ABSTRACT

QUALITY IMPROVEMENT USING STATISTICAL PROCESS CONTROl (SPC) METHOD TO REDUCE LOSS

(Case Study: PP Sinar Tani Palembang)

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Quality control is very important in the manufacturing industry because it can increase competitiveness with similar industries and can be a means of evaluating problems in the production environment. PP Sinar Tani Palembang is a manufacturing company engaged in rice milling. This company suffered a lot of losses because the results of many rice scales were not in accordance with the standards set by the company. Based on data from the company, it is seen that quality control is still very lacking, this is indicated by the data from the scales which entirely pass the prescribed standards of 5 kg, 20 kg and 20 kg. From this poblem, a defect product presentation was calculated: for 5kg rice as much as 0.585 or 58.5%, 10 kg rice as much as 0.604 or 60.4% and 20kg rice as much as 0.612 or 61.2%. This percentage shows that every month PP Sinar Tani Palembang suffered a loss of 21.363 kg or 1.068 kg per day with a nominal value of Rp 228,390.00 per month. With the SPC method (Statistical Process Control), it was found that the main factor causing this loss was the balance scales / oil scales used that did not have accuracy so that the results of the scales all exceeded the set limits and also needed a very careful eye to see the results of the scales. replacement of scales into digital scales whose measurement results are more accurate and easier to read.

Keywords: results of scales, proportion of defective products, Statistical Process Control (SPC), supervision.