

ABSTRACT

XYZ company is a manufacturing electric industry They producing Mini Circuit Breaker (MCB), Air Circuit Breaker (ACB), and Molded Case Circuit Breaker (MCCB). This study focuses only on the product MCB MCB to discuss forming component. The problems that occurred in PT XYZ that is the condition over stock and out of stock in the inventory component. With the disharmony in the arrangement of components, it can result in lost sales on the production of MCB.

In this study, the demand for which is used is probabilistic so used method of continuous review the order point, order-up-to-level (s, S) System for category A and continuous review the order point, order quantity (s, Q) System for category B and C with Hadley-aided calculation Within accordance with the actual conditions of the company. This method can determine the number of bookings, reorder point, and the amount of safety stock in order to minimize the total cost of inventory. In this study also conducted sensitivity analysis on demand, booking fees, storage fees, and the cost of inventory shortages.

This research can reduce the total cost of inventory amounted to 8.525.650.870 or by 89.55% and alter the average service level of 506.88% to 98.64%

Keywords: Inventory, Stock Out, Over Stock, Probabilistic, (s, S) System, (S, Q) System, ABC Analysis,