

Warehouse Management Efficiency Daisei Every24 (Thailand) Co., Ltd.

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Abstract—The purpose of this research is to study 1) To study warehouse management of Daisei Every24 (Thailand) Co., Ltd. 2) To study the level of warehouse management efficiency of Daisei Every24 (Thailand) Co., Ltd. 3) To compare the warehouse management efficiency Daisei Every24 (Thailand) Co., Ltd. Classified by personal data 4) To study the relationship of warehouse management and warehouse management efficiency of Daisei Every24 (Thailand) Co., Ltd. 5) to study warehouse management that affects efficiency. Warehouse management Daisei Every24 (Thailand) Co., Ltd. This research was a research using descriptive statistics. Percentage Mean to describe the demographic data of the respondents and the population variables used in the study. 30 employees of Daisei Every24 (Thailand) Co., Ltd. and the organizer has invited 5 people who have expertise in warehouse to interview about various issues based on the questionnaire. Inferential Statistics were used for hypothesis testing. The statistics used were t-test. ANOVA analysis used F-test, (One-way ANOVA), Pearson Product Moment Correlation and Multiple Regression Analysis. The results of the study found that warehouse management side of receiving goods and the delivery of goods influence on efficiency Warehouse of Daisei Every24 (Thailand) Co., Ltd. and found that Product storage and product maintenance no influence on efficiency The warehouse of Daisei Every24 (Thailand) Co., Ltd. had a statistical significance at 0.05 level.

Keywords— Efficiency warehouse management.

I. INTRODUCTION

At present, logistics and management systems play an important role. very much with the business cycle Therefore, the logistics system covers many departments. This starts from the procurement of raw materials, the delivery of raw materials. raw material receipt Storage of raw materials, production, storage of finished goods. Loading and unloading of finished goods to end customers due to competition At present, it is quite high. Therefore, if any agency can manage the logistics system to achieve maximum efficiency, it will It has a high competitive advantage as well. (Barney, 1991)

Inventory management planning is one of the key strategies that help a business succeed. and can fight with competitors in business competition In which the warehouse is the most important in the logistics system, in the management of the warehouse management, many important elements are involved. And the complexity that requires quality management that requires a system of efficiency, professional

personnel to achieve systematic and efficient work. Therefore, warehouse management is very important. especially in the business sector The duties of management consist of Movement, storage, warehouse layout Selection of equipment for use in warehouses

Inventory management that every company should take into account is keeping raw materials to a minimum. That must be sufficient for production or export needs. and available for production or export at all times. Inventory management includes inventory procurement process production control planning, inventory control inventory retention moving inventory (Bin Syed, Mohamad, Rahman, & Suhaimi, 2016)

Handling of goods in the warehouse and delivery of goods to customers has problems with delays. Most of the main problems were found. Problems with disorganized storage and lack of supporting tools in Helping to find products in the warehouse Problems with uncontrolled delivery processes result in delivery errors. from various issues that said causing consequences that will follow is a delay in work because it takes too long to find the product There is a chance of loss from sales and a decrease in customer satisfaction. It also affects the competitiveness, which reflects the efficiency of the performance that needs to be improved. (Subramanian, Gunasekaran, Yu, Cheng, & Ning, 2014)

Nowadays, the business sector has realized the importance of logistics cost management. which is hidden in every business and industry activities As a result, logistics operations have evolved and become more efficient. more complicated To be used as a strategy to drive the business to be competitive. Therefore, the aforementioned issues have resulted in the popularity of the Third Party Logistics Provider service, which is a comprehensive logistics specialist. and lead to the trend of using premium warehouse business which is a warehouse for rent business that is designed and constructed for conducive to a more integrated logistics system as well. Some large companies have the potential to operate a full range of logistics. has expanded its operations to construction Premium warehouse for use in their own business. As a result, the structure of the Thai warehouse business gradually Shift to continuous and competitive premium warehouse operations of the warehouse business. It is very much in terms of managing both work processes that need to be modernized by cutting off work processes that are not valuable to customers in order to meet the needs of service users. (Chiu, 1995)

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From the above information, the students are interested in studying. Warehouse management efficiency of Daisafety Four (Thailand) Co., Ltd. to use the results of the study as a guideline for improving warehouse management efficiency. Objective of research To study warehouse management of Daisafety Four (Thailand) Co., Ltd.

