to quantify, monitor, manage and report emissions arising from its operations. This document defines the methodology adopted for preparing the Company's Scope 1 and Scope 2 GHG inventory and provides the basis for performance tracking against its climate commitments.

The document serves as the primary reference for GHG quantification, reporting and disclosure activities and is intended to ensure consistency, transparency and comparability of emissions data across reporting periods.

02 | Purpose and Scope

The objectives of this methodology document are to:

-  Define the organizational and operational boundaries of the GHG inventory.
-  Establish a consistent approach for quantifying Scope 1 and Scope 2 emissions.
-  Document activity data sources, calculation methodologies and emission factors.
-  Provide a basis for tracking progress against climate-related commitments.
-  Support internal decision-making and external sustainability disclosures.
-  Facilitate future verification and assurance of GHG information.

The document covers:

-  Scope 1 GHG emissions
-  Scope 2 GHG emissions
-  Energy consumption
-  Renewable energy consumption
-  Climate targets and performance monitoring



LOWER EMISSIONS



CLEANER OPERATIONS



HEALTHIER PLANET



STRONGER COMMUNITIES

The GHG inventory has been prepared in line with internationally recognised GHG accounting principles and reporting requirements.

The accounting approach is based on:

-  GHG Protocol Corporate Accounting and Reporting Standard
-  GHG Protocol Scope 2 Guidance
-  IPCC Emission Factor Methodology
-  Central Electricity Authority – Version 21.0

The inventory is developed using the principles of:

- | | | | | |
|---|---|---|--|---|
|  |  |  |  |  |
| Relevance | Completeness | Consistency | Transparency | Accuracy |

The inventory applies an operational control approach, whereby emissions from facilities under GSP's operational management are accounted for within the reporting boundary.



04 | Organisational Boundary

The following facilities are included within the Scope 1 and Scope 2 inventory boundary:

 Facility	
 Head Office	
 Unit 1	
 Unit 2	
 Unit 3 and 5	

The inventory covers emissions associated with activities undertaken within these facilities and consolidates data at the corporate level. The baseline year adopted for climate target monitoring is FY 2024-25, while FY 2025-26 represents the first reporting year for performance assessment against the baseline.

05 | Operational Boundary



Scope 1 Emissions

Scope 1 emissions comprise direct greenhouse gas emissions resulting from fuel combustion within GSP operations.

The following sources are included:

 Source Category	 Fuel Type
 Stationary Combustion	Brown Coal Briquettes, Other Bituminous Coal, Diesel (DG), LPG
 Mobile Combustion	Diesel (Forklift)



Scope 2 Emissions

Scope 2 emissions comprise indirect emissions associated with purchased electricity consumed by the Company's operations.

The following sources are included:

 Source Category	
 Purchased Grid Electricity	
 Renewable Electricity Consumption (Solar)	

Data Collection and Management Process



6.1 Activity Data Collection

Activity data is collected from operational facilities on a periodic basis and consolidated into the corporate GHG inventory.



Scope 1 Activity Data

 Fuel Type	 Unit of Measurement
High Speed Diesel	Liters
Coal	Metric Tonnes
LPG	Kilograms



Scope 2 Activity Data

 Source	 Unit of Measurement
Electricity Consumption	kWh
Renewable Electricity Consumption	kWh



Fuel consumption information is obtained from procurement records, inventory records and operational consumption logs.



Electricity consumption data is obtained from utility bills, electricity meters and renewable energy generation records.



The data is consolidated within the Scope 1 and Scope 2 inventory workbook and reviewed before annual reporting.



6.2 Data Validation

The GHG inventory is developed through a multi-level review process involving data owners, site representatives and the sustainability reporting team.

Validation activities include:



Review of activity data completeness



Verification of units of measurement



Reconciliation with supporting records



Review of calculation outputs



Consistency checks against previous reporting periods



ACCURATE
DATA



INFORMED
ACTION



A LOWER
CARBON
TOMORROW

FROM DATA
TO A CLEANER,
GREENER
FUTURE.

