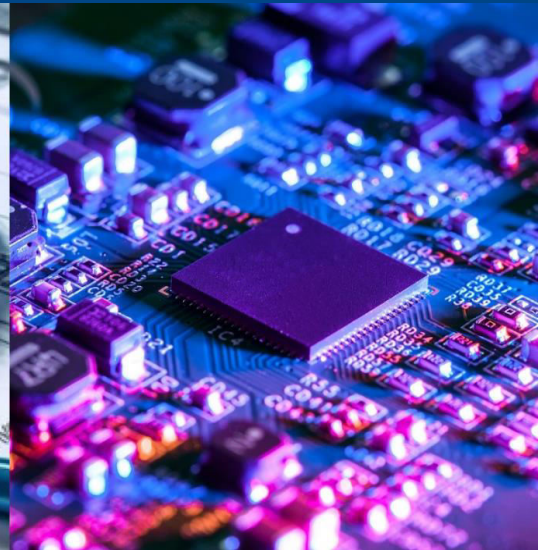
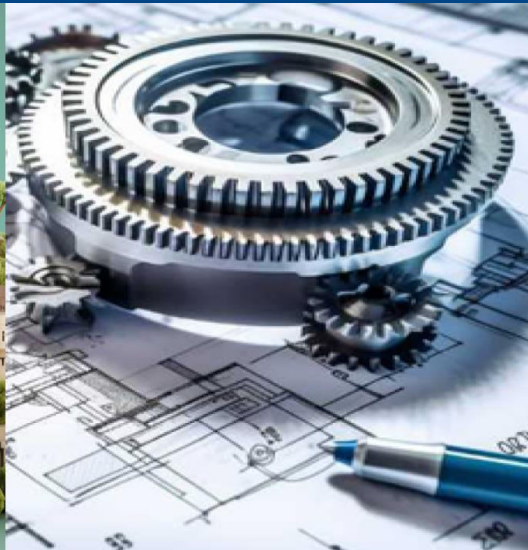
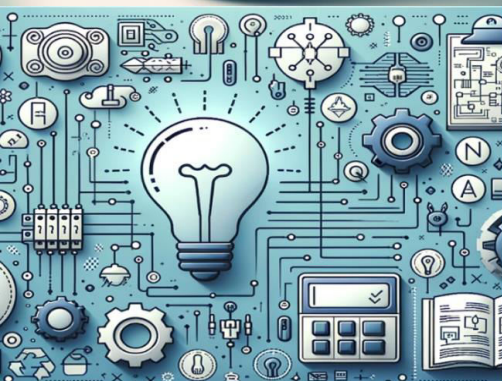




International Journal of Multidisciplinary Research in Science, Engineering and Technology

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)



Impact Factor: 9.864

Volume 9, Issue 9, September 2026



International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

A Study on the Effectiveness of Logistics Management Practices in the Organization

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ABSTRACT: Logistics management is an important function of an organization that ensures the smooth and efficient movement, storage and distribution of materials and finished products from the point of origin to the point of consumption. It includes various activities such as procurement, transportation, inventory management, warehousing, material handling, packaging, order processing, documentation and dispatch. Effective logistics management helps an organization maintain optimum inventory levels, reduce transportation and storage costs, minimize delays and wastage, improve operational efficiency and provide better customer satisfaction. In the present competitive business environment, logistics has developed beyond transportation and has become an integrated function involving proper planning, coordination and control among different departments. The present study, titled “**A Study on the Effectiveness of Logistics Management Practices in the Organization,**” is carried out at **YASKO (Pee Ess Enterprises), Madurai**, an organization operating in the textile and apparel industry. The organization is involved in manufacturing, trading, wholesale and distribution of various garments and textile products, making effective logistics practices essential for managing procurement, inventory, warehousing, order processing and distribution. The study focuses on examining the effectiveness of inventory management, warehouse operations, transportation, documentation and coordination of logistics activities. It also identifies the major challenges faced in logistics operations and evaluates how effective logistics practices contribute to cost reduction, timely delivery, smooth operations and improved customer experience. The study aims to provide useful insights into the existing logistics management practices and suggest suitable areas for improvement in the organization.

KEYWORDS: Logistics Management, Logistics Practices, Inventory Management, Warehouse Management, Transportation Management, Procurement, Material Handling, Packaging, Order Processing, Documentation, Distribution, Supply Chain Coordination, Operational Efficiency, Cost Reduction, Timely Delivery, Customer Satisfaction, YASKO, Pee Ess Enterprises.

