

ABSTRACT

PT Kereta Api Indonesia (PT KAI) is a company that provides rail transportation services in Indonesia. The company has Dipo Bandung as the implementation of maintenance and repair trains. Availability of spare parts is one way of increasing the reliability of the machine. So the supply of spare parts need to maintain the availability of spare parts. The lead time procurement is one of the variables that affect the availability of spare parts. Grouping by type of material based classification will facilitate inventory management in prioritizing material. Under these circumstances allow the importance of classifying criticality based on the value of use per year and lead time procurement and determine the control of critical parts with continuous approach Review System. The results aimed at classifying criticality based on the value of use per year and the procurement lead time, and then determine the number of bookings, safety stock, reorder point, and the total cost of inventory of critical spare part. Determining the number of bookings, safety stock, reorder point, and the total cost of inventory of critical spare parts used approach Continuous Review System (s, S). Results showed that total savings 95% of inventory cost.

Keywords: Inventory, Continuous Review (s,S), Inventory Control.