

AFC Furniture System Pvt Ltd



# **GHG INVENTORY REPORT - FY 2023-24**

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### Introduction

GHG emissions are closely linked with human induced climate change – a topic which is a top priority for our stakeholders. Stakeholders are pushing for increasingly ambitious GHG emission reduction goals, making our work to track and reduce our GHG emissions more vital than ever.

Climate change has been identified as one of the greatest challenges facing nations, governments, businesses, and citizens. Climate change has implications for both human and natural systems and could lead to significant changes in resource use, production, and economic activity. In response, international, regional, national and local initiatives are being developed and implemented to limit greenhouse gas (GHG) concentrations in the Earth's atmosphere. Such GHG initiatives rely on the quantification, monitoring, reporting and verification of GHG emissions and/or removals, which could be done within the framework of ISO 14064 / The GHG Protocol – A Corporate Accounting & Reporting Standard by World Resources Institute (WRI) and World Business Council for Sustainable Development (WBCSD).

The GHG Protocol specifies principles and requirements at the organization level for quantification and reporting of greenhouse gas (GHG) emissions and removals. It includes requirements for the design, development, management, reporting and verification of an organization's GHG inventory and it is a tool for greenhouse gas (GHG) limitation and reduction.

## **Our Approach to Climate Change**

We stand at the forefront of addressing the critical challenges posed by climate change and greenhouse gas (GHG) accounting and reporting. Recognizing these issues as pivotal to our governance and strategic considerations, we have implemented a comprehensive

approach. Regular GHG inventories, encompassing Scopes 1, 2, and 3 emissions (Category 6, employee commute & 7, employee travel), form the basis of our commitment to transparency and accountability. Holding ISO 50001:2018 certification and prioritizing green manufacturing practices, we continually enhance energy efficiency and integrate renewable sources into our operations. Our dedication to innovation extends to adopting technologies that minimize environmental impact. Collaborating with suppliers, we emphasize sustainable practices throughout our supply chain. Certifications like **ISO 14001:2015**, and **Indoor Advantage Gold** underscore our commitment to environmental responsibility. Transparent reporting and employee engagement initiatives contribute to fostering awareness and accountability within our organization. We view sustainability as an ongoing journey, and through stakeholder collaboration, we aspire to make meaningful contributions to global efforts in combating climate change.

### **About us**

Since our inception in 2008, AFC Furniture Solutions has become a beacon of innovation and advancement in the realm of office furniture manufacturing. Proudly rooted in India, we have swiftly ascended as the industry's fastest-growing brand, providing comprehensive end-to-end solutions through our state-of-the-art Green Manufacturing facility spanning an impressive 2.5 lakh sq ft.

#### **Our Journey:**

From modest origins focused on panel manufacturing, AFC Solutions has evolved into a dynamic organization within a mere three years. Fueled by passion and unwavering commitment, our dedicated team has prioritized delivery timelines, product quality, and client satisfaction, culminating in the establishment of a proficient in-house manufacturing unit capable of delivering modular furniture solutions.

#### **Product Excellence:**

Dedicated to going beyond mere furniture provision, AFC Solutions excels in tailoring solutions to diverse client needs. Our extensive product portfolio spans Workstations, Cabins, Seating Solutions, Loose Furniture, Storage, Educational setups, Laboratories, and more.

#### **Certifications & Compliance:**

Adhering to the highest industry standards, AFC Solutions proudly holds certifications such as ISO 9001:2015, ISO 50001:2018, ISO 45001:2018, and ISO 14001:2015. Additionally, being BIFMA & GREENGUARD Certified and members of NSIC and MSME, underscores our commitment to excellence and compliance.

#### **Green Manufacturing & Sustainability:**

At AFC Solutions, sustainability is not just a practice; it's part of our DNA. Embracing green manufacturing principles to minimize our environmental impact, our products are proudly crafted in India using cutting-edge global technologies and equipment.

### **Recent Acquisitions:**

Demonstrating our commitment to expansion and excellence, AFC Solutions has recently acquired esteemed brands - Livo, Vibrant, and X-Bench, formerly under the wing of Wipro Enterprises' furniture business.

### **Client Satisfaction & Nationwide Presence:**

In our 15 years of operation, AFC Solutions has achieved a remarkable 97% client satisfaction rate across various sectors. Our agile business model enables us to concentrate on quality, design, manufacturing, and timely delivery, reaching clients nationwide, including tier 2 and 3 regions.

#### **Crafting Sustainable Excellence:**

As we navigate the dynamic landscape of the office furniture industry, AFC Solutions remains unwavering in its dedication to crafting sustainable excellence, fostering innovation, and surpassing client expectations. We eagerly anticipate the opportunity to contribute to your unique story and play a pivotal role in transforming your workspace.

## **Vision**

AFC Furniture Solutions envisions being a global leader in office furniture, known for sustainable excellence and innovative workspaces that inspire productivity and well-being. Our vision extends beyond furniture; we envision a future where every workspace we touch becomes a testament to the seamless integration of aesthetics, functionality, and sustainability.

### **Mission**

Our mission is to redefine office furniture standards by delivering customized, sustainable solutions that exceed client expectations, with a commitment to agility, innovation, and environmental responsibility.



# **Reporting Boundary**

The reporting boundary covers the Greater Noida Plant of AFC Furniture Solutions. This report also outlines the management processes and methodologies used to determine the GHG inventory.

