

Rep. Ref No. CL/ET/1060-25/GHGS

GHG EMISSIONS REPORT

Client Name:	M/s Collapsible Tubes (Pvt.) Ltd.		
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Contact Person:	Mr. Shahid Mazhar Ali	Title:	DGM Plant & HSE

Methodology:

- ✓ **Scope 1:** Direct emissions from fuel combustion (natural gas, SNG, diesel, petrol).
- ✓ **Scope 2:** Indirect emissions from purchased electricity.
- ✓ **Scope 3:** Emissions from vehicle use (employee commuting, company transport).

Emission factors are based on internationally recognized standards (e.g., IPCC, DEFRA). All values are approximate and expressed in metric tons of CO₂ equivalent (tCO₂e).

Table 1: Scope 1-Direct Emissions

Source	Quantity	Emission Factor (kg CO ₂ /unit)	Emissions (tCO ₂ e)
Natural Gas	261,861 m ³	1.9	501.22
SNG	21,901 m ³	1.9	41.92
Diesel (Gen.)	9,400 L	2.68	25.28
Diesel (Vehicles)	393 L	2.68	1.05
Petrol (Vehicles)	905 L	2.31	1.91
Total Scope 1	—	—	571.86



Table 2: Scope 2-Indirect Emissions (Electricity)

Source	Quantity	Emission Factor (kg CO ₂ /kWh)	Emissions (tCO ₂ e)
Electricity (Grid)	257,690 kWh	0.61	158.576
Solar Power	224,650 kWh	0.00	0.00
Total Scope 2	—	—	158.576

Table 3 Scope 3-Other Indirect Emissions (Vehicles)

Vehicle Type	Fuel Type	Fuel Used (L)	Emission Factor (kg CO ₂ /L)	Emissions (tCO ₂ e)
Cars/Vans	Diesel	393	2.68	1.05
Cars/Vans	Petrol	905	2.31	1.91
Total Scope 3	—	—	—	2.96

Table 4: Total GHG Emissions

Scope	Emissions (tCO ₂ e)
Scope 1	571.86
Scope 2	158.57
Scope 3	2.96.14
Total	729.97


Reviewed by:
Lab Supervisor


Approved by:
Lab Manager

P.S. Report is generated based on data provided by the collapsible tubes (Monthly consumption reports)