

## ABSTRACT

*This study aims to analyze the quality control of CPO at the PT. Perkebunan Nusantara IV Ajamu factory and then compare the quality of CPO produced by the factory with the standard quality norms set by the company and SNI issued by BSN (National Standardization Agency). This study was conducted using the seven tools method. The parameters used as measurements are ALB content, water content and dirt content in CPO production. The quality of CPO produced by the factory during the study for ALB content was 3.68%, water content was 0.19% and dirt content was 0.019%. When compared to factory standards, there were no levels that exceeded the established standards. And when compared to the standards set by BSN SNI 01-2901-2006 for ALB content, water content and dirt content did not exceed the standard limits. The results of the study using the X bar and R control charts for free fatty acid levels showed no data outside the control limits, then water content did not show data outside the control limits and for dirt content there was no data outside the control limits.*

*Keywords: quality control, seven tools, product defects*