

ABSTRACT

DEVELOPMENT OF *GREEN PRODUCTION* SYSTEM BASED ON ERP USING ODOO APPLICATION WITH SAP ACTIVATE METHOD IN THE LEATHER TANNING INDUSTRY (CASE STUDY: PT. ELCO INDONESIA SEJAHTERA)

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The leather processing industry increased by 4.07 percent in 2018 compared to the previous year. This was felt by PT. Elco Indonesia Sejahtera is one of the largest tannery companies in Garut that produces finished tanning leather products used for the production of garments, gloves, and various other leather crafts.

However, the rise of the leather industry caused some difficulties at PT. Elco Indonesia Sejahtera in running business processes. This is because of the overall business process at PT. Elco Indonesia Sejahtera still uses conventional methods so that the production process that is run is less effective and efficient. In addition, the process of producing leather tannery at PT. Besides that, PT. Elco Indonesia Sejahtera also experienced difficulties in monitoring the production process in accordance with the concept of green industry such as difficulties in monitoring the use of energy, the use of chemicals, and the resulting waste.

In this research, an integrated ERP system was developed using a manufacturing module with the concept of green production to monitor environmentally friendly production processes. The development of this system uses the Odoo application with the SAP Activate method. The results of this study are an integrated ERP system in the production process that can cover all production processes at PT. Elco Indonesia Sejahtera and can monitor the production process that is

environmentally friendly so that it increases the effectiveness and efficiency of the production process.

Keywords: *Enterprise Resource Planning (ERP), green manufacturing, open source applications, SAP Activate, production, Odoo*