



UNIVERSITAS
GADJAH MADA

PENGENDALIAN KUALITAS DAN ANALISIS KEMAMPUAN PROSES PADA BAHAN PENGISI (FILLER)
PRODUKSI KERTAS
TULIS A PT. KERTAS LECES (PERSERO) PROBOLINGGO JAWA TIMUR
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**QUALITY CONTROLS AND CAPABILITY PROCESS ANALISYS
AT FILLER WRITING PAPER PRODUCTION
KERTAS LECES Inc. PROBOLINGGO EAST JAVA**

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ABSTRACT

Paper is an essential product in human life because it can be used in kind of needs. Quality controls are quality guarantee method main product and help to controlled production process that need enhance quality of product. Controlling graphic able to use as way to know a process production had been going on and able to create appropriate quality with specification by consumer. Important part from the whole of quality controlling program is analysis of ability processing by means of relative variable analysis is called Index Capability Process. The goal of the research is to know of the process production controllable or not with statistically, and find out optimum composition of filler to produce quality paper which is appropriate with the specification or the quality standard.

The research implementing in order to testing the physical properties (grammature, cobb test, strength index) and optic properties (brightness and opacity) of writing paper. Taking over of sample was doing in 25 days of production with observation 5 to each characteristic of quality writing paper. The result of testing for both properties of writing paper used as data for making the graphic control \bar{X} and R. This graphic is became the fundament for counting PKP and appraise physical defect as the *inconsequence with the specification*. To knowing composition filler influence concerning the quality characteristic, firstly by doing ANOVA 5% continuous with advanced test Honestly Significant Different to know how far the differences that happen for each filler composition.

The result of this research showing conclusions that the process production not controlled by statistic because there are one of quality characteristic in uncontrollable condition. The PKP counting under factory standard produces better PKP that strong enough to endure are cobb test at filler composition II (12.01-14.00%) and brightness at filler composition I (10.01-12%) with PKP value 1.009 and 1.059. Apprise of physical defect is inside tolerate border. ANOVA test result showing tangible influence at strength index and brightness. Filler with maximum result is filler I (10.01-12.00%).

Key words: quality control, capability process, filler

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