

ANALYZE THE QUALITY CONTROL OF SUGAR USING *STATISTICAL PROCESS CONTROL* (SPC) IN PG. MADUKISMO

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ABSTRACT

The purpose of this study is to (1) Analyze the quality control of sugar in PG. Madukismo in an effort to suppress the level of product damage, (2) Analyze the cost of repairing broken sugar in PG. Madukismo, (3) Identify factors causing damage to sugar product in PG. Madukismo. This is a quantitative research with the case of study implementation method. The data used in the form of primary data and secondary data. Data collection techniques used were interview, observation, and documentation, while for data analysis technique using *Statistical Process Control* (SPC) method which is check sheet, control chart (P-Chart) and fishbone diagram. The result of this research is sugar quality control in PG. Madukismo is still within the limits of control. Cost of repair to be issued by PG. Madukismo during milling in 2015 is Rp. 52.317.524, while in the milling year of 2016 is Rp. 52.603.374. Factors that caused damage to sugar production of PG. Madukismo is a raw material, machinery, labor, methods, and environment.

Key words: Quality Control, Repair Cost, Causes Factor Damage