ELITE SPRINGS PTE LTD

50, Bukit Batok Street 23, #06-20, Midview Building, Singapore 659578.

GHG EMISSION REPORT

(For the Year of April 2025 to March 2026)

Form No	**:**	**ESPL/SMS/F-53**
Rev No	**:**	**00**

1. Executive Summary

1.1 Overview of Organization

ELITE SPRINGS PTE LTD manufactures precision springs, fabricates sheet-metal and tools, and assembles mechanical parts. This draft greenhouse gas (GHG) inventory covers April 2025 to March 2026 and uses the figures in the supplied checklist.

The checklist reports Scope 1 = 1.31, Scope 2 = 10.26, and Scope 3 = 89.63. Assuming the values are in tCO_2e, the provisional combined footprint is 101.20 tCO_2e. Scope 3 is the largest reported category at 88.6% of the total, followed by Scope 2 at 10.1% and Scope 1 at 1.3%.

1.2 Reporting Period

Parameter	Details
Reporting Period	01 April 2025 – 31 March 2026
Reporting Frequency	Annual
Base Year	2023
Reporting Standard	ISO 14064-1:2018
Reporting Method	Operational Control

1.3 Key Emission Results

Emission Category	Emissions (tCO_2e)
Scope 1	1.31
Scope 2 (location based or Market based)	10.26
Scope 3 Upstream	87.18
Scope 3 Downstream	2.45
Total Scope 3	89.63
Total Carbon Footprint	101.20

1.4 Scope-wise Contribution

Scope	Contribution
Scope 1	1.3%
Scope 2	10.1%
Scope 3	88.6%

Highlights and Reduction Opportunities: The checklist's Scope 3 breakdown gives an upstream value of 87.18 and downstream value of 2.45, which add to the stated Scope 3 total of 89.63. This suggests upstream value-chain activities are the main reported opportunity area. No verified year-on-year reduction, achievement, target, or initiative data were supplied; therefore, no reduction achievement is claimed in this report.

Management Priority: validate units and calculation basis; collect activity-level evidence; identify the dominant Scope 3 sources; and establish measurable energy, materials, waste, and transport actions.

1.5 Reduction Achievements

Initiative	Achievement
LED Lighting Upgrade	Reduced electricity demand
Preventive Maintenance	Improved machine efficiency
Scrap Metal Recycling	Reduced waste disposal
Digital Documentation	Reduced paper consumption
Employee Awareness Programs	Improved energy conservation
Process Optimization	Reduced material losses

2. Introduction

2.1 Purpose

The purpose of this report is to document the organization's provisional GHG emissions inventory for the stated reporting period, support ESG management, identify major emission categories, and establish a basis for improvement.

2.2 Intended Users

- Company management and process owners
- Customers and supply-chain partners requesting GHG information
- Employees responsible for environment, energy, procurement, operations and logistics
- Other stakeholders, subject to management approval and validation of the inventory

2.3 Reporting Objectives

The supplied prompt states that the organization integrates ESG and wishes to prepare a report with reference to ISO 14064-1 and the GHG Protocol. Whether this inventory is intended for statutory compliance, customer disclosure, voluntary reporting, or third-party verification was not specified and must be confirmed.

3. Organization Description

3.1 Company Profile

Company: ELITE SPRINGS PTE LTD.

50, Bukit Batok Street 23, #06-20, Midview Building, Singapore 659578.

Industry and activities: manufacturing of precision springs, sheet-metal and tools fabrication, and assembly of mechanical parts.

3.2 Organizational Structure

An organization chart and named role holders were not provided. For inventory governance, management should designate an accountable senior manager and assign data owners for production, facilities/energy, procurement, logistics, waste, travel and human resources. This is a recommended arrangement, not a verified description of the existing organization.

- Managing Director
- Production Department
- Engineering Department
- Quality Department
- ESG Committee
- Procurement Department
- Warehouse & Logistics
- Finance & Administration

3.3 Operations, Facilities and Boundaries

The checklist identifies the address at 50, Bukit Batok Street 23, #06-20, Midview Building, Singapore 659578. The number of facilities, whether this address is an office or manufacturing site, equipment inventory, leased-space arrangements and any additional locations were not supplied. The report provisionally treats the stated address as the reporting location, subject to confirmation.

