WORKING CAPITAL MANAGEMENT MODEL FOR PUBLIC ENTERPIRSE IN BANGLADSH

A study of Jute and Cotton Textiles
Industries.

By

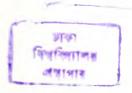
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ABSTRACT

Working capital plays an important role in day to day operations a business enterprise. The success or failure of enterprises is very much dependent on its efficient management of working capital. After the liberation of Bangladesh, most of the industries were taken over by the Government by a Nationalisation order of 26th March, 1972 for better supervision, coordination and control and were vested with specialised sector corporations to run those as public enterprises. The performance of these enterpises was, however, extemely disappointing especially in the area of jute and cotton textile industries. Most of enterprises in jute and cotton textiles became sick due continous losses and and erotion of equity. The efficiency of public enterprise was a debatable issue between the two group of economists planners, financiers. One group questioned efficiency of running those enterprises, especially they noted the lack of proper working capital management was one of the problem. It appears from the annual reports of Bangladesh Mills Corporation(BJMC) and Bangladesh Textile Jute Corporation(BTMC) that most of their enterprises have negative net working capital position. Morever, most of the respondents in our survey strongly agreed that working capital management is a number one problem in public enterprises, especially in Jute and Cotton textile industries of Bangladesh.

The present research is based on the analysis of data collected from primary sources and secondary sources data were also used. The data were checked and cross chequed by two groups of respondents from both the selected mills and corporations head office and top officials of Bangladesh Bank and Commercial Banks. The major technique of analysis used in this study is "FACT METHOD". This is a financial analysis consultancy technique which was first used in United Kingdom to train the non-financial business exceutives in financial management (see annexure I - XII). To test the validity of the study on efficiency between Public vs Private enterprises Chi-Squire test were also used in the sutdy.

The major findings of the study are summarised as follows:

i. Management of public sector jute and cotton textile enterprises do not calculate their working capital in an objective manner.



- ii. The investment in inventories in public enteperises is disproportionately high which creates working capital problem. There was excess inventories of Tk. 2233 lakhs and Tk. 526 lakhs in selected public sector jute and cotton mills respectively compared to our model.
- iii. Collection policy of public enterprises is very poor, as a result a huge fund is blocked in accounts receivables, especially in advances. There was excess receivables of Tk. 1866 lakhs and Tk. 242 lakhs in the selected public sector jute and cotton mills compared to our model during the period of study.
- iv. It is found that as a result of huge investment of funds in inventories and receivables, cash flow generation is very poor and there was huge shortage of cash amounting to Tk.1195.75 lakhs in jute mills, but an excess cash of Tk.84.06 lakhs was found in the selected cotton mills compared to our model.
- v. Low demand of jute goods and serious competition in international market, a huge stock of finished goods is piled up which aggravates working capital problem. It was found that eight months cost of production of finished goods was blocked in godown compared to one month as suggested in our model.
- vi. It is found that there is inefficiency and corruption in procurement, storage and usage stages of raw jute in public sector jute mills and both management, union and social leaders are involved in it, which increases the raw jute cost.
- vii. Private sector jute mills show higher prices of raw jute cost in order to extract undue concessions from the Government in terms of compensation for loss, to get cheap bank loan and also to evade payment of taxes.
- vii. It is found that in public sector cotton textile enterprises a huge stock of finished goods accumulate due to lower purchasing power of the poorer section and clamour for foreign cotton textile goods by the richer section of consumers, which affects working capital;
- viii. It is revealed that undue demand of fringe benefits by unions at the instigation of management and social leaders enhances wages and salary costs which also creates working capital management problem.

- xi. Cost accounting and cost control system is found inadequate in public enterprises to control over expenditures.
- x. Enterprise management under Bangladesh Textile Mills Corporation(BTMC) was found incompetent in understanding economic and diseconomics of raw cotton procurement. Enterprise management want decentralisation, which in the opinion of Corporation is not possible, as raw cotton is imported on grant and barter agreement.
- xi. It is found that there is lack of coordination between production and sale in public enterprises which affects working capital management problem.
- xii. Inventory turnover ratio is found very low in the public enterprises compared to standard which aggravates working capital management problem.
- xiii. It is revealed that there is no basic difference on the level of efficiency between public and private sector enterprises with respect to inventories, receivables and cash components of working capital management and $X^{\prime\prime}$ test validated this contention.
- xiv. It is revealed that, public enterprises are overmanned either by ghost workers/or by surplus managerial people of the disinvested mills and some workers, especially union leaders do not work at all which increases undue wage and salary cost in relations to production effort compared to private enterprises.

The findings presented in this dissertation is an empirical investigation into the working capital management practices of the public sector jute and cotton textile industries in Bangladesh. The fundamental objective of the study was to design an operational model, which is being presented in Chpater seven and the author believes that it will improve the working capital management practice in jute and cotton textile industries in particular, and in public enterprise in general. In addition, this study also provides an insight into the comparative working capital management practices between public and private sector enterprises disinvested after the new industrial policy of 1982. In designing the suggested model, the author has reviewed

the existing western models of inventory, cash and receivables components of working capital. The author has also examined the norms of inventory and receivables suggested by Tandon Committee appointed by the Reserve Bank of India for jute and cotton textile industres. The inventory norms suggested by Bangladesh Bank for 250 looms(narrow) jute mills has also been examined.

The author found that Inventory model such as Economic Order Quantity(EOQ) or Miller or Model for Cash management and other models suggested by western scholar are not practically applicable in the enviornmental constraints of Bangladesh. Similarly the Inventory and receivables norms suggested by the Tandon Committee of the Reserve Bank of India's study are also not valid under the socio-economic conditions of Bangladesh. The norms suggested by Bangladesh Bank for the inventory (250 looms jute mills only) is very rigid and is not applicable for all types of jute mills (big and medium mills). Moreover, this norms is determined for bank credit only. Bangladesh Bank has not suggested any norms for receivables and cash components of working capital. It has also not suggested any guidelines for cotton textile industries.

The model designed by us in chapter seven considered all components of working capital management, i.e. each item of inventory model, cash model and receivables. In order to carry a reasonable level of current assets in relation to production maximum permissible limit requirements, the borrowings(cash credit/overdraft) has been worked out under three innovated methods. The model has been tested by comparing actual figures of inventories, receivables and cash with our planned figures as per model, and it is revealed that there was excessive blockage of fund of Tk. 2227 lakhs, and Tk.1866 lakhs in inventories and receivables respectively in the public sector jute mills during 1982-83 to 1986-87, and the jute mills could save Tk.574 lakhs as interest income only out of the blocked fund. But there was huge cash shortage of Tk. 1196 lakhs public sector mills jute compared to OUT. model.

and the shortage has been made by means of excessive bank borrowings. Only in 1987, the big jute mills had Tk.1171 lakhs excess bank borrowings compared to our model with a heavy interest burden. In cotton textile mills excessive amount of Tk. 526; Tk. 242 and 84 lakhs was found blocked in inventories, receivables and cash respectively, and the three cotton mills could save Tk. 119.29 lakhs as interest income only out of the blokced fund. The impact of our model has been tested on the accumulated net profit/and cashflows of the selected enterprises. The analysis revealed that the accumulated

loss of Tk.1156 lakhs of 3 jute mills over five years could have been reduced by Tk.574 lakhs only out of savings of interest income. Similarly negative cashflows balance of Tk.1195.75 lakhs would have been reduced to only Tk. 627.45 lakhs if our model is adopted. By adopting our model the three cotton mills could earn an excess profit of Tk.119.29 lakhs, and the accumulated balance of negative cashflows would have been reduced to Tk.1454.39 lakhs instead of actual Tk.1573.68 lakhs during the period of study.

The suggested model is a welcome departure from the exsting credit appraisal done on the basis of post-mortem analysis of balance sheets historial data. This is a long-term planning model and a future oriented approach production likned credit ensuring element of flexibility. Our model, if adopted will improve the working capital position by strengthening the current ratio in the public sector jute and cotton textile enterprises in particular and public enterprises of Bangladesh in general.

