

ABSTRACT

Waste is any form of activity that is not worth adding to the production process, one type of waste is transportation. After making observations on the division of dyeing and finishing especially Polyester fabric production process, some causes of delay in delivery of Polyester fabric to consumers were identified. To avoid the problem, waste was identified by using lean manufacturing concepts. The research begins with collecting waste-related data, knowing the flow of production from Polyester fabric by depicting Value Stream Mapping, identifying identified activities of waste through Process Activity Mapping, knowing the cause of the emergence of selected waste that is waste transportation with fishbone diagrams. After knowing the cause of the emergence of waste transportation because there is backtracking, a planning proposal analysis in the form of layout design using WinQSB software with CRAFT and SLP methods to find the alternative best among the two.

Keywords: waste transportation, lean manufacturing, value stream mapping, process activity mapping, fishbone, layouting