# GHG Emission Report

# SHILPA PHARMA LIFESCIENCE LTD.

**Reporting Year**

FY 2022-23

FY 2023-24

FY 2024-25

# GHG Emissions in Accordance with ISO 14064 and the GHG Protocol

ISO 14064

GREENHOUSE GAS PROTOCOL

Growlity™
Growth with Sustainability

# GHG

PFCS $CO_2$ $N_2O$ HFCS $CH_4$ $SF_6$

Growlity™
Growth with Sustainability

## SCOPE 3

INDIRECT
Upstream activities


LEASED ASSETS

WASTE GENERATED IN OPERATIONS



BUSINESS TRAVEL

FUEL AND ENERGY RELATED



TRANSPORTATION AND DISTRIBUTION

PURCHASED GOODS AND SERVICES



CAPITAL GOODS

## SCOPE 1

DIRECT

COMPANY FACILITIES & VEHICLES

## SCOPE 2

INDIRECT

PURCHASED ELECTRICITY, STEAM, HEATING AND COOLING FOR OWN USE

## SCOPE 3

INDIRECT
Downstream activities

FRANCHISES



INVESTMENTS

END-OF-LIFE TREATMENT OF SOLD PRODUCTS



LEASED ASSETS

PROCESSING OF SOLD PRODUCTS



USE OF SOLD PRODUCTS

TRANSPORTATION AND DISTRIBUTION

Reference for used for study: ISO 14064 & Green House Gas Protocol

# ISO 14064 and the GHG Protocol

### 1. Developing Accurate GHG Inventories

We systematically monitor and document greenhouse gas (GHG) emissions from all parts of our operations every year, making sure our records include all relevant sources for accurate and complete reporting.

### 2. Implementing Emission Reduction Strategies

We find ways to minimise greenhouse gas emissions, put in place effective strategies to achieve these reductions, and regularly check and improve our processes to reduce our GHG footprint.


### 3.Transparent Reporting

We create comprehensive reports on our greenhouse gas emissions and reduction activities, in accordance with the ISO 14064, GHG Protocol standards and GRI Standards.

### 4. Third-Party Verification

We engage independent third-party experts to review and verify our greenhouse gas (GHG) data, demonstrating our commitment to accuracy, transparency, and accountability.

**Note:** Relevant operational data are identified based on materiality, and emissions are estimated using industry-average emission factors in line with GHG Protocol guidelines.

# LOCATION COVERED

## Registered Office

Plot No. 12-6-214/A-1, Shilpa House, Hyderabad Road, Raichur 584135, Karnataka, India.

## Unit 1

Plot No. 1A & 1A P, 1B, 2, 2A, 2B, 3A to 3E, 4A, 5A, 4B & 5B, Deosugur Industrial Area, Raichur 584170, Karnataka, India.

## Unit 2 (100% EOU) and R&D Centre

Plot No. 33, 33A & 40-47, Raichur Industrial Growth Centre, Wadloor Road, Chicksugur Post, Raichur 584134, Karnataka, India.

# Introduction of GHG Emission

## SCOPE 1 DIRECT GHG EMISSION

Organization-owned emissions, on-site combustion, vital for assessing, reducing the entity's GHG footprint during period.

## SCOPE 2 INDIRECT GHG EMISSION

Indirect emissions from purchased energy, crucial for assessing and reducing an organization's environmental impact for period.

## SCOPE 3 OTHER INDIRECT GHG EMISSION

Indirect emissions from the entire value chain, encompassing suppliers, customers, influencing sustainability impact during period.

# SCOPE 1 DIRECT GHG EMISSION

Relevant SDG's








# Scope 1

## Stationary Combustion

## Consumption of Liquid Fuels - Disel & Furnace oil

| FY 2021-22 | FY 2022-23 | FY 2023-24 | FY 2024-25 |
|---|---|---|---|
| 743.89 | 718.96 | 607.17 | 480.10 |
| 2,043.17 | 1,987.23 | 1,677.17 | 1,329.80 |

Consumption in KL

GHG Emission TCO2Eq

# Scope 1

## Stationary Combustion

## Consumption of Gaseous Fuels - LPG & CNG

| FY 2021-22 | FY 2022-23 | FY 2023-24 | FY 2024-25 |
|---|---|---|---|
| 15.98 T | 15.80 T | 18.50 T | 13.02 T |
| 47.62 | 47.10 | 55.12 | 1,48,685.96 SCM |
| | | | 817.75 |

GHG Emission
TCO2Eq

Shilpa

Growlity™
Growth with Sustainability

# FUGITIVE EMISSION

## Consumption of Refiling of refringent Gas R314A, R-22, R-23, R-32, R404A, R407C & R410A

### FY 2021-22

- 929.8
- 1,809.33

### FY 2022-23

- 955.35
- 1,618.39

### FY 2023-24

- 539
- 923.39

### FY 2023-25

- 357.5
- 284.44

Consumption in kg

GHG Emission TCO2Eq

Shilpa

Growlity™ Growth with Sustainability

# GROUP LEVEL SUMMARY OF SCOPE 1

## GHG Emission TCO2Eq

| FY 2021-22 | FY 2022-23 |
|---|---|
| 3,900 | 3,653 |

| FY 2023-24 | FY 2024-25 |
|---|---|
| 2,656 | 2,432 |

Shilpa

Growlity™
Growth with Sustainability

# SCOPE 2 INDIRECT GHG EMISSION

Relevant SDG's

# Electricity from Renewable Sources & Non Renewable Sources

## Energy from electricity

| FY 2021-22 | FY 2022-23 | FY 2023-24 | FY 2024-25 |
|---|---|---|---|
| 2,71,29,408 | 2,88,27,850 | 2,88,68,025 | 3,78,48,758 |
| 22,246.11 | 23,638.84 | 23,671.78 | 31,035.98 |

