

ABSTRACT

Distributions are steps being taken to move and store products from suppliers to manufacturers or manufacturers to costumers in the supply chain. PT.XYZ is a company-owned by ABC Group that is manufacturing of fast moving consumer goods (FMCG). PT.XYZ has a Distribution Center (DC) located in DC Cikupa which serves to distribute the products to the depots are scattered in the region of Banten. In the company, there has been an absence of planning and scheduling of product distribution activities are coordinated, so that distribution is poorly controlled scheduling resulting in an excess and lack of products delivery. By these problems, then perform the design of scheduling distribution activity using Distribution Requirement Planning (DRP) method.

DRP anticipate future needs by planning at each level in the distribution network. With DRP method, planning and scheduling distribution activity collect the demand for the product by the depot to DC by using the DRP tabulation. And then DRP method is considering safety stock and fleet capacity. From the calculation results obtained the DC delivery plan products to the depot. Hopefully with distribution planning and scheduling activities are good, success in meeting customer demand would be optimal, increased sales performance in fulfilling orders in a timely and appropriate amount. Distribution Requirement Planning (DRP) can provide distribution cost savings and optimum product delivery.

Results obtained from this research is the reduction in the delivery of products that exceed or are less than the depot needs. Then the distribution cost efficiency is obtained, where the difference between the actual distribtution cost with future distribution cost saving occurs of Rp 108.376.250 or 22%.

Keywords: Distribution, Distribution Requirement Planning, Scheduling.