ABSTRACT

PT. XYZ is an agribusiness company engaged in commercial activities based on local and imported fruits distribution from several countries in the world. Imported fruits stores in private cold storage warehouse, meanwhile local fruits have to cross dock at the same day. Goods that PT. XYZ handled with belong to perishable characteristics which are susceptible to the decomposition occurrence. In 2013, around 40% of fruit stored in PT. XYZ warehouse decayed because of poor storage allocation and warehousing activities. There are several wastes and non-value added activities found in daily warehouse activities.

Started with mapping the entire flow of information and materials that occurred in warehousing process by using Current State Design and then identified all of the wastes found based on 8 criteria wastes by using a checklist. Based on that checklist, identified the types of wastes that occurred, and then found the root causes using fishbone diagrams.

Proposed improvements are Lean approach using Lean tools such as Warehouse Slotting, Visual Control, 5S, and Work Standardization. From the proposed future state map design result, wastes and non-value added activities level are decreased. Total processing time (lead time) decreased around 44,59% from current state total processing time, or about 7,15 hours, meanwhile the percentage of value added time was increased around 8,15%.

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