OPTIMIZING FINISHED GOODS WAREHOUSE : A CASE STUDY

Batuwattha Gamage Samith Kumara

(179215B)

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Department of Transport and Logistics Management

University of Moratuwa
Sri Lanka

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Declaration page of the candidate & supervisor

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Supervisor/s declaration

The above candidate has conducted research for the MBA in supply chain management dissertation under my supervision.

Name of the supervisor: Ms. Harishani Liyanage

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Abstract

Topic of the work was the improvement of the current space utilization and efficiency in the company finish good warehouse. As per LEAN concept storage is the one of non-value add activity in the company's supply chain but it is necessary for continue business process. The purpose of the research is deciding changes to increase the overall performance of the bearing by identifying performance factors. One of main goal is to analyze the current state of optimization. A comprehensive literature review is present for the optimization of the finished goods warehouse. The problems classified according to the basic warehouse functions and areas. The literature in each category have described with emphasis on the features of different decision support models. It also reviews inventory optimization issues and operational issues as a conceptual optimization model. First, the overall structure of the warehouse described and Secondly, the floor plan and the use of space in the warehouse characterized with special consideration in this research. Thirdly, the warehouse information systems for warehouse operations briefly mentioned and Forth, the optimization of warehouse operations depending on the technical and operational structure described. Fifth, this paper shows the management principles discussed with stock optimization, and finally the contribution of equipment and machine utilization to inventory optimization. Finally, layout strategies simulated and improved to manage warehouse utilization and truck turnaround time. And this implementation effect on waste reduction, improvement of speed and efficiency, flexibility and reliability management also discussed and finally effected as a cost saving for the company.

Key Words: Warehouse, Finished product, Optimization, Layout, Operation, Space utilization.

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