Consumption in kwh

GHG Emission TCO2Eq

## Energy from Renewable source

| FY 2021-22 | FY 2022-23 | FY 2023-24 | FY 2024-25 |
|---|---|---|---|
| 2,28,17,558 | 2,01,80,000 | 2,60,33,000 | 2,65,34,220 |
| 84.1% | 70.0% | 90.2% | 70.1 |

Consumption in kwh

Renewable energy %

# SCOPE 3
# OTHER INDIRECT
# GHG EMISSION

Relevant SDG's

# Employee transportation

## (Petrol)

| | | |
|---|---|---|
| **FY 2021-22** | 166 | 378.65 |
| **FY 2022-23** | 139 | 317.06 |
| **FY 2023-24** | 185.24 | 422.54 |
| **FY 2024-25** | 163.78 | 373.59 |

Consumption in KL

GHG Emission TCO2Eq

# Employee transportation

## (Diesel)

| | | |
|---|---|---|
| FY 2021-22 | 21 | 55.44 |
| FY 2022-23 | 17 | 44.88 |
| FY 2023-24 | 46.17 | 121.88 |
| FY 2024-25 | 47.43 | 125.21 |

Consumption in KL

GHG Emission TCO2Eq

# Goods Transportation

## (Diesel)

| | | |
|---|---|---|
| **FY 2021-22** | 168 | 443.52 |
| **FY 2022-23** | 132 | 348.48 |
| **FY 2023-24** | 157.90 | 416.85 |
| **FY 2024-25** | 137.80 | 363.79 |

