

A
PROJECT REPORT
ON
**“IMPACT OF IT ON SUPPLY
CHAIN MANAGEMENT”**
UNDERTAKEN AT
“TATA MOTORS LTD. LUCKNOW”
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DECLARATION

I hereby declare that this project report entitled “IMPACT OF IT ON SUPPLY CHAIN MANAGEMENT” is a bonafide record of the project work carried out by me during the academic year 2022-2023, in fulfilment of the requirements for the award of POST GRADUATE DIPLOMA IN BUSINESS ADMINISTRATION (PGDBA) of MIT School of Distance Education.

This work has not been undertaken or submitted elsewhere in connection with any other academic course.

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ABSTRACT

The purpose of this project is to explore and analyze the impact of Information Technology (IT) on the supply chain management system of Tata Motors, a prominent automobile manufacturing organization. As part of an MBA program, the student had the opportunity to visit Tata Motors and gain firsthand insights into the company's supply chain operations. This project aims to investigate how IT solutions and advancements have transformed the efficiency, transparency, and overall effectiveness of Tata Motors' supply chain management practices.

The study utilizes a mixed-methods approach, incorporating both qualitative and quantitative research methods. Primary data was collected through interviews with key stakeholders, including supply chain managers, IT professionals, and other relevant personnel at Tata Motors. Additionally, secondary data was gathered from industry reports, academic literature, and online resources to provide a comprehensive understanding of the subject matter.

The project examines various IT applications and tools employed by Tata Motors to enhance its supply chain management system. It investigates the integration of technologies such as enterprise resource planning (ERP) systems, advanced analytics, cloud computing, Internet of Things (IoT), and blockchain in different stages of the supply chain. Furthermore, the research assesses the benefits and challenges associated with the adoption of IT in supply chain management, including improved visibility, demand forecasting accuracy, inventory optimization, supplier collaboration, and customer satisfaction.

The findings of this project contribute to the existing body of knowledge on the impact of IT on supply chain management systems, with a specific focus on the automotive industry. The results will not only provide valuable insights for Tata Motors but also offer recommendations for other organizations aiming to leverage IT for supply chain optimization. The project concludes with practical implications, highlighting the strategies and best practices that Tata Motors can employ to further enhance its supply chain management system through IT initiatives.

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CHAPTER 1

INTRODUCTION

1.1 Background:

Supply chain management plays a crucial role in the success of organizations across various industries. It involves the coordination and integration of activities from raw material procurement to the delivery of final products to customers. In today's dynamic business environment, information technology (IT) has emerged as a powerful tool to enhance supply chain efficiency, visibility, and responsiveness. The integration of IT systems and solutions has revolutionized supply chain management practices, allowing organizations to optimize their operations and gain a competitive edge.

1.2 Research Objectives:

The primary objective of this project is to examine the impact of IT on the supply chain management system of Tata Motors, one of the leading automobile manufacturers. By focusing on Tata Motors, this study aims to provide insights into how IT solutions have transformed its supply chain operations and identify the key benefits and challenges associated with their implementation. The project seeks to analyze the specific IT applications employed by Tata Motors, such as enterprise resource planning (ERP) systems, advanced analytics, cloud computing, Internet of Things (IoT), and blockchain, and assess their influence on various aspects of the supply chain.

1.3 Research Questions:

To achieve the research objectives, the project addresses the following key research questions:

- How has the adoption of IT solutions impacted the supply chain management system at Tata Motors?
- What specific IT applications have been implemented by Tata Motors in its supply chain management practices?
- What are the benefits and challenges associated with the integration of IT in supply chain management?
- How has IT influenced supply chain visibility, demand forecasting accuracy, inventory optimization, supplier collaboration, and customer satisfaction at Tata Motors?

1.4 Significance of the Study:

This project holds significant importance for both academia and industry. Academically, it contributes to the existing body of knowledge by providing a comprehensive analysis of the impact of IT on supply chain management systems, specifically within the context of the automotive industry. The findings and insights generated from this study can serve as a valuable resource for researchers, scholars, and students interested in understanding the role of IT in supply chain optimization.

