

ABSTRACT

PT FGH is an automotive company engaged in the distribution, sales, and after-sales of Peugeot cars in Indonesia. PT FGH has one supplier of spare parts that are used to serve and meet customer needs for spare parts. spare parts inventory is used to meet the demand for spare parts. However, the demand for spare parts fluctuates so that the order quantity is not optimal. The problem experienced by PT FGH is overstock. This causes the cost of inventory on spare parts to be high.

Inventory of spare parts at PT FGH is a probabilistic inventory because the demand for spare parts is not known beforehand and fluctuates. Therefore, the calculation of inventory policy in this final project uses continuous review and periodic review methods. The policy uses this method to get the optimal order quantity so as to reduce overstock by minimizing inventory costs.

The calculation results show that the proposed inventory cost using the continuous review method can be the right solution by decreasing by 17.64%. The total cost of the proposed inventory using the continuous review method is Rp. 207,515,830. While the total cost of the proposed inventory using the periodic review method is Rp.353,881,762.

Keywords—[spare parts, overstock, continuous review, periodic review]