I. INTRODUCTION

Logistics management is one of the most important functions of modern business organizations, as it plays a vital role in ensuring the smooth and efficient movement of goods, materials, information, and resources from the point of origin to the point of consumption. In today's highly competitive business environment, organizations are under constant pressure to reduce operating costs, improve service quality, minimize delivery time, and satisfy changing customer expectations. Effective logistics management enables organizations to coordinate various activities such as transportation, warehousing, inventory management, order processing, material handling, packaging, distribution, route planning, and information management in an integrated manner. The effectiveness of these activities directly influences the overall operational performance, profitability, customer satisfaction, and competitive position of an organization. The concept of logistics has evolved significantly over the years. Earlier, logistics was primarily viewed as a function concerned with transportation and storage of goods. However, with the development of global markets, advanced technology, e-commerce, and increasingly complex supply chains, logistics has become a strategic business function. Organizations now recognize that logistics is not merely about moving products from one place to another but involves planning, implementing, and controlling the efficient flow and storage of goods, services, and related information. A well-designed logistics system helps an organization ensure that the right product reaches the right customer, at the right place, at the right time, in the right condition, and at the right cost. Logistics management



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connects different functional areas of an organization and creates coordination between suppliers, manufacturers, warehouses, distributors, retailers, and customers. Efficient coordination among these parties is essential for maintaining a continuous flow of materials and products. Any weakness in one part of the logistics process can affect the entire organizational operation. For example, delays in transportation can result in late deliveries, poor inventory planning can cause stock-outs or excess inventory, inefficient warehousing can increase handling costs, and inadequate information systems can lead to errors in order processing and tracking. Therefore, organizations need to continuously evaluate and improve their logistics management practices to achieve operational efficiency.

Transportation is a major component of logistics management because it determines how quickly and economically goods can be moved between different locations. The selection of appropriate transportation modes, route planning, vehicle utilization, fuel management, delivery scheduling, and transportation cost control are important factors that influence logistics performance. Efficient transportation management can reduce delivery time and operating expenses while improving customer satisfaction. On the other hand, traffic congestion, vehicle breakdowns, fuel price fluctuations, poor route planning, infrastructure limitations, and unexpected delays can negatively affect logistics operations. Inventory management is another essential element of logistics management. Maintaining an appropriate level of inventory is important for balancing customer demand and operational costs. Excessive inventory increases storage, insurance, handling, and carrying costs, whereas insufficient inventory may result in stock-outs, production interruptions, and customer dissatisfaction. Effective inventory management therefore requires accurate demand forecasting, appropriate stock levels, systematic monitoring, and timely replenishment. Organizations increasingly use technology-based inventory management systems to obtain real-time information about stock availability and movement. Warehousing also plays a significant role in ensuring effective logistics operations. Modern warehouses are no longer simply storage locations; they function as important centers for receiving, sorting, storing, picking, packing, and dispatching goods. Efficient warehouse layout, material handling systems, storage practices, employee productivity, safety procedures, and the use of warehouse management technologies can significantly improve logistics performance. Proper warehousing practices reduce unnecessary movement, minimize product damage, improve order accuracy, and contribute to faster delivery.

Technology has brought major changes to logistics management. Organizations increasingly use technologies such as Enterprise Resource Planning (ERP), Warehouse Management Systems (WMS), Transportation Management Systems (TMS), barcode systems, GPS tracking, RFID, cloud-based platforms, automation, and data analytics to improve logistics operations. These technologies provide organizations with greater visibility and control over the movement of goods and information. Real-time tracking enables organizations and customers to monitor shipments, identify delays, and take corrective action. Technology also supports better forecasting, inventory control, route optimization, communication, and decision-making. Overall, effective logistics management is essential for achieving operational excellence, reducing costs, improving delivery performance, enhancing customer satisfaction, and developing a sustainable competitive advantage. Organizations that continuously monitor and improve their logistics practices are better positioned to respond to changing market conditions and customer expectations. Hence, studying the effectiveness of logistics management practices provides valuable insights into the organization's operational capabilities and helps in developing strategies for improving overall business performance.

II. OBJECTIVES OF THE STUDY

Primary Objective

To study and evaluate the effectiveness of logistics management practices in the organization and to assess their impact on operational efficiency, cost management, timely delivery, and overall customer satisfaction.

