

ABSTRACT

PT. XYZ Wholesale is a company engaged in the service trade with a grocery sales system. There are two types of customers in company, the end customers and professional customers. The high demand for products on the PT. XYZ Wholesale Causing the company often have extra warehouse capacity allocations that cause incompatibility placement of products sold, as well as inhibit the activity that happens in a warehouse that is included in the inbound and outbound processes.

The first step taken is to map the entire flow of information and materials that occur in the process in warehouse (floor) of PT. XYZ Wholesale using Current State Design and then identify the waste based on 8 criteria waste by using a checklist. Based on the checklist, obtained the types of waste that occurs, and then the root causes are searched using fishbone diagrams.

Improvements that proposed using Lean approach using Lean tools such as Warehouse Slotting, Warehouse Manangement System (WMS), Visual Control, Key Performance Indicator (KPI), and Work Standardization. From the results of the design of the proposed future state map, it can be concluded that the level of wastage that occurs decreased for both types of customers. Total inbound and outbound process time for end customer is decreased by 19,36% of the total process time iwith a value of 4192,69 seconds, while the value added in the future state conditions to be 54,40%. As for the professional customer, from a total of 4602,63 seconds the whole process was decreased by 22,84% to 3551,33 seconds, while the value added in the future state conditions to be 61,36%.

Keywords: Lean, Warehousing, Lean Warehousing, Lean Tools, Fishbone Diagram, Value Stream Mapping

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