

ABSTRACT

PT. XYZ is a Hypermarket company engaged in the retail industry which provides various goods of FMCG (Fast Moving Consumer Goods). Delay time in the storing process and picking process in the PT. XYZ's warehouse dry food department especially biscuit & snack category has the highest percentage. It's because of manual searching activities in the storing process and picking process. The placement of SKU's biscuit and snack on the shelves has done randomly by operators, and it makes the shelves didn't arranged neatly and orderly.

Value Stream Mapping (VSM) and Process Activity Mapping (PAM) are used to map activities in the warehouse, so the time in every process and also value of the activities can be defined. Searching activities in the storing process and picking process have the highest non value added time, and they should be solved by classifying products using ABC Analysis. Slotting and Racking/Zone Number are also done to determine the capacity of bin in the shelves and zone based of product classification. This will be maximum by applying Warehouse Management System based of First Expired First Out (FEFO) system, It will inform the product location in a shelf and give warning sign for products whom has the nearest expired date.

From the results of the design of the proposed future state map, it can be concluded that the delay time decreased 23,8% of the total process is 2609,29 seconds or 43,49 minutes, while the value of value added on the condition of future state increased 21%.

Keyword : Retail, Fast Moving Consumer Goods, Warehouse, Value Stream Mapping, Process Activity Mapping, ABC Analysis, First Expired First Out, Warehouse Management System.

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