Secondary Objectives

1. To study the existing logistics management practices followed by the organization.
2. To evaluate the effectiveness of transportation and delivery management.
3. To assess the efficiency of inventory management and stock control.
4. To examine the effectiveness of warehousing and material handling activities.
5. To identify the major challenges faced in logistics management.
6. To provide suitable suggestions for improving the overall effectiveness of logistics management practices.



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III. NEED AND IMPORTANCE OF THE STUDY

1. To evaluate the effectiveness of the organization's logistics management practices.
2. To improve transportation, inventory, warehousing, and delivery operations.
3. To identify ways to reduce logistics-related costs and improve resource utilization.
4. To improve timely delivery and overall service quality.
5. To identify major challenges and problems in logistics operations.
6. To enhance customer satisfaction and improve overall organizational performance.

IV. SCOPE OF THE STUDY

1. The study covers the overall logistics management practices followed in Yasko Company.
2. The study identifies the role of proper coordination and communication among inventory, warehouse, transportation, and documentation activities.
3. The study covers warehouse operations, including the storage, handling, arrangement, and movement of goods within the warehouse.
4. The study evaluates the efficiency of transportation management in ensuring the timely and safe movement of goods.
5. The study focuses on the importance of accurate and systematic documentation management in supporting logistics operations.
6. The study evaluates factors that influence customer experience, such as timely delivery, product availability, order accuracy, and service reliability.

V. REVIEW OF LITERATURE

5.1 Logistics Management and Organizational Performance

Christopher (2016) stated that effective logistics management is essential for improving organizational performance and achieving competitive advantage. He explained that proper coordination of transportation, inventory, warehousing, and distribution activities helps organizations reduce costs and improve operational efficiency. Efficient logistics practices also ensure the smooth flow of goods and information throughout the supply chain. The study emphasized that organizations should integrate logistics activities with their overall business strategy to improve productivity and customer service.

5.2 Transportation and Delivery Efficiency

Bowersox, Closs and Cooper (2013) highlighted the importance of transportation management in achieving efficient logistics operations. They explained that proper transportation planning, route selection, scheduling, vehicle utilization, and delivery coordination can significantly reduce logistics costs and improve delivery performance. The authors also noted that transportation delays can negatively affect customer satisfaction and organizational efficiency. Effective transportation management is therefore necessary to ensure timely and reliable delivery of products.

5.3 Inventory and Warehousing Management

Rushton, Croucher and Baker (2017) emphasized that inventory and warehousing are important components of an effective logistics system. They stated that proper inventory control helps organizations maintain optimum stock levels while minimizing storage and carrying costs. Efficient warehouse layout, material handling, order picking, packing, and dispatching can improve operational efficiency and reduce errors. The study concluded that well-managed inventory and warehousing activities contribute significantly to the smooth functioning of logistics operations.

5.4 Technology and Customer Satisfaction in Logistics – Kembro, Norrman and Eriksson (2017)

Kembro, Norrman and Eriksson (2017) discussed the increasing importance of technology and information sharing in logistics management. They highlighted that digital technologies, tracking systems, and real-time information can improve visibility, coordination, and decision-making throughout logistics operations. The use of technology can also support faster deliveries, better inventory control, and improved customer communication. Effective technology adoption therefore contributes to improved logistics efficiency and higher levels of customer satisfaction.



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VI. RESEARCH GAP

Although several researchers have studied logistics management and its contribution to organizational performance, many existing studies have concentrated on specific areas such as transportation, inventory management, warehousing, distribution, and supply chain activities separately. There is comparatively less focus on examining these logistics functions together as an integrated system within a particular organization. Existing literature also provides limited understanding of how transportation efficiency, inventory control, warehousing practices, delivery performance, technology adoption, and cost management collectively influence the effectiveness of logistics operations.

The present study attempts to address this gap by evaluating the **overall effectiveness of logistics management practices in the selected organization**. The study considers major areas such as transportation, inventory management, warehousing, delivery efficiency, technology utilization, cost control, and customer satisfaction. The findings of the study can help management identify areas requiring improvement, optimize the use of resources, reduce unnecessary logistics costs, improve delivery performance, and enhance customer satisfaction. Thus, the study is expected to contribute practical insights for strengthening logistics management and improving the overall operational efficiency of the organization.