PREFACE

The thesis presents an analysis on the problems that account for inefficient management of working capital in the public enterprises of Jute and Cotton textile industries under the administrative control of Bangladesh Jute and Textile Mills Corporations respectively. The study also provides a descriptive operational working capital management model which will enable the policy markers, planners and especially the management of the public enterprises to operate their working capital management more efficiently and effectively under the environmental context of Bangladesh.

The profitability and liquidity position of most of the public sector jute and cotton textile mills are very precarious. negative or low profitability acts as a stumbling block to the development of such public enterprises. be handful of reasons for negative There or profitiability in the jute and cotton textiel industries. But the financial experts and analysts are of the opinion that the inefficient management of working capital is one of the principal cause of such eventualities. But, unfortunately the jute and cotton textile enterprises in public sector have failed miserably to achieve the desired level of efficiency since the day of natioalisation(since 26th March, 1972). The endeavours to present a clear and coherent national picture on an important area like working capital management of public enterprises in Bangladesh.

There are many individuals who made useful contribution to this project and I would like to express my gratitude to them. I gratefully remember that this study would not have been initiated without the encouragement and quidance of my most respected teacher Professor Md. Habibullah, Dean of the Faculty of Commerce, University of Dhaka. I am also thankful to him that he agreed to act as a guide of my dissertation inspite of his busy schedules and ill-health. I express alos my gratitude to Professor Muzaffar Ahmed, Institute of Business Administration, Dhaka University for his invaluable suggestions in carrying out this study. I also express my sincere thanks to Dr. M. Shamsul Hoque, Associate Professor of Finance, IBA, Dhaka University for going through the Chapter Seven and making valuable suggestions for the improvement of the suggested model. I would like to express my sincere thanks to Professor Herbert Davies, of George Washington University for going through my manuscripts and for his valuable suggestions. I also express my sincere thanks to Mr. Latufur Rahman Sarker, Chief Advisor, Islamic Bank and Mr. Syed Ali, General Manager, Banking Control Department, Bangladesh Bank for going through the draft thesis and making valuable suggestions.

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STRUCTURE OF THE THESIS

There are eight chapters in this thesis. Chapter one provides an intorduction to the study. The problem to be studied, objectives and hypotheses are outlined. The potential importance of the study is also explained in this chapter.

Chapter two presents a comprehensive review of the literature on working capital management. After reviewing the existing literature, the chapter also enumerates the salient features and gaps of existing knowledge.

Chapter three is also a kind of review of literature focused on financial modelling. It covers a comprehensive conceptual analysis about financial modelling and relevant concepts and definitions relating to working capital management.

The methodology of the research is presented in detail in chapter four. It covers the selection of samples, sources and collection of data. Explanation on designed questionnaire is also given in this chapter.

Chapter five is the first chapter which gives analysis and reports of the findings of the study. It also includes the

detailed analyses and findings of the investigations into the three selected public sector jute mills and three public sector cotton textile mills seperately based on time series and cross sectional data.

Chapter six gives a comparative picture between public and private sector jute and cotton textile industries. It also covers detailed analysis and findings based on time series and cross sectional data between public and private enterprises of jute and cotton textiles industries respectively.

Chapter seven presents our innovated research based Model, which was the ultimate objective of the study. The real contribution of this study is our descriptive operational model on working capital management of public enterprises in Bangladesh is portrayed in this chapter.

Finally, a summary of study and conclusions are presented in chapter eight. In addition, this contains discussions on the policy implications of the study as well as suggesting directions for further research in the field.

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CHAPTER- ONE

INTRODUCTION, PROBLEM STATEMENT, OBJECTIVES & HYPOTHESES

1.1 INTRODUCTION

Both the jute and cotton textile industries of Bangladesh are labour intensive in nature export oriented and import substitute respectively. Their importance, background and problems are presented below simultaneously.

1.2 JUTE INDUSTRY

1.2.1 Importance

the most significant and agrobased industry of Jute Bangladesh plays an important role in the economy of Bangladesh. About 40 percent of the total foreign exchange of the country is earned by exporting jute and jute goods alone. Started in midfifties jute industry grew up in the background of abundance of locally available raw material (i.e. raw jute) and cheap labour to dominate the industrial scence of Bangladesh, though its share industrial output has declined with expansion of the industrial base. In the year 1987-88 the total actual production of jute goods was 244.2 thousands metric ton in thirty five jute mills under Bangladesh Jute Mills Corporation(BJMC) during the first nine months and estimated production was 333.3 thousands metric ton during the whole year. The third plan production

The Planning Commission, Ministry of Planning, Govt. of Bangladesh, The Third Five Year Plan(1985-90). Table 2, P 77.

^{2.} Ministry of Finance. Govt. of Bangladesh, Bangladesh Economic Survey, p 97-98.

target has been set at 650 thousand tons of jute goods, but much depends on nature and competition of world demand and internal supply of raw jute and there have consequences with respect to the health of the industry.

The total quantity of jute goods exported was 285 thousands metric tons and value thereof was Tk. 5319 million in 1987-88.

Despite the emphasis on the rapid development of the jute industry in Bangladesh most of the jute mills had incurred heavy operating losses since March, 1972. During the last five year ending June, 1988, total accumulated loss of 77 jute mills both 5 in public and private sector stood at Taka 781.68 crores. In 1972 the Jute Mills Corporation started with a negative net working capital of Tk. 52.49 million and during 1986-87, total equity stood at negative balance of Tk. 2962.92 million and the 6 erosion of equity was primarily due to these heavy losses.

One of the most serious problems for which the present jute industry has been suffering is the working capital management 7 problem.

^{3.} Ibid, p 239.

^{4.} Ministry of Finance, Govt. of Bangladesh, Bangladesh Economic Survey, 1987-88, p 101.

^{5.} The Daily Bangladesh Observer, 9th August, 1988.

^{6.} Bangladesh Jute Mills Corporation -Annual Report 1986-87

^{7.} S.U. Ahmed, "A critique of Industiral management in Bangladesh": The Business Review, Vol.2, No.1, Jan.-April, p 69.

1.2.2 THE PROBLEM

Fresently jute industry of Bangladesh have been suffering from multifurious problems like inefficient management, corruption, disruptive union and social leaders influence, interntional competition of jute goods, shortage of spares, electricity failure, non-availability of coasters and burges and working capital management.

Among all the problems of the financal managment of jute Industry of Banglasesh, the problems of working capital management have probably been recgnised as one of the most cruicial one. The fact is that working catipal is regared as the life-blood of a business or industry. Just like blood-stream in the human body. working capital always helps a business/industry concern to gain vitality and life strength. profitability and solvency of a business depend greatly on the proper and efficient management of working capital, while its inefficient management may lead not only to chronic financial crisis, but to an ultimate closure of business. A deeper understanding of the importance of working capital management helps a concern to maximise financial return on the minimum investment. The term Working Capital for the purpose of our study has been defined as the amount of fund which is utilised in financing day to day operations, i.e. gross current assets, such as cash, inventory, accounts receivables, and short-term investments and advances.

Jute industry plays an important and vital role in the economy of Banglasesh as it is the main largest agrobased, labour-intensive and export oriented industry of Bangladesh. By exporting jute goods alone, the country earns foreign exchange about 25% of the total export earnings. After the liberation of Bangladesh, all the jute mills in Bangladesh were nationalised and brought under the management of Bangladesh Jute Mills Corporation (BJMC) on the 26th March, 1972. since nationalisation, the jute industry is in the grip of serious working capital problem. The problem gradually turned into grave with the incurrence of continuous losses went on increasing and stood at Tk. 360.2 million by the end of Second five year plan. (i.e. at the end of 1985). The planning commission, Govt. of Bangladesh, in its two year plan mentioned that increased cost of raw jute, higher prices of stores and spares, huge increase in interest on bank borrowings, increase in wages and salary structure were mainly responsible for the heavy losses in the jute mills under BJMC.

^{8.} Ministry of Finance, Govt. of Bangladesh, Bangladesh Economic survey, 1987-88 p1 (Calculation of percentage have been made by us.)

^{9.} The Flanning Commission, Govt. of Bangladesh, <u>The Two Year Plan.</u> 1978-80.

^{10.} The Planning Commission, Govt. of Bangladesh, <u>The Two</u> Year Plan, 1978-80.

Authorities on financial managemet are of the opinion that one of causes of losses incurred by an enterprise can be located in its problem of working capital management.