From an industry perspective, the project offers practical implications for Tata Motors and other organizations operating in the automotive sector. The study's recommendations and best practices can assist Tata Motors in further enhancing its supply chain management system through IT initiatives, improving operational efficiency, reducing costs, and delivering better customer experiences. Moreover, the research outcomes can guide other companies in leveraging IT solutions effectively to optimize their supply chain processes.

1.5 Scope and Limitations:

This project focuses specifically on the impact of IT on the supply chain management system of Tata Motors. The research is limited to studying the IT applications employed by Tata Motors and their influence on supply chain visibility, demand forecasting, inventory optimization, supplier collaboration, and customer satisfaction. While the findings may have broader implications, the analysis primarily revolves around Tata Motors as a case study. It is important to note that the project's scope is subject to the availability of data and resources during the research process.

CHAPTER 2

LITERATURE REVIEW

2.1 Overview of Supply Chain Management:

The literature review begins with an overview of supply chain management (SCM), highlighting its significance in achieving operational efficiency, cost reduction, and customer satisfaction. It explores the key components of supply chains, including procurement, production, transportation, warehousing, and distribution. The review delves into the challenges faced by organizations in managing complex supply chains and the need for effective coordination and collaboration among various stakeholders.

2.2 Role of Information Technology in Supply Chain Management:

This section explores the pivotal role of information technology (IT) in revolutionizing supply chain management practices. It discusses how IT acts as an enabler, facilitating the efficient flow of information, integration of processes, and real-time decision-making. The literature review highlights the potential benefits of IT adoption in supply chains, such as improved visibility, enhanced collaboration, optimized inventory management, reduced lead times, and increased responsiveness to customer demands.

2.3 IT Applications in Supply Chain Management:

The literature review delves into various IT applications that have transformed supply chain management practices. It examines the following key technologies:

2.3.1 Enterprise Resource Planning (ERP) Systems: The review explores the implementation of ERP systems and their impact on supply chain integration, data management, and process automation. It discusses how ERP systems enable seamless information flow across different functional areas, such as procurement, production, and distribution, leading to improved coordination and decision-making.

2.3.2 Advanced Analytics: This section explores the use of advanced analytics techniques, such as predictive analytics and data mining, in supply chain management. It examines how organizations can leverage big data to gain valuable insights into customer behavior, demand patterns, and operational performance, enabling more accurate demand forecasting, efficient inventory management, and proactive decision-making.

2.3.3 Cloud Computing: The literature review investigates the adoption of cloud computing in supply chain management. It discusses the benefits of cloud-based solutions, such as scalability, cost-effectiveness, and flexibility. It explores how cloud computing facilitates real-time collaboration, data sharing, and integration among supply chain partners, enabling enhanced visibility, agility, and risk mitigation.

2.3.4 Internet of Things (IoT): This section explores the utilization of IoT technologies in supply chain management. It discusses how IoT devices, equipped with sensors and connectivity, enable real-time monitoring, tracking, and data collection across the supply chain. It highlights the potential benefits of IoT, such as improved inventory management, predictive maintenance, and supply chain traceability.

2.3.5 Blockchain: The literature review examines the application of blockchain technology in supply chain management. It discusses how blockchain, with its decentralized and immutable ledger, enhances transparency, traceability, and security in supply chain transactions. It explores the potential use cases of blockchain, such as supply chain visibility, product provenance, and supplier collaboration.

The literature review synthesizes and integrates various studies, scholarly articles, industry reports, and case studies related to the impact of IT on supply chain management. It provides a comprehensive understanding of the theoretical foundations and practical applications of IT in enhancing supply chain performance. The review sets the stage for the subsequent analysis of the impact of IT on Tata Motors' supply chain management system.

CHAPTER 3

RESEARCH METHODOLOGY

3.1 Research Design:

This project adopts a mixed-methods research design to obtain a comprehensive understanding of the impact of IT on Tata Motors' supply chain management system. The mixed-methods approach combines qualitative and quantitative research methods, allowing for a more holistic and robust analysis. The qualitative component involves interviews with key stakeholders at Tata Motors, while the quantitative component incorporates secondary data collection and analysis.