# **Operational boundary**

The annual GHG Inventory – Scopes 1, 2, and 3 emissions (Category 6, employee commute & 7, employee travel) is in accordance with the requirements of ISO 14064 / The GHG Protocol standard in

all material respects. This document has been prepared in conformance with the GHG Protocol Corporate Accounting and Reporting Standard prepared by the World Business Council on Sustainable Development (WBCSD) and the World Resources Institute (WRI). To ascertain the operational boundary, the AFC Furniture has identified several sources of emissions of major Greenhouse Gases (GHGs) associated with its operations including:

- Carbon dioxide (CO<sub>2</sub>),
- Methane (CH<sub>4</sub>),
- Nitrous oxide (N2O),
- Hydrochloroflourocarbons (HFCs),
- Perflourocarbons (PFCs)
- Sulphur Hexafluoride (SF<sub>6</sub>)

These sources are categorized as direct and indirect emissions and recognized as Scope 1, 2 & 3 depending on their sources.

Scope	Source	
Direct GHG Emission Sources		
Scope 1	DG - Diesel Consumption	
Scope 1	Petrol consumption in Company owned Vehicles	
Scope 1	HVAC Refrigerants	
Scope 1	PNG consumption	
Scope 1	Gases top-up in CO2 type Fire Extinguisher	
Energy indirect GHG emissions		
Scope 2	Grid Electricity Consumed	
Scope 3		
Cateogary-6	Employee commuting	
Cateogary-7	Business travel	

### Methodology

Data for the various GHG source was maintained by the respective departments of the Company in excel spreadsheet format and was checked with the source documents.

GHG Source Type	GHG Activity Data	Source	Frequency of Data Collection
DG - Diesel Consumption	Fuel Quantity (Ltrs.)	Fuel Bill, Service Records	Monthly

Petrol consumption in Company owned Vehicles	Fuel Quantity (Ltrs.)	Fuel Bill, Service Records	Monthly
HVAC Refrigerants	Refrigerant Refill Quantity	Service Records / Invoices / Statement from service provider	Annual
PNG consumption	Fuel Quantity (Ltrs.)	Fuel Bill, Service Records	Monthly
Gases top-up in CO2 type Fire Extinguisher	CO2 Quantity	Service Records / Invoices / Statement from service provider	Annual
Grid Electricity Consumed	Units Consumed	Meter Readings	Monthly
Employee commute and travel data	Km covered / Hotel nights	Travel expenditure	Monthly

Starting FY 2022-23, AFC Furniture has decided to track its GHG Intensity performance normalized against the Production in Metric Tons (MTs). GHG incentivization at AFC Furniture is carried out with the underlying business objective of identifying potential areas for reduction of GHG, wherever possible.

### **GHG Information Management System and Data Quality Control**

AFC Furniture Solutions has established and maintained GHG information management procedures that:

- Ensure conformance with the principles of standard ISO 14064 / The GHG protocol A Corporate Accounting & Reporting Standard, Corporate value chain (Scope 3) Accounting and Reporting Standards and Technical Guidance for Calculating Scope 3
- o Ensure consistency with the intended use of the GHG inventory
- o Provide routine and consistent checks to ensure accuracy and completeness of the GHG inventory
- $\circ \qquad \text{Identify and address errors and emissions, and} \\$
- $\circ \qquad \text{Document and archive relevant GHG inventory records, including information management activities}\\$

# **GHG Emission summary**

The reported GHG emissions for the reporting period for the calendar FY 2022-23 and 2023-24 are:

Description	GHG emission (in MTs of CO2e)	GHG emission (in MTs of CO2e)	
	Year 2023-24	Year 2022-23	
Scope 1	503	165	
Scope 2	968	669	
Scope 3			
Employee Commute	215.68	175.18	
Business Travel	1280.94	716.26	
Total Scope 1+ Scope 2 + Scope 3	2967.62	1725.44	
Emission Intensity – Scope1+ Scope2 + Scope 3 TCO2e / MT Production			

Refer Appendix A for the emission factors used to calculate the stated GHG emissions.

# Appendix A

# **Emission Factors**

Scope	Activity Type	Fuel Type	Reference
	Stationery Fuel	DG - Diesel Consumption	PowerTool Ver 2.0_2015. 2.86 Tons CO2/KL
	Stationery Fuel	PNG consumption	UK GHG Conversion Factors Ver.2 2023. 0.002054 Tons/SCM
	Company Vehicles	Petrol	PowerTool Ver 2.0_2015. 2.43 Tons CO2/KL
_		Refrigerant Type	
fugitive emissions - HVAC Systems	emissions -	R-134a	UK GHG Conversion Factors Ver.2 2022. 1430 Ton CO2/Ton
	R-410a	UK GHG Conversion Factors Ver.2 2022. 2088 Ton CO2/Ton	
	CO2 used in	Gases Used	
Fire Extinguisher s	CO2	IPCC 5th Assessment report	
		Units	
Scope 2	Purchased Electricity	MWHs	CEA Baseline Carbon Dioxide Emission Database Version 18.0. for CY 2022, Latest Available on 31st March'22 & and CH4, N20 from UK DEFRA 2022
Scope 3 Employee		Туре	
	Employee	Communte	DEFRA UK, and https://indiaghgp.org/sites/default/files/Road%20Tra nsport%20Technical%20Paper.pdf
		Business Travel	DEFRA UK, and https://indiaghgp.org/sites/default/files/Road%20Tra nsport%20Technical%20Paper.pdf