07 | Calculation Methodology



7.1 Scope 1 Emissions

Scope 1 emissions are quantified using an activity-based approach. The general equation applied is:



$$\text{GHG Emissions} = \text{Activity Data} \times \text{Emission Factor}$$

For each fuel source:



CO₂ emissions are calculated separately



CH₄ emissions are calculated separately



N₂O emissions are calculated separately

The emissions are subsequently converted into carbon dioxide equivalent (tCO₂e). The inventory workbook calculates emissions individually for each fuel source and aggregates them into total Scope 1 emissions.



Energy Conversion

Fuel consumption is converted into energy units using fuel-specific calorific values. The converted energy values are used for:



Total energy consumption calculations



Energy intensity calculations



Renewable and non-renewable energy accounting



BRSR environmental disclosures



7.2 Scope 2 Emissions

Scope 2 emissions are calculated using electricity consumption data and the applicable grid emission factor.

The equation applied is:



$$\text{Scope 2 Emissions} = \text{Electricity Consumption} \times \text{Grid Emission Factor}$$

A location-based accounting approach has been adopted for the reporting years.

08 | Emission Factors and Assumptions

8.1 Scope 1 Emission Factor

1. High Speed Diesel – Stationary

Parameter	Unit	Emission Factor
CO ₂	kgCO ₂ /TJ	74,100
CH ₄	kgCH ₄ /TJ	3
N ₂ O	kgN ₂ O/TJ	0.6

2. High Speed Diesel – Mobile

Parameter	Unit	Emission Factor
CO ₂	kgCO ₂ /TJ	74,100
CH ₄	kgCH ₄ /TJ	3.9
N ₂ O	kgN ₂ O/TJ	3.9

3. Brown Coal Briquettes

Parameter	Unit	Emission Factor
CO ₂	kgCO ₂ /TJ	97,500
CH ₄	kgCH ₄ /TJ	10
N ₂ O	kgN ₂ O/TJ	1.5

4. Other Bituminous Coal

Parameter	Unit	Emission Factor
CO ₂	kgCO ₂ /TJ	94,600
CH ₄	kgCH ₄ /TJ	10
N ₂ O	kgN ₂ O/TJ	1.5

5. Liquified Petroleum Gas (LPG)

Parameter	Unit	Emission Factor
CO ₂	kgCO ₂ /TJ	63,100
CH ₄	kgCH ₄ /TJ	5
N ₂ O	kgN ₂ O/TJ	0.1

8.2 Scope 2 Emission Factor

1. Grid Electricity

Year	Unit	Emission Factor
FY 2025-26	tCO ₂ e/MWh	0.710
FY 2024-25	tCO ₂ e/MWh	0.727

Key Assumptions

- Activity data reported by facilities is considered complete for the reporting boundary.
- Emission factors embedded within the inventory workbook are applied consistently across reporting years.
- Scope 2 emissions are calculated using location-based grid factors.

The following section presents the GHG emissions and energy consumption performance for the baseline year (FY 2024-25) and the reporting year (FY 2025-26).



GHG Emissions

Total Scope 1 and Scope 2 Emissions

Parameter	Unit	FY 2025-26	FY 2024-25
 Total Scope 1 emissions	Emission tCO ₂ e	42,028.17	43,828.92
 Total Scope 2 emissions	Emission tCO ₂ e	15,984.54	16,858.80
 Total Scope 1 + 2 emissions	Emission tCO ₂ e	58,012.71	60,687.72



FY 2025-26
TOTAL EMISSIONS

58,012.71
tCO₂e

OUR PROGRESS
TOWARDS A
LOWER CARBON
FUTURE



Energy Consumption

Total, renewable and non-renewable energy consumption

Parameter	Unit	FY 2025-26	FY 2024-25
 Renewable sources	GJ	5,633.87	6,496.27
 Non-renewable sources	GJ	521,832.43	543,266.04
 Total energy	GJ	527,466.30	549,762.31



1.1%

SHARE OF RENEWABLE
ENERGY (FY 2025-26)



1.2%

SHARE OF RENEWABLE
ENERGY (FY 2024-25)



STEADY STEPS
TOWARDS A
LOWER CARBON
FUTURE

10 | GHG Targets and Commitment

GSP has established climate and energy-related commitments using FY 2024-25 as the baseline year.