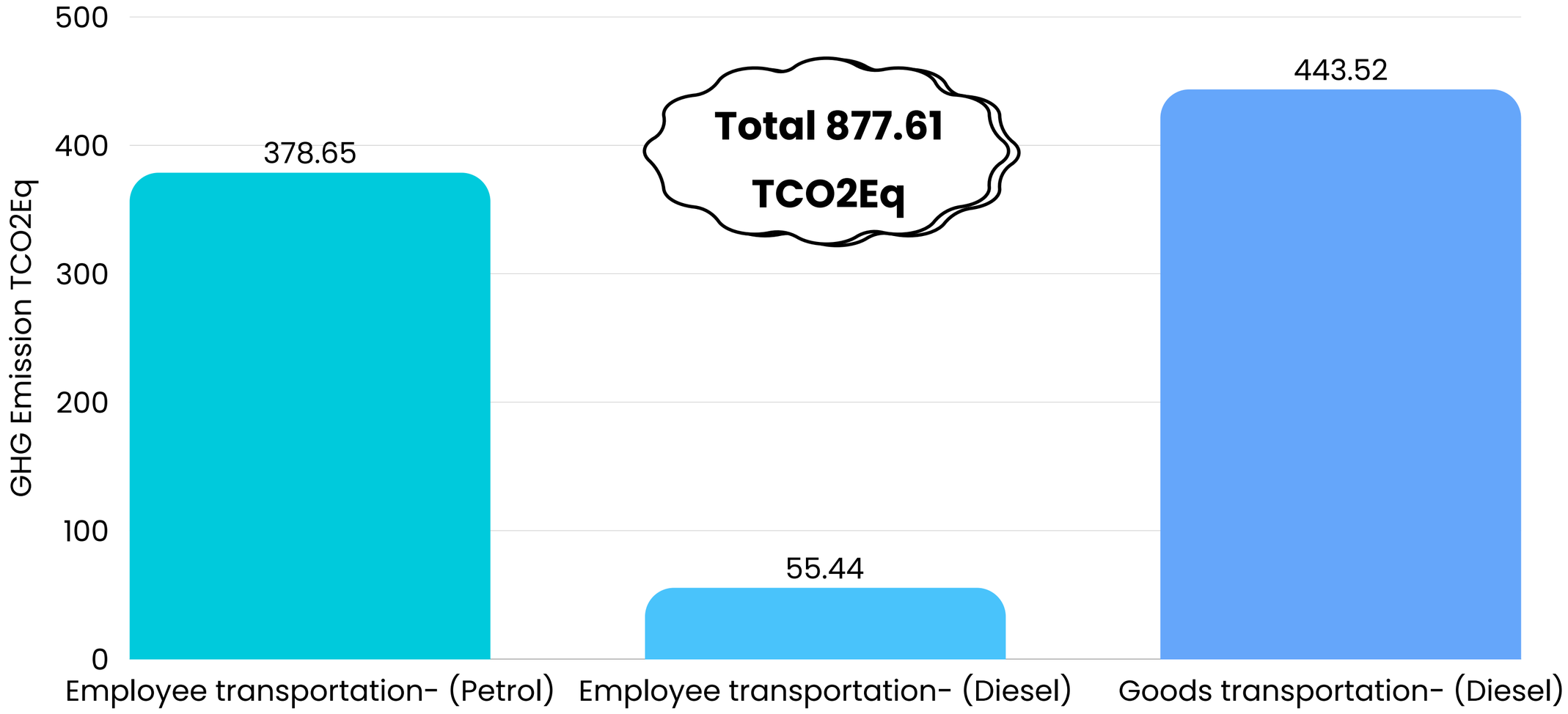
Consumption in KL

GHG Emission TCO2Eq

# Summary of Scope 3

## GHG Emission TCO2Eq

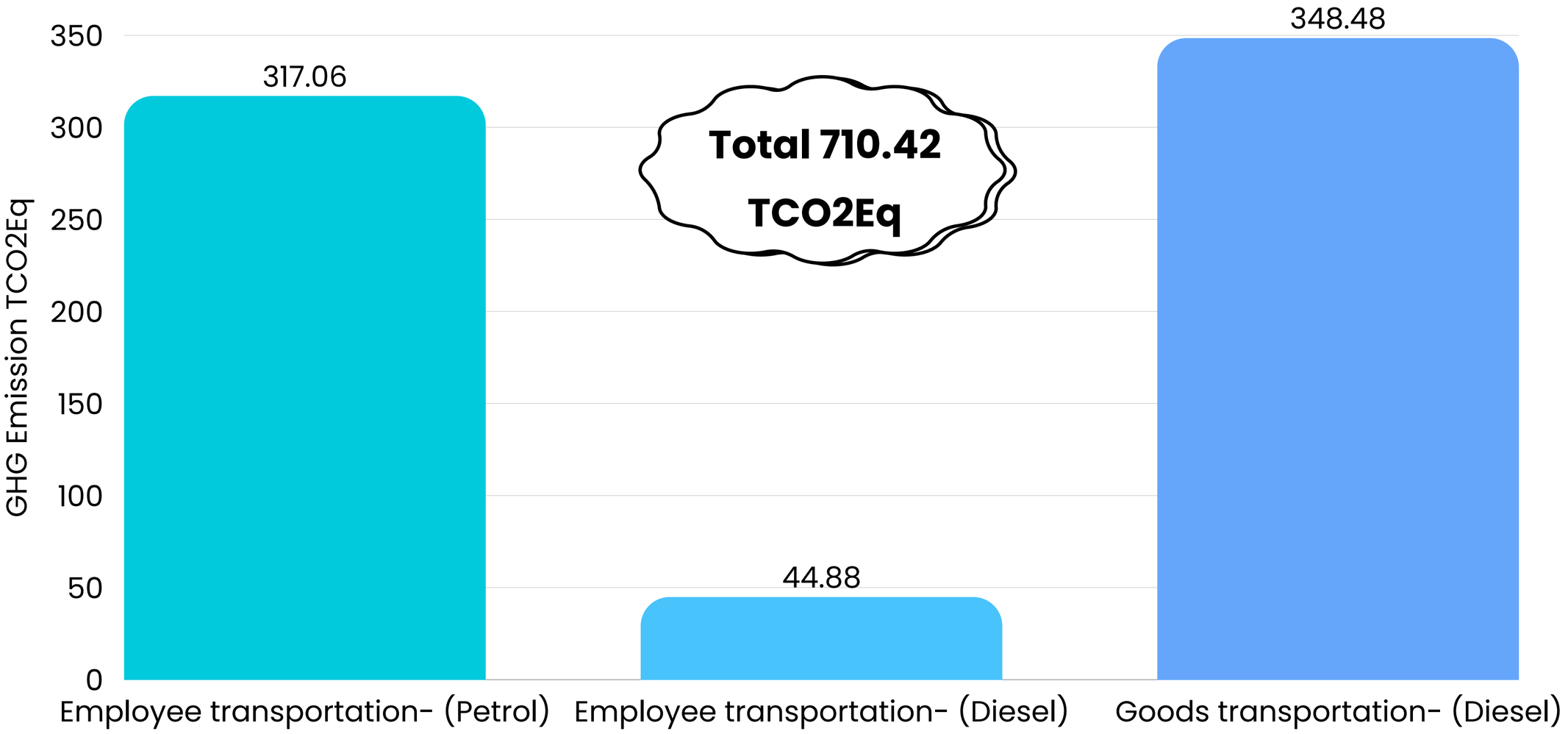
