THESIS REPORT

ON

SUPPLY CHAIN MANAGEMENT IN FMCG SECTOR OF MEGHNA GROUP OF INDUSTRY

Submitted by:

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ID-2001019009 Program: EMBA

Major: Supply Chain Management Semester: Spring 2021

Submitted to:

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Sonargaon University (SU)

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Letter of Transmittal

05, May'2021

Amir Husen Assistant Professor Department of Business Administration Sonargaon University (SU)

Subject: Submission of thesis report

Dear Sir

With humble honor and respect, I am submitting my thesis report on "Supply Chain Management in FMCG sector of the Meghna group of Industry (MGI)". As per partial accomplishment of the requirements for the EMBA degree, this thesis has been carried out under the supervision of you.

This report is an integral part of our academic courses in completion of the MSCM program which has given me the opportunity to have an insight into the **Supply Chain Management in FMCG Sector**. I hope this report reflects on the contemporary issues on the **EMBA** that are being practiced by organizations in our country.

In completing the report, I tried my best to blend all my knowledge and imparted every available detail and also attempted to avoid unnecessary amplification of the report. I humbly request you to accept this report for your kind evaluation.

Sincerely,

Md. Mehedi Hasan.

ID: EMBA-2001019009 Program: EMBA Major: Supply Chain Management Semester: Spring 2021

Letter of Authorization

Certified that this project report titled **"Supply Chain Management in FMCG sector of the Meghna group of Industry"** is the bona fide work of Md. Mehedi Hasan, who carried out the research under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

.....

Amir Husen Assistant Professor Department of Business Administration Sonargaon University (SU)

Acknowledgement

At first I would like to thanks almighty Allah for having me the opportunity to complete the project. I also want to thank all the people, who have given the support and assistance and extremely grateful to all of them for the completion of the report successfully.

I would like to thanks our honorable supervisor Amir Husen, Assistant Professor, Department of Business Administration, Sonargaon University (SU) for choosing the thesis report and giving me the opportunity to do a research and analysis. I would like to extend my thanks to our course teachers of EMBA for their supporting me with their inspiring personality.

I would also like to place my gratitude, Mohammad Loqueman. AGM (SCM) of Meghna Group of Industries, enable me to complete my internship in their esteemed organization.

During my preparation of the project work I have come to very supportive touch of different individuals (respondents from Meghna Group of Industries) & friends who lend their ideas, time & caring guidance to amplify the report's contents. I want to convey my heartiest gratitude to them for their valuable responses.

EXECUTIVE SUMMARY

Meghna Group of Industries (MGI) is a one of the largest Bangladeshi industrial conglomerates. Fast moving consumer goods (FMCG) division is one of the biggest portion revenue earner (2000 crore per year) of Meghna Group of Industries, which contributes to growth in national economy of Bangladesh. To bring efficiency and effectiveness MGI established supply chain management department in 2011. During that period supply chain management department only control distribution. From 2013 procurement, inventory, production, planning, distribution, depot management administer by supply chain management department, to minimize the cost and maximize the profit. To achieve its vision MGI gradually change their traditional system to upgrading system. Though it is quite difficult to adapt the new system among the employee, they should train them in where they are lack behind. In spite of lack behind in few areas, because of SCM they able to provide superior value to their customer. SCM department did tremendous performance during the unstable political situation. As an example, for the period of hartal, strike they use rail and cargo trailer to ensure smooth delivery process and instead of day they deliver product at night to the party end from depot in 2013. Throughout the Bangladesh they established 11 depots under SCM department and increase 67 % by value through increase sales order. In some cases if they able to adapt with the change in SCM, then MGI SCM will be the model for Bangladeshi FMCG Industry. Meghna Group has contributed almost 75 million US Dollars as Tax to the state exchequers in Fiscal year 2012-2013. As a result of this relentless process of expansion MGI has become a powerful player within Bangladesh and has become the largest investor in relation to industrial development in Bangladesh over the last few years. MGI became the first company in Bangladesh to establish a private economic zone known as the "Meghna Economic Zone", which has since been followed by the creation of two further economic zones, which are named "Meghna Industrial Economic Zone" and "Cumilla Economic Zone" respectively. The conglomerate has expanded even further since this point, with an unprecedented investment of \$451 million in 2020 that has erected nine new industrial units within its multiple economic zones.

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CHAPTER – 1 INTRODUCTION

1.1 Background of the Study

Supply Chain

Supply chain is activities in the organization process that focuses on the information, people, activates and resources to the customer and the suppliers. This focuses from the production process to the distribution of the finished products to the ultimate consumers. In the production process raw materials and others are converted into the finished products. It also creates value of the products and ensures greater sustainably. Council of Supply Chain management Professionals (CSCMP) says that "Supply Chain Management encompasses the planning and management of all activities involved in sourcing and procurement, conversion, and all logistics management activities."

Supply chain focuses on the effective coordination of the partners like intermediaries, suppliers, third patty service providers and others. It focuses on the effective demand and the supply chain management as well. It integrates the function of the business organization. It links up among different business activates. It focuses on the high-performance business model. It includes different activates in the logistics. It drives different coordination process of the business operation like finance, marketing, sales, design of the product, finance and information technology.

Supply Chain Management

Supply chain management focuses on the flow of the goods and the services of the products. It includes the storage of the raw and the finished products in the organization. It functions from the point of the production to the point of consumption. Interlinked channels and business are involved in the supply chain. It is defined as the planning execution, control and the monitoring of the supply chain. It helps the organization to develop the competitive infrastructure, worldwide logistics management, supply chain synchronization of the products. It helps to measure the performance of the business organization globally. Supply chain management focuses on the operation management, procurement, logistics and information technology and their effective coordination among these departments.

Functions

Supply chain management system is the combination of different activities like the movement of the raw materials and the processes that aims at production of the finished products of the organization. It manages the movement of the finished goods outside the organization. Business organizations try to bring out the core competencies of the organization. Through this it tries to become more flexible, reduce the storage of raw materials in the distribution. Activities of the supply chain management are done through the outsourcing firms those can perform better and, in the cost, effective way. Through this it tries to reduce the cost of the organization satisfying customer demand. In the supply chain management, there are different parties. This increases the trust among the supply chain partners, visibility of the inventory and the velocity of the inventory movement.