The report of the liquidity gap committee on jute mills appointed by the Government in 1972-73 showed that there was a negative actual net working capital of Tk. 524.7 million in the 12 jute industry of Bangladesh.

The Annual Reports of BJMC of 1972-73, and 1977-78 mentioned that the jute mills were in difficulty with their liquidity position due to less turnover and heavy operating 13 losses. The stock-level of the jute industry increased year after year which blocked working capital, thus necessitating the jute mills to seek cash credit from commercial banks as the only 14 means of woking capital.

^{11.} Charles W. Gerstemberg, (1962) Financial Organisation and management of business, Bombay, Asia publishing House, P291

^{12.} Liquidity Gap Committee, Govt. of Bangladesh, Nationalised industries Division, Report on liquidity Gap of nationalised Industries, 1973.

^{13.} The <u>Annual Reports</u> of BJMC,1972-73,p47,1976-77,p29 & 33.

^{14.} BJMC - Annual Report, 1975 - 76,p1.

The British Mission to Adamjee Jute Mills, while analysing the net working capital suggested that excessive accumulation of finished goods stock should be minimised through better inventory 15 control.

Ahmed in his study of the profitability of the jute industry in Bangladesh found that all the jute mills had been 16 incurring substantial losses in the post nationalisation period.

Habibullah carried out a study on "Industrial efficiency and profitability of jute mills in Bangladesh (1974) where he mentioned that working capital management was one of the 17 sickening probnlems of the jute industry of Bangladesh.

- 15. The British Mission to Adamjee Jute Mills, "Balancing Modenisation and Renovation Program" Dhaka, 1968.
- 16. Qazi Kholiquzzaman Ahmed(1973) " An analysis of the Frofitability of the jute industry of Bangladesh in Post-liberation period "BIDS. Vol 10, p4.
- 17. M. Habibullah,(1974)" <u>Industrial efficiency and profitability of jute mills</u> in Bangladesh. Bureau of Economics Research, Dhaka University, p1.

19 21 18 20 22 23 Mozaffar, Zaman, Khan, Hasan, Raquib, Awal, Mandal and Saha, in their respective studies also found the problems of working capital mangement in the public sector jute Mills in Bangladesh. The UN Conference on trade and development emphasised that syntehtic substitutes had led to a world wide decline in the consumption of jute - a plant whose fibre is used mainly in carpeting twine and packing. The expected continuation of this trend threatens to erode export earnings of Bangladesh where 75 percent of the foreign exchange earnings comes from jute industry. The requires a specific indepth analysis.

^{18.} Muzaffar Ahmed, Industrial Finance in Bangladesh, Dhaka University, 1976 p31.

^{19.} M.M. Zaman, Ibid, p89.

^{20.} S.I.Khan, "Financial Problems of jute Industry" Problems of jute sector" BJMC, 1978, p56.

^{21.} M.N. Hasan, The Cost & Management, July 1978, Vol 5, p33.

^{22.} Rakibuddin Ahmed, BIDS, 1978, p3.

^{23.} A.K.Awal, Bangladesh Babostapana, Dhaka, Abu Publication 1980, p85.

^{24.} A.Mandal, <u>Productivity of Jute Mills in the Khulna Zone of BJMC</u>

^{25.} A.C.Saha, (1982) A study of some problems of working capital management in the jute mills of Dhaka Zones, Bangladesh, unpublished, Ph.D.Thesis, Baroda, p420.

^{26.} Editorial in Economic Times, Jan. 25, 1981.

Another study established that an average gross return from the export of all jute manufacturers in the year 1969-70 was about 12 percent. Both these calculations included export bonus scheme earnings, but without bonus earnings there would have been 27 considerable losses. The First Five Year Plan of Bangladesh provided that all the jute mills would have to guarantee a fixed return of 7.5 percent on the original investment inclusive of 28 loan and equity.

The planners, the Economists, the top executives of BJMC and finally the Govt. of Bangladesh have underscored the need for Working Capital management problem of the Bangladesh Jute Mills Corporation. The postponment of the solution of Working Capital problems in the jute mills is the postponment of the industrial efficiency and improvement in productivity.

- 27. Qazi Kholiquzzaman Ahmed, "Was the jute industry profitable in Pre-liberation days"? The Business Review, Vol. 3, No.2, Apr. June, 1977, p 30.
- 28. The Planning Commission opcit, p259.
- 29. Raihan sharif, <u>"some financing and related issues in Bangladesh devlopment context"</u> Industrial finance in Bangladesh, Dhaka University,1976,p29.

1.3 COTTON TEXTILE INDUSTRY:

1.3.1 IMPORTANCE

Cotton textile industry plays an important role in the economy of Bangladesh. Its role has been felt since the very dawn of civilization and is considered to be unique in human life. Textle has been historically the pathblazer Cotton industrialisation, starting from the industrial Revolution in 1779 down to the present time. Success story of Japan. Hongkong. South Korea and many other countries in economic development in the Fost-World War II period started with the Cotton Textile 30 industry. The Cotton textile industry provides clothing, which is a basic human need ranks next to food only in order of importance. The industry occupies a significant position in the economy of Bangladesh and in terms of value added and employment, cotton textile industry comes only after jute industry. It contributes about onefourth of total GDP and provides employment around 700 thousands people. It is one of the most important labour intensive and import substitute industry of Bangladesh.

In the Third Five Year plan, the Government of Bangladesh has stressed much more importance to devlop the Cotton textile indistry in view of its large contribution to employment and to

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^{30.} Planning Commission, Government of Bangladesh, Dhaka: The <u>Third Five Year Plan. 1985-90</u>, p 240.

^{31.} Ibid, p 241.

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cloth supply, mainly to rural consumers, and the main focus of the Third Five Year Plan is to ensure harmonious development of 32 the modern textile sector with the handloom sector.

1.3.2 THE PRESENT POSITION OF THE COTTON TEXTILE INDUSTRY OF BANGLADESH

Most of the textile mills in Bangladesh were nationalised on March 26, 1972, under the presidential order No. 27, of 1972. The Bangladesh Textile Mills Corporation (BTMC) came into being on the same date with the initial share capital of Tk. 5 lakh fully paid up by the Government. In 1976, however, a seperate ministry for the textiles had been created and the BTMC accordingly been placed under its direct control.

According to the second schedule of the Nationalisation order. in all 64 Textile units were placed at the administrative control of Corporation. Subsequently some more mills were vested under the control of BTMC, increasing the total 33 number of enterprise to 74. subsequently Government distrivested 10 specialised mills having installed capacity during Fevruary, 1977 to November, 1979. Another 4 Textile mills having capacity of 82,440 spindles, and 2046 looms were put under liquidation 34

Ibid, p4

32.

34.

Ibid, p 241.

33. BTMC, Annual Report 1984-85, p4

from February, 1982.

In pursuance of New Industrial policy, doclared by the present Government in June 1982, 24 operating textile mills having spindles of 4,63,816 and 3059 looms were transferred to 35 the former Bangladeshi Shareholders,during 1982-83 to 1984-85.

BTMC had 34 textile mills and specialised mills in operation as on 30-6-1985. The installed capacity in operation during 1984-85, was 6,61,864 spindles and 3111 looms. Out of two textile mills under construction during 1984-85, Magura Ttxtile mills having installed capacity of 25056 spindles had gone into trial production. The present strength till 1988, there are 41 textile mills under BTMC. The accumulated loss of the Corporation 37 during the year 1987-88 was estimated at Tk. 3000 lakhs. In 1986-87 BTMC had a negative net working capital position amounting 38 Tk.76.90 crore.

1.3.3 PROBLEM STATEMENT :

Among components of working capital inventories occupy a strategic position in the structure of working capital of BTMC enterprises. The profitability of a concern depends considerably

- 35. Ibid p 4.
- 36. BTMC Monthly MIS Report, October, 1988, pp 2-3.
- 37. Ministry of Finance, Govt. of Bangladesh, Bangladesh Economic Survey 1987-88, p 66.
- 38. BTMC, Annual Report, 1986-87, p 4.

upon the turnover of the inventories subject to the existence of margin. of all the components of the working capital, the value of the inventories is usually found to be the highest. The selected cotton textile mills the average inventories constituted about 65 percent of the current assets as shown on the Balance Sheet drawn on 30-6-87 (Table 5.5).