## FY 2021-22



# Summary of Scope 3

## GHG Emission TCO2Eq

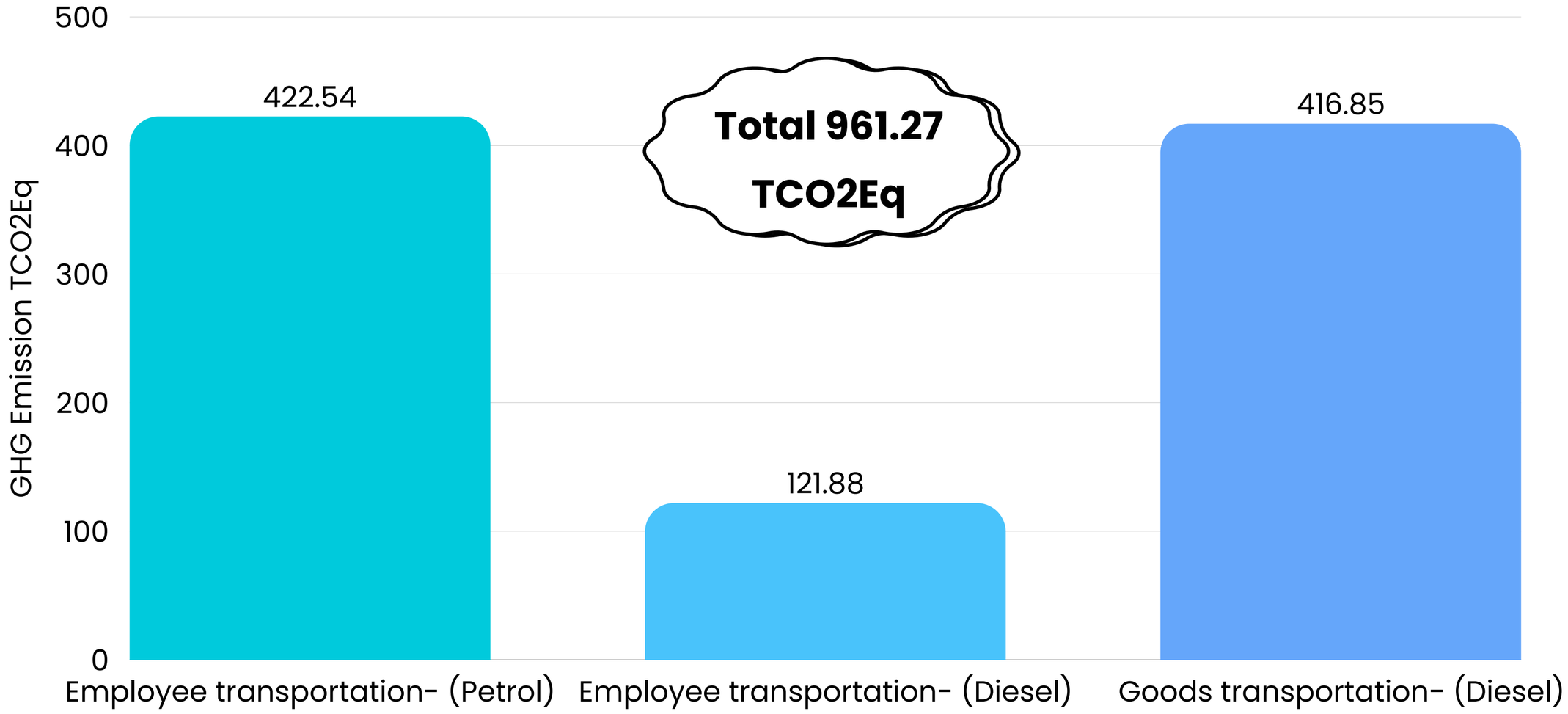
## FY 2022-23



# Summary of Scope 3

## GHG Emission TCO2Eq

