Penerapan SPC (*Statistical Process Control*) Dalam Pengendalian Kualitas Biji Kopi Robusta Pada PTPN XII Kebun Renteng Afdeling Rayap Kabupaten Jember *(The Implementation Of SPC (Statistical Process Control) In Quality Control Of Robusta Coffee Beans At PTPN XII Renteng Garden Afdeling Rayap Jember Regency)*

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ABSTRACT

The demand of arabica and robusta coffee beans from Indonesia every year are increasing, but is not followed by increase in quality of coffee beans, so that Indonesia can't fullfill the demand of the export market. Based on these statement needs to do a research about the quality of robusta coffee beans on PTPN XII Renteng Garden Afdeling Rayap as one of Indonesian robusta coffee beans producer. This research aims to determine the quality control of robusta coffee beans, application of control charts and capability process at PTPN XII Renteng Garden Afdeling Rayap. The research method using SPC (Statistical Process Control) with a control chart analysis, pareto diagram, ishikawa diagram, and capability process. The results of the research showed that PTPN XII Renteng Garden Afdeling Rayap implement quality control test called pick-test. Based on the X-bar control chart on observations of water content known any point outside from control limits so that process has not capable to fill in statistical control. While the value of capability process (Cp) already good, that is 1,33 but still need strict control. Based on the X-bar control chart on observations of impurity content is known that no point coming out from control limits so that the process still in the statistical control. While the value of capability process (Cp) already good, that is 6,41. Based on p-control chart on observation of total disability value known that no point coming out from control limits so that the process still in the statistical control. While the value of capability process (Cp) is 0,81. This means that the process capable to produce a normal coffee beans by 81%.

Keywords: Quality Control, Robusta Coffee Beans, Pick-Test, Control Chart, Capability Process