1.2 Origin of the report

As a mandatory requirement of the **EMBA** under Sonargaon University, this report entitled – "Supply Chain Management in FMCG Sector of **Meghna Group Of Industries**". My Honorable supervisor Amir Hossen, Assistant Professor, Department of supply chain management, assigned me the topic of the thesis paper & duly approved it. The report will definitely identify how the "**Supply Chain Management in FMCG sector**".

1.3 Rationale of the Study

Inventory management is a complex process, particularly for larger organizations, but the basics are essentially the same regardless of the organization's size or type. In inventory management, goods are delivered into the receiving area of a warehouse in the form of raw materials, accessories or components and are put into stock areas or shelves. Compared to larger organizations with more physical space, in smaller companies, the goods may go directly to the stock area instead of a receiving location, and if the business is a wholesale distributor, the goods may be finished products rather than raw materials or components. The goods are then pulled from the stock areas and moved to production facilities where they are made into finished goods. The finished goods may be returned to stock areas where they are held prior to shipment, or they may be shipped directly to customers. Supply chain and inventory management can be a complicated subject and managing it can be a big task. From suppliers to manufacturers to distributors customers, products and information constantly flow throughout the chain and getting a handle on it all can sometimes seem overwhelming. Supply chain management is a critical component to product-driven businesses. For successful supply chain management, understanding the four stages: purchasing, inventory control, order fulfillment, and customer satisfaction is key.

1.4 Objective of the study

Supply chain management has greater impact on the environment than the other operation. Most of the organization has the sustainable effect on the product characteristics. In the supply chain, sustainability issues must be considered related to the delivery of the finished items. It tries to reduce the amount of the carbon emission distribution related activities. There are different types of reasons those can be undertaken into the consideration for the sustainability in this sector. The main objectives of this report are to analyze the process of supply chain of the **Meghna Group of Industries** and help management in future policy formulation that is likely to improve the quality of their supply chain management system.

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- Increase in the financial performance- Different researchers has found it effective in the increase of the financial performance.
- Increase of the green practice- Supply chain increases the importance of the green practice in the supply chain. In the valuation of the share and sales more components are being added.
- Increased facilities- In the United States, different types of tax and the investment facilities are being undertaken to help sustainable practice. This practice is being increased rapidly.
- Increase of the corporate social responsibility- Through these, different activities are being undertaken to increase the amount of the supply chain management practices. It increases different practices among the vendors of the supply chain.
- Reduction of the supply chain waste- it reduces the waste of the supply chain. It defines the sustainability
 of the supply chain.

1.5 Limitation of the Term paper

It was very difficult to collect all the required information in such a short period. Although the particular study is extremely extensive in nature, hard effort was given to make the study worthwhile and meaningful even then there exists some limitations. These are as follows:

- Lack of available published data.
- ➤ Lack of annual report.
- > Luck of systematic work environment for intern.
- ▶ Working place is good for work but there was lack of training facility.
- Although I have put the best efforts to meet the report objective however due to the short period of time the detail information gathered May not possible.
- Finally, my personal scantiness of knowledge especially in research, studies about securities market operation.

CHAPTER – 2 LITERATURE REVIEW

2.1 Literature Review

Supply chain is the interdisciplinary area where social and the physical science interacts with each other. It is the inter-generational, multi scale and the multi-dimensional aspect of the market research. It has the complex nature of the supply chain management. Much research was undertaken in the early 1990's. These researchers have identified the concept of the supply chain management. It has undertaken the integrated perspective. This has led to the development of the integrated view of the supply chain management. In this sector, network design has gained much popularity. Practice of the corporate social responsibility has risen. To determine the obstacles in the supply chain management, possible areas of the future research, framework of this research, literature review, methodologies of the study are added. Different approaches, case studies and researches are analyzed. Different approaches of SSCM, completeness and its effect, strategies, methods of decision making, standardization, efficiency, measures in the key performances are the main focus.

Students and internal and the external projects are the areas of research. It has the simplified form of the supply chain in the universities. It has the integrated supply chain in the tertiary education. There are 3 levels in the supply chain management model.

CHAPTER – 3 METHODOLOGY

3.1 Research Design

To fulfill the research, work a lot of data required are question is designed for collecting data from loyal customers of **Meghna Group**. Questionnaire included different types of information such as social economic and plastic furniture information.

I have used both primary and secondary information to prepare my report. I tried to interview different people of the department without questionnaire otherwise; they will not give answer to my questions. I have also used some secondary data published in the newsletter of the company, brochures, catalogs, website and from some books and magazines. On top of that, I use to note down my daily activities and always try to follow the culture of **Meghna Group** to gather maximum information.

3.2 Types of Study

In this study I used some types of exploratory research technique. These are:

I used **Depth Interview** *method* with supply chain department about supply chain System of the **Meghna Group**.

I used *case study* method to obtain information about the competitors.

I also used *Survey* techniques for gaining information about the perception of the customers and actor of outlets about the products of **Meghna Group**.

3.3 Area of the Study



3.4 Data Collection:

Every report follows some method and principle. This report is based on both primary and secondary data. But In the organization part much information from collect from different publishes articles, journals and website and so on.

- 1. **Primary Data** collection sources were done by direct interview to the targeted respondents and by administering questionnaires of **Meghna Group.**
- 2. Secondary Data were collected from books, published documents, Annual Sales Meeting report of Meghna Group, survey reports, Internet and journals.

3.5 Target Population

The data are collected to make this report from the employees who are the official of Meghna Group.

3.6 Sampling Technique and Sample Size:

Simple random sampling technique was used in this report. This is a probability sampling technique in which each element or unit in the sample has a known and equal probability of selection. The sample is drawn by a random procedure from a sampling frame. The survey was conducted over 30 people, who were actually employees of **Meghna Group**.

Sample Design:

The target population will be following:

- > Meghna Group.
- > Officers at customer services from the select company.

3.7 Data analysis

The data was analyzed and demonstrate with the relevant course material. Other side's the data were used in the human resources tools and techniques. They were matched and compare with the HRM term.