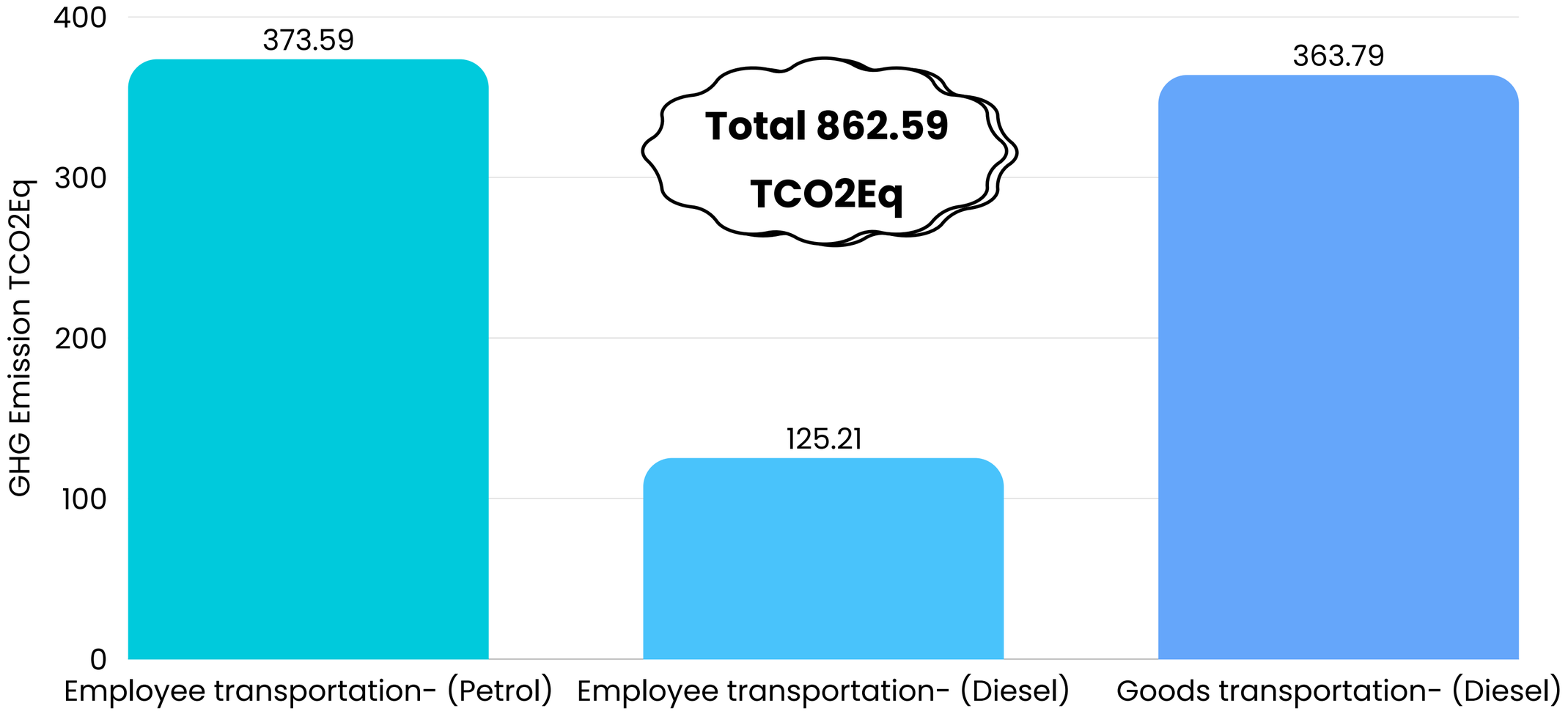
### FY 2023-24



# Summary of Scope 3

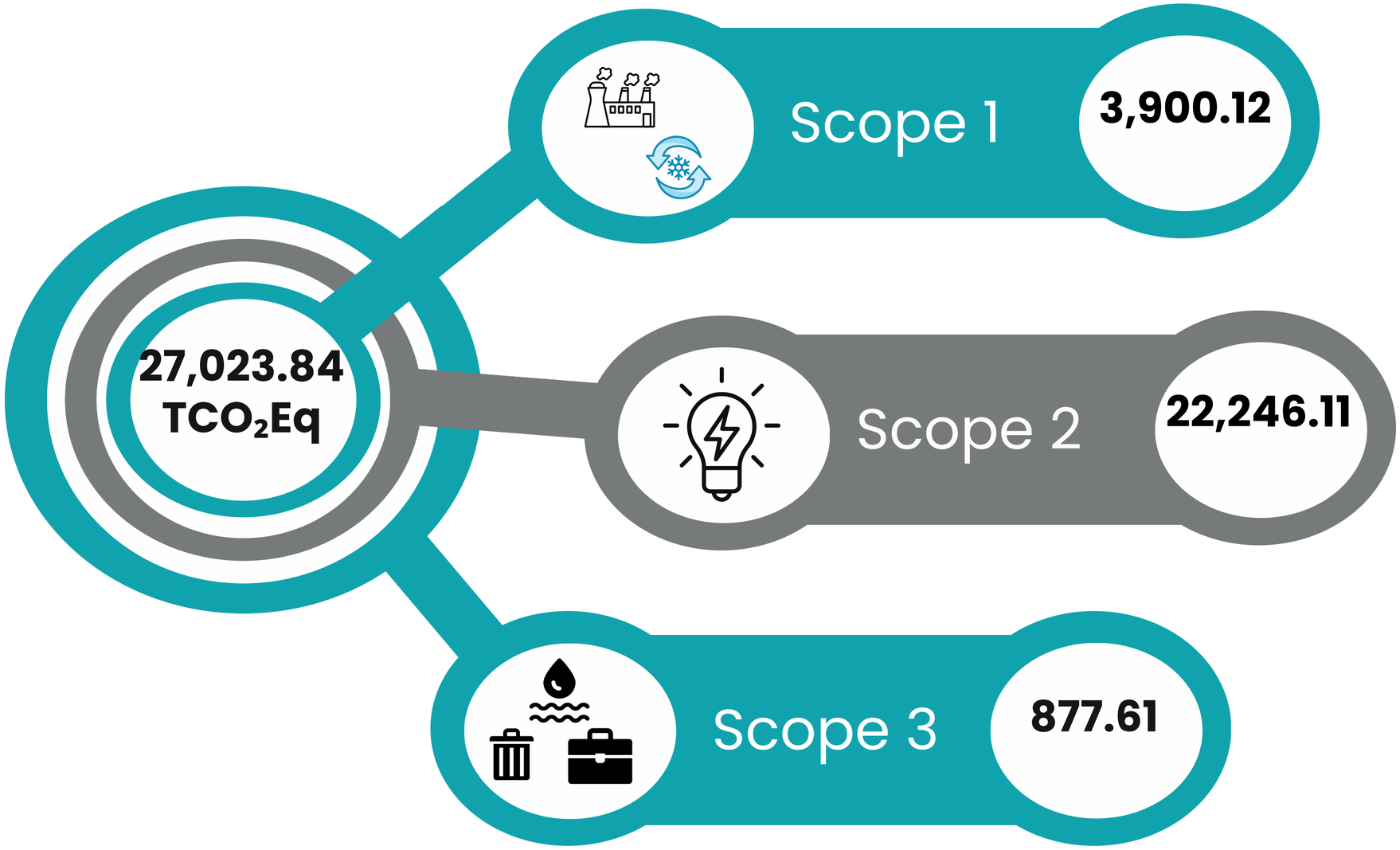
## GHG Emission TCO2Eq

## FY 2024-25



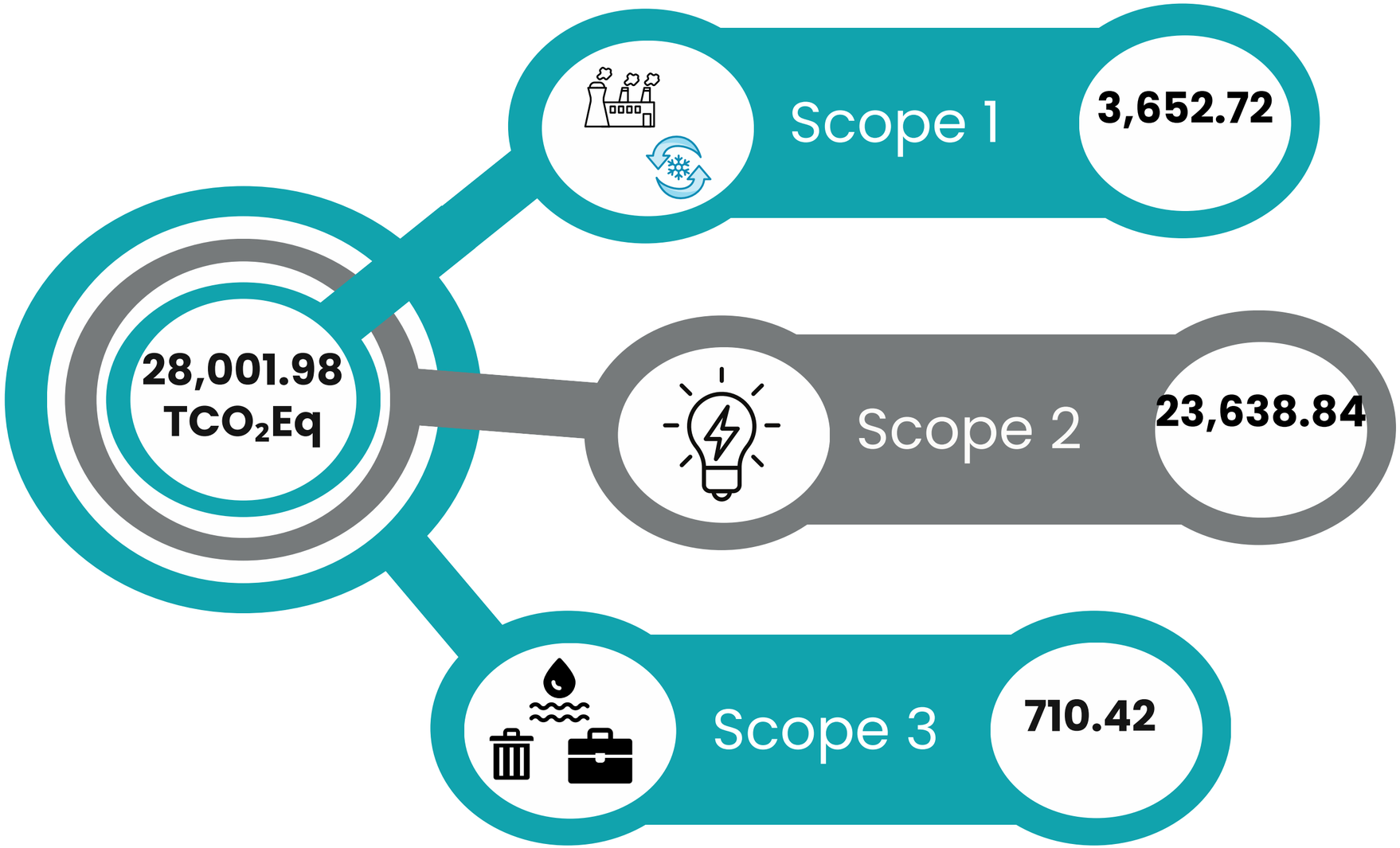
