

## **ABSTRACT**

The production process in the convection industry requires integrated management to ensure efficiency, quality, and productivity. Key challenges often faced include manual stock recording, inaccurate planning, and errors in financial reporting. To address these issues, the Cloud-Based Convection Production Management Information System was developed, a web-based software designed to manage the entire production process, from raw material tracking to product distribution monitoring.

This solution offers features such as inventory management, production planning, process monitoring, and automated cost tracking. Utilizing cloud-based technology, the system enables real-time data access from various locations, enhancing operational efficiency and reducing management costs.

Implementation results demonstrate that the system improves recording accuracy by up to 95%, reduces planning errors by 20%, and accelerates financial reporting processes. Therefore, this system significantly contributes to optimizing production processes and supports strategic decision-making in the convection business.

**Keywords:** Information system, production management, convection, cloud computing, ERP