CHAPTER – 4 COMPANY PROFILE

Meghna Group of Industries



4.1 Overview of Meghna Group of Industries:

Meghna Group of Industries (MGI) is one of the biggest & leading conglomerates of Bangladesh. With a turnover of USD 2 billion & asset of USD 1 billion, MGI is currently operating in 32 companies, 30 Industries with more than 35000 employees, 6000 distributors & 15000 suppliers under its umbrella. Meghna Group of Industries has wide range of consumer goods under the umbrella brand Fresh. Fresh symbolizes freshness, purity, quality and trust. Fresh is committed to quality compliance and serving customers at affordable price.

Products under the 'Fresh' Brand are - Full Cream Milk Powder, Soyabean Oil, Mineral Water, Sugar, Flour, Spices (Chili, Turmeric, Coriander and Cumin Powder), Tea, Iodized Salt, Palm Oil, Mustard Oil, Cement and Feeds.

4.2 Brief Profile of Meghna Group of Industries

The full name:	Meghna Group of Industries
Head office:	Fresh Villa, House-15, Road-34, Gulshan-1, Dhaka-1212.
Industries:	48 & more to come
Business partners:	6000 plus
Suppliers:	15000 plus
Employees:	35000 (Professionals, Skilled, Semi-Skilled) and casual labors.
Brands:	Fresh, Super Fresh, Pure, No.1
Products:	Consumer goods, Cement, Chemical, Power, Fibre, Pulp & Paper, Feeds,
	Steel, Real Estate, Securities and media
Export Market:	India, Bhutan, Nepal, UAE, Kuwait, Singapore, Malaysia, UK, Hong
	Kong, Vietnam
Logistics & Services:	Oceangoing Vessel-02, Oil Tanker-15, Lighter-31, Covered
	Van/Bus/Truck/Pickup-1250, Air Craft-02.

4.3 History

The history of Meghna Group of Industries dates back to 1976 when its predecessor Kamal Trading Company was born. The groups humble debut occurred with the inception of Meghna Vegetable Oil Industries Ltd in 1989 on a small chunk of land at Meghnaghat in Narayanganj. Now, the group is running 30 Industrial units on over 350 acres of land. Meghna Group of Industries has been marketing various Fast Moving Consumer Goods (FMCG), Cement, Commodities, Chemical, Seed Crushing, Fish and Poultry feed, Power Plant, other bulk and industrial products under the brand name of 'Fresh', 'No.1' and 'Pure'. Moreover, the group has Ship Building Dockyard, Shipping, Securities, General Insurance, Media, Aviation and many other businesses.

The Group has more than 45 years of national & global experience. In Bangladesh one in every three households use MGI brands and products. MGI has started to spread its footprints outside

Bangladesh, especially in the Middle East, Southeast Asia, Europe, North and South America through exporting its various products.

MGI has been very aggressive in its expansion plan & emerged as the largest investor in industrial development of Bangladesh for three consecutive years.1

Meghna Group's ambitious business expansion is designed and driven by a visionary yet very humble person Mr. Mostafa Kamal. Mr. Mostafa Kamal is not only a far sighted entrepreneur but also known for his patriotism, contribution towards development of industrial, health, education, sports, social welfare and various other sectors. His philanthropy, honesty, sincerity and dedication fetched the group to today's lofty achievements.

Meghna Group has already invested USD 1 Billion for setting up new lines of business and great expansion programs such as chemical complex, power, salt, seed crushing, cement and media.

Meghna Group has contributed almost 75 million US Dollars as Tax to the state exchequers in Fiscal year 2012-2013. As a result of this relentless process of expansion MGI has become a powerful player within Bangladesh and has become the largest investor in relation to industrial development in Bangladesh over the last few years. MGI became the first company in Bangladesh to establish a private economic zone known as the "Meghna Economic Zone", which has since been followed by the creation of two further economic zones, which are named "Meghna Industrial Economic Zone" and "Cumilla Economic Zone" respectively. The conglomerate has expanded even further since this point, with an unprecedented investment of \$451 million in 2020 that has erected nine new industrial units within its multiple economic zones.

Throughout this process, and the history of the conglomerate, in general, the unwavering commitment of its visionary leader, Mostafa Kamal, Chairman and Managing Director of MGI, has been pivotal. Renowned for his entrepreneurial expertise and patriotism, Mostafa Kamal has played a key role in the development of industry, healthcare, education, sports and social welfare in Bangladesh. The integrity and dedication towards the group that he has displayed during his tenure, in addition to his philanthropic work, have played a vital part in the overall success of MGI.

4.4 Corporate Vision, Mission, and Values:

Vision:

We are passionately creating sustainable economic value for our country and stakeholders by contributing to the industrial development of the nation and fundamental requirements of our consumers.

Mission:

We would like to enhance our capability in a competitive and globalizing environment delivering superior and sustainable value within next 5 years.

Values:

MGI pays attention to the safety of people and products, acts pro-socially and is environmentally friendly. MGI is sensitive to cultural differences, treats social and commercial partners with respect and facilities the development of its partners.

4.5 FMCG Products and services:

Fresh refined sugar:



Fresh refined sugar is produced without any human interference using the most modernized process and state-of-the-art technology which guarantee its purity. Fresh refined sugar is packed in approved food graded pack with anti-wet process to maintain the cleanliness and clarity inside. Super Fresh soyabean oil and super pure vegetable oil:



It follows 3 steps of refining process-Perfect Degumming & Neutralization, Balanced Decolorization and Five steps Deodorization to ensure right ratio of Omega 3 & 6 and intact Betacarotene in Soyabean Oil.

Fresh mustard oil:



Surma Mustard Oil Mills Limited produces the finest Mustard Oil and Mustard Oil Cake under the brand name of Fresh. Fresh Mustard Oil is produced from world's finest & best quality mustard seeds and purified properly in an automatic plant. The legacy of this brand is to provide its great pungency & natural taste to the consumers. Also it connotes the heritage of our Bengali culture.

Fresh atta, Fresh maida & Fresh suji:



Fresh Atta, Fresh Maida & Fresh Suji offers the best quality and taste. The brand carefully selects best quality wheat. It uses multi step cleaning process and computerized Bhuler milling technology to keep nutritional goodness intact.

Fresh deshi mushur dal, Fresh anchor dal:



Fresh Dal offers the best quality and taste. The Lentils are majorly collected from various local sources, directly from farmers. To ensure best quality the factory uses Optical ColourSortex Z+ machine from switzerland. Fresh Dal is considered to be the best quality dal of the country.

