

OPTIMIZING EFFICIENCY OF MANUFACTURING OPERATIONS

60-65%

Increased Productivity

260 Ton

Identify Unaccounted Losses



Improved Product Quality

The Client

India's largest private steel manufacturer

Industry

Retail

Overview

Client is a market leader but had concerns that they should substantially improve in terms of Availability (Machine up & running), Performance (Production at optimum efficiency), and Quality (Every pipe produced meets quality standards). Client asked us to identify specific factors that can decrease productivity losses by 15%.

Business Challenge

A non-invasive, data-driven solution that can utilize historical and current data already captured at the manufacturing plant to detect losses and opportunities to improve production efficiency.

Our Approach:

- Custom predictive maintenance solution that detects upcoming failures, equipment downtime and other key performance parameters.
- Array of ML models that detect unaccounted losses.

Outcomes

- ✓ 260-tonne loss identified.
- ✓ 60-65% Increase in productivity.
- ✓ Cost savings from Limited unplanned downtime, optimized equipment lifetime (owing to regular repair and maintenance)