ABSTRACT

PT FSCM Manufacturing Indonesia is one of the biggest chain maker in Asia. Beside produces chains, this company also produces kabble and motor filter. Even the bisnis is getting bigger this company still realizes that the competition is much stronger than before. Beside producing in lower prices, the company is pushed to produces products with high quality. In order to fulfill the objectives so in this research will be designed a new production system that being called “Just In Time Production” using the kanban system. By implementing this new system, PT FSCM has an opportunity to improve the quality on the process itself.

Before creating the new system, first thing that must be done is evaluating the concurrent conditions especially that has relationship with planning and production activities. Parameters that must be evaluated are plant capacity, component reject rate and failure machine. After knowing the conditions, new model will be built to help the existing system getting better. New level stok, container capacity and order poin are being created to support the implementation of the kanban system. Simulation model being built to help choosing the best decision which container capacity that must be choosed by the company and helping to evaluate performance of the new system that has been change it’s parameters.

The results of this research is a new production system from push system to be pull system that suitable with the company.

Key words : Just In Time, kanban system