II. LECTURER REVIEW

A. Definition of Warehouse Management

A warehouse is a place where inventory is placed, stored, held and distributed. It may be called by other names, such as a distribution center. Distribution centers, warehouses, warehouses, storage, storage, warehouses, liquid storage tanks. or parole treasury no matter what it is called The warehouse also performs the same function, namely It is a place to store goods or raw materials. or things to support in various activities of the shipping process The warehouse is where goods are received, sorted and distributed. (Krauth, Moonen, Popova, & Schut 2005.)

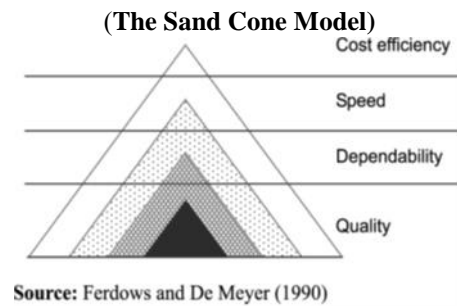
has given the meaning of warehouse management that Warehouse Management (Warehouse Management) is the management of the receipt, storage, means the delivery of goods to the recipient for sales activities. The main goal of business management In relation to warehousing, it is to create a systematic operation that is worth the investment. quality control of the collection Product picking, prevention, minimizing the loss of Operate to keep operating costs as low as possible and taking full advantage of the area Ten (Hompel, & Schmidt, 2008).

B. Warehouse concept theory

Warehousing has many sub-tasks and differs according to the purpose of warehouse storage in each of the four main categories:

Theory of affective Definition of efficiency

Performance refers to the ability and skill of an individual, one's own, or that of others to improve, grow, and achieve goals of one's own and an organization. which will make oneself Others and Organizations Satisfaction and peace in the end said that efficiency refers to the performance that results in satisfaction. and receive profits from operations Satisfaction means satisfaction with the service to the people. by considering, for example, providing equal services Providing services quickly, in a timely manner, providing adequate services continuous service and progressive service, etc.



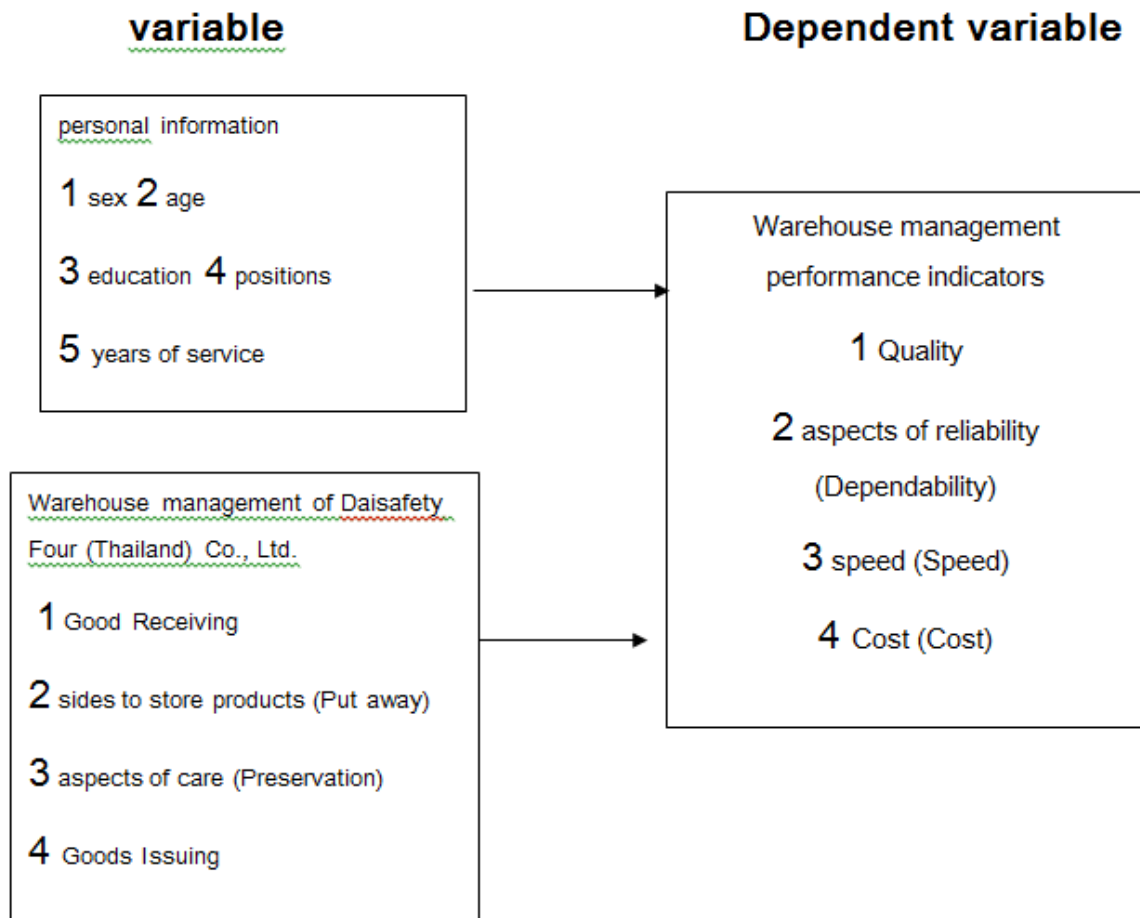
Source : Ferdows and De Meyer (1990)