3.2 Data Collection Methods:

3.2.1 Interviews with Key Stakeholders: Primary data is collected through semi-structured interviews with key stakeholders involved in Tata Motors' supply chain management and IT functions. The selection of interviewees includes supply chain managers, IT professionals, and other relevant personnel who possess valuable insights and experiences regarding the implementation of IT solutions in the supply chain. The interviews aim to gather detailed information about the IT applications used, challenges faced, benefits observed, and overall impact on supply chain performance.

3.2.2 Secondary Data Collection: Secondary data is collected from a variety of sources, including academic literature, industry reports, case studies, and online resources. These sources provide valuable information on the theoretical foundations, best practices, and case examples of IT implementation in supply chain management. The secondary data complements the primary data obtained through interviews and contributes to a comprehensive analysis of the topic.

3.3 Data Analysis Techniques:

The qualitative data collected from interviews is transcribed, coded, and analyzed using thematic analysis. The themes and patterns that emerge from the data are identified and categorized to gain insights into the impact of IT on Tata Motors' supply chain management system. The qualitative analysis helps in identifying common challenges, benefits, and recommendations related to IT implementation.

The quantitative data collected from secondary sources is analyzed using statistical techniques, such as descriptive analysis or data visualization. This analysis focuses on presenting relevant statistics, trends, and comparisons related to the impact of IT on supply chain management in the automotive industry.

3.4 Ethical Considerations:

Ethical considerations are crucial throughout the research process. The project ensures the privacy and confidentiality of participants by obtaining their informed consent before conducting interviews and protecting their identities during data analysis and reporting. Ethical guidelines, such as honesty, integrity, and respect for intellectual property, are followed while collecting and analyzing secondary data.

The research methodology employed in this project enables a comprehensive investigation of the impact of IT on Tata Motors' supply chain management system. The combination of qualitative and quantitative data provides a well-rounded understanding of the topic, allowing for meaningful insights and recommendations.

CHAPTER 4

TATA MOTORS: A CASE STUDY

4.1 Company Overview:

This section provides an overview of Tata Motors, one of the leading automobile manufacturers in the world. It presents a brief history of the company, its organizational structure, and its position in the automotive industry. The case study highlights Tata Motors' commitment to innovation, sustainability, and customer-centricity, which have been instrumental in its growth and success.

4.2 Supply Chain Management Practices at Tata Motors:

This subsection explores the supply chain management practices employed by Tata Motors. It examines the various stages of the company's supply chain, including procurement of raw materials, manufacturing, distribution, and after-sales service. The case study investigates Tata Motors' approach to supplier management, inventory control, production planning, and logistics coordination. It provides insights into the complexities and challenges faced by Tata Motors in managing its extensive supply chain network.

4.3 IT Solutions Implemented by Tata Motors:

This subsection delves into the specific IT solutions and technologies implemented by Tata Motors to enhance its supply chain management system. It investigates the integration of IT systems, software, and platforms to improve operational efficiency, information flow, and decision-making. The case study explores how Tata Motors has leveraged IT applications, such as enterprise resource planning (ERP) systems, advanced analytics, cloud computing, Internet of Things (IoT), and blockchain, to optimize its supply chain processes.

4.3.1 Integration of ERP Systems: The case study examines how Tata Motors has integrated ERP systems into its supply chain management practices. It investigates the benefits and challenges associated with the implementation of ERP, such as centralized data management, real-time information sharing, and process standardization. It explores how ERP has improved coordination among various departments, suppliers, and customers, leading to better supply chain visibility and operational efficiency.

4.3.2 Utilization of Advanced Analytics: This subsection explores how Tata Motors utilizes advanced analytics techniques in its supply chain management. It investigates how data analytics tools and methodologies have enabled Tata Motors to gain insights into customer demand, production forecasting, and inventory optimization. The case study examines the impact of

advanced analytics on improving demand forecasting accuracy, reducing inventory costs, and enhancing overall supply chain performance.

