

ABSTRACT

Competition of retail business is increasingly tight, that things make the players to improve their management for more effectively and efficiently so their can provide the best service for customers. For the retail companies, distribution management is a main aspect to be attention. One of the operational decisions that are very important in distribution management is the determination of goods distribution route from one location to some destination location. Decision like this is very important for companies that must send the goods from one location (eg, warehouse) to many shops in a city. In this case, Alfamart one of the largest retail company is one of the right where the problems occur. Every day the goods must be distributed from the Distribution Center, to the Alfamart outlets. PT Sumber Alfaria Trijaya, Bandung has now covering more than three hundreds outlets that spread in the city of Bandung.

Route decisions which will be by each fleet will be very influential to the shipping costs. Therefore, need a method that can make to determine the optimum route for delivery of goods. One method of determining the route for delivery of goods is saving matrix method. Saving Matrix Method is a method on based to minimize the distance or time or expense to the fleet is used. In the saving matrix method have four steps to be done to get a delivery route, consist of identify the distance matrix, identify the savings matrix, allocate outlet to the fleet or routes, and the last is the sort outlet in the route that has been defined.

System that is used to assist in determining the delivery route is a goods distribution system applications, the computer-based systems to help make data processing so that they can provide a more accurate, fast and flexible output. In this case, added a map visualization to facilitated the user to see the results in the required information. Calculation using the application, can simplify the logistics to determine the optimum route for delivery of goods. The logistic division only input outlets which make the demand of goods and the amount of goods that their need, and applications will be calculate using the Saving Matrix Method order to finally produce route delivery of goods to the outlets, along with the fleet which is used to make a delivery that goods.

Keyword : Distribution System Application of Alfamart, Saving Matrix Method