

**OPTIMIZING FINISHED GOODS WAREHOUSE  
: A CASE STUDY**

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for the degree MBA in Supply Chain Management

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## **Declaration page of the candidate & supervisor**

### **Candidate declaration**

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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

Signature of the supervisor:

Date:

## **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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## **Table of contents**

<b>Declaration page of the candidate &amp; supervisor .....</b>	<b>ii</b>
<b>Abstract.....</b>	<b>iii</b>
<b>Acknowledgement .....</b>	<b>iv</b>
<b>Table of contents .....</b>	<b>v</b>
<b>List of figures.....</b>	<b>viii</b>
<b>List of tables.....</b>	<b>ix</b>
<b>CHAPTER 1 INTRODUCTION .....</b>	<b>1</b>
1.1 Introduction .....	1
1.1.1 Background of industry .....	1
1.1.2 History of warehousing.....	2
1.1.3 The purpose of warehousing.....	3
1.1.4 Carbonated soft drinks industry in Sri Lanka.....	3
1.1.5 Case study company background .....	4
1.2 Problem Statement/Need for the study.....	4
1.2.1 Research Question .....	5
1.3 Research Objectives .....	5
1.4 Research Summary.....	5
<b>CHAPTER 2 LITERATURE REVIEW .....</b>	<b>6</b>
2.1 Introduction to warehouse operations .....	6
2.1.2 Functions of the finished good warehouse .....	7
2.1.3 Finished good warehouse operations.....	11
2.1.4 Why need warehouse Optimization.....	15
2.2 Methods of warehouse optimization .....	15
2.2.1 Overall Structures .....	16
2.2.2. Layout Plan.....	18

2.2.4 Information System.....	25
2.2.3 Operation Strategy .....	26
2.2.4 Equipment Selection .....	27
2.2.6 Management Principal .....	28
<b>CHAPTER 3    CHAPTER - RESEARCH METHODOLOGY .....</b>	<b>32</b>
3.1 Introduction .....	32
3.1 Research Design .....	32
3.1.1 Research Framework .....	33
3.2 Data Collection.....	34
3.2.1 Primary data.....	34
3.2.2 Secondary data.....	34
3.3 Data Analysis .....	35
3.3.1 Demographic factors.....	35
<b>CHAPTER 4    RESEARCH ANALYSIS.....</b>	<b>38</b>
4.1 Introduction .....	38
4.2 Descriptive Analysis.....	38
4.2.1 Factors analysis of Warehouse optimization in Company A.....	38
4.2.2 Analysis of Warehouse Design in Overall structure.....	39
4.2.3 Analysis of Layout plan.....	40
4.2.4 Analysis of Information System .....	41
4.2.5 Analysis of Equipment Selection & Machine Utilization .....	41
4.2.6 Analysis of Management Principal.....	43
4.2.7 Analysis of Operation Strategy.....	43
4.2.8 Truck turnaround Time.....	44
4.4 Simulation Model to Evaluate the Layout.....	47
4.4.1 Introduction.....	47

4.4.2 Space Optimization Model .....	47
4.4.3 Warehouse simulation layout.....	49
4.4.4 Assumption for simulation .....	49
4.4.5 Input Data .....	50
4.4.5 Initial Stock Build up time - Algorithm 10.....	52
4.4.6 Distance-calculation - Algorithm 2.....	52
4.4.7 Main simulation procedure – event simulation.....	54
4.4.8 Simulation Result Study .....	56
<b>CHAPTER 5 CONCLUSION AND RECOMMENDATION .....</b>	<b>59</b>
5.1 Conclusions .....	59
5.2 Research Limitations .....	61
5.3 Future research Directions & Recommendations.....	61
<b>CHAPTER 6 REFERENCES.....</b>	<b>63</b>
<b>APPENDICES .....</b>	<b>68</b>
Appendix 1: Questionnaire .....	68
Appendix 2: Activity Flow Chart .....	74
Appendix 3: Algorithm coding for Computation .....	76

## List of figures

<b>Figure</b>		<b>Page No</b>
Figure 2.1	U flow layout	16
Figure 2.2	Through flow layout	17
Figure 2.3	Type of layout plan	22
Figure 2.4	Typical racking layout plane	23
Figure 3.1	Research Framework	34
Figure 3.2	Experience Level in warehouse staff	37
Figure 3.3	Education Level in warehouse staff	38
Figure 4.1	Factors of Warehouse optimization	40
Figure 4.2	Current Layout of warehouse	41
Figure 4.3	Monthly Truck turnaround time	47
Figure 4.4	Warehouse Layout for simulation	49
Figure 4.5	Graph Space Utilization for Zero Open stock level	56
Figure 4.6	Graph Space Utilization for one-month Open stock	57
Figure 4.7	Graph Space Utilization Vs Total time spend	57



## List of tables

<b>Table</b>	<b>Page No</b>
Table 4.1 Factors of Layout optimization	42
Table 4.2 Factors of Management Principal	44
Table 4.3 Labor Productivity	44
Table 4.4 Composition of Truck Turnaround Time	45
Table 4.5 5 Why Analysis	46
Table 4.6 Input data	56
Table 4.7 Notation for Equations	57