ABSTRACT

CV Dwi Sumber is one of the manufacturing company that handles sales with offer product variants. In every month the company managed to sell amount of 15.000 products. The entry process from raw materials to the production process was done manually. The company make the order of raw materials with same quantities without checking quantity of raw materials in the warehouse. That often make accumulation of raw materials. Because of that, this application uses the calculation of Economic Order Quantity (EOQ) with using this calculation is able to determine the minimum amount of raw material purchases and save on inventory costs incurred. The company also requires decisions for safety stock and reorder point because considering uncertainty role in processing raw material and sales in each product variants. The calculation in this application is done by grouping the demand for raw materials used in the product variants. The design of information systems that used in this application are the Data Flow Diagram (DFD) and Entity Relationship Diagram (ERD). This is a web based application using PHP programming language with MySQL database. This application can display journal, ledger, and a reports non-accounting.

Keywords: Economic Order Quantity, Safety Stock, Reorder Point, and CV Dwi Sumber.