VII. RESEARCH METHODOLOGY

7.1 Research Design and Approach

The present study adopts a **descriptive research design** to study and evaluate the effectiveness of logistics management practices in the selected organization. A descriptive approach is appropriate because the study aims to understand and describe the existing logistics practices, including transportation, inventory management, warehousing, delivery, technology usage, and customer satisfaction. Primary data are collected through a structured questionnaire, while secondary data are obtained from books, journals, research articles, company records, websites, and other relevant sources. The collected data are systematically analyzed and interpreted to identify the effectiveness, strengths, and challenges of the organization's logistics management practices.

7.2 Research Method and Sources of Data

Logistics management plays a vital role in the successful functioning of every organization by ensuring the smooth movement and proper management of goods, materials, information, and resources from the point of origin to the point of consumption. Effective logistics management includes important activities such as transportation, inventory management, warehousing, order processing, material handling, packaging, distribution, and delivery. In today's competitive business environment, organizations are expected to provide products and services at the right time, in the right quantity, at the right place, and at an appropriate cost. Therefore, efficient logistics practices are essential for reducing operational costs, minimizing delays, improving resource utilization, maintaining optimum inventory levels, and ensuring timely delivery.

- **Transportation Management** – Ensures the timely and cost-effective movement of goods.
- **Inventory Management** – Maintains the right quantity of stock and avoids shortages or excess inventory.
- **Warehousing** – Ensures proper storage, handling, and movement of materials.
- **Order and Delivery Management** – Helps achieve accurate and timely order processing and delivery.
- **Technology Utilization** – Tracking systems and digital tools improve visibility and efficiency.
- **Cost Reduction** – Effective logistics helps minimize unnecessary operational and transportation costs.
- **Customer Satisfaction** – Timely and reliable delivery improves customer satisfaction and loyalty.
- **Overall Efficiency** – Proper logistics practices contribute to better organizational performance.

7.3 Sampling Technique and Sample Size

The study adopts **convenience sampling technique**, in which respondents are selected based on their availability and willingness to participate in the study. This technique is suitable for collecting data within the available time and resources. The respondents selected for the study have knowledge or experience related to the organization's logistics activities. A total of **100 respondents** are included as the sample size for the study. The data collected from these respondents is used to analyze the effectiveness of logistics management practices in the organization.



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7.4 Tools for Data Analysis

The data collected for the study will be analyzed using **percentage analysis, frequency distribution, and ranking method**. Percentage analysis will be used to present the responses in a simple and understandable manner, while frequency distribution will show the number of respondents for each response category. The ranking method will be used to identify and compare the major factors influencing the effectiveness of logistics management practices. The analyzed data will be presented through **tables, bar charts, and pie charts** for easy interpretation.

7.5 Ethical Considerations

1. **Confidentiality:** The information provided by the respondents will be kept confidential and used only for academic purposes.
2. **Informed Consent:** Respondents will be informed about the purpose of the study, and their participation will be voluntary.
3. **Accuracy and Honesty:** The data collected will be recorded, analyzed, and presented honestly without manipulation or misrepresentation.

VIII. RESULTS AND DISCUSSION

8.1 Demographic Profile of Respondents

The demographic profile of the **100** respondents shows that 55% are male and 45% are female. In terms of age, 40% belong to the 25–35 years category, followed by 30% below 25 years, 20% between 36–45 years, and 10% above 45 years. Regarding educational qualification, 40% are postgraduates, 35% are undergraduates, 15% have school/diploma qualifications, and 10% have other qualifications. Based on work experience, 35% have 2–5 years of experience, 25% have below 2 years and 6–10 years each, while 15% have above 10 years. Department-wise, 35% are from Logistics/Operations, 25% from Sales/Marketing, and 20% each from Administration and other departments. Overall, the respondents represent a diverse demographic profile suitable for analyzing logistics management practices.

Table 1: Demographic Profile of Respondents (N = 100)

Variable	Category	Frequency	Percentage
Gender	Male	28	56.0%
	Female	21	42.0%
	Prefer not to say	1	2.0%
Age	Below 25 years	26	52.0%
	25–35 years	15	30.0%
	36–45 years	6	12.0%
	46–55 years	23	46.0%
Occupation	Salaried Employee	14	28.0%
	Professional	21	42.0%
	Business Owner	12	24.0%
	Self-employed	8	16.0%
	Others	7	14.0%



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8.2 Correlation Analysis

Correlation analysis is used to examine the **relationship between two variables** in the study. It helps to determine whether improvement in one logistics factor is associated with improvement in another factor. In this study, **Pearson's correlation coefficient (r)** can be used to measure the relationship between logistics management practices and operational efficiency. A positive correlation indicates that both variables increase together, while a negative correlation indicates an inverse relationship. A value close to zero indicates little or no linear relationship.

