

# Reducing Operational Delays By 5 Percentage In Shipping Agencies Through Optimized Warehouse And Cargo Handling

Sabik Raja<sup>1</sup>. S, Dr. Senthil Kumar R<sup>2</sup>

<sup>1</sup>MBA Student; Mba(Logistics &Supply Chain Management), School Of Management Studies, Vels Institute Of Science, Technology & Advanced Studies, Chennai-117. India.

<sup>2</sup>Assistant Professor, Department Of Management Studies, School Of Management Studies, Vels Institute Of Science, Technology & Advanced Studies (Vistas), Chennai -117, India.

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## ABSTRACT

*Shipping agencies are an essential part of global trade, acting as a bridge between shipping lines, ports, and customers. However, one of the biggest challenges they face today is operational delay, which affects efficiency, cost, and customer satisfaction. This study focuses on reducing operational delays by 5% through better warehouse management and improved cargo handling practices, with special reference to A.S. Shipping Agencies Pvt. Ltd., Chennai.*

*The research is based on a quantitative approach, where primary data was collected from 100 employees using structured questionnaires. Secondary data was gathered from journals, books, and company records to support the study. Various statistical tools such as percentage analysis, descriptive statistics, and ranking methods were used to analyse the data.*

*The findings show that delays are mainly caused by poor warehouse layout, lack of proper coordination, equipment issues, and gaps in communication. While many employees agreed that safety measures and technology systems are in place, there are still inconsistencies in training, SOP implementation, and teamwork across departments.*

*The study suggests that improving warehouse layout, standardizing cargo handling processes, and using technologies like WMS, RFID, and GPS tracking can help reduce delays effectively. Even a small 5% reduction can make a big difference by improving turnaround time, reducing costs, and increasing reliability.*

*Overall, the study provides practical solutions that can help shipping agencies improve their efficiency and stay competitive in the growing logistics industry.*

**KEY WORDS:** *Shipping Agencies, Operational Delays, Warehouse Management, Cargo Handling, Logistics Efficiency, Supply Chain, Technology Integration*

## INTRODUCTION

Shipping agencies play a very important role in the logistics industry. They act as coordinators between shipping companies, port authorities, and customers to ensure that cargo moves smoothly from one place to another. In today's fast-moving global trade environment, efficiency is everything. Even a small delay in operations can affect the entire supply chain.

Operational delays can happen due to many reasons such as poor warehouse management, inefficient cargo handling, documentation errors, lack of coordination, or equipment failure. These delays not only increase costs but also reduce customer satisfaction and trust.

To overcome these issues, it is important to focus on improving warehouse systems and cargo handling practices. Even a small improvement, like reducing delays by 5%, can bring significant benefits such as faster vessel turnaround time, better resource utilization, and improved service quality.

## **OBJECTIVES OF THE STUDY**

### **Primary Objective**

- To reduce operational delays by 5% through better warehouse and cargo handling practices.

### **Secondary Objectives**

- To understand the current warehouse and cargo handling processes
- To analyse documentation and communication systems
- To study the role of technology like WMS, RFID, and GPS
- To evaluate performance using indicators like turnaround time and dwell time

## **REVIEW OF LITERATURE**

Many researchers have studied logistics and warehouse operations in the past. Faber et al. (2012) explained that poor warehouse design can increase travel time and delays, while a good layout improves efficiency.

Gunasekaran et al. (2001) highlighted the importance of performance measurement in improving logistics operations. Caris et al. (2008) found that lack of coordination between different systems leads to delays in cargo movement.

Rushton et al. (2017) emphasized that standard operating procedures help improve efficiency and reduce errors. Similarly, Hsu et al. (2014) pointed out that slow cargo handling and poor documentation increase dwell time in ports.

Overall, previous studies show that proper planning, coordination, and technology adoption are key factors in reducing operational delays.

## **DATA ANALYSIS**

The data for this study was collected from 100 employees working in different departments. The analysis provides useful insights into the current operational situation.

Most employees (78%) belong to the 21–30 age group, showing that the workforce is young and active. Around 64% of respondents are male, indicating a male-dominated work environment. In terms of education, 57% are graduates and 38% are postgraduates, which shows that employees are well qualified.

A significant finding is that 62% of respondents agree that operational delays are common. While 74% believe that technology support is effective, only 67% feel that communication between departments is smooth. This indicates that coordination is still an area that needs improvement.

Overall, the analysis shows that while the organization is performing well in areas like safety and documentation, improvements are needed in communication, training, and process consistency.

## INDUSTRIAL PROFILE

The shipping and logistics industry in India is a major contributor to the country's economy. It handles about 95% of the country's trade by volume and plays a key role in connecting India to global markets.

The industry includes ports, transportation, warehousing, and freight forwarding services. Government initiatives like the Sagarmala Programme and National Logistics Policy aim to improve infrastructure and reduce logistics costs.

A.S. Shipping Agencies Pvt. Ltd., Chennai, is an important player in this sector. The company provides services such as container freight stations, warehousing, transportation, and specialized cargo handling. It operates 24/7 and uses modern equipment and technology to ensure smooth operations.

## CONCLUSION

This study clearly shows that operational delays are a common problem in shipping agencies and are mainly caused by inefficiencies in warehouse management, cargo handling, and coordination.

Even though the company has good safety practices and uses technology, there are still gaps in communication, training, and SOP implementation. These gaps directly affect operational efficiency.

By improving warehouse layout, strengthening coordination, and adopting better technology systems, it is possible to achieve a 5% reduction in delays. This may seem small, but it can lead to significant improvements in performance, cost savings, and customer satisfaction.

In conclusion, with proper planning and continuous improvement, shipping agencies can enhance their efficiency and remain competitive in the logistics industry.

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#### WEB LINKS

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