ABSTRACT

Forecasts inaccuracy is the most fundamental issues for production planning process, especially at the Make to Stock (MTS) Company. At PT. Coca-Cola Bottling Plant Pandaan Indonesia, the effect will impact on the high level of inventory or shortage in the market caused by the inaccurate production planning. This happen due to event management at the company has not well established. The selection forecasting method by considering the special event impact variable, is expected to be more accurate in describing the real demand. The output of the forecasting process is then used as input for Master Production Schedule (MPS) of each product in the production process.

The results show that the special event has a significant contribution in influencing demand. Application of forecasting methods by considering the special event can improve the accuracy of forecasts for each product of 5-10%. On the other hand, total cost saving can be achieved as much as 40% in terms of production planning.

Key words: Forecast, Production planning, Special Event
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