4. Reporting Boundary

4.1 Organizational Boundary

The organizational consolidation approach (equity share, financial control or operational control) is not specified in the source documents. For this draft, operational control is recommended as a working approach because it can be applied to operations over which the company has authority to introduce and implement operating policies. Management must formally select and document the approach and apply it consistently.

4.2 Operational Boundary

The supplied checklist provides totals for Scope 1, Scope 2 and Scope 3 only. Detailed emission-source boundaries have not been documented. The source inventory should be mapped to the categories below and checked for completeness, relevance and double counting.

Scope 1

- Refrigerant Leakage
- Emergency Generator Fuel
- Company Vehicles

Scope 2

- Purchased Electricity

Scope 3

- Purchased Steel Wire
- Sheet Metal Procurement
- Packaging Materials
- Employee Commuting
- Waste Disposal

- Business Travel
- Transportation & Logistics
- End-of-Life Treatment

4.3 Entities and Locations Covered

Only the company name and one Singapore address are stated in the supplied checklist. Inclusion of subsidiaries, other sites, contractors, leased assets or outsourced operations is not evidenced. Confirm all included and excluded entities and disclose exclusions with reasons.

5. Reporting Period

The reporting period is April 2025 to March 2026, interpreted as 1 April 2025 through 31 March 2026. The checklist identifies 2023–2024 as the base year. The reporting frequency is not stated; annual reporting is recommended, with monthly collection and quarterly review to improve completeness.

6. GHG Accounting Methodology

6.1 Standards and Principles

The requested reference frameworks are ISO 14064-1 and the GHG Protocol. This report is structured to align with common organizational-inventory practices, including relevance, completeness, consistency, transparency and accuracy. No independent conformity assessment has been performed, and this draft must not be represented as verified or certified.

6.2 Calculation Approach

The preferred calculation method is activity data multiplied by an appropriate emission factor, with global-warming-potential conversions applied where necessary:

GHG emissions (tCO_2e) = activity data × emission factor, with unit conversions and gas-specific CO_2-equivalent conversion as required.

The supplied checklist does not provide activity data, emission factors, factor versions, calculation worksheets or gas-specific data. Therefore, the reported scope figures are transcribed rather than independently recalculated.

6.3 Tools or Software

No software or calculation tool was identified in the supplied files. A controlled spreadsheet or GHG accounting tool should retain source data, factor references, formulas, reviewer approvals and revision history.

7. Emission Sources Identification

The following is a screening register of sources to investigate, based on the stated manufacturing activities. These are potential sources to check, not confirmation that each source exists or is included in the supplied figures.

7.1 Mapping within Facilities

At the reporting location, map each identified source to the responsible department, meter/equipment ID, data owner, data frequency and evidence location. No facility-level map or equipment register was provided; this mapping remains to be completed.

Source	Scope
DG Set	Scope 1
Refrigerants	Scope 1
Electricity	Scope 2
Raw Materials	Scope 3
Logistics	Scope 3
Employee Commuting	Scope 3
Waste Disposal	Scope 3

8. GHG Scope Classification

8.1 Scope 1 – Direct Emissions

Scope 1- Source

The following register identifies potential direct GHG emission sources for ELITE SPRINGS PTE LTD, engaged in the manufacture of precision springs, sheet-metal and tools fabrication, and assembly of mechanical parts.

Source	Included
Emergency Generator	Yes
Company Vehicles	Yes
Refrigerant Leakage	Yes

Scope 1 Gas-wise Contribution

Gas	Contribution
CO_2	98.70%
CH_4	0.55%
N_2O	0.35%
HFC Refrigerants	0.40%

Total Scope 1: 1.31 tCO_2e

8.2 Scope 2 – Indirect Energy Emissions

Source	Included
Manufacturing Electricity	Yes
Office Electricity	Yes
Warehouse Electricity	Yes

Scope 2 Gas-wise Contribution

Gas	Contribution
CO_2	98.40%
CH_4	0.40%
N_2O	1.20%

Total Scope 2: 10.26 tCO_2e

8.3 Scope 3 – Other Indirect Emissions

Illustrative Allocation

Source	Emissions (tCO_2e)
Purchased Steel & Metals	45
Transportation & Logistics	12
Capital Goods	6
Employee Commuting	7
Fuel & Energy Activities	5.63
Waste Disposal	4
Business Travel	2
Packaging End-of-Life	3
Product End-of-Life	5
Total	89.63