The "Daily Ittefaq" in its editorial in 27th september, 1987 reported that there were 17110 bales of Yarn and 11213 bales of cloth had been lying as unsold stock in the stores of Textile mills of BTMC. During the field survey, it has come our notice, that most of the BTMC enterprises do not follow the standard norms of inventory in practice, as per the guidelines of "Stores Manual" prescribed by BTMC for controlling their various items of inventories, such as, raw materials, work-in-progress, finished goods and stores and spares. It appears, therefore, that management of inventory most effeciently and effectively is the challenging task faced by the public sector textile mills under BTMC. About 39 percent of working capital is blocked in receivables. As a result of blockage of funds in inventories and receivables, there is cash shortage in cotton textile industries. Among all the problems of financial managment, the problems of working capital management have probably been recognised as the most crucial one.

However, the planning Commission, Government of Bangladesh, Ministry of Textiles, World Bank, BTMC Authorities, Mills

Management, all have shown concern to the problems of wokring capital management of public sector cotton textile mills. Under the context, the present study is an attempt to fill up the gap of knowledge into this end.

1.4 THE SCOPE AND OBJECTIVES OF THE STUDY :

The main purpose of the present study is to examine the problems of Working Capital Management in the 3 (three) selected public sector jute and 3 (three) cotton textile mills under the Bangladesh Jute and Textile Mills Corporations respectivly and to design/suggest model which might be helpful in improving the working capital management by way of better planning and control of the same in the public sector jute and cotton textile mills in particular and public enterprises in general.

The findings of this study will be presented in the form of a model. Attempt has also been made to compare the three public sector jute mills with three private sector mills and three public sector cotton textile mills with three private sector mills for the purpose of investigation. However, the following specific objectives are enumerated below:—

- 1) To ascertain the existing system of the working capital management in the public sector jute and cotton textile mills in Bangladesh, so far the management of Working capital is concerned.
- 2) To analyse the efficiency of Working Capital management in the selected jute and cotton textile mills from the period 1982-83 to 1986-87.

- 3) To indentify the problem of working capital management in each of its, components, i.e. inventory, receivables, and cash.
- 4) The desire to test some of the observations that have been made about the problems of working capital Management by some research scholars, planners and economists.
- 5) To see whether there is any specific policy formulated by the anothority for the working capital managment of the public sector jute and cotton textile mills in Bangladesh.
- 6) To see whether there are specific factors responsible for the management of working caputal for the public sector jute and cotton textile mills as compared to private sector.
- 7) To see whether it is possible to lay down an operational model or norms for the management of working capital for the public sector jute and cotton textile industries in Bangladesh.

1.5 THE HYPOTHESES :

In order realise the objectives of the study and our review of literature (Ch. 2). the following specific hypotheses and sub-hypotheses were developed for verification through empirical investigation.

1. Investment in inventories is disproportionally high, which, creates working capital management problem in public enterprises.

For proper discussion, the hypothesis has been divided into the following sub-hypotheses:

i. Unplanned procurement of raw materials eats up a big chunk of working capital of jute mills;

- ii. There is inefficiency and corruption in procurement, storage and usage stages of raw jute in public sector jute mills;
- iii. Enterprise management of cotton mills are weak and incompetent in understanding the economic and diseconomics of raw cotton procurement;
- iv. Low inventory turnvoer ratio of finished goods is responsible for working capital management crisis to a large extent;
- v. Low demand of jute goods and serious compeititon in international markets a huge stock of finished goods is piled up;
- vi. In cotton textile enterprises, a huge stock of finished goods accumulates due to lower purchasing power of poorer section and clamour for foreign cotton goods by the richer section of consumers;
- vii. Procurement of stores and spares is more complicated in cotton textile mills compared to jute mills.
- 2. For poor collection policy, a huge fund is blocked in receivables, which creates working capital problem in public enterprises.

For proper discussion, the hypothesis has been divided into the following sub-hypotheses:

- For poor collection policy, a huge fund is blocked in trade debtors, which creates receivables management problem;
- ii. Management are reluctant, and in some occassion become helpless in realising advances from employees because of undue Government order under the pressure of union and social leaders, as a result a huge fund is blocked in advances over a long period.

- Cash planning is ineffective in public enterprise.
- 4. Private sector jute mills show higher prices of raw jute cost in order to extract undue concessions from the Government in terms of compensation for loss, to get cheap bank loan and also to evade payment of taxes.
- Undue demand of fringe benefits by unions at the instigation of management and social leaders enhanced undue wage and salary costs.
- Cost accounting and cost control system is very inadequate.
- Lack of coordination between production and sales affects working capital management prolem.
- 8. There is no basic difference on the level of efficiency between public and private sector enterprises with respect to inventories, receivables and cash components of working capital management.
- 9. Public enteprises are overnamed either by ghost workers/or by surplus management people of the disinvested mills, and some workers, especially union leaders do not work at all, which increases undue wage and salary costs in public enterprises compared to private sector.

1.6 Value of the Research

As has been already stated, the present study attempts to analyse the problems of working capital management in the public enterprises in Bangladesh, especially in jute and cotton textile industries under administrative control of Bangladesh Jute and Cotton Textile Mills Corporations respectively. The study also suggest a model which will be helpful in improving the working capital management by way of better planning and control of the same in the selected public sector jute and cotton textile

enterprises in particular and public enterprises in general. Attempts has also been made to compare the efficiency of working capital management between public and private sector jute and cotton textile enterprises. The findings and recommendations will not only be an original contribution to knowledge, but also implications for the Government, planners, bankers and financiers, various related agencies, jute and textile mills corporations and the management of public enterprises.

The present study provides a more clear and coherent picutre of the different components of working capital position, i.e. Inventories, receivables and cash and analyses the problems of each component with suggestive solution in the form of a descriptive model. This study will also have implications for the existing controversy over efficiency between public and private sector industries and will help understand whether private sector enterprise is better in managing their working capital compared to public sector or vice versa, and whether disinvested private enterprises are earning higher profits than public enterprises or vice versa.

CHAPTER- TWO

LITERATURE REVIEW

2.1 Introduction

The purpose of literature review in the area of working capital management of a developing economy like Bangladesh public sector enterprises is to seek academic validity for the present study and indicate its potential contribution.

A handful of studies have been carried out to analyse the economics of public enterprise, especially in jute industries, but only a few research studies have been undertaken on the working capital management of jute and cotton textile industries in Bangladesh.

2.2 JUTE AND COTTON TEXTILE INDUSTRIES:

Rehman & Muzaffar in their book "Public Enterprise in an Intermediate Regime" stated the specific problem to raise adequate working capital by public enterprises to finance running costs in 1972-73 and estimated the liquidity gap of BJMC and BTMC to the tune of Tk.5247 lakh and Tk. 290 lakh respectively.

^{1.} Rehman Subhan & Muzzafar Ahmed(1978)Public Enterprises in an

<u>Intermediate Regime</u>-BIDS/496-498, Table 22.5.

N.B:-10 lakh = 1 nillion.

In his study on working capital problems of jute mills during 1975-76 Rahman mentioned that jute mills were facing 2 acquate shortage of working capital. He stated that a large portion of the working capital blocked in finished goods due to non-availability of shipping space, coaster and barges and delay in shipment as well as low demand of jute goods in international market due to synthetic products.

Alimullah's study on Inventory Management in 1969 confirmed the hypothesis that the jute industry did not establish the 3 minimum stock level of inventory based upon probable needs.

Ahmed's (1976) study on financial structure of jute industry also mentioned that no precise estimate of working capital were 4 available. There was a liqudity gap in the jute mills of Bangladesh during 1972-73. He mentioned that the total working capital requirements of Bangladesh Jute Mills Corporation were Tk.12505 lakhs and that of net working capital requirements were Tk. 3462 lakhs in 1972-73.

^{2.} A.H.M. Habibur Rahman(1976) <u>Industrial Finance in Bangladesh</u>
<u>Bureau</u> of Business Research, Dhaka University.

^{3.} Alimullah Miyan (1969) Inventory Management in East Pakistan(Bangladesh) Dhaka: Bureau of Economic Research, Dhaka University, PP 10-31.