Fresh full cream milk powder, super Pure full cream milk powder:



Fresh full cream milk powder provides the essential energy and nutrition for kid's and adult's intelligence, growth and strong health. Its choline helps in brain development, its protein, calcium, potassium, phosphorus aids in better growth and finally vitamin A, B, D and Zinc helps to build better immune system. These three nutrients allow your kids to become invincible.

No.1 sweetened condensed filed milk:



Tasnim Condensed Milk Limited is the largest condensed milk factory in Bangladesh with the most modern hi-tech and automatic process technology. No. 1 Sweetened Condensed Filled Milk is made in this factory by using quality milk powder, refined cane sugar, purified fat, lactose, non fat milk solids & UV treatrd water. No.1 Sweetened Condensed Filled Milk is homogenized, pasteurized and flash cooled to guarantee the best quality SCFM with smooth texture and complete nutrition.

Fresh super premium salt:



Fresh Super Premium Salt is produced by using the combination of Switzerland's World Latest Technology and Vacuum Evaporation System which can remove all impurities and ensures a natural balance of all minerals like Sodium Chloride, Iodine, Calcium and Magnesium. As a result it helps to create balanced electrolytes, activate nerve function and carries the nutrients to reach every cell within our body. Its balanced Iodine also helps to promote brain development and improve immune system.

Super Fresh drinking water, No.1 drinking water:



Super Fresh Drinking Water is popular and the market leader among the drinking water brands in Bangladesh. It is clear, transparent, free from microorganisms and refined in seven stage of purification process as De-Iron, Pre-Ozone, De-Odor, Softening, Reverse Osmosis, Ultraviolet Treatment and Zonation. Hygiene practice is maintained in every step of our refining process. So, Super Fresh Drinking Water is safest, reenergizing, refreshing, trendy and suitable for human body. In February, 2013, a new brand of water "No.1 Drinking Water" also was introduced to the market to cater the popular segment

Fresh premium tea, Fresh danedar tea, Fresh dust tea, No-1 leaf tea, No-1 strong tea:



Fresh tea is the best Tea blend of the country with the best raw tea carefully chosen from the best gardens of Bangladesh. Fresh tea has great strength, mouth fullness & taste. Along with bright liquor, attractive colour and natural flavor it gives the best Freshness.

Fresh spice:



To spice up our daily life with good taste and add a healthy punch to all our breakfast, lunch and dinner; Spices have become essential. With latest grinding technology and a modern, hygienic manufacturing process, Fresh spices has been able to create a strong foothold in consumer mind. For its obsession with quality management, spices with international standards are also being exported to

several countries.

4.6 Corporate social responsibilities (CSR):

The founder of Meghna Group of Industries, Mr. Mostafa Kamal who himself started his voyage with a quest for doing something for the people and the country is involved himself with different sectors. Corporate Social Responsibility is thus the ultimate form of corporate self-regulation integrated into MGI business model. MGI is equally concerned with the welfare of its employees. Few of his contributions are:

Industrial park of MGI:

Industrial park of MGI located at factory complex, Meghna ghat, Naryanganj. The objective of industrial park of MGI is not only for industrial development, but also to keep environment pollution free. Because of industrial park employee and worker get healthy working environment.

Education:

MGI care for education and contribute to educate people in Bangladesh by establishing school and college. Mostafa kamal, he is the founder and chairman of Al-Haj Noor Miah Degree College, Mostafa Kamal High School, Al-Haj Ayesha Noor Welfare Foundation etc. in chauddagram.

Relief and rehabilitation:



Assistance of flood affected districts



Constructed low-cost houses for poor, homeless and distress people in local areas

Assistance to 5 flood affected districts in 2007. Donate to the Honorable Chief Adviser's Relief Fund for Sidor victim in 2007 and constructed 44 low-cost houses for poor, homeless, distress people in local areas. In 2015, MGI donated 9,000 bottles of Fresh Drinking Water and 4,800 kg of Fresh Flour for the Nepal earthquake victims. Moreover, Mr. Mostafa Kamal also constructed 44 low-cost houses for poor, homeless and distressed people in local areas.

In 2018, MGI launched a baby care zone at the departure lounge of Hazrat Shahjalal International Airport in Dhaka. Such a zone, a first of its kind in an airport of the country, will ease the stress of passengers, especially the mothers travelling with toddlers and young children.

To provide better educational opportunities for the underprivileged students, MGI donated 25 lac taka to Police Academy KG School Kollyan Fund as a student scholarship at Bangladesh Police Academy, Sardah in January 2020.

To fight against the novel Coronavirus, MGI donated 5 Crore taka to the Prime Minister's Relief Fund as well as 35,000 packs of essential foods to the people who need it the most. MGI also handed over 15,000 masks to the Rapid Action Battalion (RAB) to be used by their officials and 2,000 bags of essential foods that were to be distributed to the people with the help of the RAB

Games and sports:

MGI sponsored Independent and National Day Women Kabadi Championship in 2008. FRESH 1st and 2nd President Cup Golf Tournaments in 2004 & 2005 respectively.

4.7 Job Description:

In my 2 Years work experience I go through different responsibilities, training, one to one conversation to know each person's responsibility and team meeting etc.

First two week of my job I go through different type of training and during this session I learn corporate culture of MGI industry, different rules and regulations, values etc. Next 3 week I assign with my senior colleague and learn how to use ERP system, preparing different kinds of notes, rebate bill and all kind of distribution related work etc.

From the last 2 years I assigned with specific task as like handle central store and distribution of Meghna Beverage Ltd . Gradually my responsibility increased and I learn how to handle work pressure. Sometimes in absence of other employee I did their task beside my own responsibility. It helps me to learn other people task.