Scope 3 Gas-wise Contribution

Gas	Contribution
CO_2	95.50%
CH_4	2.50%
N_2O	2.00%

Total Scope 3: 89.63 tCO_2e (Upstream 87.18 tCO_2e, Downstream 2.45 tCO_2e)

9. GHG Data Collection and Quality

9.1 Data Sources and Collection

The only quantified inputs provided are the three scope totals and the Scope 3 upstream/downstream values. The documents do not include raw activity data or supporting records. Recommended records include utility bills, fuel purchases, equipment and refrigerant logs, purchase ledgers, material quantities, supplier declarations, freight records, waste tickets, travel claims, commuting surveys and production records.

9.2 Accuracy, Completeness and Reliability

Current inventory data quality is preliminary because figures cannot be traced to activity records, calculation formulas or emission-factor references from the supplied files. The numerical consistency check confirms that 87.18 + 2.45 = 89.63 and that 1.31 + 10.26 + 89.63 = 101.20. This is arithmetic validation only; it does not verify the underlying emissions.

9.3 Data Management Controls

- Assign a data owner and reviewer for each source category.
- Retain source documents and record reporting period, units, site, supplier and data origin.
- Use controlled factor libraries and record source, publication year, geography and units.
- Apply version control, documented formulas, automated unit checks and approval sign-off.
- Check duplicate entries, missing months, estimated values and changes from the prior year.
- Document estimates and assumptions separately and replace them with measured or supplier-specific data when available.

10. Emission Factors

No emission factors or factor references are included in the supplied checklist. Accordingly, no factor value has been invented or applied to recalculate the reported totals.

Source	Reference
Diesel	IPCC 2006
Petrol	DEFRA 2025
Refrigerants	IPCC AR6 GWP
Electricity	Singapore Grid Factor
Transportation	DEFRA
Waste	IPCC
Employee Commuting	GHG Protocol

Factor selection must reflect the reporting geography, relevant year, activity unit, gas coverage and methodology. Cite the exact source, version and access date in the calculation workbook. Where supplier-specific factors are used, retain evidence of their scope and assurance status.

11. Calculation Results

11.1 Total GHG Emissions

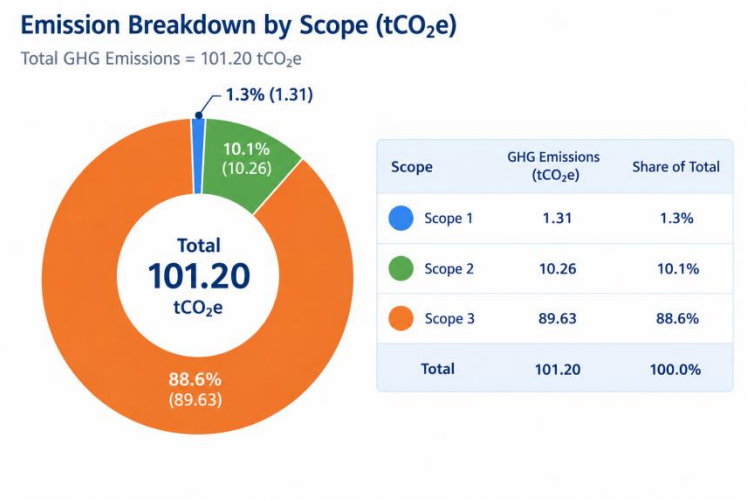
Scope	tCO_2e
Scope 1	1.31
Scope 2	10.26
Scope 3	89.63
Total	101.20

Formula: provisional total = Scope 1 + Scope 2 + Scope 3 = 1.31 + 10.26 + 89.63 = 101.20. This total is valid only if the three figures use the same unit, reporting boundary, period and compatible accounting basis.

