

ABSTRACT

MSMEs have a significant and strategic role in the national economy. In the manufacturing sector, MSMEs remain a significant contributor to the country's economy. Although MSMEs in the manufacturing industry sector positively contribute to the economic aspect, negative impacts arise, especially related to the environment. This is due to the industrial waste generated by the industry during operational activities.

PT Elco Indonesia Sejahtera is an MSME in the leather tanning manufacturing industry sector in Sukaregang, Garut City. So far, the procurement process at PT Elco Indonesia Sejahtera is still carried out in a conventional way that still uses physical documents and needs an integrated system that can support the effectiveness and efficiency of business activities and facilitate monitoring of company business activities.

Based on these problems, the development of an Enterprise Resource Planning (ERP) system that adopts the circular economy concept in the purchase module and dashboard using the QuickStart method in Odoo is carried out. This Odoo system will help the procurement department of PT Elco Indonesia Sejahtera in carrying out existing business processes such as recording material purchases, integration between divisions and monitoring on the dashboard, and the appearance of material purchase reports within a certain period with data visualization in the form of graphs and pivot tables. Applying the circular economy concept to the system will also be carried out to support the green industry and sustainably integrate economic and environmental activities.

The developed system will be evaluated through unit testing, integration testing, and user acceptance testing (UAT) by PT Elco Indonesia Sejahtera. This research results in the development of an ERP system for the procurement module and real-time monitoring dashboard to support business processes at PT Elco Indonesia Sejahtera.

Keywords— ERP, Odoo, Procurement, Circular Economy, Dashboard, MSME