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"A CRITICAL EXAMINATION OF SUPPLY CHAIN MANAGEMENT PROCESSES WITH REGARD TO COMPETITIVENESS AND BENEFITS IN ORGANIZATIONAL PERFORMANCE IN THIRD PARTY LOGISTICS"

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ABSTRACT:- Logistics has now been referred to as the final frontier, and the advancement of logistics technology continues to be the key place for new revenues and the preservation of strategic advantage for businesses today, even in the twenty-first century. There have also been a number of cases in which the distribution network has been the source of delays in the overall administration of the company. "Because of the removal of these obstacles, the possibility for lowering overall costs while simultaneously enhancing the service quality offered to clients may be boosted significantly. Additionally, from a social aspect, an effective logistics system may provide opportunities to minimize congestion problems and environmental degradation, which may result in an improvement in macroeconomic productivity on a macroeconomic level.

Keywords:- Logistics, management etc.

In order to enhance the logistics operations, a number of improvements have been made. These innovations may be divided into two categories: those that enhance specific logistical processes and those that enhance the logistics operations as a whole. Specific logistics procedures are described as follows: The former includes cutting-edge hardware, including such new container terminals with effective trans - shipment capabilities, as well as cutting-edge software, like as truck route planning with ITS (Intelligent Transport System) and GPS. The latter contains new intermodal terminals with effective transshipment capabilities. Piecemeal ideas can only be expanded to their full potential if they are used to the improvement of constraints in the production process.

Although it is possible that a single bottleneck exists in a company's business operations, this is very rare. Instead, they feature a large number of possible obstacles, such that removing one bottleneck almost always results in the emergence of another. As a result, we must regulate the business operations as a network, and we

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must make innovations in system administration. Supply Chain Management (SCM) and Third Party Logistics

(TPL) are two examples of developments that have captured the public's attention in recent years (3PL).

The concepts of logistics and supply chain management are not new. As from construction of the pyramids to

the alleviation of poverty in Africa, these fundamentals driving the smooth distribution of information and

resources to suit the needs of consumers have remained largely unchanged throughout history.

Transportation and distribution logistics (TLD) are basically planning orientations and frameworks that strive

to develop an unified plan for the movement of items and information across an organization. Based on this

concept, supply chain management attempts to develop connection and synchronization between the operations

of other organizations in the flow, such as providers and buyers, as well as the processes of the organization

itself, in order to maximize efficiency. As an instance, one aim of scm would be to decrease the buffering of

inventories that exist among organizations in a chain by exchanging information about demands and existing

stock levels with the other organizations.

SUPPLY CHAIN MANAGEMENT: ACTIVITIES AND PROCESSES

Integrated supply chain management (SCM) consists of a variety of operations which might or might not be

associated with one another, with the most important aspects being:

a) Planning: A important segment for managing utilization of resources in order to fulfill client expectations

for their items & services is represented by this segment.

b) Information: For successful SCM, which is handled by networks and computers, it is essential to have

detailed knowledge about all of the elements.

c) Source: Choosing the most qualified suppliers to provide raw materials for the item's manufacture. It

necessitates the establishment of a standard pricing and distribution mechanism across the supply chain.

d) Production: In the industrial sector, the supply chain manager will be responsible for scheduling the

actions required to manufacture, test, packaging, and mark the final product. It is by far the most significant

part of the supply-chain system.

e) Delivery: The supply chain management refers to this portion of the process as logistics, and it begins with

the receiving of requests from the client and continues on from there. As part of its operations, it has a chain of

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warehousing for keeping the goods, selects carriers to transport the goods to consumers, and has a mechanism for taking payments.

f) Return of goods: In this key system component, a dynamic and accountable network is established to accept returns of excess or faulty items provided to clients while also offering assistance services to individuals who have difficulties in using the product.

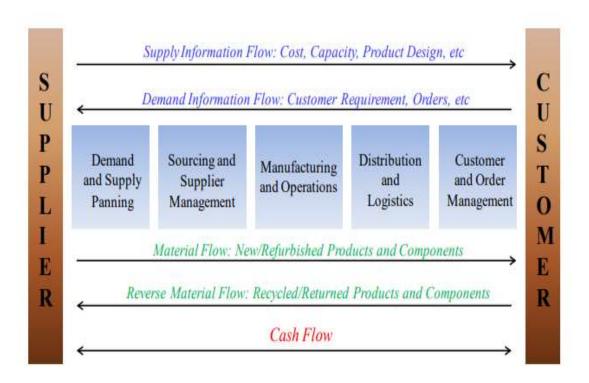


Figure 1.1: Supply Chain Process

SCM has several processes. These include:

- a) Customer Relationship Management: It organizes, monitors, and evaluates customer engagement and information with the goal of establishing long-term relationships.
- **b)** Customer Service Management: In the administration of company's product contracts, it is useful.

