

CleanCarbon
Expert CBAM Analysis and Reporting



Gravity Engineering Works' CBAM Readiness Assessment

Case Study



Cleancarbon.ai



Client Overview

Gravity Engineering Works, based in Ludhiana, Punjab, India, is a growing manufacturer and exporter of high-quality industrial hardware and engineering components. The company specializes in **Scaffolding Systems, Fasteners & Bolts, Gate Fittings & Garden Hardware**, and **Farm Parts & Tractor Parts**. These steel-intensive products are widely exported to international markets, including the European Union.

As steel and aluminium products fall under the EU's Carbon Border Adjustment Mechanism (CBAM), Gravity Engineering Works needed accurate emissions reporting for its exports. When the shipment of scaffolding and structural components was held at EU customs due to missing CBAM documentation, the company partnered with CleanCarbon.ai to resolve the immediate issue and establish a reliable, long-term compliance system.



Business Challenges

With the European Union implementing CBAM regulations for carbon-intensive imports, manufacturers exporting engineering and metal products are now expected to provide transparent emissions data and compliant carbon reports.

Gravity Engineering Works faced several key challenges:

- Understanding complex CBAM regulations and reporting requirements
- Collecting accurate emissions data across operations
- Managing manual spreadsheets and documentation processes
- Preparing EU-compliant reports within strict timelines
- Ensuring readiness for future verification and buyer requirements

Like many exporters, the company needed a reliable compliance partner that could simplify the process without disrupting operations.



Solution Delivered by CleanCarbon.ai

CleanCarbon.ai worked closely with Gravity Engineering Works to streamline their CBAM reporting workflow through a structured and technology-driven approach.

Services Provided:

- CBAM readiness assessment
- Emissions data collection and mapping
- Embedded carbon emissions calculation
- Preparation of EU-compliant CBAM reports
- Documentation support and reporting guidance
- Continuous advisory support for future compliance readiness

Using CleanCarbon.ai's automation-first approach, Gravity Engineering Works was able to simplify emissions tracking and improve reporting accuracy while reducing manual effort.



Result

CleanCarbon.ai delivered strong and measurable improvements. The 203-ton shipment of scaffolding and steel components was released within a few days, avoiding significant demurrage costs and restoring timely deliveries to European clients. Supplier emissions data submission rates improved substantially through targeted training and easy-to-use tools. Quarterly CBAM reporting effort was reduced dramatically, freeing internal resources for production and business development. Late submissions were eliminated entirely, and over-declaration of embedded emissions was minimized, leading to more accurate and optimized carbon cost management. The company achieved full audit readiness with validated, GDPR-compliant reports. Overall, CBAM compliance shifted from a major operational risk into a streamlined, automated process that supports Gravity Engineering Works' growing international presence.



Conclusion

By partnering with CleanCarbon.ai, Gravity Engineering Works successfully resolved a critical CBAM shipment delay and established a robust, automated compliance framework. This collaboration has delivered cost savings, regulatory confidence, improved carbon visibility, and stronger positioning in the European Union market.

CleanCarbon.ai continues to support Gravity Engineering Works with quarterly reporting, regulatory updates, and system optimization as their exports grow.

For manufacturers and exporters of scaffolding, fasteners, and engineering components seeking reliable CBAM solutions, CleanCarbon.ai offers a proven and efficient path forward.



+91 9529744969



Cleancarbon.ai



nb@Cleancarbon.ai

