CHANGE BACKING PLATE LOCATION TO REDUCE TRAVEL DISTANCE OF PUT AWAY AND PICKING PROCESS (STUDY CASE: PT.MK PRIMA INDONESIA)

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ABSTRACT

The way to reduce warehouse operational cost is minimized transportation waste. Transportation waste is the waste that caused distance one location and the other location is so far or the acces of journey is not straight line. The effect of transportation waste is increasing lead time of material handling.

At the existing condition, the layout of warehouse have not pattern. So the material that have high frequency transactional put on place so far but there are material that have low frequency transactional put on the place near. To overcome the problem is make scenario of improvement that simulated by using monte carlo methode to prove the scenario that has already created can reduce transportation waste. The characteristics of transportation waste is travel distance. The effect of Scenario that had been implemented will be monitoring to productivity of warehouse. The result of scenario implementation increased productivity 149% from 612,46 Pcs/man.hour to 1524,77 Pcs/man.hour.

Key word : Transportation waste, scenario, Produktivity, travel distance