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c) Supplier Relationship Management: It helps in establishing and maintaining positive relationships with vendors and providers. The capabilities of the provider in terms of quality, dependability, creativity, solutions

and reducing costs is given top attention when choosing suppliers.

d) Manufacturing Flow Management: It includes operations linked with the transportation of goods within

and outside of plants, which helps to ensure that the production process is as flexible as possible.

e) Demand Management: A complete framework is offered in order to understand the demands of the

consumer.

f) Order Fulfilment: It includes all of the tasks that are involved in identifying client demands, managing the

supply chain, and fulfilling orders.

g) Product Development and Commercialization's platform for the development and introduction of new

items into the industry is offered.

h) Returns Management: Among the responsibilities are functions linked with exchanges, reverse supply,

and so forth. It is an absolutely necessary component of the SCM process.

APPLICATION OF SUPPLY CHAIN MANAGEMENT TOOLS: AREAS

A supply chain management is a key component for the timely creation of products as well as to assure the

customer that their needs are being met efficiently and effectively. To enhance the efficacy of a distribution

chain and lower the cost of ownership, it is critical to concentrate on what and where certain tools might be

implemented. In distribution networks, the assessment, management, and optimization of processes are all

important company activities that necessitate the establishment of a system that allows for the understanding

and knowledge as well as for the determination, analysis, and tracking of the effectiveness of that data.

SCM tools aid in the improvement of the efficiency of logistical operations. Stock planning and monitoring,

systems engineering, and procedure expenses are the three most important components of supply chain

management that may be computerized. All of these things may help you save time by automating operational

operations and increasing transparency and efficiency. Application for advanced planning and management,

also known as Advanced Planning and Scheduling (APS) Applications, is comprised of software tools for

generating production plans in response to demand forecasts, specifications, and a variety of other factors

linked to manufacturing. Companies that want to elevate their production processes to another level have found

that APS became a must. In the field of logistics and supply chain management, there are several tools,

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approaches, strategies, and systems to choose from. These are beneficial in the various areas of supply chain

management.

1) Shipping Status: Shipping status services are an easy method to keep check of all of your shipments in one

convenient location. Every person engaged in the transactions and of the circumstances receives real-time

updates from the networks innovations, which may allow them to prevent a problem from becoming a major

issue. It is also possible to set up alerts to be notified when a delivery has been finished or if the projected time

of arrival has altered, allowing for any required modifications to be made.

2) Order Processing:Order processing application is free, which makes operations simpler and more efficient

by providing order processing capacity. It provides all order processing capabilities, such as invoicing, sales

transaction processing, order administration, delivery times, and so on. It also enables the integration of third-

party systems. This shortens the amount of time required for the traditional operations associated with orders

that were manually created in the past.

3) Supplier Management: Businesses with complex supplier management operations might benefit from the

use of solutions that make supplier relationship management both simpler and more successful, while also

saving time and money. These may be used to monitor the benefits that suppliers are making to the existing

supply chain. This data is necessary to renegotiate agreements or replace suppliers, allowing for cost savings

without causing a disruption in the supply chain.

4) Managing Bids and Spending: It is possible to arrange and operate the full procure-to-pay process in an

effective manner. It also allows for a more in-depth examination of how much money has been spent what and

how long it takes to complete the operation. The ultimate objective is to optimize production planning by

reducing warehouse space requirements, inventory expenses, and the number of various methods for holding

surplus inventory in multiple locations.

5) Demand Forecasting: In order to conduct a successful lean inventory operations, one must be able to adapt

to the always market changes for items from customers and consumers. There are a variety of technologies

available that may not only give insight into historical patterns, but also produce forecasts for future

requirements. Supply chain software may assist in anticipating future customer demand by using historical

patterns and actual information.

6) Collaboration Portal Tools: Collaboration portal solutions make it easier to communicate about issues

affecting the supply chain. A variety of challenges, including delays, order problems, and many others, fall

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under this category. The use of portals will allow all parties involved to have accessibility such as production servers, order projections, technical specification, customer orders, shipping histories, and so on and so forth. Visibility in the distribution chain is made possible via cooperation portals.