^{4.} Qazi Kholiquzzaman Ahmed (1976): Jute Manufacturing Industry of Bangladesh published Ph.D. thesis, London School of Economics.pp 175-180.

Habibullah (1974) studied 16 jute mills taking 5 years 5
Annual reports. His study was not carried out specifically on the working working capital management but mentioned among other things that working capital was the most sickening problems for the jute industry of Bangladesh. He also pointed out that one of the causes of low profitability in the jute mills in Bangladesh was excessive accumulation of current assets in the form of inventory and receivables.

Abdullah's study on six textile mills in Bangladesh during 1975-76, indicated that the slow movement of the inventory greatly affected the liquidity position and careated excessive 6 dependence on bank finance for working capital requirements. He also mentioned irregularities and mis-management in the field of working capital management.

Bangladesh Shilpa Rin Sangstha conducted a sample survey on 16 jute mills in August-September,1973 to determine the cost structure and showed that loss per ton hessian, sacking and 7 carpet backing were Tk. 400, Tk. 268 and Tk.733 respectively. The negative margin might have a direct bearing on the liquidity gap and poor management of working capital.

^{5.} M. Habibullah (1974) Some aspects of industrial efficiency and profitability of the jute mills in Bangladesh. (Bureau of Economic Research, Dhaka University, pl.

^{6.} A.B.M. Abdullah(1977) "Working Capital Management", <u>The Business Review</u>, Dhaka University, Vol.1, Jan. - March, p 114.

^{7.} Bangladesh Shilpa Rin Sangstha (1974) - Annual Report 1974-75 Vol.3. No.I, P 11-19.

Battacharjee's study on the accumulation of current assets in the jute industry of Bangladesh during 1976-77 indicated that excessive current assets valuing Tk. 99 crores were accumulated 8 in the jute industry of Bangladesh.

BJMC in its 5th Annual Report mentioned that the corporation started which an accumulated loss of Tk. 14520 lakhs on 1.7.1976 which amount increased to Tk. 19837 lakhs in 1976-77 despite higher production due to uncontrollable factors and high cost of raw jute, higher overhead and low selling price of jute goods in 9 international market.

Alamgir in his stury of public sector enterprises of Bangladesh including the problems and prospects of jute industry threw light on the problems of working capital management created as a result of bottleneck in the supply of raw jute, adverse liquidity, lack of internal finance, excessive dependence on the bank borrowings shortage of foreign exchange and higher cost of 10 production. He also suggested cost reduction, so that, the need for export subsidization is minimised at least.

^{8.} Bureau of Business Research, Current Assets in the jute industry of Bangladesh (1976-77) unpublished Research Study, Dhaka University, PP 20-30.

^{9.} Bangladesh Jute Mills Corporation (1976-77) Annual Report,p1.

^{10.} Mohiuddin Alamgir(1974) Nationalised industries in Bangladesh -problems and prospects. The Bangladesh Development Studies(BIDS) Vol.2, No.3, pp 675-679.

Ahmed in another study indicated that the overall financial performance of the jute industry was disastrous, due to power failure, absence of law and order, and inefficient institutional 11 arranagements.

Khan in a study on inter-firm comparison of the 44 jute mills based on data of 1972-73 only relating to its profitability, solvency liquidity and overall viability indicated that huge stock piling created the shortage of working capital 12 problems.

Ahmed in another study of the First Five Year Plan physical target for the jute industry in Bangladesh men tioned that out of 792000 tons installed capacity 446170 tons were actually produced in 1972-73 which reproceduted 56.85 percent of the capacity utilisation against 74.13 percent in 1969-70. The causes of underutilisation of capacity were due to non-availability of spares, frequent failure of power supply, problems of working capital and transport problems.

^{11.} Qazi oliquzzaman Ahmed(1973) A note on the capacity utilisation in the jute manufacturing industry of Bangladesh, Bangladesh Development Studies, Vol. 1, No.1, Jan. pp 103-110.

^{12.} M.Khan(1977) "The use of inter-firm comparison in performance evaluation". The Cost & Management Accountants, Jan.-June, pp 7-16.

^{13.} Qazi Kholiquzzaman Ahmed(1977) "Was the jute manufacturing industry profitable during pre-liberation days. The Business Review. Dhaka University, Vol.3, No.2, April-June, p 30.

Haque's study indicated that the jute industry failed to estimate working cpital requirements and inventory policy was poor in most of the mills. Receivables policy appeared to be 14 unsound in most mills. The lack of planning and controlling of working capital resulted adverse on the profitability of all the nationalised enterprises including the jute industry.

Saha carried out the most important research study on the "Problems of working capital management in the jute mills of 15 Dhaka Zone.

He indicated that the accumulation of Tk.845.53, Tk.1017.13 lakhs and Tk.1916.81 lakhs in work-in-progress, finished goods and stores and spares respectively for the period under study blocked the working capital.

Hossain (1984) carried out an important research study on the Management of working capital in cotton textile industry of 17
Bangladesh. His findings showed that the size of

^{14.} Jahirul Haque(1981) Financial Planning & Control of public sector enterprises in Bangladesh unpublished Ph.D. thesis, Dhaka University.

^{15.} A.C. Saha(1982) "Problems of working capital management of jute mills of Dhaka Zone" - Bangladesh, an unpublished Ph.D. thesis, M.S. University of Baroda, India, p2.

^{16.} Ibid p 420-42p-421.

^{17.} A.T.M. Tofazzal Hossain(1984) "Management of working capital in cotton textile industry of Bangladesh" unpublished Ph.D. thesis, University of Kalayani Bengal, India P 75-76.

working capital for the studied period varies from year to year in all the selected units. The turnover is very low, inefficient handling of the individual units has resulted in losses in most of the selected units.

S.M. Hussain in a study in 1983 on the "Depreciation cost in Bangladesh jute industry" mentioned among other things the problems of working capital management for which the jute 18 industry is suffering.

Sharma carried out research study on Financial planning in 19

the Indian public sector from 1961-62 to 1970-71. The study although not directly related to working capital management, but his findings among other things indicated that size of the working capital grew in public enterprises because of the huge increase in current assets and mainly because of excessive accumulation of inventories.

^{18.} S.M. Hussain1983) "Depreciation Cost in Bangladesh Jute Industry-A case study with special reference to price-level changes, unpublished Ph.D. thesis, Banaras Hindua University.

^{19.} B.B. Sharma(1971) Financial planning in the public sector -A management approach, Delhi, Vikas publishing House, p 127-128.

N.B. 10 million = 1 crore

Sataymarayan made a notable study on the financing of public enterprises of Tamil Nadu. The analysis of data was for 1976-77 20 only. His findings revealed that increase debt level led to losses or reduction in net profit and shortage of working capital. He, however, suggested for converting long term loan to equity and issue of additional share capital for increased volume of working capital.

Chowdhury carried out on inventory accumulation and productivity in public enterprises in India during 1961-75 and mentioned that excessive investment in inventory in public enterprises had resulted in blocking up of huge amount of working 21 capital. He showed that yearly value of surplus inventory was Rs.673 crores and mentioned that the cost of carrying excess inventory during the last 15 years amounted Rs. 1215 crores.

Shing's study of the inventory investment in public enterprises of India during 1960-61 to 1972-73 indicated that about 90 percent of the working capital of most of the public enterprises was blocked in inventories as against 30 percent in 22 industrially advanced countries.

^{20.} Satyanarayan(1979) Finances of Public Enterprises, Delhi, The Chartered Accountant, Vol.28, No.1, pp 49-56.

^{21.} R.K.Chowdhury(1978) Inventory accumulation and productivity in the public enterprises of India, in K.R. Gupta(ed) Organisation and management of public enterprises, New Delhi, Atlantic publishers, Vol.1, pp 206-212.

^{22.} A Singh(1978) Inventory investment in public enterprise, Ibid R.K Gupta (ed), <u>Organisation and Management</u>, New Delhi, Atlantic Fublishers and Distributors, Vol I, pp 106-110.

Ramamoorthy made a study on the position of working capital in the 159 comapnies including basic industry, chemical, 23 pharmaceuticals, rubber cand vegetables industries in India. His findings showed that working capital was excessive, in inventories compared to the working capital norms of Tandon study group.