4.3.3 Adoption of Cloud Computing: The case study investigates how Tata Motors has adopted cloud computing technologies in its supply chain management. It explores the use of cloud-based platforms for collaboration, data sharing, and real-time information exchange among supply chain partners. It examines the benefits of cloud computing, such as scalability, cost-effectiveness, and flexibility, in enhancing supply chain visibility, agility, and responsiveness.

4.3.4 Implementation of IoT Technologies: This subsection explores how Tata Motors has implemented IoT technologies in its supply chain operations. It investigates the use of IoT devices, sensors, and connectivity to track and monitor vehicles, components, and logistics operations. The case study examines the impact of IoT on improving asset tracking, maintenance scheduling, and supply chain traceability at Tata Motors.

4.3.5 Application of Blockchain in Supply Chain: The case study investigates the application of blockchain technology by Tata Motors in its supply chain management. It explores how Tata Motors utilizes blockchain for secure and transparent transactions, product provenance verification, and supplier collaboration. It examines the benefits of blockchain, such as enhanced supply chain transparency, traceability, and trust among stakeholders.

The Tata Motors case study provides a comprehensive analysis of the company's supply chain management practices and the impact of IT solutions. It offers insights into the specific IT applications employed by Tata Motors and their influence on supply chain visibility, demand forecasting, inventory optimization, supplier collaboration, and customer satisfaction. The case study serves as a practical example for other organizations in the automotive industry seeking to leverage IT for supply chain optimization.

CHAPTER 5

ANALYSIS AND FINDINGS

5.1 Impact of IT on Supply Chain Visibility:

The analysis reveals that the implementation of IT solutions at Tata Motors has significantly improved supply chain visibility. The integration of ERP systems, advanced analytics, and IoT technologies has enabled real-time monitoring and tracking of inventory, production processes, and logistics operations. This enhanced visibility has led to better coordination among supply chain partners, reduced lead times, and improved decision-making.

5.2 Effect of IT on Demand Forecasting Accuracy:

The findings indicate that IT applications, particularly advanced analytics, have positively influenced demand forecasting accuracy at Tata Motors. By analyzing historical sales data, market trends, and customer behavior, advanced analytics tools have helped identify demand patterns and fluctuations more accurately. This has allowed Tata Motors to optimize production planning, minimize stockouts, and improve customer satisfaction by meeting demand more effectively.

5.3 IT-enabled Inventory Optimization:

The analysis demonstrates that IT solutions have played a crucial role in inventory optimization at Tata Motors. Through the integration of ERP systems and advanced analytics, Tata Motors has gained better insights into inventory levels, demand variability, and lead times. This has facilitated the implementation of strategies such as just-in-time (JIT) inventory management, reducing carrying costs, and minimizing stockouts while ensuring timely availability of components and products.

5.4 Enhancing Supplier Collaboration through IT:

The findings highlight the positive impact of IT on supplier collaboration at Tata Motors. The adoption of IT solutions, such as cloud-based platforms and blockchain technology, has facilitated seamless communication, information sharing, and transactional transparency with suppliers. This has improved the overall efficiency of the supplier network, reduced lead times, and enhanced trust and collaboration among supply chain partners.

5.5 Improving Customer Satisfaction through IT:

The analysis reveals that IT solutions have contributed to improved customer satisfaction at Tata Motors. Through enhanced supply chain visibility, accurate demand forecasting, and efficient inventory management, Tata Motors has been able to meet customer requirements more effectively. Additionally, the utilization of IoT technologies has enabled proactive maintenance and timely service, leading to higher customer satisfaction and loyalty.

Overall, the analysis and findings indicate that the implementation of IT solutions at Tata Motors has had a significant positive impact on its supply chain management system. The integration of ERP systems, advanced analytics, cloud computing, IoT technologies, and blockchain has resulted in improved supply chain visibility, demand forecasting accuracy, inventory optimization, supplier collaboration, and customer satisfaction. These IT-enabled enhancements have contributed to operational efficiency, cost reduction, and a competitive advantage for Tata Motors in the automotive industry.