7) Analytics and Reports Tools: Following the collection of information by supply chain technology, the use of reporting and analysis tools is the most efficient method of moving ahead. When it comes to running a successful supply chain, statistics is among the most critical technologies. The data generated is extensive, and it may provide information on every aspect of a company's operations, including inventory and shipping. Analytics, when used in combination with demand forecasts, may also be used to identify any mistakes or holes in the supply chain. In the world of analytics, reports are generated. Analytics may result in a variety of different sorts of reports that visually represent the information. Each report will describe how well the supply chain is doing in accordance with the main performance metrics that have been developed.

- 8) Security Tools: Supply chain executives are often preoccupied with the supply chain, but failing to prioritize safety might put your company's operations at risk. Data leak is a severe concern for organizations, since it has the ability to drive away suppliers and consumers while also harming the company's image. Anyone who has bought the product from the company is also at danger of having their credentials, credit cards, and other private information taken by the company. Through the use of SCMS security measures, the danger of data theft may be considerably reduced. Accessibility to their SCMS will be restricted by smart firms to ensure that staff only have access to the documents they require to perform their tasks. This reduces the possibility of data being mistakenly misused by someone else.
- 9) Compliance Tools:Consumers are becoming more interested in learning where their items are manufactured and how they have been manufactured. Because of this, suppliers are focused on ensuring that their requirements are in compliance with the regulations, government regulations, and customer expectations. Additionally, it allows for simple access to data in the case of an audit, which is beneficial in establishing compliance.

There are several methods available that each have an influence on the supply chain; nevertheless, it is ideal to use these tools in concert with each other to get the greatest results. Most of these products are intended to work in combination with other methods, so boosting the overall efficacy of the supply chain as a whole.

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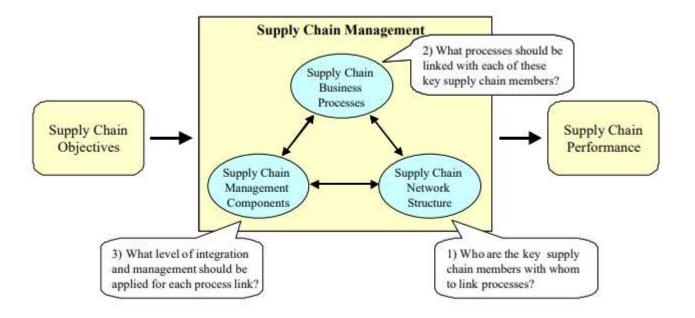


Figure 1.2: Key decisions in Supply Chain Management

SUPPLY CHAIN MANAGEMENT: CHALLENGES

The fact that proper utilization are a critical component of the economy does not preclude the development of novel supply chain systems and activities on a routine basis. In the distribution chain, the possibilities are improving, from global commodity sourcing to distribution, marketing, and fulfillment, and they are having an impact on all facets of logistics management. There are numerous obstacles to overcome, some of which are described below:

- Manufacturing: The supply chain begins with the production process and concludes with the delivery of the product to the customer's hands. The production department is in charge of coordinating production schedules, determining how long the manufacturing process of a product will take, and keeping track of the inventory of finished products. The production department is also in charge of coordinating the manufacturing process of a product. An inventory and material schedules are maintained by a materials analyst, who also ensures that materials are in sync with production schedules.
- Data analysis: Supply chain data implementation is carried out by a variety of professionals such as data analysts, data acquisition engineers, data managers, data administrators, statisticians, and other

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statisticians. The accurate comprehension and evaluation of this information aids in the effective operation of supply networks. In reality, research methodology and management are critical components of SCM since all operations involved in providing good customer service must be data-driven.

- **Procurement:** Procurement, which is largely concerned with finding and procuring the raw materials required to manufacture goods, is a critical component of the supply chain's ability to function. Among those working in procurement, there seems to be a broad variety of positions available, from procurement analysts who specialize in a single component of purchasing to management staff who supervise the buying choices for a whole organization.
- **Transportation:** The primary purpose of a distribution chain is to get items into the hands of the customers, and transportation makes it feasible to achieve this goal. A transportation expert or logistical analyst working under the supervision of a transportation supervisor is in charge of ensuring that items are transported safely and efficiently between factories and consumers.
- **Customer service:** Client service, which is always a critical component of every relationship between a company and a buyer, guarantees that consumers are happy with the things they get. There seem to be a variety of customer service positions available, ranging from accounts specialists at a logistics business, who works to arrange product shipments and answer customer complaints, to customer service representative, who is responsible for the overall happiness of a company's existing customers.
- When it comes to meet customer demands, creativity is enhancing the efficiency of a company's
 operations by changing the way inventories and transportation are managed. It is necessary to change
 risks into opportunities in order to achieve success. It might happen in the following ways:
- 1) Predictive Analytics and Machine-learning: Big data may be used to forecast the results of different supply chain situations, make suggestions, and handle supply risk, among other things.
- 2) Corporate Cards to Streamline Supply Chain Payments: These automated transactions improve the efficiency of supply chains by decreasing processing mistakes and removing the need for invoices. These are more efficient and secure than previous versions. These are becoming more widely accepted in modern times.
- 3) Strategies outside Current Boundaries: Numerous businesses are introducing advancements in the distribution chain by concentrating on the enhancements they can make to their existing relationships and procedures. They must create new arrangements inside their supply chain if they are to increase production and fulfill their predetermined targets.