# Total Group level GHG Emission $TCO_2Eq$

Reporting Period
FY 2021-22



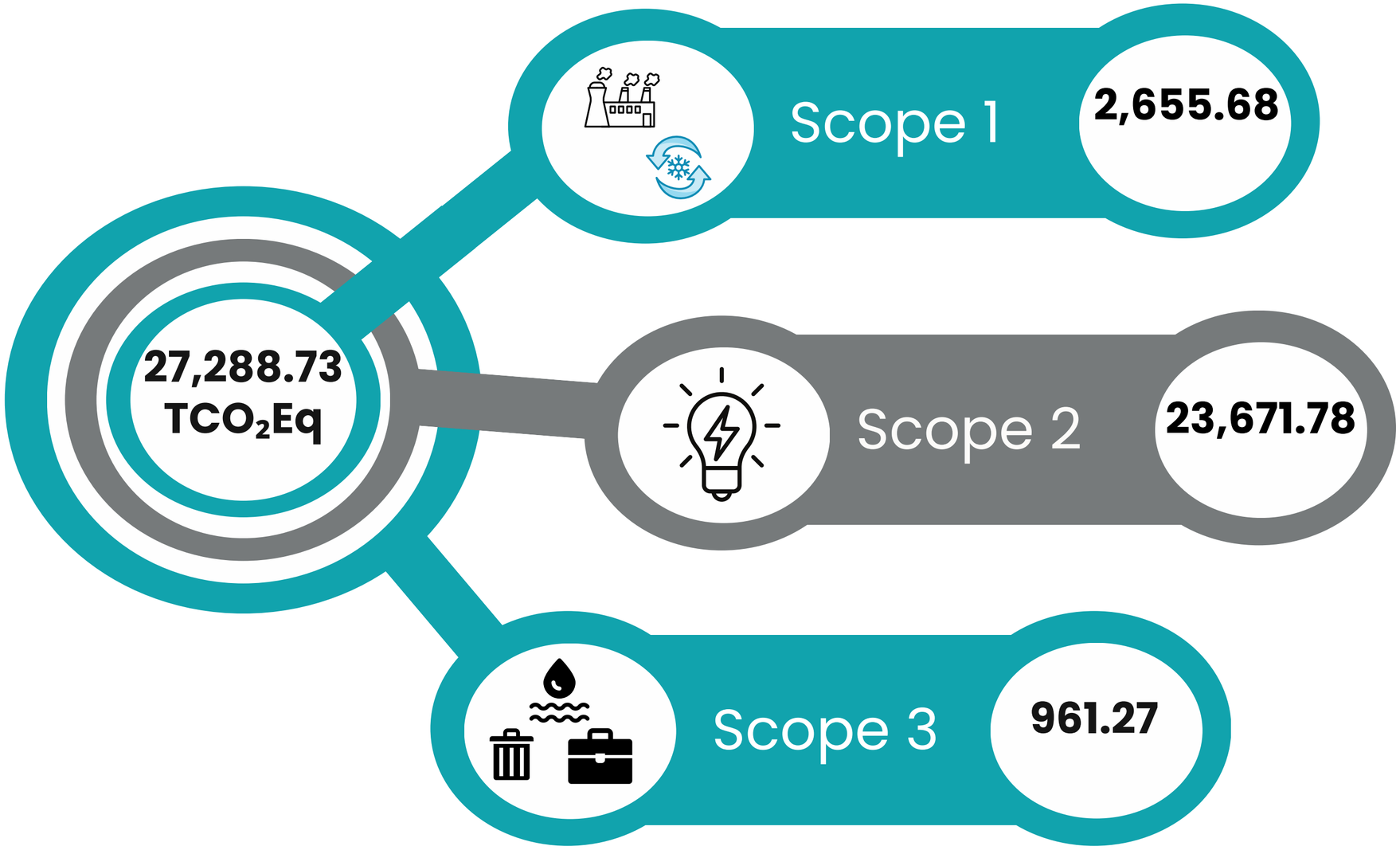
# Total Group level GHG Emission $TCO_2Eq$

