

**DESIGN AND BUILD OF GOODS STOCK CONTROL
INFORMATION SYSTEM USING EOQ
(ECONOMIC ORDER QUANTITY) METHOD**

FRANSISKA OKTAVIA

*Informatics Study Program, Faculty of Science and Technology,
University of Technology Yogyakarta
Ringroad Utara Jombor Sleman Yogyakarta
E-mail : oktaviaf410@gmail.com*

ABSTRACT

TB. Cheap Jaya is a business engaged in the sale of building materials. Until now, the management of the stock of goods handled by the stock processing department is still done by hand writing in the report book. This resulted in many errors that occurred such as: accuracy of the stock of goods is too low, frequent increases and decreases in demand for goods that are not unexpected, and some stock items that are not recorded, causing many complaints to suppliers. A system or application is needed to process goods data quickly and accurately according to the actual situation. The system method used is the EOQ (Economic Order Quantity) method. The EOQ method is used to determine the amount of material purchased at each time the order is at the lowest cost, with this method the costs incurred to purchase raw materials are more predictable and controllable. The system development method used is SDLC (System Development Life Cycle), the stages carried out by this method are planning, analysis, design, and use. The results obtained from this study are the system can control the stock of goods, serve sales and purchases, perform accurate EOQ calculations and efficient and effective transaction reports, and facilitate the search for an item quickly.

Keywords: EOQ (Economic Order Quantity), SDLC (System Development Life Cycle), Stock of Goods.