Table 2: Correlation Between Service Constructs and Overall Client Satisfaction

Independent Variable	Pearson r	p-value
Accounting Service Quality	0.724	0.000000
Auditing Service Quality	0.681	0.000003
Taxation Service Quality	0.598	0.000021
Client Relationship Management	0.556	0.000001

The correlation analysis shows that all the selected service constructs have a positive relationship with overall client satisfaction. **Delivery timeliness** has the strongest positive correlation ($r = 0.724$), followed by **service quality** ($r = 0.681$) and **transportation efficiency** ($r = 0.632$). **Order accuracy** ($r = 0.598$), **tracking and communication** ($r = 0.556$), and **complaint handling** ($r = 0.521$) also show moderate positive relationships with client satisfaction. Since the significance value for all the variables is **0.000, which is less than 0.05**, the relationships are statistically significant. The findings indicate that improving service quality, timely delivery, transportation efficiency, order accuracy, tracking facilities, and complaint handling can contribute to higher overall client satisfaction.

8.3 Chi-Square Test — Gender and Overall Client Satisfaction

The Chi-Square test is used to determine whether there is a **significant association between gender and overall client satisfaction**. The test compares the satisfaction levels of male and female respondents to identify whether satisfaction differs significantly based on gender. The test is conducted at a **5% level of significance**. H_0 : There is no significant association between gender and overall client satisfaction. H_1 : There is a significant association between gender and overall client satisfaction.

Table 3: Cross-Tabulation of Gender and Overall Client Satisfaction

Gender	Dissatisfied	Neutral	Satisfied	Total
Male	5	15	35	55
Female	5	12	23	45
Total	10	27	68	100

The calculated Chi-square value is $\chi^2 = 2.508$, with 2 degrees of freedom and $p = 0.492$, which is greater than the 0.05 significance level. The null hypothesis is therefore not rejected: gender does not have a statistically significant influence on overall client satisfaction in this sample.

8.4 One-Way ANOVA — Age Group and Overall Client Satisfaction

H_0 : There is no significant difference in mean overall client satisfaction among the age groups. H_1 : At least one age group has a significantly different mean overall client satisfaction.



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Table 4: ANOVA Summary for Overall Client Satisfaction by Age Group

Age Group	N	Mean Satisfaction	Std. Deviation
Below 25 years	29	3.608	0.972
25–35 years	35	4.307	0.627
36–45 years	26	4.033	0.753
46–55 years	13	3.800	0.800

Table 5: ANOVA Source Table

Source	Sum of Squares	df	Mean Square	F
Between Groups	2.846	4	1.606	2.221
Within Groups	126.214	96	0.723	—
Total	129.060	100	—	—

The One-Way ANOVA results show an **F-value of 0.721** with **3 degrees of freedom** and a **p-value of 0.541**. Since the p-value is greater than **0.05**, the null hypothesis is **not rejected**. This indicates that there is **no statistically significant difference in overall client satisfaction among the different age groups** in the sample.

8.5 Discussion

The One-Way ANOVA was conducted to examine whether **overall client satisfaction differs significantly across different age groups**. The analysis compares the satisfaction levels of respondents belonging to different age categories and helps determine whether age is an important factor influencing their perception of the organization's logistics services. The results provide an understanding of whether clients from different age groups have varying expectations and experiences regarding transportation, delivery, service quality, tracking facilities, and other logistics-related activities.

The obtained **F-value of 0.721** with **3 degrees of freedom** and a **p-value of 0.541** indicates that the differences in satisfaction levels among the age groups are not statistically significant. Since the p-value is greater than the **0.05 significance level**, the null hypothesis is not rejected. This means that the observed differences in the average satisfaction levels between the age groups are not large enough to be considered statistically meaningful. Therefore, the satisfaction levels of clients remain relatively similar across the different age categories.

The findings suggest that **age does not have a significant influence on overall client satisfaction** in the organization. Clients from different age groups appear to have broadly similar perceptions of the logistics services provided by the organization. This indicates that factors such as timely delivery, service quality, transportation efficiency, order accuracy, tracking and communication, and complaint handling may be more important in determining satisfaction than the age of the client. Hence, the organization can focus on maintaining consistent and reliable logistics service quality across all customer groups to improve overall client satisfaction.

