



RAMAKRISHNA SERVICES

Regd. Office: 402, Sakharam Towers, Nr. Thakurli Station, Behind Ankita Apts,
(Thakurli East), Dombivli, Thane District- 421201, Maharashtra, India.

GHG EMISSION REPORT

For the Year January 2025 – December 2025

Form No : RKS/ESG/045
Issue No : 01
Rev No : 00
Date : 07th January, 2026




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1. EXECUTIVE SUMMARY

Overview of the Organization and Reporting Period

RKS is an India-based organization engaged in the supply and trading of machinery, industrial equipment, spare parts, onsite operation and maintenance services, servicing, installation, and commissioning of machinery and equipment across industrial sectors. The company integrates Environmental, Social, and Governance (ESG) principles into its business operations and sustainability strategy. This Greenhouse Gas (GHG) Emission Report has been prepared for the reporting period from January 2025 to December 2025 in accordance with ISO 14064-1:2018 and the GHG Protocol Corporate Accounting and Reporting Standard.

Key Emission Results

Organizational Boundary

RAMAKRISHNA SERVICES

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Calculation period: January 2025 to December 2025


All values are in MT CO₂ e

GHG Emission Reporting Frequency: Annually

Scope	Emissions (tCO ₂ e)
Scope 1	28.50
Scope 2	21.80
Scope 3	229.00
Scope 3 Upstream	146.40
Scope 3 Downstream	82.60
Total Emission	279.30

Highlights and Reduction Achievements

- Improved preventive maintenance practices for field equipment and service vehicles.
- Increased usage of virtual meetings to reduce business travel emissions.
- Adoption of energy-efficient office equipment and LED lighting.
- Optimization of transportation routes and logistics planning.
- Improved awareness among employees regarding energy conservation and ESG compliance.

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2. INTRODUCTION

Purpose of the Report

The purpose of this report is to quantify, document, and communicate the greenhouse gas emissions generated from RKS operations and associated value chain activities.

Intended Users

This report is intended for:

- Customers and clients
- Regulatory authorities
- Investors and stakeholders
- ESG rating agencies
- Internal management
- Supply chain partners

Reporting Objectives

The objectives of this report include:


- Compliance with international GHG accounting standards
- Support for ESG and sustainability reporting
- Identification of emission hotspots
- Development of reduction strategies
- Customer and stakeholder disclosure requirements

3. ORGANIZATION DESCRIPTION

Company Profile

RKS operates in the machinery and industrial equipment sector, providing:

- Supply and trading of machinery and equipment
- Spare parts distribution
- Installation and commissioning services
- Onsite operation and maintenance
- Equipment servicing and technical support

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Organizational Structure

The company consists of:

- Corporate office operations
- Warehousing and logistics functions
- Service and maintenance teams
- Procurement and supply chain division
- Technical and commissioning departments

Operations, Facilities, and Boundaries

The operational boundary includes:

- Corporate office facilities
- Warehouses and storage locations
- Service operations
- Company-owned and leased vehicles
- Employee commuting activities
- Supplier and logistics-related activities

4. REPORTING BOUNDARY

Organizational Boundary

RKS has adopted the Operational Control Approach for GHG accounting. All facilities and operations under the operational control of the company are included within the reporting boundary.


Operational Boundary

The operational boundary covers:

- Direct emissions from fuel consumption and refrigerants
- Indirect emissions from purchased electricity
- Other indirect emissions associated with supply chain and business activities

Entities and Locations Covered

The report covers all operational sites and service activities controlled by RKS in India during the reporting period.

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5. REPORTING PERIOD

- **Start Date:** 01 January 2025
- **End Date:** 31 December 2025
- **Frequency:** Annual

6. GHG ACCOUNTING METHODOLOGY

Standards Followed

The report has been prepared in accordance with:

- ISO 14064-1:2018
- GHG Protocol Corporate Accounting and Reporting Standard
- IPCC Guidelines
- DEFRA Emission Factors
- India Grid Emission Factors

Calculation Approach

GHG emissions were calculated using the following methodology:

GHG\ Emissions = Activity\ Data \times Emission\ Factor

Where:

- Activity Data refers to fuel usage, electricity consumption, travel distance, logistics data, etc.
- Emission Factors are sourced from recognized international and national databases.


Tools and Software Used

- Microsoft Excel-based GHG calculation sheets
- Utility bills and fuel records
- Logistics and procurement records
- Employee travel and commuting estimates

7. EMISSION SOURCES IDENTIFICATION

Direct and Indirect Emission Sources

Emission Source	Scope
Diesel for DG Sets	Scope 1
Fuel for Company Vehicles	Scope 1
Refrigerant Leakage	Scope 1

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Purchased Electricity	Scope 2
Purchased Goods & Services	Scope 3
Transportation & Logistics	Scope 3
Employee Commuting	Scope 3
Business Travel	Scope 3
Waste Disposal	Scope 3
Downstream Distribution	Scope 3

Mapping of Emission Sources

Emission sources were mapped across:

- Offices
- Warehouses
- Service locations
- Transportation activities
- Supplier and logistics network

8. GHG SCOPE CLASSIFICATION

8.1 SCOPE 1 – DIRECT EMISSIONS

Stationary Combustion

Diesel consumption from DG sets and backup power systems.

Mobile Combustion

Fuel consumption from company-owned service and transport vehicles.

Fugitive Emissions


Leakage of refrigerants from air-conditioning systems.

Process Emissions

No significant process emissions were identified during the reporting period.

