

DESIGN BUILD APPLICATION OF SUPPLIES ITEM WITH REORDER POINT METHOD (ROP)

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ABSTRACT

PT DitraManunggal Jaya (DMJ) is one of the companies engaged in Trading since 2004. Currently PT. DMJ serve the demand of various types of staple and supporting products such as rice, sugar, coffee, cooking oil, animal feed, electronics and others. As a company engaged in trading (trading), PT. DMJ buys goods from suppliers directly. Uncertain order demand from customers becomes a problem in determining the amount of stock that must be provided. Previously, PT. DMJ has attempted to calculate customer demand to predict the amount of stock provided. However, due to the number of diverse products and the absence of information systems that can help, the stock count is not done for the entire product. But what happens when doing the calculation of safe stock is to look for sales data in the form of documents or manual records, then do recap sales one by one customer takes a long time that is 3-5 working days.

Determination of the number of safe stock to fit the needs of the supply of goods, then needed an application using computerized technology. Goods Distribution System becomes an option to solve the problem with consideration based on paying time of purchase from supplier, so stock value is guaranteed by Reorder Point (ROP) method or buy back.

With this application, can know the value of repurchasing all the products appropriately and quickly, and no longer need to do a document recap. In testing the results of the system with ROP method is evident that this built application can run well and in accordance with the required.

Keywords: Stock, Inventory, *Reorder Point*, *Lead Time*, Recommendation

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