

ABSTRACT

Agronesia Company of Inkaba Division Bandung is a company which produces various kinds of products with the main raw material of rubber. One of the product results are Rubber Joint Strip. Rubber Joint Strip is used as a cushion between the plates of the inside of the ballmill machine. Ballmill is a type of grinder used to grind materials into powder which is used in the mining industry. The company set a target of every part of the production of Rubber Joint Strip based on customer's requests. However, the specified target can not be achieved. In the compounding targets are not being met by 6.18 %, 6.17 % portion of vulcanization and extrude parts of 18.75 %. This is happened due to the presence of some waste in the production process of Rubber Joint Strip.

Research phase begins with the identification of Rubber Joint Strip waste defects products. Among the 86 units of the waste defects, the main cause of them is incompatible size which is 35 units. By using fishbone diagrams, researchers conducted a re-identification the causes of nonconforming product size, so this study focused on the second highest caused is inaccurate measurements. The root cause of the onset of the waste that has been identified will be solved using the fishbone diagram and 5 why. Problem-solving is done for each of the root causes of waste by using lean manufacturing method and brainstorming with stakeholders in the company. The final results of this research are initial concept proposal tools (pokayoke) and implementation of 5S.

Keywords : Rubber Joint Strip, Lean Manufacturing, Brainstorming, Pokayoke, 5S, Fishbone Diagram and 5 why