4.8 Specific responsibilities and activities:

- Manage, organize & update relevant data using Advanced ERP (Software) to create customer & Sales Order sheet for Product Line F (Beverage & Water).
- Create financial & statistical reports, documents, proposing for credit limit and keep liaison with the accounts department, analyze and interpret other data and produce reports.
- Coordinate with assigned depot for their daily operation as like order sheet approval and credit limit settled with the assist of accounts department.
- > Prepare daily delivery report of edible oil supplied to distributor for Tariff Commission of Bangladesh (TCB).
- DO (Delivery Order) and TO (Transfer Order) creation through ERP software based on sales demand for smooth delivery operation.
- > Prepare all kind of notes i.e. DO cancel note, Rate adjustment, Rebate bill etc.
- Work closely with Sales Management, Finance & IS to ensure robust Sales Order Management process is implemented across entire Supply Chain.
- Monitor delivery & undelivered status of products (Product line F) with regular liaison with production & other supply chain colleagues.
- > Perform any other assigned jobs related to Supply Chain operation
- Support on strategic decision by collecting and providing relevant information to retain old customers and attract new customers to fulfill increasing customers demand and gain competitive advantage over rivals.

- Resolve various depot related complex issues to enhance performance of the Organization in FMCG sector
- Co-ordinate Deputy Manager in report preparation on inventory analysis of FMCG division.
- Assure & follow up the practice of MGI Values & Behaviors.

4.9 Observations and recommendations:

After working with SCM department of MGI my observations are:

- ✓ Adequate training for employee
- ✓ Salary structure and government holiday
- ✓ Employee safety
- ✓ Good HR policy

SCM concept is new for Bangladeshi industry, so most of the employee does not have proper knowledge about SCM but still they are working in this department. Adequate training on SCM is very much essential for the Industry because Company can swim or sink with SCM. There is no standard salary structure in MGI industry, so some employee get very poor salary compare to other. It should be structured to motivate employee. During most of the government holiday employee has to do their office and they do not get any extra benefit. If company need to open during holiday they should provide proper compensation. In MGI industry in FMCG division at Uttara, they do not have enough fire extinguishers and elevator which is used is not fit for commercial usage which causes employee safety. They should practice good HR policy for their future growth.

4.10 Description of the project:

A supply chain is a network of facilities and distribution options that performs the functions of procurement of materials, transformation of these materials into intermediate and finished products, and the distribution of these finished products to customers. Supply chains exist in both service and manufacturing organizations, although the complexity of the chain may vary greatly from industry to industry and firm to firm.

Traditionally, marketing, distribution, planning, manufacturing, and the purchasing organizations along the supply chain operated independently. These organizations have their own objectives and these are often conflicting. Marketing's objective of high customer service and maximum sales conflict with manufacturing and distribution goals. Many manufacturing operations are designed to maximize throughput and lower costs with little consideration for the impact on inventory levels and distribution capabilities. Purchasing contracts are often negotiated with very little information beyond historical buying patterns. The result of these factors is that there is not a single, integrated plan for the organization---there were as many plans as businesses. Clearly, there is a need for a mechanism through which these different functions can be integrated together. Supply chain management is a strategy through which such integration can be achieved.

Supply chain management consists of developing a strategy to organize, control, and motivate the resources involved in the flow of services and materials within the supply chain. A supply chain strategy, an essential aspect of supply chain management, seeks to design a firm's supply chain to meet the competitive priorities of the firm's operations strategy. Supply chain management encompasses the planning and management of all activities involved in sourcing, procurement, conversion, and all logistics management. Importantly, it also includes coordination and collaboration with channel partners. Here the channel partners can be suppliers, intermediaries, third-party service providers, and customers. In essence, supply chain management integrates supply and demand management within and across companies.

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According to **William J**. **Stevenson** "A supply chain is the sequence of organizations – their facilities, functions, and activities – that are involved in producing and delivering a product of service. The sequence begins with basic suppliers of raw materials and extends all the way to the final customer. Facilities include warehouses, factories, processing centers, distribution centers, retail outlets, and offices."

According to **Mentzer and other** "Supply chain management is defined as the systematic, strategic coordination of the traditional business functions and the tactics across these business functions within a particular company and across businesses within the supply chain, for the purposes of improving the long-term performance of the individual companies and the supply chain as a whole."

According to **Krajewski, Ritzman**, and Malhotra "Supply chain management consists of developing a strategy to organize, control, and motivate the resources involved in the flow of services and materials within the supply chain. A supply chain strategy, an essential aspect of supply chain management, seeks to design a firm's supply chain to meet the competitive priorities of the firm's operations strategy."

4.11 THE NEED FOR SUPPLY CHAIN MANAGEMENT

In the past, most organizations did little to manage their supply chains. Instead, they tended to concentrate on their own operations and on their immediate suppliers. However, a number of factors make it desirable for business organizations to actively manage their supply chains.

The major factors are:

- > The need to improve operations
- Increasing levels of outsourcing

- Increasing transportation costs
- Competitive pressures
- Increasing globalization
- Increasing importance of e-commerce
- > The complexity of supply chains
- > The need to manage inventories

4.12 ELEMENTS OF SUPPLY CHAIN MANAGEMENT

Supply chain management involves coordinating activities across the supply chain. Central to this is taking customer demand and translating it into corresponding activities at each level of the supply chain. The key elements of supply chain management are listed in the following table

Element	Typical Issues	
Customers	Determining what products and / or services customers want.	
Forecasting	Predicting the quantity and timing of customer demand.	
Design	Incorporating customers, wants , manufacturability, and time to market	
Capacity Planning	Matching supply and demand.	
Processing	Controlling quality, scheduling work.	
Inventory	Meeting demand requirements while managing the costs of holding inventory.	

Purchasing	Evaluating potential suppliers, supporting the needs of operations on purchased goods and services.
Suppliers	Monitoring supplier's quality, o- time delivery, and flexibility, maintaining supplier relations.
Location	Determining the location of facilities.
Logistics	Deciding how to best move information and materials.

4.13 SUPPLY CHAIN MANAGEMENT MODEL

The supply chain management model in Figure 1-1 viewed as a pipeline shows the scope of this definition. It is important to note that supply chain management is about the coordination of product flows across functions and across companies to achieve competitive advantage and profitability for the individual companies in the supply chain and the supply chain members collectively.

