

Thawon Chalamram 2013: A Feasibility Study of an Investment Project on Process Improvement: A Case Study of Toyota Production System for Automotive and Agricultural Machinery Parts. Master of Arts (Agribusiness), Major Field: Agribusiness, Faculty of Economics at Si Racha. Thesis Advisor: Assistant Professor Supachat Sukharomana, Ph.D. 184 pages.

The main objectives of this study are; 1) to study problems and obstacles of production system in paper shaft tube production process of ABC company; 2) to assess technical feasibility in improving the production system; 3) to evaluate the financial feasibility of investment on the improved system and 4) to make a risk analysis of investment on Toyota Production System. Primary data use in the study was gathering from interviewing some personal experiencing on the Toyota Production System. Secondary data especially about the Toyota Production System was also used and collected from various documents. Descriptive analysis and project analysis focusing on technical and financial feasibility were employed as major analytical tools to achieved the studies objectives.

The empirical indicated that the production process has lead time 49.9 days it was technically feasible to improve production process in reducing production cost of Toyota Production System. For the financial analysis, over the 10 years life span of investment project it was found that the investment project 14.11 Million Baht and if it was financially feasible as the net present value (NPV) was positive (5.02 Million Baht), benefit to cost Ratio (B/C) was (1.36), and the Financial interest rate of the return (IRR) was 47.54 percent which was higher than opportunity cost of capital (12 percent). The investment cost can be recovered within 2.99 years respectively. Therefore, there was a feasibility to invest the project.

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Thesis Advisor's signature

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