The picture shows the construction of a cone by sprinkling sand starting from the base as quality first, quality as the foundation, then we have to increase the amount of sand sprinkled in to create more layers to be reliable. Increase speed and reduce costs as the floors go up. The base of the cone is enlarged, creating a stronger needle

between quality (Quality), speed (Speed), reliability (Dependability), Cost (Cost) There may be a question of what should we start with before or after? We used to think that acquiring one thing was a trade-off. (Conventional trade-off theory), such as quality improvement. (Rosario Rosas-Vega, 2000) ref. Skinner, 1996 states that "factories cannot perform well in many of the required standards." The faster work can be done at the trade-off for quality and reliability. or that must be such an exchange (Rosario Rosas-Vega, 2000). Ferdows and De Mayer (1990) argued that we may not need an exchange. But actually doing one thing can be a support for another. He presented a model to explain how to increase and maintain production capability. This model was guided by the study of who laid the foundation for Japanese manufacturers to take steps to increase their production capacity (Rosario Rosas-Vega, 2000), according to Ferdows and De Mayer (1990), suggesting that steps must be taken. It starts with improving the quality (Quality), which will help build dependability, and then gradually increases the speed (Speed). Quality and trust are still there. Finally, as we move forward, improve all 3 things: quality, reliability. speed at the same time We allocate resources into cost management (Cost) to be effective.

III. CONCEPTUAL FRAMEWORK IN EDUCATION

From the above studies, the researcher has based on the concept of warehouse management theory and The Sand Cone Model, summarized and coordinated as a conceptual framework in the study. Warehouse management efficiency of Daisafety Four (Thailand) Co., Ltd. as follows:



Demonstrate a conceptual framework in the study.

IV. RESEARCH METHODOLOGY

A study on the efficiency of warehouse management at Daisafe Twenty Four (Thailand) Co., Ltd. aimed at Study warehouse management, Daisafety Four (Thailand) Co., Ltd. Warehouse management efficiency of Daisafety Four (Thailand) Co., Ltd. Classified by personal information and to study warehouse management that affects warehouse efficiency of Daivery Twenty Four (Thailand) Co., Ltd. The data from the study can be used as a guideline for improving warehouse management efficiency. The methodology for the study was set as follows: (Mahamud, Janepakon, Srikacha, & Chaipnoi,2019)

Study results

study subject Warehouse management efficiency of Daisafety Four (Thailand) Co., Ltd.Co., Ltd. The sample studied was an employee of Daisafe Twenty Four (Thailand) Co., Ltd. and related people who have visited the warehouse A total of 30 questionnaires were used as a tool for data collection and 30 sets or 100% returned were received. The results of the study were divided into 6 parts as follows:

Comparison of warehouse management influencing warehouse efficiency Daisafe Twenty Four (Thailand) Co., Ltd.

warehouse management	B	Std. Error	Beta	t	Sig.	Test
(Constant)	.031	.402		.077	.939	no
side of receiving goods	.497	.125	.529	3.961	.001	yes
product storage	-.022	.089	-.030	-.243	.810	no
Product care	.200	.108	.207	1.860	.075	no
Delivery	.302	.104	.350	2.896	.008	Yes