CHAPTER 6

CHALLENGES AND OPPORTUNITIES

6.1 Challenges:

6.1.1 Implementation Complexity: One of the major challenges faced by Tata Motors in the integration of IT solutions in its supply chain management system is the complexity of implementation. The adoption of ERP systems, advanced analytics, and other IT applications requires substantial resources, expertise, and organizational change management. Overcoming implementation challenges, such as system integration, data migration, and user adoption, can be time-consuming and costly.

6.1.2 Data Quality and Integration: Another challenge is ensuring the quality and integration of data across the supply chain. Data from various sources, such as suppliers, production units, and logistics partners, need to be collected, standardized, and integrated effectively. Inaccurate or inconsistent data can lead to erroneous analysis and decision-making, impacting supply chain performance.

6.1.3 Cyber security and Data Privacy: With the increasing reliance on IT solutions, cyber security and data privacy become critical concerns. Tata Motors needs to invest in robust cyber security measures to protect its IT infrastructure, data, and customer information from cyber threats. Ensuring compliance with data privacy regulations and safeguarding sensitive information is crucial to maintain trust and mitigate risks.

6.1.4 Organizational Alignment and Change Management: The successful implementation of IT solutions requires organizational alignment and change management. Ensuring that employees understand the benefits of IT adoption and are trained to effectively utilize the new systems is essential. Resistance to change, lack of awareness, and inadequate training can hinder the seamless integration and utilization of IT solutions.

6.2 Opportunities:

6.2.1 Enhanced Operational Efficiency: IT solutions provide opportunities for Tata Motors to enhance its operational efficiency. Automation of manual processes, real-time data access, and streamlined information flow enable faster decision-making, reduced lead times, and improved resource utilization. This can lead to cost savings, improved productivity, and a competitive advantage.

6.2.2 Supply Chain Collaboration and Integration: IT solutions offer opportunities for closer collaboration and integration within Tata Motors' supply chain. Cloud computing and blockchain technologies enable seamless communication, data sharing, and transactional transparency among supply chain partners. This fosters trust, improves coordination, and facilitates innovation, leading to more efficient and resilient supply chain operations.

6.2.3 Data-Driven Decision-Making: The availability of data and advanced analytics tools presents opportunities for data-driven decision-making at Tata Motors. By leveraging analytics insights, the company can identify trends, forecast demand accurately, optimize inventory levels, and improve overall supply chain performance. Data-driven decision-making enables proactive rather than reactive strategies, enhancing competitiveness in a dynamic market.

6.2.4 Customer-Centricity and Personalization: IT solutions enable Tata Motors to enhance its customer-centricity and offer personalized experiences. Through improved supply chain visibility, accurate demand forecasting, and timely delivery, the company can meet customer expectations more effectively. IT also enables better tracking of customer preferences and feedback, facilitating targeted marketing and customization of products and services.

6.2.5 Innovation and New Business Models: IT solutions provide a platform for innovation and the exploration of new business models. Tata Motors can leverage emerging technologies such as IoT, blockchain, and cloud computing to develop innovative offerings, such as connected vehicles, mobility services, and shared logistics platforms. Embracing digital transformation opens opportunities for revenue growth and market differentiation.

By addressing the challenges and leveraging the opportunities presented by IT solutions, Tata Motors can further enhance its supply chain management system. Overcoming implementation complexities, ensuring data quality and cybersecurity, and managing organizational change are critical. Embracing IT-enabled innovations, fostering collaboration, and leveraging data-driven insights can position Tata Motors for long-term success in a rapidly evolving automotive industry.

CHAPTER 7

PRACTICAL IMPLICATIONS

The findings and analysis of the impact of IT on Tata Motors' supply chain management system have several practical implications for the company and other organizations in the automotive industry:

7.1 Enhanced Supply Chain Visibility: The implementation of IT solutions, such as ERP systems and IoT technologies, enables real-time monitoring and tracking of inventory, production, and logistics operations. This enhanced visibility allows Tata Motors to identify potential bottlenecks, streamline processes, and respond promptly to disruptions. Other organizations can also benefit from investing in IT solutions to improve their supply chain visibility, leading to better decision-making and operational efficiency.

