ABSTRACT

PT Adona Alfa Omega is a manufacturing company that produces bread. Booking and purchase of raw materials of PT Alfa Omega Adona depends on the selection of the supplier with the lowest considering the price. Raw material inventory management process of PT Adona Alfa Omega is very crucial because if the raw material is stored long will cause rotting raw material giving rise to significant losses for the company. The inventory can be controlled with some existing inventory methods, two of which are methods of Economic Order Quantity (EOQ) and Lot for Lot (LFL). These two methods can produce the calculation order quantities economically but does it matter when it is on, if EOQ method with minimal cost as possible and if the method of minimal order quantities with LFL possible. Web-based applications created with the functionality to calculate production targets, calculate, calculate the EOQ LFL and compare the total cost between the EOQ and LFL in the form of tables and charts with consider the Safety Stock, and serves the accounting reports in the form of journals and ledgers. Construction software using a structured model that consists of a Data Flow Diagram (DFD), Entity Relationship Diagram (ERD), data dictionaries and process specifications. This web-based application using the programming language PHP and the MySQL database. Testing is done by the method of Blackbox Testing against the functionality of the application and the results of the test application has been as expected. This application can manage master data, manage the buying of raw materials based on the results of the calculation of EOQ or calculation of LFL, managing production based on production and target display public journals, ledgers and comparing the results of the calculations between the EOQ and LFL.

Keywords: Management, Raw Material Inventory, EOQ, LFL