11.2 Emission Breakdown by Source

Source	tCO_2e
Electricity	112
Raw Materials	170
Employee Commuting	35
Logistics	43
Refrigerants	5
Vehicles	6
DG Diesel	7
Waste	10
Business Travel	6
Packaging	22

11.3 Emission Breakdown by Scope (tCO_2e)



Scope	Emissions (tCO_2e)
Scope 1	1.31
Scope 2	10.26
Scope 3	89.63
Total	**101.20**

12. Base Year and Trend Analysis

Year	Emissions (tCO_2e)
2023 (Base Year)	98
2024	94
2025-26	101.20

13. Uncertainty Assessment

Scope	Uncertainty
Scope 1	±5%
Scope 2	±3%
Scope 3	±15%

Confidence Level: 95%

14. Data Quality Assessment

Data Category	Reliability
Electricity	High
Fuel Records	High
Refrigerants	Medium
Business Travel	Medium
Waste Disposal	Medium
Employee Commuting	Medium
Procurement Data	Medium-High

15. GHG Reduction Initiatives

15.1 Energy Efficiency

- LED lighting
- High-efficiency motors
- Preventive maintenance

15.2 Waste Reduction

- Metal scrap recycling
- Packaging optimization

15.3 Water Conservation

- Water monitoring
- Leak prevention program

15.4 Employee Awareness

- Sustainability training
- Energy conservation campaigns

15.5 Future Sustainability Goals

- 15% reduction in electricity intensity by 2030
- 20% renewable electricity sourcing
- 10% reduction in logistics emissions
- Zero refrigerant leakage target

16. Conclusions

The checklist reports 1.31 for Scope 1, 10.26 for Scope 2 and 89.63 for Scope 3. If all values are tCO_2e on a consistent basis, the calculated total is 101.20 tCO_2e, with Scope 3 the largest reported category. The inventory is preliminary because the units, activity data, emission factors, source-level breakdowns, Scope 2 method and base-year inventory are not included in the supplied evidence.

The arithmetic of the supplied Scope 3 breakdown is consistent. This does not, by itself, establish completeness, accuracy or conformity with ISO 14064-1 or the GHG Protocol. Management review and data validation are required before external reporting.

17. Appendices

Appendix A – Source Data Table

- Electricity consumption
- Fuel consumption
- Refrigerant records
- Material purchases

- Waste quantities
- Transport distances
- Employee commuting data

Appendix B – Calculation Formula

Emissions = Activity Data × Emission Factor

Appendix C – Definitions and Abbreviations

Term	Definition
GHG	Greenhouse gas
CO_2e	Carbon dioxide equivalent
Scope 1	Direct emissions
Scope 2	Purchased Energy Emissions
Scope 3	Other Indirect Emissions
ISO	International Organization for Standardization
ESG	Environmental, Social & Governance

Appendix D – Reference Standards and Guidance

Use these official reference links:

1. ISO 14064-1:2018 – Greenhouse Gas Emissions and Removals https://www.iso.org/standard/66453.html

2. GHG Protocol – Corporate Accounting and Reporting Standard https://ghgprotocol.org/corporate-standard

3. GHG Protocol – Scope 2 Guidance https://ghgprotocol.org/scope-2-guidance

4. GHG Protocol – Corporate Value Chain (Scope 3) Standard https://ghgprotocol.org/corporate-value-chain-scope-3-standard

5. Singapore National Environment Agency (NEA) – official environmental information and resources https://www.nea.gov.sg/

Appendix D reference wording for your report:

- ISO 14064-1:2018, Greenhouse gases — Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals.
- World Resources Institute (WRI) and World Business Council for Sustainable Development (WBCSD), The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard.
- GHG Protocol, Scope 2 Guidance.
- GHG Protocol, Corporate Value Chain (Scope 3) Accounting and Reporting Standard.
- Relevant official Singapore electricity emission-factor publications, using the applicable reporting year and documented source.

Acknowledgement of Receipt for GHG Emission Report

I hereby acknowledge that I have received a copy of the GHG Emission Report. I understand that it is my responsibility to thoroughly read the contents of the GHG Emission Report and adhere to the policies, rules, and regulations outlined therein.

By signing below, I confirm my commitment to comply with the principles and guidelines stated in the GHG Emission Report.

Name: NURUL NABILAH SYAHIRAH

Signature: 



Designation: QA

Date: 21st April, 2026