Reporting Period
FY 2022-23



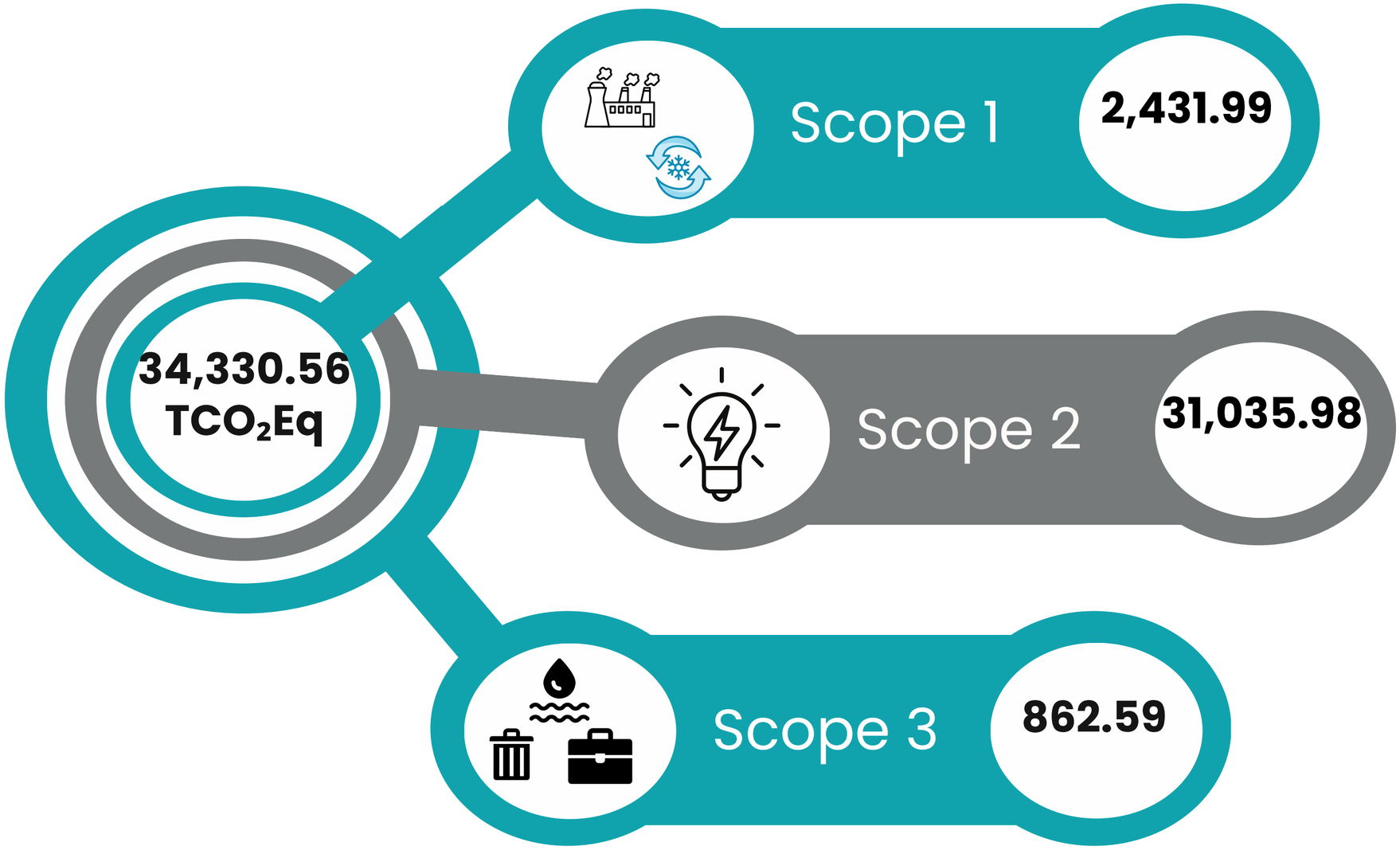
# Total Group level GHG Emission $TCO_2Eq$