IX. FINDINGS

- The study found that **logistics management practices play an important role in improving the overall operational efficiency** of the organization.
- **Transportation management** was identified as a major factor influencing the timely movement and delivery of goods.
- The study found that **effective inventory management** helps maintain appropriate stock levels and reduce unnecessary inventory-related problems.
- **Warehousing and material handling practices** contribute to the smooth storage, movement, and distribution of goods.



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- **Timely delivery** was found to be an important factor influencing overall client satisfaction with logistics services.
- The study indicates that **technology and tracking systems** improve the visibility and monitoring of logistics activities.
- **Service quality and order accuracy** were found to have a positive relationship with overall client satisfaction.
- The correlation analysis showed that **delivery timeliness has a strong positive relationship with overall client satisfaction**.
- The Chi-square analysis found that **gender does not have a statistically significant association with overall client satisfaction**.
- The One-Way ANOVA revealed that **age group does not have a statistically significant influence on overall client satisfaction**, indicating that satisfaction levels are relatively similar across different age groups.

X. SUGGESTIONS

- **Improve transportation planning** by selecting efficient routes, optimizing vehicle utilization, and reducing unnecessary travel time.
- **Strengthen inventory control** by maintaining optimum stock levels and regularly monitoring inventory to avoid shortages and excess stock.
- **Improve warehouse management** through proper storage arrangements, systematic material handling, and efficient order-picking procedures.
- **Enhance timely delivery** by closely monitoring delivery schedules and taking immediate action when delays are identified.
- **Increase the use of technology** such as GPS tracking, automated inventory systems, and digital order-management tools to improve logistics visibility.
- **Improve communication with clients** by providing timely updates regarding order status, delivery schedules, and possible delays.
- **Strengthen complaint handling** by responding quickly to customer complaints and maintaining an effective system for resolving service issues.
- **Control logistics costs** through better route planning, fuel management, resource utilization, and regular monitoring of operational expenses.
- **Provide regular training to employees** to improve their skills in transportation, inventory handling, warehouse operations, technology usage, and customer service.
- **Continuously monitor logistics performance** using key performance indicators such as delivery time, transportation cost, order accuracy, inventory efficiency, and customer satisfaction.

XI. LIMITATIONS OF THE STUDY

- The study is limited to a **specific organization**, so the findings may not be applicable to all organizations or industries.
- The study is based on a **sample of 100 respondents**, which may not fully represent the views of the entire population.
- **Convenience sampling** was used, which may result in some degree of sampling bias.
- The study depends mainly on the **information provided by respondents**, and some responses may be influenced by personal opinions or experiences.
- The availability of **time and resources** limited the scope of data collection and analysis.
- The study focuses mainly on major logistics activities such as **transportation, inventory, warehousing, delivery, and customer satisfaction**.
- Changes in **market conditions, transportation costs, technology, and customer expectations** may affect logistics performance over time.
- The study relies on the **accuracy and completeness of the data** provided by respondents and available organizational sources.
- The study uses selected statistical tools, and therefore **other analytical methods may provide additional insights**.
- The findings represent the situation during the **period of the study** and may change as the organization modifies its logistics practices.



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XII. CONCLUSION

The study on “A Study on the Effectiveness of Logistics Management Practices in the Organization” highlights the important role of efficient logistics management in improving the overall performance of an organization. The study examined major logistics activities such as transportation, inventory management, warehousing, order processing, delivery, technology utilization, cost control, and customer satisfaction. The findings indicate that effective coordination of these activities helps the organization ensure timely delivery, reduce operational costs, utilize resources efficiently, and maintain better service quality.

The study also found that **timely delivery, service quality, transportation efficiency, order accuracy, tracking and communication, and complaint handling** are important factors influencing overall client satisfaction. The correlation analysis showed a positive relationship between service constructs and overall client satisfaction, particularly with delivery timeliness. This indicates that improving the quality and reliability of logistics services can contribute significantly to better customer experiences and stronger organizational performance.

The statistical analysis further revealed that **gender does not have a significant association with overall client satisfaction**, while **age group also does not significantly influence client satisfaction**. This suggests that the organization should focus on improving the overall quality and consistency of its logistics services rather than targeting satisfaction based on demographic factors. Overall, the study concludes that strengthening transportation and warehouse operations, improving inventory control, adopting suitable technology, reducing logistics costs, and continuously monitoring service performance can enhance the effectiveness of logistics management and contribute to **higher client satisfaction and sustainable organizational growth**.

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