

ABSTRACT

PT. Sinar Sosro is a company that manufactures and distributes beverages in containers. Some of the other main product is Teh Botol Sosro, Fruit Tea, Tebs, and Happy Juice. PT. Sinar Sosro have several factories spread across the island of Java, where the products produced at the plant will be sent to the sales offices throughout Indonesia. The purpose of this thesis is to obtain optimal delivery of four of the above products to four kator sales in the territory of South West Java operation for some types of products from PT. Sinar Sosro terms of cost efficiency. Requests received by PT Sinar Sosro of every office is the daily production and volatile. This approach would simulate the real situation is one way to plan the shipment from the factory to each of the Office of Production. By simulating the proposed 3 scenarios to form the PT Sinar Sosro consideration in planning the number of deliveries in the year 2011. Scenario 1 is the planning done by determining the amount for each shipment based on the calculation of Economic Order Quantity (EOQ) with a total cost of Rp 1. 119. 925. 926/month. Scenario2 is the optimization of the first scenario with a total cost of Rp 633. 685. 229/month. Then the scenario 3 with a total cost of Rp 589. 828. 584/month. From the large costs incurred, we conclude that scenario 3 is the best proposal for planning delivery of four types of these products to the territory of South West Java

Keywords: Simulation, efficiency, inventory Planning, Economic Order Quantity