



ABSTRACT

The Quality Control Analysis of Downstream Product of Rubber Industry In PT. Perkebunan Nusantara III (Persero)

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The purpose of this research is to Analyze the Quality Control of Downstream product of Rubber Industry In PT. Perkebunan Nusantara III (Persero). The analysis approach being used in this research are the statistical process control, multiple regression, and methods in forecasting the correlation between the number of nonconforming products and the breakdown of the machines used.

Our analysis shows that the implementation in combining the statistical process control and the multiple regression method (i.e. scatter diagram) when executed continuously will give an uninterrupted continuity of improvement of the production process, but the improvement must be backed up by the management and all of the operational personel. They can give appropriate suggestions to the management and then the back up provided by the management must includes the redesigning of the quality circle groups. It can be expected that the system will give high quality final products and at the same time the production cost can be minimized. The punctuality of the delivery to the customers will also can be achieved.

The research recommends the management that in designing the operational system, the output of the research must be connected to the pathway of the continuous improvement patterns so that the nonconforming products and the breakdown of the machines used can be avoided.

The result also shows that several actions must be taken such as :

- ❑ *Further investigations of preventing machinaries breakdown particularly at the hand rubber glove factory.*
- ❑ *Upgrading the operational personel involved through the continious training program (the intensity and the quality of the training), especially the personel of the rubber thread factory.*
- ❑ *To improve the quality of the hand rubber glove production, special attention must be concentrated on the making of compound, dipping process (bead roll department, brushing, coagulant, former and temperature).*

In case of rubber thread production, special attention must be focused on the making of compound, extrusion process and the implementation of statistical process control (i.e. pareto diagram, causative and result diagram, and quality control department).

The last mentioned matters can be used as the tool of continious quality control activities toward production process by the management and all personel involved. As for long time investigations, the same method can also be applied by combining it with multiple regression analysis based on the collected data owned by the management.

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