Reporting Period
FY 2023-24



# Total Group level GHG Emission $TCO_2Eq$

Reporting Period
FY 2024-25



# GHG Emission Reduction Budget Plan for Shilpa Pharma Lifescience ltd.

**GHG Emission Reduction Budget Plan:**

As part of its commitment to climate action, Shilpa Pharma Lifesciences Ltd has allocated ₹8.44 crore (1% of the total capital outlay) toward targeted GHG emission reduction initiatives. This budget will be used for focused interventions such as energy-efficient equipment upgrades, renewable energy installations, sustainable procurement, and verified carbon offset programs. These actions are designed to adher with Scope 1, 2, and 3 emissions categories under the GHG Protocol and ISO 14064-1:2018, ensuring measurable climate benefits and responsible environmental stewardship.

**Key Strategies for GHG Emission Reduction**

- Upgrade machinery, improve production efficiency, and reduce on-site fuel consumption.
- Install solar panels and enter into green power agreements to reduce grid dependency.
- Transition to low-carbon fuels and electrification of internal transport systems.
- Source eco-certified raw materials and reduce emissions across the supply chain.
- Invest in afforestation, carbon credits, and third-party verified offset programs.
- Digitize emissions tracking and implement external audits for verification.

# Budget Table - GHG Emission Reduction Plan

| Scope | Emission Reduction Strategy | Time Period | Budget (₹) | Description | Team Responsibility | Expected Emission Reduction ($TCO_2e$) | Key Performance Indicators (KPIs) |
|---|---|---|---|---|---|---|---|
| Scope 1 | Machinery and HVAC energy efficiency upgrades | FY 2029-31 | 1,50,00,000 | Replacing inefficient equipment and motors | Engineering Team | 3,000 – 3,500 | kWh reduction, improved specific energy consumption |
| Scope 1 | Transition to low-carbon fuels | FY 2028–29 | 1,00,00,000 | Replacing diesel/LPG with biofuels or PNG | Utility & Energy Team | 2,000 – 2,500 | % fossil fuel replaced |
| Scope 1 | Electrification of internal logistics (EV forklifts) | FY 2028–30 | 75,00,000 | Converting diesel based forklifts to electric | Maintenance & Transport | 1,000 – 1,200 | Diesel saved (liters), battery usage metrics |
| Scope 2 | Solar power installation (Completed) | FY 2019–20 (Past) | Already Invested | Rooftop solar installed to reduce grid electricity consumption | Engineering & Sustainability | 4,000 – 5,000 | Solar power generated (MWh) |
| Scope 2 | Green electricity purchase (Open Access / I-RECs) | FY 2029 | 1,20,00,000 | Procurement of certified renewable electricity | Procurement & Finance | 2,000 – 2,500 | % power from renewables |
| Scope 3 | Sustainable raw material procurement | FY 2027–30 | 1,00,00,000 | Using low-carbon and recycled materials | Procurement | 3,000 – 4,000 | % of raw materials certified |

# Budget Table - GHG Emission Reduction Plan

| Scope | Emission Reduction Strategy | Time Period | Budget (₹) | Description | Team Responsibility | Expected Emission Reduction ($TCO_2e$) | Key Performance Indicators (KPIs) |
|---|---|---|---|---|---|---|---|
| Scope 3 | Logistics route optimization (digital tools) | FY 2028–30 | 60,00,000 | Implement software to reduce transportation mileage | Logistics & IT | 1,000 – 1,500 | Fuel use per trip |
| Scope 3 | Last-mile delivery electrification (EV pilot) | FY 2026–27 | 40,00,000 | Pilot use of electric vehicles for internal/local goods transport | Logistics | 700 – 1,000 | EV km run, fuel saved |
| Scope 3 | Employee commuting program (carpool & shuttle) | FY 2027–28 | 50,00,000 | Introduce shuttle/ carpooling services for employees | HR & Admin | 500 – 800 | Reduction in single-occupancy travel |
| Scope 3 | Water & steam recovery systems | FY 2030–31 | 50,00,000 | Recover waste heat and steam to reduce energy use | Process & Utility | 800 – 1,200 | kWh/steam recovered |
| Scope 3 | Carbon offset/afforestation (external project) | FY 2028–31 | 99,00,000 | Invest in third-party verified carbon sequestration initiatives | ESG Team | 3,000 – 3,500 | Tonnes $CO_2$ offset, trees planted |
| Scope 3 | GHG data management system + third-party verification | FY 2028–31 | 90,00,000 | Software installation + external audit & assurance | Sustainability & Compliance | Data quality improvement | % of data verified |

# THANK YOU


## Growlity, Inc. USA

+ 1 (718) 690 9291

www.growlity.com

contact@growlity.com

575 FIFTH AVENUE, NEW YORK,

NY 10017, USA

## Growlity Private Limited, India

+ 91 960 131 0999

www.growlity.com

contact@growlity.com

316, RAJHANS MONTESSA, AIRPORT ROAD,

SURAT – 395007. INDIA