Mishra carried out a research study on the "Problems of working capital with reference to selected public undertakings in 24 India. His findings showed that excessive inventory resulted low profitability of public enterprises and the total inventory of the selected public sector undertakings was equal to 10 months cost of production during 1967-68.

Agarwal carried out an important study on the management of 25 working capital in India. On the basis of response by 34 companies. The study revealed that most of the Indian industries did not seem to have a comfortable position as shown by current and quick ratios.

V.E.Ramamoorthy(1978) Working Capital Management, Madras, Institute of Financial Management, pp 223-229.

^{24.} Mishra, opcit pp 200-214.1

^{25.} Agarwal opcit pp 256-270.

Sharma carried out study on working capital management in 26
Aditya mills, Rajastan. The study was based on the analysis of Annual Balance Sheet and income statements of the cotton textile mills during 1963-78. The study mentioned that the entire working capital was blocked in inventory. This adversely affected the liquidity position as a result of lower current and quick ratio.

Rao's study was based on the problems of inventory 27 management in India. His study estimated Tk.15000 crores invested in inventory in Indian industries. Inventory constituted more than 90 percent in current assets. He suggested better inventory control system.

Desai made a research study on the financial structure of cotton textile mills of Ahmadabad for a period of 10 years and observed that the mills depended heavily one bank credit for 28 working capital.

^{26.} K.R. Sharma(1980) Analytical view of working capital management in Aditya Mills, Rajastan (Paper presented in the 8th annual conference of accounting association held at Warrangal, A.P. on 22nd/23rd March.

^{27.} Rao(1971) Inventory Management in public sector enterprises in India in R.K. Nigam(ed) Management of public sector undertakings, Vora and Co. Ltd., p 180.

^{28.} Desai(1980) Financial structure of the cotton textile mills Ahmadabad, unpublished Oh. D. thesis, Sardar paddumi, p 75.

Mehta carried out a study on the inventory accumulation in 29 public sectors undertakings of India during 1961-62 to 1968-69. His study revealed that there was heavy inventory accumulation in the public sector compared with that of private sector. He suggested that effective inventory management would improve the financial performance of the mills thereby reducing the pressure on bank credit as a means of working capital.

2.3 SALIENT FEATURES AND GAP

A review of the existing literature on the subject has shown that there are gaps in our knowledge in the existing enterprises in Bangladesh. One of the objectives of this study would be to fill up the gaps by presenting factual information based on objective analysis for enabling policy formulators to make correct decisions about the use of working capital.

The present study has identified gaps in our knowledge about the working capital management in the following areas:-

1. Any study has rarely been conducted so far on the designing an operational model or norms of working capital management for public enterprises in Bangladesh, particularly for jute and cotton textile industries.

^{29.} Mehta(1970) "Inventory Accumulation in Public Sector Undertakkings of India", in N.K. Paraj(ed) Performance of Public Enterprises, Bombay: Popular Prakashan,p 37.

- 2. A comparative position of working capital management for public and private sector jute and cotton textile industries have not been done so far after disinvesting 36 jute and 27 cotton mills from nationalised sector to private sector as per the new industiral policy of 1982 of the Government of Bangladesh.
- In previous studies, effective cost control and cost reduction system have not been incorporated.
- 4. Studies have rarely been carried out with an objective to prepare a profile on finance managers competence.
- 5. No study have been done so far on capital structure of public sector jute & cotton mills in Bangladesh and its impact on working capital.
- 6. Study on working capital management using FACT Method of financial analysis is also not done so far.

CHAPTER-THREE

FINANCIAL MODELLING AND RESEARCH FRAMEWORK

3.1 INTRODUCTION.

The objective of this chapter is to present a comprehensive conceptual analysis about financial modelling and relevants concepts and definitions relating to working capital management. It will help to analyse the working capital management and to develop a descriptive operational working capital management model which is a major objective of the thesis.

3.2 THE NATURE OF MODELLING

A financial model is a set of descriptive or mathematical statements that expresses the system of relations and links between the firm's environment. its decisions and actions, and its objectives. Webster define a model as "a small copy or immutation of an existing object; or a preliminary representation of something, serving as a plan which the final object is to be constructed. However, in a financial modelling the real object of modelling is the set of interrelationships and linkages between

James R. Morries(1987) Financial Modeling, DowJones Irwin, p 81.

^{2.} Ibid, p 80.

the firms objectives. A financial model may be a set of descriptive or mathematical statements expressing the system of relations and linkages between the enterprises environment, its decisions, actions and objectives.

A financial model of an Organisation is helpful and sometimes essential because of complexity of the relationships between the firm's financial variables. To analyse short-term, day to day operating decisions a detailed analytical model is necessary which shows how individual operating decisions affect the position of an organisation. A model is mainly intended for analysis of decisions concerned with broader policy that affects the firm's over a longer planning horizon would show only the broadest detail about an Organisation.

Financial Models serve the needs of management. It is helpful and sometimes essential because of the complexity of the relationships between the firm's financial variables. For some problems it may be possible to formulate the general direction of the result of a decisions, but because of complex relationships, it may be impossible to assess the magnitude of the effect without the help of a model. However, a properly structured model can portray the links between the management decisions, and the firm's objectives in as such detail as is necessary to analyse a decision alternative. For some problems it may be necessary to develop a very detailed descriptive model; but in some cases too much detail may be confusing and unnecessary.

3.2.1 THE IMPORTANCE OF MODEL

The importance of modelling is enumerted below:

- (1) It enables management to try out its decisions on this small copy of the firm without subjectting the firm itself to management by trial and error.
- (2) It forces the modeler and manager to systematize their thought.
- (3) Financial models can show the linkages, between the firm's operating environment, management decisions and potential results of the decisions.
- (4) It allows management to analyse more carefully and to explore how their decisions relate to their overall objectives.
- (5) The modeling process itself is beneficial to management as it tends to force the planner to consider systematically the interrelationshps between a segment of a firm and th se between environment, decisions and results.
- (6) The process of building the model forces one to think carefully about the complex relationships between decisions and financial variables that constitute a firm.
- (7) The financial planning model provides the framework for systemmatically tracing out the result of a decision.
- (8) Finally it helps the managers to use their talents more effectively for the broader issues concerning themselves.

3.2.2 THE APPLICATION OF MODELS IN FINANCIAL MANAGEMENT

There are two General approaches to financial modeling (1) Simulation and (2) Optimization.

Simulation models show the result of decision or action, while Optimization models solve for the decision that is best.

3.2.3 SIMULATION

Simulation is a process of immutation of the firm so that the consequences of alternative decisions, actions and strategies can be analysed. It enables the management to evaluate the consequences for implementing a decision. The simulation model is the link between the prospective decision and the hyothetical results. The simulation approach does not try to tell the which decision is best. Rather it allows the HERM to specify a decision. For example, suppose the decision being xconsidered is whether to finance a new investment project with equity by issuing new common stock, or to finance it with debt by borrowing from the bank. The typical simulation would trace through the consequences of each of these alternatives and present the users with sets of financial statements so that he can evaluate the results of decisions in terms of the financial status of firm. The simulation approaches of modelling have been used by Brown (1973), Bryant (1982), Bramer & Miller (1973), Davis(1973), Gershefski (1969), Gordon (1973). Hadley & Whiten (1963), Lifson and Blackman (1973), Liacascio (1972), Meyer (1977), Miller and Modigliani(1961), Miller & ORR(1966), Naylor (1973), Norton (1972), Orgler (1969), Robenson (1973), Schrieber(1970), Smith & Keith (1964), Johon Wiley & Sons(1985), etc.

^{3.} Ibid p 99

3.2.4 Optimization

An optimization model usually consists of an equation that expresses the objective or goal of the decision, and a set of equations and inequalities that represent the constraints. The decision variables would be the variables in the model that represent choices available to decisions maker. For example, the decision variables might include the amount to be borrowed to finance an inventory, the number of shares to be sold, and the level of investment in inventory. The purpose of optimization model would be to find the values of these three decision variables that would maximize the value of the common stock.

3.3. A LINEAR PROGRAMMING(LP) MODEL FOR THE PLANNING AND MANAGEMENT OF CURRENT ASSETS AND LIABILITIES:

One of the task of a financial manager is to develop and execute plans for managing current assets and current liabilities.