** Statistically significant at the .05 (2-tailed) level.

Comparison of warehouse management influencing the efficiency of the warehouse of Decevery Twenty Four (Thailand) Co., Ltd., it was found that warehouse management had an influence on the efficiency of the warehouse of Decevery Twenty Four. (Thailand) Co., Ltd. mostly except for storage and maintenance. There was no influence on the warehouse efficiency of Daisafety Four (Thailand) Co., Ltd. with a statistically significant level of .05. It was concluded that most of the aforementioned warehouse management had

an influence on warehouse efficiency. Dai Safety Twenty Four (Thailand) Co., Ltd., but for the storage and maintenance of products No influence on efficiency Warehouse Daisafety Four (Thailand) Co., Ltd. (Suvittawat, 2016)

V. SUMMARY, DISCUSSION, AND SUGGESTIONS

This study on the efficiency of warehouse management at Daisafety Four (Thailand) Co., Ltd. had the objective of to study warehouse management warehouse management efficiency Compare warehouse management efficiency classified by personal data. and warehouse management that affects efficiency Warehouse of Daisafety Four (Thailand) Co., Ltd. by interviewing and using a questionnaire of 30 sets as a tool to collect data and use statistics for data analysis, i.e. percentage, mean, hypothesis testing. t- test, F-test (One-Way ANOVA) (Kim, 2017) Correlation and Multiple Regression Analysis.

The results of the data analysis can be summarized as follows:

From a study on the efficiency of warehouse management at Daisafety Four (Thailand) Co., Ltd., it was found that most of the respondents were male, aged between 21-30 years old, with education below a bachelor's degree. Employee position and have a working life of less than 1 year. Warehouse management information Daisafety Four (Thailand) Co., Ltd. From the study of information about the importance of warehouse management of Daisafety Four (Thailand) Co., Ltd., it was found that in terms of receiving goods product storage product care and the delivery of goods In an overview of the importance of warehouse management, Daisafe Twenty Four (Thailand) Co., Ltd. in a very important level The details are as follows. Side of receiving goods The results of the study were found to be in a very important level. with important details It is in a very important level of 5 factors, including recording the receipt of goods into the system. Checking the sticker labels to be accurate according to the documents Checking the condition of the goods to ensure that they are completely correct, the boxes are not dented or torn; have a schedule for receiving (Alekseenko, 2021)

product storage The results of the study were found to be in a very important level. with important details It is in a very important level, including 6 items. Dead stock alerts (expired products). Storage. classified by nature and type of product The preparation of the shelf/storage area is ready and sufficient. Equipment, storage facilities are ready and sufficient. FIRST IN FIRST OUT (FIFO) sorting and discharging is stored with regard to the movement of goods with frequent movements.

Product care The results of the study were found to be in a very important level. with important details It is in a very important level of 5 factors, including the frequency of product counting. There are modern anti-insect tools. Procedures and services in the storage of goods Measures and safety in storage of goods Places and materials handling equipment for storage of goods

Delivery The results of the study were found to be in a very important level. with important details It is in a very important level, consisting of 5 factors, including grouping of products for delivery by area, Export, Domestic, with a specific time and place to deliver the product. There is a document indicating the products that will be delivered to each customer. The use of protective materials to prevent goods falling from the pallet during movement. The packing equipment to be shipped is suitable for the type of product.

Warehouse management efficiency data of Daisafety Four (Thailand) Co., Ltd.

From the study of information on warehouse management efficiency of Daisafety Four (Thailand) Co., Ltd., it was found that in terms of quality, reliability, (Dependability), speed (Speed) and cost (Cost) in the overall efficiency of warehouse management of Daisafety Four (Thailand) Co., Ltd. at a very agreeable level The details are as follows. In terms of quality (Quality), the results of the study showed that it was at a very agreeable level. with detailed comments It is in a very agreeable level, consisting of 3 items that are delivered in perfect condition. Check to receive the correct product, complete according to the number of products stored without deterioration from storage for a long time.

credibility (Dependability) The results of the study showed that it was at a high level of agreement. with detailed comments It is at the level of very agree with 4 factors, consisting of confidence in quality products. The products delivered in the correct amount are complete every time. On time delivery every time The image of the product delivered without damage

In terms of speed (Speed), the results of the study showed that it was at a very agreeable level. with detailed comments It is at the level of very agree with 4 things, consisting of delivery of products to customers. The accuracy of the products according to the order delivery of goods to customers fast on time Using a short storage time Using technology to record goods quickly Cost (Cost) The results of the study showed that it was at a very agreeable level. with detailed comments It is in a very agreeable level, consisting of 5 factors, including the use of storage space cost-effectively. Cost of storage (Carrying Cost) is reduced, reducing excess inventory. Reduce shipping costs The value of goods damaged during movement is reduced.

