

## **ABSTRACT**

### **ANALYSIS OF THE CAUSES OF FACTOR PRODUCT DEFECT USING STATISTICAL QUALITY CONTROL (SQC) AND FAILURE MODE & EFFECT ANALYSIS (FMEA) METHODS**

**(Research on CV. Rhamli Garment Company at Cibereum, Tasikmalaya City)**

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*This research objectives to find the cause of product defect in CV. Rhamli. This research method is descriptive quantitative. Observations were made on the May 2020 production report. This analysis aims to see the factors that cause product defect. The analytical tools used are Statistical Quality Control (SQC) and Failure Mode and Effect Analysis (FMEA). SQC includes, check sheets, histograms, Pareto diagrams, cause-and-effect diagrams and control charts. The results of Pareto's show that there are four types of defects, the biggest defect is caused by the wrong yarn, other defect is wrong stitching, defect fabric, and collar deffect. P control chart analysis shows that defect is still within the control limits even though there are deviations that are still within reasonable limits. In the cause-and-effect diagram analysis shows the factors that cause damage caused by humans, machines and materials. The results of FMEA analysis show that wrong stitch is defect with the highest RPN, other defect are defect fabric, collar defect and wrong yarn.*

*Keywords: Product defect, Statistical Quality Control (SQC), Failure Mode and Effect Analysis (FMEA)*