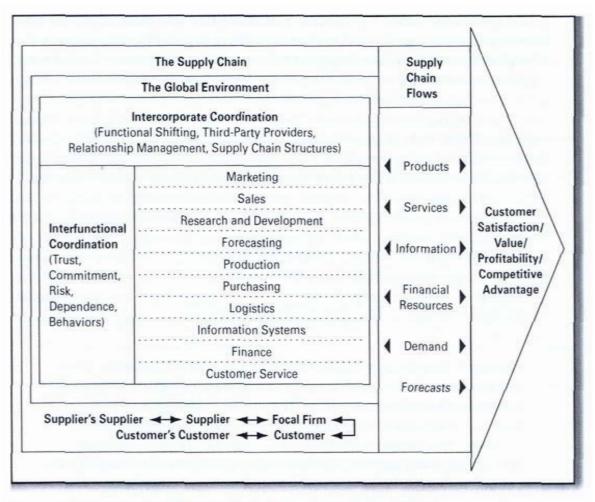


Figure 1-1 A Model of Supply Chain Management

4.14 PROCESS MEASUERS:

Three major processes related to supply chains are customer relationship, order fulfillment, and supplier relationship. It is important to monitor the performance these internal processes as well as the entire supply chain itself. Supply chain managers monitor performance by measuring costs, time and quality. Following table contains examples of operating measures for the three processes.

Supply chain process measures:

Customer Relationship			Order Fulfillment			Supplier Relationship			
1.	Percent of orders taken	1.	Percent of incomp	olete	1.	Percent of supplier			
	accurately.		orders shipped.		deliveries on time				
2.	Time to complete the order	2.	Percent of orders ship	oped	2.	Suppliers lead times			
	placement		on tie.		3.	Percent defects in services			
3.	Customer satisfaction with	3.	Time to fu	ılfill		and purchased materials			
	the order		the order		4.	Inventory levels o			
	placement process	4.	Percent of botched servi	vices		suppliers and purchased			
			of returned items			components.			
		5.	5. Cost to produce the service						
			of item						
		6.	Customer satisfaction v	with					
			the order						
			fulfillment process						
		7.	Inventory levels of work process an finished good						

4.15 <u>SUCCESSFUL SUPPLY CHAIN MANAGEMENT: REQUIRED STEPS</u>

Integrating information is the first step in supply chain management. You must then analyze this information to determine which actions to take within the context of automated business processes.

Furthermore, to be most effective this information should automatically trigger a corresponding product transition. The tight coupling of execution and decision-making is an essential ingredient to effective supply chain management.

Today's information technologies remove communication barriers, enabling an improved flow of information among all members of the supply chain. Early adopters of these technologies have intensified the competitive marketplace in which all businesses must now operate.

The most successful companies realize they need a step-by-step approach to chart a business's course toward high-performance supply chain management. Those steps include:

Achieving execution excellence by fully automating and optimizing business
 Practices.

- Extending the enterprise to embrace all members of the supply chain.
- Integrating business systems with those of customers, suppliers, and partners to create a common information foundation.
- Deploying real-time decision support to increase responsiveness.
- Investing in re-educating and re-orienting employees, vendors, and other members of the supply chain on the practices needed to optimize business processes.
- Making a company-wide commitment to creating and managing a more complex

Organization capable of tackling global business issues.

Effective coordination and trust-based relationship among partners is the key to supply chain success. To achieve strong bond resulting from effective coordination, supply chain professionals should focus on the following:

- > Obtain top management commitment to coordinate with supply chain partners
- Devote resources for coordination
- Align incentives and goals for all partners
- > Improve productivity by reducing duplication or through effective efforts at appropriate stages

- Design effective conflict resolution mechanisms
- > Focus on effective communication at all stages in supply chain
- Use technology to improve connectivity in supply chain
- Share the benefits of coordination equitably among the partners

4.16 <u>Present Key Activities of MGI SCM Department :</u> <u>Procurement</u>

Raw materials and packaging materials inventory purpose continuously coordinate with local and foreign trade department.

As per product requirements based on market demand, analysis has been accomplished to find out exact quantity within the right time of raw materials and packaging materials. This analysis report submitted to the top level management.

After getting the approval from management, based on requirements advised to raise SPR.

Inventory

Accomplished real time visibility into demand, supply, costs and fulfillment measures and trends. Manage margins with a clear view into inventory costs, turn rates and inventory profitability Effectively and efficiently meet customer demand, helping drive and maintain superior customer service levels.

Production

Based on forecast production plan provide to the factory and meet demand from the stock. Ability to maintain low but sufficient covers stock to counter the challenge of market demand.

Planning

Strategy for managing all resources that goes toward meeting customer demand for their product & services.

Utilize resources at optimum level to achieve efficiency through inventory and production planning. Distribution planning to improve utilization levels of transportation.

Depot management has done in a planned way to achieve efficiency and effectiveness.

Optimize collaboration with suppliers, customers and partners.

Increase transparency and reaction capabilities in the value creation chain.

Order processing & Distribution

5.1 Co-ordinate with receipt order from customer, take immediate steps for approval & make DO for fast delivery.

5.2 Organize transport program, so that it is different in cost & service

5.3 Use third party transport as well as own vehicle to distribute the product

5.4 Abnormal situation like strike, hartal we use rail and cargo trailer to ensure smooth delivery process

5.5 Developed cost effective distribution and kept undelivered in minimum status

5.6 Instant decision has done to revised transport rate during the hartal to agree third party for smooth delivery, that's reduced use of company vehicle.

5.7 Transport optimization through analysis of data.

Flow Chart of MGI



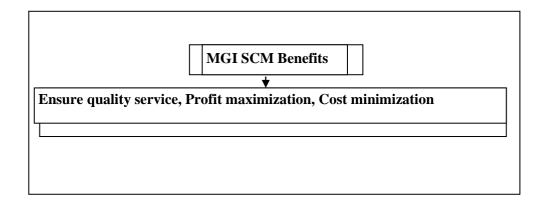
Depot mgt.

- 1. Company owns 56-nos covered vehicle in total in depot for their daily distribution operation.
- 2. As per critical moment logistic support given to depot when required. 3. Third party transport contract and negotiation of rate has been done
- 3. Inauguration new depot in Tongi and Jessore.
- 4. Achieve efficiency and cost effective operation of depot.
- 5. Damage return from depot.
- 6. Depot productivity increase (67 % by value) through increase sales order at depot and delivery support. Annexure-05
- 7. Small amount sales order taken from depot and distributed from there to minimize the transport cost and leading time.

Others

Cross functional work with Accounts, Sales and Brand department for smooth business operation.

