

ABSTRACT

Inventory processing, especially raw materials as the main material for the production of a product, must be able to be fulfilled properly, such as a company that produces processed food typical of Lampung, namely Ante chips company located on Jl. Singkep Island No 12, Bandar Lampung which was founded in 2005 with a total of 50 employees. The processed product of the product is cassava chips of the Balado type and has supplied several shops in Bandar Lampung City to outside the province.

there are still deficiencies in the inventory processing section that are not optimal, such as the process of ordering raw materials using telephone media which has an impact on the number of errors ordered and delays in the supply of raw materials from farmers. Overall the inventory data processing process is still done manually which is recorded on the memorandum, so the company does not have a recap of inventory data in the form of reports to the leadership. The next problem is that the production process is still considered less than optimal because it often experiences excessive production which results in losses to business capital.

The method used is extreme programming with object orientation concept and forecasting approach using Economic Order Quantity. The result of the development that has been built is that the admin can manage data on goods, incoming goods, outgoing goods and see the stock of goods in detail. Optimization results can be processed based on the name of the item, the previous year and the next year, overall it can display information from the EOQ calculation such as the EOQ result and the number of orders that will be made during the year as well as the distance between orders.

Keywords: *Optimization System, Inventory, Economic Order Quantity Method*