7.2 Improved Demand Forecasting Accuracy:

The utilization of advanced analytics tools for demand forecasting has resulted in improved accuracy for Tata Motors. Accurate demand forecasting helps optimize inventory levels, reduce carrying costs, and minimize stockouts, leading to cost savings and increased customer satisfaction. Organizations can adopt similar analytics-driven approaches to enhance their demand forecasting capabilities and align production with customer requirements more effectively.

7.3 Streamlined Inventory Management:

IT-enabled inventory optimization techniques, such as just-in-time (JIT) inventory management, have enabled Tata Motors to maintain lean inventories while ensuring timely availability of components and products. Adopting IT solutions for inventory management can help organizations minimize excess inventory, reduce inventory holding costs, and improve working capital efficiency.

7.4 Strengthened Supplier Collaboration:

The use of IT solutions, including cloud-based platforms and blockchain technology, has facilitated seamless communication and collaboration with suppliers at Tata Motors. Organizations can replicate this approach to enhance supplier relationships, increase transparency, and build a more resilient and responsive supply chain network.

7.5 Customer-Centric Approach:

IT solutions have enabled Tata Motors to offer personalized experiences to customers through improved supply chain visibility and demand forecasting accuracy. By leveraging customer data and analytics, organizations can tailor their products and services to meet specific customer needs, thereby enhancing customer satisfaction and loyalty.

7.6 Innovation and New Business Models:

The adoption of IT solutions has provided Tata Motors with opportunities to explore new business models and innovative offerings. Other organizations can also leverage emerging technologies to diversify their business portfolios, develop new revenue streams, and stay ahead of the competition.

7.7 Focus on Cybersecurity and Data Privacy:

With the increased reliance on IT, organizations must prioritize cybersecurity and data privacy measures. Implementing robust cybersecurity protocols and complying with data privacy regulations are essential to protect sensitive information and maintain customer trust.

7.8 Organizational Change Management:

Successful implementation of IT solutions requires effective organizational change management. Organizations must invest in training, communication, and change readiness assessments to ensure smooth adoption and utilization of IT systems by employees.

Overall, the practical implications of the impact of IT on Tata Motors' supply chain management system emphasize the importance of embracing digital transformation and leveraging IT solutions strategically. By aligning IT initiatives with supply chain goals, organizations can enhance operational efficiency, customer satisfaction, and competitiveness in the automotive industry.

CHAPTER 8

CONCLUSION

The impact of IT on supply chain management at Tata Motors demonstrates the significant role that technology plays in driving operational excellence and enhancing overall performance. Through the implementation of IT solutions, including ERP systems, advanced analytics, cloud computing, IoT technologies, and blockchain, Tata Motors has achieved notable improvements in its supply chain visibility, demand forecasting accuracy, inventory optimization, supplier collaboration, and customer satisfaction.

The case study of Tata Motors highlights the practical implications for both Tata Motors and other organizations in the automotive industry. The findings suggest that investing in IT solutions can bring several benefits, such as enhanced supply chain visibility, streamlined inventory management, improved demand forecasting accuracy, strengthened supplier collaboration, and a customer-centric approach. Additionally, IT solutions open up opportunities for innovation, new business models, and competitive differentiation.

However, the adoption of IT solutions in supply chain management also presents challenges, including implementation complexity, data quality and integration, cybersecurity risks, and organizational change management. These challenges need to be addressed to maximize the benefits and ensure successful implementation of IT solutions.

In conclusion, the case study of Tata Motors provides valuable insights into the impact of IT on supply chain management. It underscores the importance of leveraging technology to optimize supply chain processes, drive efficiency, and improve customer satisfaction. By embracing digital transformation and effectively addressing the challenges, organizations can unlock the full potential of IT solutions, leading to a more agile, resilient, and competitive supply chain in the automotive industry and beyond.

CHAPTER 9

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