

ABSTRACT

PT Dipta Generasi Global is a company that focuses on the Terazzo ceramic industry. The products produced by the company are flower pots, bathups, sinks and so on. In the production process of Terazzo ceramics, PT Dipta Generasi Global still has serious problems in the form of waste defects. Products can be said to be defective when there is a shape that does not match what should be. Waste defect itself is a situation where the product produced is not in accordance with predetermined standards, resulting in the product experiencing time delays due to the rework or repair process. Where the standard limit set by the company is a defect of no more than 1% in each production, but in reality defects that occur still often exceed the defect tolerance. In this final project research, the method that will be used to minimize waste defects is the lean manufacturing approach. Lean manufacturing is a production management philosophy that focuses on improving efficiency and effectiveness through reducing waste. Waste here is defined as anything that does not add value to customers or Non-Value Added (NVA). The research begins with observation to obtain data that supports the creation of Value Stream Mapping (VSM) and Process Activity Mapping (PAM). The waste then needs to be reviewed by finding the root of the problem that occurs using fishbone and 5 whys. Through fishbone, the main factors causing waste defects are obtained, namely man, machine, method, and environment. Furthermore, improvement proposals will be made using FMEA. The existence of these problems, the Final Project focuses on minimizing waste defects that occur in the terazzo ceramic production process of PT Dipta Generasi Global by improving activities so as to increase work efficiency and productivity.

Keywords – *Terazzo Ceramic, Lean Manufacturing, Waste Defect, Production Process*