 Commitment	 Target Year
 Reduce specific energy consumption by 5% annually from baseline performance	FY 2035
 Reduce GHG intensity by 5% annually from baseline performance	FY 2035
 Achieving 100% renewable electricity consumption	FY 2040
 Achieve Scope 1 and Scope 2 Carbon Neutrality	FY 2040

11 | Progress Against Targets

FY 2025-26 represents the first year of performance monitoring against the FY 2024-25 baseline.

 Parameter	Unit	FY 2025-26	FY 2024-25	 Change
 Total Scope 1 emissions	Emission tCO ₂ e	42,028.17	43,828.92	↓ 4.11%
 Total Scope 2 emissions	Emission tCO ₂ e	15,984.54	16,858.80	↓ 5.19%
 Total Scope 1+ 2 emissions	Emission tCO ₂ e	58,012.71	60,687.72	↓ 4.41%
 Total Energy Consumption	GJ	527,466.30	549,762.31	↓ 4.06%



During FY 2025-26, reductions in total energy consumption and Scope 2 emissions were observed. Overall emissions also decreased compared to the baseline year. The FY 2025-26 inventory establishes the initial performance benchmark for tracking progress toward GSP's long-term climate commitments.

GHG Reporting and Disclosure Practices

Scope 1 and Scope 2 emissions are reported annually through the Company's sustainability reporting process.



Reported disclosures include:



Scope 1 emissions



Scope 2 emissions



Total Scope 1 and Scope 2 emissions



Energy consumption



Renewable energy consumption



Energy intensity metrics



GHG intensity metrics



Progress against climate commitments



The annual inventory includes:



Organizational boundary



Operational boundary



Activity data sources



Calculation methodology



Emission factors



Key assumptions



Year-on-year performance trends



This information forms the basis for sustainability disclosures, ESG assessments and stakeholder reporting activities.

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Appendix I – Calculation Formulae

The following formulae are used to calculate GHG emissions, energy and intensity metrics as part of GSP CropScience's Scope 1 and Scope 2 inventory.



Scope 1

GHG Emissions (tCO₂e) =
Activity Data × Emission Factor

GHG Emissions (tCO₂e) =
Activity Data × Emission Factor



Scope 2

Scope 2 Emissions (tCO₂e) =
Electricity Consumption (MWh) ×
Grid Emission Factor

Scope 2 Emissions (tCO₂e) =
Electricity Consumption (MWh) ×
Grid Emission Factor



Total GHG Emissions

Total Scope 1 & Scope 2
Emissions = Scope 1 Emissions +
Scope 2 Emissions

**Total Scope 1 & Scope 2 Emissions
(tCO₂e) =**
Scope 1 Emissions + Scope 2 Emissions



Energy Intensity

Energy Intensity = Total Energy
Consumption / Relevant
Business Activity Metric

Energy Intensity =
Total Energy Consumption /
Relevant Business Activity Metric



GHG Intensity

GHG Intensity = Total Scope 1 &
Scope 2 Emissions / Relevant
Business Activity Metric

GHG Intensity =
Total Scope 1 & Scope 2 Emissions /
Relevant Business Activity Metric



The methodology, factors, inventory results and targets documented above form the basis of GSP CropScience's Scope 1 and Scope 2 greenhouse gas accounting and reporting process.

HEALTHY
CROPS.
THRIVING
COMMUNITIES.
BRIGHTER
TOMORROWS.



HEAD OFFICE

404, Lalita Complex, 352/3 Rasala Road,
Near Jain Temple, Mithakhali Six Roads,
Navrangpura, Ahmedabad – 380009



UNIT - 1

Plot no-47,100,101,102,103,103/A, GVMM,
Odhav, Survey No-71/1, Plot No- 11 to 22,
Nikol, Ahmedabad – 382415



UNIT - 2

Plot No. 551, Phase-II, GIDC,
Kathwada, Ahmedabad – 382430



UNIT - 3

Plot No. 1-2, GIDC, Opp SBI,
Nandesari – 391340
Dist: Vadodara, Gujarat



Phone
+91-79-61915151 / 61915140



Website
www.gspcrop.com



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