ABSTRACT

PT XYZ is a retail company located in the Jakarta that provides FMCG products (Fast Moving Consumer Goods). The product handling on the non-food warehouse which is not optimal causes delays in shipping to the loading area. Furthermore,there is also no code area in the rack that causing trouble for operator in term of searching product.

The initial step is to mapping the entire flow of information and activities that exist in the non-food warehouse and observation to find the processing time. The next step is to classify the product using the Grouping Like Item - Break Point method. Then calculating the capacity and distance of each slot to find out the slot needs of each SKU and location between slots from the entrance. The results are then processed with the classification results of Grouping Like Item - Break Point, then labeling the storage area by a code. After that, simulate product picking activities in the proposed layout.

Based on the research, it was found that the conditions of the proposal has difference of 187.56 seconds or 37% faster.

Keyword : Warehouse, Grouping Like Items - Break Points,Warehous Slotting