The essential features of linear programming model for financial management planning include the decision variables that represent the amounts or levels of the different decisions that the planner must make, the objective function that expresses mathematically the decisions and the objective, and the

^{4.} Ibid p 100

^{5.} Ibid p 102

constraints that express the various limitations on our 6 decisions. The main limitation of optimization (LP) Model that if there are too many constraints, there may be no solution that could simultaneously satisfy all the constraints.

3.3.1 LIMITATION OF LP MODEL

If too many constraints are imposed on model, the problem 7 may not be feasible. That is there may be no solution that could simultaneously satisfy all the constraints. In fact, the modeler should make every effort to keep the model as simple as possible with a minimum number of constraints and decision 8 variable.

As such, many individual model to deal with each element of working capital has been developed. Such as inventory model, cash model and receivables model. Moreover, a seperate model is developed for each component of inventory, i.e. ABC model for stores items, Economic order quantity (EOQ) for finished goods and raw material inventory and so on. Similarly, various models are used for managing cash, such as operating cycle model; EOQ model; stochastic model, cash budget model etc. For accounts receivables different descriptive credit policies have been developed.

^{6.} Ibid p 370

^{7.} Ibid p 370

^{8.} Ibid p 370

A brief description of individual models are given below:-

3.4 INVENTORY MODEL

3.4.1 ABC Model

Many firms find it useful to divide materials, parts, supplies, and finished goods into sub 11 classification for purposes of inventory control. Herbert J. Richmond designed this plan of concentration of the important items as control by importance and exception. The idea of ABC analysis lies in the recognition of the principles that all the items of inventories are not equally significant. ABC analysis is an inventory control techniques, which is an adaptation of Pareto's law and under the system, the various stores items of inventories are classified under the broad categories of A.B. and C. The criteria of categorising the various items ultimately differ from industry to industry and enterprise to enterprise. However, approximately "A" category of items constitutes only 5 to 10 percent of the total number of items but it accounts for 80 percent of the total value of the inventories, "B" class items constitutes 20 to 30 percent accounting for 15 percent of the

^{9.} Bhabatosh Banarjee(1987) Financial and Management Accounting, Sree Sarda printing, Calcutta, p 149.

total value and the rest 60 to 70 percent which comprises only 5 to 10 percent value have been classed as "C". The above selective inventory contorl method is typically branded ABC Model of inventory management. The ABC concept is to be implemented by Controlling A- items "Morethighly", than "B" items, and so on.

3.4.2 EOQ Model

The determination of economic order quantity is one of the main factors of inventory policy. If materials are purchased in large quantity the number of orders reduced resulting in lower ordering costs. But maintenance cost per year increases due to the larger volume of average inventory. The Economic Order Quantity (EOQ) balances the cost of maintaining inventory against the cost of ordering. Setting up of this level saves the task of re-calculating the quantities to be purchased each time. The Model is represented by following formula:-

Where A = Annual quantity to be used in units.

P = Cost of Placing per order.

i = Cost of carrying one unit of inventory
 for the whole year.

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The Model is used by Baumol and others.

^{10.} W.J. Baumol (1977) Economic Theory and Operations Analysis. Prentice Hall of India,4th edition, p.9.

3.5 CASH MANAGEMENT MODEL

Cash is the common purchasing power or medium of exchange. As such, it forms the most important component of working capital. Cash under the present context includes cash in hand and in bank deposits with drawable by cheques on demand and other securities that can readily be conserted into cash. There are three motives for holding cash, viz (i) Transactions motives, (ii) Precautionary motives and (iii) Speculative motives. Holding of Cash balance should be optimum, it should not be too shortage not too excessive. The level of cash balance should be maintained in such a way that the firm does not face difficulty in meeting its day to day commitments, and at the same time there should not be excessive cash which impairs the return on investment.

Various models used for determining self-imposed cash balance are as follows:-

- (a) Operating or Cash Cycle model:
- (b) Inventory model (EOQ model);
- (c) Stochastic model(miller-orr-model);
- (d) Probability model:
- (e) The cash budget model:
- (f) Cash flow statement model;
- (q) Fund flow statement model.

3.5.2 Miller-orr-Model:

If the failure is not known with certainly, application of EOO model does not become effctive. As such, attempt has been made to use other models to determine is stochastic and unknown in advnace. The miller-orr-model is one of the application of control theory and specifies two control limits-h as an upper 11 bound and zero amount as a lowr bound. The Model is presented in fig. 2

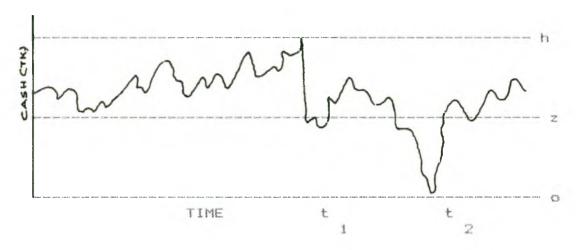


Fig.2 Miller-orr-Model.

In the figure, the firm's working cash balance fluctuates randomly in response to rendom inflows and outflows. At time t , the balance reaches the upper control limit 'h'. At that point h-z amount of cash is transferred to marketable securities. The balance continues to fluctuate, falling to zero at t , at which time z amount of marketable securities are sold or loan taken to

M.H. Miller and Orr, Daniel (1966) " A Model of the Damand for money by firms" <u>Quarterly Journal of Economics</u>, Vol. 80 pp 413-35.

augment the working cash balance. In the model, the minimum amount has been set at zero. But accordingly it should be higher than zero. In that case 'h' and 'z' would move up in the figure. The control limit model thus gives an answer in terms of maximum and minimum balances and provides a decision rule. The greater the variability, the higher the minimum balance. The optimum value of 'z', the return to point, for security transactions, is:

$$z = \sqrt[3]{3b \cdot 62}$$

2 = Variance of daily net Cash flow

i = interest rate per day on marketable
securities.

With the control limits the Miller-Orr-Model will minimise the total costs-fixed and opportunity costs of cash management.

Probability Model

If may be stated that the EOO assumes predicable cash flows, while the stochastic model is based on random cash flows. But in practical context, cash flows are neither completely predicable nor stochastic. They are rather predicable within a range. In that cash, probability distributions may be used for a range of possible outcomes and optimum cash balance may be accordingly ascertained.

^{12.} Bhabotosh Banarjee, op. cit, p. 194.

3.5.3 Cash Budget Model

A Cash budget model is a projected cash receipts and cash payments over a period of years. If starts with a given 'Cash balance' which may be either big or small. But the said balance is, in any case, desired to be the optimum balance'.

Therefore efficient cash management through effective cash budgeting supported by relevant and timely forecasts of cash may help:

- i) aiding in securing added working capital for smooth and unhindered running of the operations and planning for payments to creditors and shareholders;
- ii) easing strains of a cash shortage ;
- iii) facilitation temporary investment of cash;
- iv) improving the rate of return on assets; and
- v) providing funds for growth.

The cash budget is usally prepared as part of the overall annual firm budget, i.e. sales production, material, labour and overhead budgets. Hence, a cash budget may be prepared to show the level of bank loans which is necessary to support profit plan.

3.5.4 Cash Flow Statement Model

A cash flow statement shows changes in the financial position of a firm on cash basis. It, however, shows the net

R.K. Jacdioke R.T. Sprouse, Accounting Flows, Income, funds and cash, Prentice Hall Inc, Englewood cliffs, N.J.1965, p. 109.

effects of the various transactions of a firm during a period on cash basis and explains the causes of changes in cash position of a firm between two balance sheets dates. This statement is called cash flow statement because it shows the various sources and applications of cash during a period and their net impact of cash balance. The fund flow model was pioneered in United States in the late 1940's and early 1950's and was taken up in the early 1960's following the Radcliffe Report's cell for more detailed 14 monetary statistics.

3.5.5 Fund Flow Statement Model

Fund flow statement model is the 'statement of sources and application of funds' over two balance sheets period. This is also called 'statement of sources and uses of working capital'. In the words of Foulke, funds, in this particular type of statement, are what might be termed working to the capital funds as distinguished from actual cash funds.

^{14.} M. Shamsul Haque, Prices Policy, Accounting Methogology and corporate Financial Viability. published by IBA, Dhaka University, Ph.D. thesis, 1983, p 137.

