

Project Details

Project name:..... **Bulk Bitumen Loading at Eastern Refinery, Chattogram, Bangladesh**

Contact: Eastern Refinery Limited, Mr. Md Jahangir Alam, Project Manager

Scope of works: Engineering Design, Supply, Installation, Testing & Commissioning of
Automated Bitumen Truck Loading Facility

Period: January 2024 - May 2025

Project details: The expertise of VAE Controls was leveraged to design, supply, install, test, and commission an advanced Automated Loading System for ERL's Road Tanker Bulk Bitumen Delivery system. This comprehensive solution significantly modernized ERL's operations by integrating precise batching control and intelligent tanker traffic management.

Eastern Refinery Limited (ERL), is a vital subsidiary of Bangladesh Petroleum Corporation. ERL is responsible for supplying approximately 20% of Bangladesh's petroleum product needs, making its operational efficiency paramount to national stability.

Our scope of work encompassed the entire project lifecycle, ensuring technical integrity from concept to completion:

- **Design & Fabrication:** We engineered a robust automated “pre-fabricated” loading system tailored to ERL's need of handling of different grades of Bitumen.
- **Supply & Logistics:** We managed the procurement and delivery of all necessary components.
- **Installation & Commissioning:** Our team expertly installed, tested, and commissioned the entire system, ensuring seamless integration and optimal performance.



Key components delivered as part of this successful project include:

- **Advanced Loading Arms:** Electrically heated and insulated loading arm, ensuring an efficient and smooth bitumen transfer with vapor evacuation configuration.
- **Precise Metering and Controlling Systems:** Equipped a smart batch controller, Coriolis mass flow meter, pressure & temperature transmitter & regulation valves.
- **Ergonomic Loading Platform with Folding Stair:** Enhancing safety and accessibility for operators.
- **Essential Civil Works:** Providing the necessary foundational and structural support for the new system with a robust platform designed according to the highest safety standards.
- **Control System:** To ensure full system functionality with the help of traffic lights, barriers, grounding monitors and overfill prevention.

This project not only modernized ERL's bitumen delivery capabilities but also enhanced efficiency, accuracy, and safety in their operations. VAE CONTROLS is proud to have delivered a solution that strengthens Bangladesh's energy infrastructure.