Support on strategic decision by collecting and providing relevant information to retain old customer and gain competitive advantage over rivals.



KPIs of SCM

Brand: Tasnim condensed Milk Ltd (No.1 Condensed). Product: Finished Goods.

KPIs		Nov-2020	Dec-2020	Target	Objective	
Inventory	Qty (ctn)	2.67	2.09		To Increase Inventory turnover	
Turnover	Value	3.27	2.53			
	Qty (ctn)	0.0021 (0.2%)	0.0017 (0.17%)		To achieve better performance by	
Perfect Order Rate	Value	0.0021 (0.2%)	0.0017 (0.17%)		reducing error.	
Inventory to sales ratio	Value	0.36 (36%)	0.41 (41%)		To increase Inventory to Sales Ratio	
	Qty (ctn)	0	0.00179		To reduce rate of return	
Rate of Return	Value	0	0.00181			

Inventory Turnover

This is one of the most important supply chain KPIs for our organization to monitor. This KPI provides a barometer for the health of our organization because it shows how quickly we are able to move inventory. To formulate this KPI, calculate the cost of inventory sold during the period and divide the balance left over at the end of the year. A high inventory turnover rate is preferred, although it is important to compare our turnover rate to other organizations within the same industry.

Objective: To increase inventory turnover

Formula=

sales / (opening cost + closing cost) 2

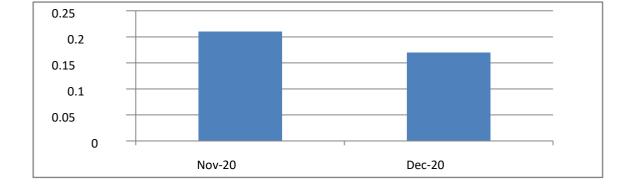
(In here greater value indicates better)

November, 2020

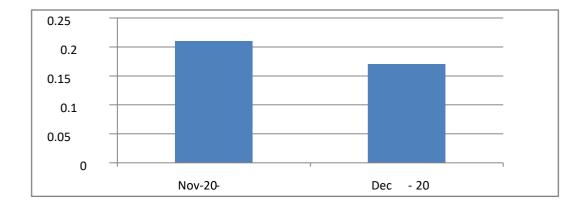
December, 2020

Quantity= $\frac{116055}{(36082+50784)/2} = 2.67$

 $\frac{111178}{(50784+55408)/2} = 2.09$







Perfect Order Rate

This inventory KPI is closely related to customer satisfaction as it measures our ability to put together a "perfect" order. This means shipping without damage, delivering the shipment on time, invoicing the order correctly, and ensuring the accuracy of the order. This metric will tell us a lot about the efficiency of our warehouse and the ability of our organization to meet (and exceed) customer expectations. Understanding this supply chain KPI is essential for gauging the efficiency and effectiveness of our organization.

Objective: To achieve better performance by reducing error

Formula= Cancel D.O / Total customer Order

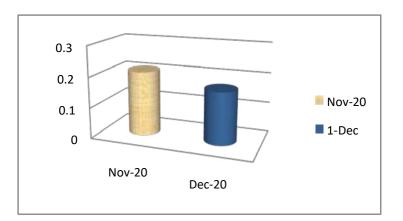
(In here lesser value indicates better)

November, 2020

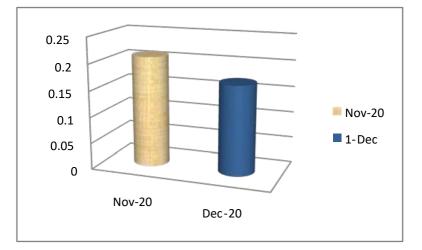
December, 2020

Quantity (ctn) = $\frac{250}{118556} = .002 (.2\%)$

 $\frac{215}{121202} = .0017 \ (.17\%)$







Inventory to sales ratio

This inventory KPI measures the ratio of in-stock items versus the amount of sales orders we are filling. Inventory to sales is a good barometer for the performance of our organization, providing us

with a strong indicator of the economy. The challenge with this supply chain KPI is identifying a ratio that reflects our goals and industry norms.

Objective: To maintain stability with regards to prevailing economic conditions.

Formula= Total Inventory Value / Total Sales Value

(In here greater value indicates better)

November, 2020

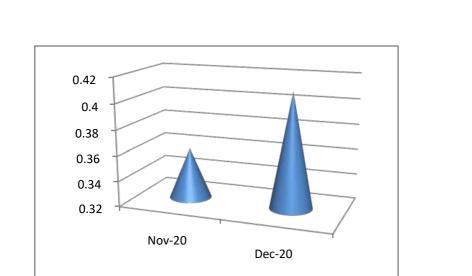
December, 2020

110703078

268456366

=.41(41%)

Value = $\frac{101129005}{280709111} = .36$ (36%)



Rate of Return

This supply chain metric looks at the rate that items are returned to us after they have been shipped. The key to this metric is providing a breakdown for the reasons why items are returned, so we can identify trends and reduce our rate of return ratio. The example below provides a chart that compares reasons for returning items, but this inventory metric also gives well with the perfect order rate KPI.

Objective: To reduce rate of return

Formula= Total Items Return / Total Items Shipped

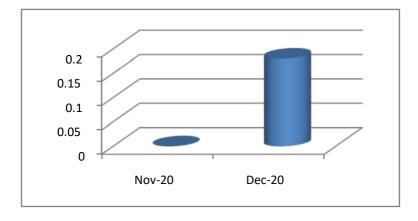
(In here lesser value indicates better)

November, 2020

December, 2020

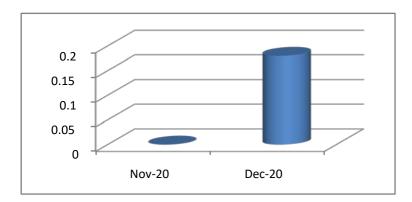
Quantity (ctn) = $\frac{0}{116055} = 0$

$$\frac{2}{111178} = .00179$$



Value = $\frac{0}{280709111} = 0$

 $\frac{4864}{268456366} = .00181$



Limitations and constraints Back-order rate

There is no status of D.O report and challan report based **on hour**, at ERP. This report is necessary to calculate back order rate. More over if there is an option at ERP to write the **reason** why the product is undelivered, which will be helpful to illustrate and take essential steps against delay.

