ABSTRACT

Production Planning has been played an important role in business process especially for Make To Stock Company, because it's an initial point through all process that occurs. More accurate a plan, it's more easy for a planner to control, more low cost, and more easy for the management to decide their strategy to face and win the competition.

In Coca Cola Bottling Indonesia Plant Pandaan, based on the evaluation in the end 2003, the Production Planning shown a disappointing result. Weekly rate inventory was 250,000 – 300,000 cases, the forecast has low accuracy, done for each single product with accuracy between 15% - 68%, and high inventory cost for maintain full goods.

By that initial condition, it’s need to find the causal of that problem by evaluate their Production Planning. After find the main reason for all the problem, this research try to make an improvement design for the Planning and try to implementing it. The Improvement design consist of three steps, there are : Forecasting (Using Classsical Decomposition), Inventory Decision (Periodic Review Model), and evaluation of Production Release.

After that, this research trying to implementing all of the improvement on a Decision Support System, because the other problem that made a low performance of CCBI’s planning were the high intuition and judgement that effect on the changing of the plan by the users. The DSS will be in software.

The result of Improvement Design and DSS in chance to implement on Januari 2004, shown an improvement on level of accuracy about 52%, reduction on inventory level for 9.45% and reduce total cost from evaluation result Rp 34,037,624,00

Keyword : Production Planning, accuracy, cost, inventory, forecast, Decision Support System, Production Release