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Strategic supply chain management (SCM) is an enhancement over conventional logistics management in that it assists in the timely delivery of items to clients. Moreover, it contributes significantly to the increase in corporate profits via the reduction of total expenses, which increases the company's competitiveness. The SCM process gives all of the primary tasks, such as buying, manufacturing, storage, shipping, and allocation, together under a single platform, in order to generate and disperse the goods in the desired volume and quality, at the appropriate time and location, thereby lowering overall costs and raising service levels. Logistics and supply chain management (SCM) are rapidly expanding business fields. Global corporations have made significant investments in supply chain management (SCM) in order to sustain competitive advantage. Even at a breakneck pace, information technology is now far ahead of the capabilities of the quality and supply industry to fully exploit new developments. The advancement of communication technologies has profoundly altered the way we conceive about the exchange and delivery of data. However, the majority of supply chain and logistics management is still focused on the dispersed models that emerged as a consequence of the advent of computers. There seems to be tremendous potential for the development of newer production and supply chain optimization technologies that is based on centralized scheduling and cooperation

Advantage and disadvantage of SCM

A well-designed SCM generates positive net value by generating benefits, lowering costs, and enhancing financial viability while also minimizing risk. When a supply chain is properly organized, the enterprises involved may fairly share profits, leading in what is referred to as a win-win partnership.

Lead-time compressing and flexible response for consumers are two examples of sources of advantages that lower overall cost (for example, inventory costs) from upstream to downstream while also improving service levels for consumers. Supply chain companies may become more competitive as a result of such enhancements. In order to create value, firms must concentrate their efforts on their core competencies while still maintaining flexibility and responsiveness in the face of changing market conditions.

Second, in respect to the integrated benefit, the cost may be decreased as well. Vertical integration of processes results in economies of scale and influence; for example, minimizing unnecessary expenditure in storage and decreasing inventory levels via information exchange are two examples of this.

It is necessary, however, to optimize such net value via SCM by forming a inter-firm alliance with a dependable partnership. In actuality, forming a dependable inter-firm alliance costs a significant trading costs and requires the fulfillment of three requirements. First and foremost, the length of the connection should be

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sufficient to foster a strong collaboration and sense of commitment. Secondly, the enterprises involved in the supply chain must be equipped with the appropriate capabilities and should be willing to share fair duties with one another (risk sharing). In addition, many pieces of information, including as orders, inventory, and client demand, among many other things, should be exchanged and processed correctly. In relation to the third criterion, current technological advancements may be capable of contributing to SCM.

CONCLUSION:- As a preliminary measure, the Versifier BTA test is presently being provided to specialists across Europe. In any case, because the item is perishable, it must be treated by a doctor within 72 hours, after which it can be refrigerated. In 1995, Singer began delivering the Poet BTA test on schedule to key European major sectors, including Spain, Italy, France, and Germany. The complete Nomad BTA test was sent out in 1996.

DHL can reliably make two gatherings from Versifier's Clacton-on-Ocean stockroom, as well as be "ready in the event that the need arises" for last-minute pick-ups. Artist now regularly ships over 100 products to another country via DHL. The ability to send documents promptly and track their status over the Internet is one of the benefits of using DHL. Troubadour, for example, recognises that a single air express conveyor can replace a swarm of disparate vendors. This revises association and provides more demanding command during the hour of transportation. It also lowers overall costs by lowering stock holdings."

Without a doubt, movement organisations are now commonplace throughout entire coordinated operations chains that serve the needs of collecting, retailing, and organising enterprises. The continual nature of shipment via air express companies like DHL has spurred a huge increase in demand for such key workspaces, with DHL currently being employed by the majority of the top companies in the FT's Main 100 Exporters.

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