

# vCMS Case Study



## Customer's Profile and Requirement:



India's Largest  
Integrated Steel  
Plant:



\$21 Billion  
Annual  
revenue



More than 15  
integrated steel  
plants across the  
globe



Global presence  
India, Europe  
& USA



More than 10  
thousands assets  
deployed in the  
operation

**Transforming Asset Management:** A Case Study on Vegam's Online Condition Monitoring Solution for a Wire Rod Mill.

### Introduction:

This case study showcases the successful implementation of Vegam's online condition monitoring solution in a wire rod mill, revolutionizing asset management and delivering substantial benefits to the customer.

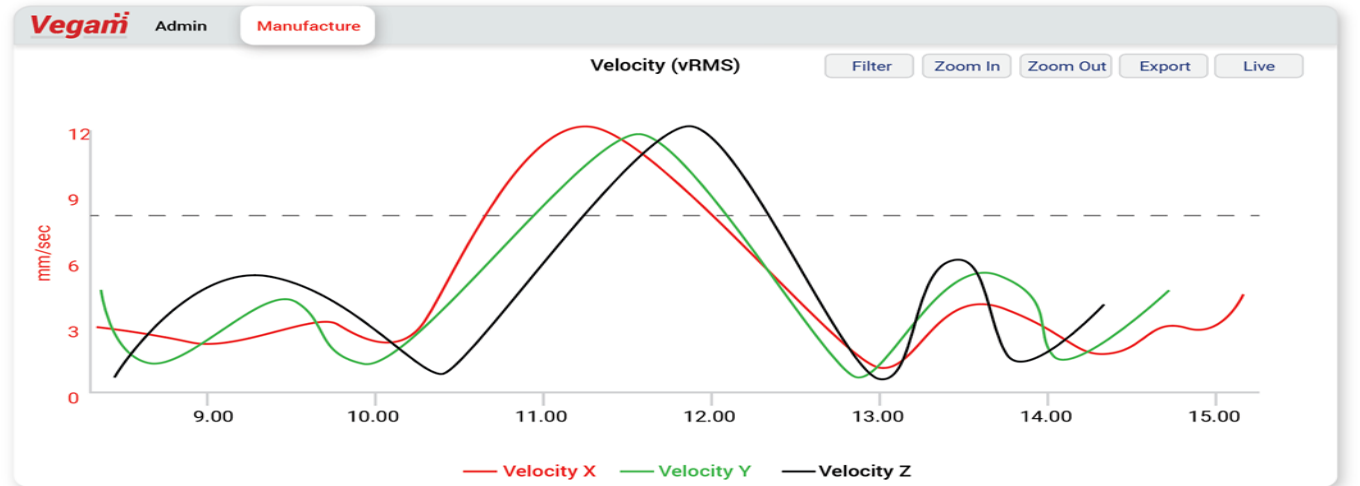
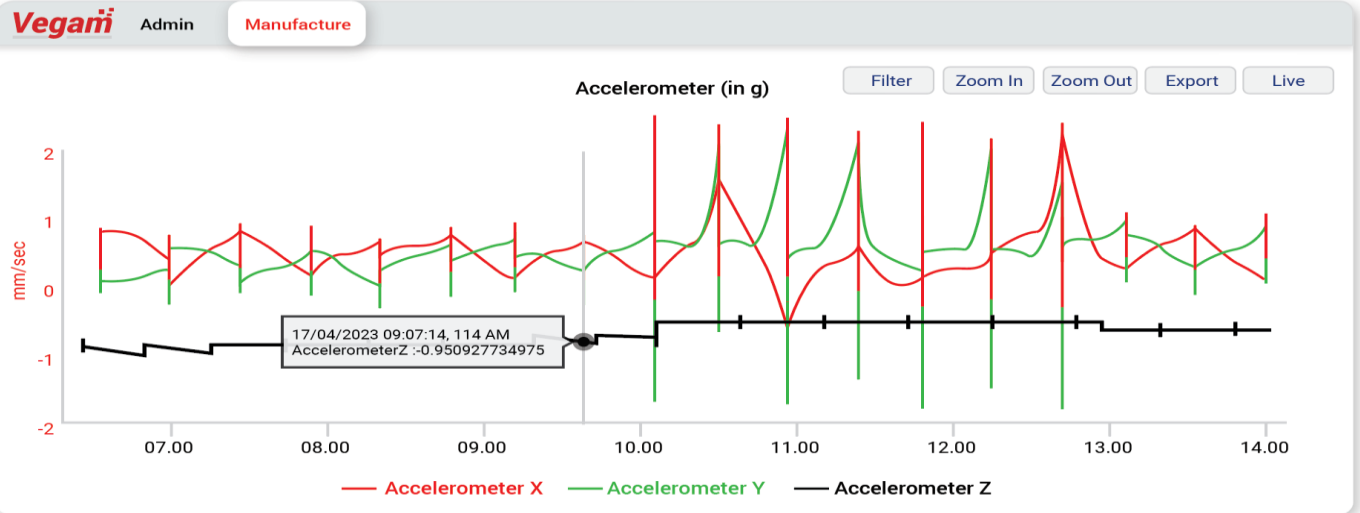
### Challenges Faced:

Seeking an effective online condition monitoring solution, the client aimed to detect faults and abnormalities in real-time to improve asset management. However, operational challenges included frequent water spillage and a demanding industrial environment with dust and fumes.



## Solution Deployment:

Vegam swiftly addressed these challenges, completing the installation within a week. By employing wireless sensors, the solution enabled continuous monitoring of tri-axial vibration data from critical rotary assets. Automatic alerts and cloud-based analysis empowered the maintenance team to proactively address maintenance issues promptly.



## Key Benefits and ROI:

Within a mere six months, the system detected excessive vibration in one of the roller motors, surpassing multiple alarm thresholds. This triggered immediate action, preventing potential costs and downtime for the wire rod mill. As a result, the customer achieved an impressive 5X return on investment (ROI). The solution not only optimized maintenance activities but also enhanced equipment reliability, minimizing overall maintenance costs.

## Conclusion:

Vegam's online condition monitoring solution transformed asset management in the wire rod mill by enabling real-time fault detection and proactive maintenance actions. The system's ability to swiftly identify and address issues resulted in significant benefits, including cost savings and increased operational uptime. This case study exemplifies the value of a proactive approach to condition monitoring in industrial settings, ensuring optimal asset performance and maximizing ROI.