A. Discussion of results

From the study on the efficiency of warehouse management of Daievery Twenty-Four (Thailand) Co., Ltd., the researcher had the following issues to discuss: Warehouse management of Daievery Twenty-Four Company (Thailand) is limited by factors of receiving goods. product storage Product care and the delivery of goods

B. Recommendations from the study

The study authors have the following suggestions to be useful:

In doing this research, we learned about warehouse

management. and warehouse management efficiency can be used as a guideline for improvement Developed to increase the efficiency of warehouse management as follows

1. Receiving goods Technology should be used to increase efficiency in receiving products such as using Barcode to scan the product For the speed of counting or inspecting the condition of goods, the technology of RFID (Radio Frequency Identification) is applied to attach various objects. to indicate a specific identity or as an identification number For example, used instead of labels or bar codes (Bar Code) attached to the product. Help reduce errors from work.

2. Product storage Equipment and storage facilities should be adequately prepared. Organize the environment in the work area Prepare to be stored or forwarded (Put away). Set up a storage system in accordance with the shipment in order to be able to deliver goods quickly.

3. In terms of product supervision, the warehouse layout should be systematically adjusted to facilitate 5S activities consistently and continuously. To ensure safety and good working environment

4. Delivery of goods To transport goods from inside the warehouse to the freight car. should arrange a strong capital for moving goods for the safety of employees and reduce product damage that may occur during movement

VI. SUGGESTIONS FOR THE NEXT STUDY

Should study the quality of life of employees at the operating level of Daisafety Four (Thailand) Co., Ltd.

REFERENCES

- [1] Alekseenko, A. S. (2021). Importance of the correct determination of the country of origin of goods for the national economy.
- [2] Barney, J. (1991). Competitive advantage. *Journal of management*, 17(1), 99-120.
<https://doi.org/10.1177/014920639101700108>
- [3] Bin Syed, S. J. A. N., Mohamad, N. N. S., Rahman, N. A. A., & Suhaimi, R. D. S. R. (2016). A study on relationship between inventory management and company performance: A case study of textile chain store. *Journal of Advanced Management Science*, 4(4).
- [4] Chiu, H. N. (1995). The integrated logistics management system: a framework and case study. *International Journal of Physical Distribution & Logistics Management*.
- [5] Ferdows, K., & De Meyer, A. (1990). Lasting improvements in manufacturing performance: in search of a new theory. *Journal of Operations management*, 9(2), 168-184.
[https://doi.org/10.1016/0272-6963\(90\)90094-T](https://doi.org/10.1016/0272-6963(90)90094-T)
- [6] Kim, T. K. (2017). Understanding one-way ANOVA using conceptual figures. *Korean journal of anesthesiology*, 70(1), 22.
<https://doi.org/10.4097/kjae.2017.70.1.22>
- [7] Krauth, E., Moonen, H., Popova, V., & Schut, M. (2005, June). Performance indicators in logistics service provision and warehouse management—a literature review and framework. In *Euroma international conference* (pp. 19-22).
- [8] Mahamud, T., Janepakon, C., Srikacha, W., & Chaiponoi, S. (2019). HUMAN RESOURCE MANAGEMENT PRACTICES TRANSFER IN MULTINATIONAL INDIAN COMPANIES IN BANGKOK. *Asian Journal of Behavioural Sciences*, 1(1), 19-26.
- [9] Rosas-Vega, R., & Vokurka, R. J. (2000). New product introduction delays in the computer industry. *Industrial Management & Data Systems*.
<https://doi.org/10.1108/02635570010291775>

- [10] Subramanian, N., Gunasekaran, A., Yu, J., Cheng, J., & Ning, K. (2014). Customer satisfaction and competitiveness in the Chinese E-retailing: Structural equation modeling (SEM) approach to identify the role of quality factors. *Expert Systems with Applications*, 41(1), 69-80.
<https://doi.org/10.1016/j.eswa.2013.07.012>
- [11] Suvittawat, A. (2016). Majors factors for effective warehouse management: Eastern part of Thailand perspective. *IJABER* 14 (6), 3757-3763.
- [12] Ten Hompe, M., & Schmidt, T. (2008). *Warehouse management*. Springer Berlin Heidelberg
<https://doi.org/10.1007/978-3-540-74876-2>