Inventory Accuracy

To count number of items physically, is not possible for us where inventory is located in factory and depot. It will be more effective if **physical quantity** recorded at ERP by hour/days. So this option should be developed at ERP.

Order Status

To calculate order status, we need information of **qty of order placed** vs **qty of D.O confirm status** vs **qty of challan (shipment) status** etc in one report which is not available at ERP. It should be developed at ERP which will provide accurate direction for taking further steps.

Carrying cost of inventory

We do not get any information which is related with carrying cost, through ERP. So everything which is related with carrying cost of inventory should be developed at ERP.

4.17 WAYS TO POPULARIZE THE CONCEPT OF SUPPLY CHAIN IN BANGLADESH

Developing appropriate concept is a crucial starting move for businesses in Bangladesh. More Knowledge sharing, understanding the tools and techniques of successful implementation of SCM and transferring best practices should become top agendas for all professional

Organizations, including consultants, training institutes, education providers such as universities, NGOs and donor organizations. This is perhaps the high time that the government heavily encourages and invites local and foreign assistance in implementing SCM as compliance in every business. Business organizations that are yet to implement SCM should at least start arranging dialogue with capable individuals and organizations that could help them demonstrate the benefits of SCM.

CHAPTER-5 ANALYSIS AND FINDINGS

ANALYSIS AND FINDINGS:

We know that Analysis and Findings are most important part in any research report. After stated all

procedure, now we have to analyze for getting some findings and to reach conclusion. For the purpose of analysis use various bar diagram, trend analysis and standard deviation, co-efficient of variance etc. All these are effectively used in most of analytical report.

5.1 SWOT analysis:

SWOT analysis facilitates the organization to make their existing line of performance and also foresee the future to improve their performance in comparison to their competitors. As though this tool, an organization can also study its current position, it can also be considered as an important tool for making changes in the strategic management of the organization.

Strength:



"Best Brand Award Bangladesh" 2013 organized by Bangladesh Brand Forum in association with Millward Brown

Conferred three award in "Best Brand Award Bangladesh" 2013 organized by Bangladesh Brand Forum in association with Millward Brown. Super Fresh Drinking Water secured 2nd position in the category of Bottled Drinking Water. Fresh Atta, Maida, Suji secured 2nd position in the category of Atta, Maida, Suji. Fresh Soyabean Oil achieved 3rd position among all local brands across all categories and 14 awards in The Best Brand Award Bangladesh 2016 including The Most Improved Brand, Best Sugar Brand, Best Atta – Maida – Suji Brand etc. Besides Many kind of international awards information given below:

- URS Asia One World's Greatest Leaders 2017-2018 Award.
- URS Asia One World's Greatest Brands 2017-2018 Award.
- First among the Most Chosen Brands in food category by Brand Footprint Study of Spain based Market Research organization Kantar Worldpanel for the years 2014 & 2015.

- The prestigious Saskatchewan Pulse Growers Special Award of Canada's Agri-commodity.
- 3rd Hydro-Power and Clean Energy Excellence Award, in 32nd CACCI Conference in Istanbul, Turkey.
- Primaduta Award from the Government of the Republic of Indonesia.
- International Star Award for Quality (ISAQ) in Gold category by Business Initiatives Direction (BID) in Geneva, 2005 for commitment to quality and excellence.
- World Quality Award in Platinum category in Paris, 2006 by BID based in Spain.

Quality Summit Award in Diamond category in New York, 2007 for outstanding performance in quality commitment and industrialization.

ISO 9001:2000, certificate earned by its facilities for quality product and management. International Star Award for Quality (ISAQ) in Gold category by business initiatives Direction (BID) in Geneva, 2005 for commitment to quality and excellence. World Quality Award in Platinum category in Paris, 2006. Quality Summit Award in Diamond category in New York, 2007 for outstanding performance in quality commitment and industrialization.

Weakness:

MGI has some limitations to run its operations. Most of the employee and worker of factory are not used to with ERP system. But in MGI FMCG sector it is very much essential to know how to use ERP to keep information up to date. So in this case to collect information sometimes need to use manual system, which causes information gap. In FMCG sector should use pull marketing strategy, but in MGI still they are mostly dependent on push strategy. HR policy of MGI is not so much strong, which causes dissatisfaction among employee and as a result employee turnover is high.

Threats:

Other competitor like Abul khaier group, City group, Edible Oil etc they are big threats for MGI industry. Those industries create tough competition for MGI industry. Inflation and political instability causes so many problems, like inflation raise the price of raw materials and instable

political situation causes hamper in delivery process, planning process etc.

Opportunities:

There is a huge opportunity for MGI Industry. It has huge capital and resources to become multinational company. But in this case it has to change its position gradually and need to proper utilization of its resources.

5.2 FINDINGS:

In the global competitive business environment, sustainability is the major focus in different areas. It has integrated the social issues to the supply chain. It has imposed different law into the business environment. It was voluntarily accepted by the business world. It helps to ensure the better efficiency in this. Cost of the organization is reduced as well. It also results in increased market share as well. In the risk management it is more effective. It focuses on the definition of the market as well. Researches related to sustainable supply chain, focuses on the effective and less costly value chain management. Sustainable business practice has led to integrated supply chain

CHAPTER – 6 Conclusions & Recommendations

6.1 Conclusion:

Supply chain is basically a group of independent organizations connected together through the products and services that they separately or jointly add value on in order to deliver them to the end consumer. It is very much an extended concept of organizations which adds value to its products or services and delivers them to its customers. There are many methods in implementing SCM that can help the manufacturing companies operate their SCM efficiently. Besides that, good planning, strategy, infrastructure and management teams are necessary to improve the efficiency of SCM implementation and achieve the competitive advantages. From this report it is clear that Meghna Group of Industries performance could be improved through effectively implements SCM and reduce the problems that occurred in the SCM implementation.

6.2 <u>Recommendation:</u>

Supply chain management in Meghna Group of Industries should be approached in a more systematic manner based on integrated and documented processes. The various supply chain components like suppliers, manufacturers, warehouses and stores should be integrated in a single system, which makes supply chain management more effective. The team involved in the operational side on handling the supply chain should be highly trained in supply chain management function.

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