Scope 1 Emissions Summary

Source	Emissions (tCO ₂ e)
Stationary Combustion	11.40
Mobile Combustion	14.80
Fugitive Emissions	2.30
Total Scope 1	28.50

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Gas-wise Breakup for Scope 1

Gas	Emissions (tCO ₂ e)
CO ₂	25.90
CH ₄	1.20
N ₂ O	0.80
HFCs	0.60

8.2 SCOPE 2 – INDIRECT ENERGY EMISSIONS

Purchased Electricity

Electricity purchased from the regional electricity grid for office operations and warehousing facilities.

Source	Emissions (tCO ₂ e)
Purchased Electricity	21.80

No purchased steam, heat, or cooling was applicable.

8.3 SCOPE 3 – OTHER INDIRECT EMISSIONS

Included Categories

- Purchased goods and services
- Upstream transportation and distribution
- Waste generated in operations
- Employee commuting
- Business travel
- Downstream transportation and distribution
- Product delivery activities

Scope 3 Emissions Summary


Category	Emissions (tCO ₂ e)
Upstream Activities	146.40
Downstream Activities	82.60
Total Scope 3	229.00

9. GHG DATA COLLECTION & QUALITY

Data Sources and Collection Method

The following data sources were used:

- Electricity bills
- Diesel purchase invoices

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- Vehicle fuel logs
- Vendor transportation records
- Employee travel records
- Waste disposal manifests

Accuracy, Completeness and Reliability

The organization implemented reasonable efforts to ensure:

- Accuracy of data
- Completeness of operational coverage
- Consistency in calculation methodology

Data Management Procedure & Controls

- Centralized data compilation
- Internal review and verification
- Cross-functional validation
- Document retention practices

10. EMISSION FACTORS


Sources of Emission Factors

Emission factors were obtained from:

- IPCC 2006 Guidelines
- DEFRA Conversion Factors
- Central Electricity Authority (India Grid Factor)
- GHG Protocol databases

Units and Justification

Activity	Unit
Diesel Consumption	kg CO ₂ e/litre
Electricity	kg CO ₂ e/kWh
Transportation	kg CO ₂ e/km
Waste Disposal	kg CO ₂ e/kg waste

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11. CALCULATION RESULTS

11.1 TOTAL GHG EMISSIONS

Scope	2023 Emissions (tCO ₂ e)	2024 Emissions (tCO ₂ e)	2025 Emissions (tCO ₂ e)
Scope 1	32.82	30.67	28.50
Scope 2	25.44	23.62	21.80
Scope 3	250.38	239.55	229.00
Scope 3 Upstream	158.92	152.33	146.40
Scope 3 Downstream	91.46	87.22	82.60
Total Emission	308.64	293.84	279.30

Emission Contribution by Scope

Scope	Contribution
Scope 1	10.20%
Scope 2	7.81%
Scope 3	81.99%


11.2 EMISSION BREAKDOWN BY SOURCE

Emission Source	Emissions (tCO ₂ e)
Fuel Consumption	26.20
Refrigerants	2.30
Purchased Electricity	21.80
Transportation & Logistics	118.50
Employee Commuting	32.00
Purchased Goods & Services	54.20
Waste Disposal	12.10
Business Travel	13.20

11.3 EMISSION INTENSITY INDICATORS

Assuming:

- Total Employees: 90
- Operational Area: 1,800 sq.ft.

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Intensity Metrics

Indicator	Value
tCO ₂ e per Employee	5.82
tCO ₂ e per 100 sq.ft.	15.52

12. BASE YEAR & TREND ANALYSIS

Base Year Selection

The year 2025 has been selected as the base year because it represents the first complete and verified organizational GHG inventory.

Historical Comparison

Future emission reductions will be compared against the 2022 baseline.

Adjustments for Organizational Changes

No major structural or organizational changes occurred during the reporting year.

13. UNCERTAINTY ASSESSMENT

Sources of Uncertainty

- Estimation-based Scope 3 calculations
- Transportation distance assumptions
- Vendor data limitations
- Emission factor variability

Method Used


A qualitative uncertainty assessment approach was adopted.

Confidence Level

Overall confidence level is estimated to be moderate to high.

14. DATA QUALITY ASSESSMENT

Parameter	Quality Rating
Fuel Data	High
Electricity Data	High
Travel Data	Medium
Scope 3 Supplier Data	Medium

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Cross-checks and Validations

- Invoice verification
- Consumption trend review
- Random sampling checks
- Internal management review

15. GHG REDUCTION INITIATIVES

Energy Efficiency Programs

- LED lighting installation
- Efficient HVAC usage
- Preventive maintenance of equipment

Waste & Water Reduction Measures

- Waste segregation practices
- Reduction in paper usage
- Improved inventory planning

Future Sustainability Goals

- Increase renewable energy usage
- Optimize logistics and transportation
- Introduce low-emission service vehicles
- Enhance supplier ESG engagement

16. FUTURE TARGETS


RKS aims to:

- Reduce Scope 1 and Scope 2 emissions by 20% by 2030
- Reduce transportation emissions through route optimization
- Improve energy efficiency across all operational sites
- Increase sustainability awareness among employees and suppliers

17. CONCLUSIONS

Summary of GHG Performance

The assessment indicates that Scope 3 emissions are the largest contributor to RKS's carbon footprint, primarily driven by logistics and supply chain activities.

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Success and Opportunities

The organization has successfully established a baseline inventory and identified key opportunities for carbon reduction through operational optimization and supplier engagement.

Plan for Next Reporting Period

- Improve Scope 3 data collection
- Introduce digital monitoring systems
- Explore renewable electricity procurement
- Develop science-based reduction targets