R.A. Foulke (1957) Practical Financial Statement Analysis, New York, Mcgro Hill, p473.

The fund flow statement model helps to see--

- (i) the growth of the firm;
- (ii) its resulting financial needs, and

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(iii) the best way to finance these needs.

In fund flow statement actual cash flow while compared with the estimated cashflow acts as a tool for control of cash in the firm.

3.6 Control of Accounts Receivables

For accounts receivables management, mathematical models are very difficult to develop. The control of receivables has a significant inpact on the effectiveness of credit and collection policy and the control of working capital, complete information regarding, the performance of each control techniques or procedure is absolutely essential.

According to Walker, the various ways of controlling the 17 receivables are as follows:-

- (i) Receivables turn over ratio;
- (ii) Average collection period:
- (iii) Report of aging schedule of accounts:
 - (iv) Percentage of collection reports;
 - (v) Report of bad debts: and
 - (vi) Report of deliuquent accounts.

J.C.Van Horne (1985) Financial Management & Policy, Prentice Hall of India pvt. Ltd., p700..

^{17.} E.R.Walker & W.H. Baughn(1961) Financial Planning and Policy. New York, Harper & Row Inc. p 80.

Haque in his doctoral study also used the average collection 18 period technique to judge efficiency of receivables management.

3.7 FACT METHOD MODEL AND RATIO ANALYSIS

The literal meaning of 'FACT' is the financial analysis consultancy techniques. It comprises of two formation (i) calculation sheet and (ii) summary sheet (See Annexture-I). Calculation sheet format has two portion-one for recroding the profit and loss account information and the other for recording balnace sheet information. The summary sheet contains background and general information about the Company, as well derivation of 24 important financial and operating ratios under the gorups of General ratio, managerial performance ratio, Financial Performance ratio, Rating as an investment ratio, and cost breakdown ratio. Among the 24 selected ratios calculated under FACT Method, the most important ratios for working capital management are (a) turnover of working capital (sales/working capital), (b)current ratio(current assets/current liabilities), c) Liquid ratio (liquid assets/current liabilities), d) ratio of current debt to net worth, cost breakdown ratio, inventory turnover ratio(cost of sales/stock) etc.

^{18.} Jahirul Haque(1981) Financial Planning and Control in public sector industries in Bangladesh. Unpublished Ph.D. thesis. Dhaka University, pp 250-268.

Financial ratios are widely used at the international level under the auspices of the United Nations Organisation for the purpose of compiling and distributing information covering 19 significant ratios within different industry groups. Countires, such as West Germany, France, Holland, U.K., Norway, Canada and U.S.A. are all doing work on inter-firm Comparisons on a fairly 20 large scale using financial and operating ratios.

3.8. CONCEPTUAL FRAMEWORK OF WORKING CAPITAL MANAGEMENT

Working Capital Management involves the deciding upon the amount and composition of current assets and how to finance 21 these assets. These decisions involve trade off between risk and profitability. Resolution of the trade-off between risk and profitability with respect to the decisions depends upon the risk perferences of the management. Some western scholars define working capital management which involves all aspects of 22 administration of current assets and current liabilities. It

^{19.} Cole, op. cit., p 201.

^{20.} Ibid.

^{21.} S.C. Kuchhal (1982) Financial Management, An analytical and - conceptual approach, Eight(ed) chartanya publishing house, Allahabad, India, p 154.

^{22.} Weston & Brigham, Managerial Finance, 4th(ed) Holt International publication, pp 520-523.

generally depends on the determination of the requirements of working capital, financing the requirements and efficient utilisation of the components of working capital. Ramamoorthy provides an indepth definition and describes working capital 23 management as -

- (i) a selection of the appropirate sources for financing the current assets;
- (ii) prepardness to meet current obligations as and when they matures;
- (iii) decision on the volume and composition of current assets; and
 - (iv) efficient management of the different categories of current assets and current liabilities.

The present study aims atdeveloping an optimum working capital management model/norm for the public enterprises in jute and cotton textile mills in Bangladesh. An optimal working capital policy is one that sets the mix of current assets and current liabilities that maximizes return on investment or equity and strengthens it as well as ensures the solvency of the business.

V.E. Ramamoorthy(1978) "Working Capital Management. (Madras Institute of financial management and research), p 15.

3.8.1 Determinants of working capital

The factors like the nature of business, production policies, manufacturing process, turnover of circulating capital, growth and expansion of business, business cycle fluctuations, terms of purchase and sales, dividend policy, credit policy and production and distribution policy greatly affect the size and amount of working capital.

3.8.2 Cost Consideration of Working Capital

The financial executive has to keep a watch on the balance of working capital and cost differentials of various alternatives to maintain it at a certain level, although some of the costs are beyond his control. The costs, requiring proper balancing on his part, may consists of: (i) the cost of close synchronisation of expenditure and receipts on income account, (ii) the cost of having trade credit, (iii) the cost of extending liberal credit terms to debtors, (iv) the cost of letting or allowing cash discount, (v) the cost of managing cash in off-periods, and (vi) the cost of borrowing money from lender or lending institutions and (vii) the holding cost of inventory beyond the normal period.

3.9 Flaning and Control of Working Capital

Working capital planning depends upon its sources, such as (a) net profit from operations, (b) sale of fixed assets, (c) raising long-term debt, (d) additional issue of shares and (e) retirement of current liabilities below book value.

However, provision for depreciation can provide funds only if gross profit is sufficient to cover the depreciation charge.

3.10. Related Definitions

3.10.1 i) Working Capital

For the purpose of this study working capital means a firms total investment in short-term assets, i.e. in total current assets mainly, inventories, accounts receivables, short-term investment in securities and advances and cash. Or in other words, it refers to the concept of gross working capital, the amount of funds which an organisation is to finance in its day to day operations.

ii) Net Working Capital

Net working capital is the difference between the current assets and current liabilities. Or in other words it is also termed as excess of current assets over current liabilities.

iii) Optimal Working Capital Policy

An optimal working policy is one that sets the mix of current assets and current liabilities and that maximises the rate of return on equity and at the same time ensures the

liquidity and solvency of the business. However, the objectives of working capital management is to manage each of the firms current assets i.e. inventory, short-term, investments and advances, accounts receivables and cash as well as the current liabilities so that an acceptable level of net working capital is maintained and at the sametime it maximises profitability and optimizes solvency of the business.

iv. Permanent working capital

Permanent working captial is that kind of current assets which never leaves the business i.e. like temporary working capital it transform from cash to inventory and invnetory to receivables and back to cash but this type of current assets never dropped to zero. It transpries the view that a minimum cash balance, inventory receivables and advances and investment must be maintained in smooth operation of an organisational activity.

v. Temporary or variable working capital

A temporary working capital is that type of current assets which leaves the business process although it fluctuates from one form to another like permanent working capital.

vi. Turnover of working capital

It is the ratio between the sales to working capital.

Low rate indicates poor use of working capital, and too high rate

indicate overtrading. A proper standard ratio should be maintained for better management of working capital. The higher the turnover of working capital, higher would be its profitability indicating a better efficiency in the uses of working capital subject to good margin.

3.10.2 Public Enterprises

Public enterprises in Bangladesh are the agents of the government created for the purpose of discharging government obligations to the public in the industrial & commercial field, service-cum-development and financing and Banking field. Public enterprises should achieve both commercial profitability and social benefit.

For the purpose of this study, public enterprises have been referred to as jute and cotton textile industries under the administrative control of Bangladesh Jute Mills Corporation (BJMC) and the Bangladesh Textile Mills Corporation (BTMC).

3.10.3 Current Assets

Current assets are those assets which can be converted into cash within in accounting year. These are represented mainly by cash balances, accounts receivables, loans and advances, and inventories of raw materials, work-in-progress, finished goods and stores and spares and miscellaneous goods in the jute and cotton textile industries in Bangladesh.

3.10.4 Gross Profit/Loss

It is the difference between the net sales revenue after sotck adjustment and the cost of production or cost of goods sold before charging any administration, selling and financial expenses.

3.10.5 Net Profit/Loss

It is the difference between total revenue and total expenses subject to tax.

3.10.6 Operating Profit

It is the profit generated out of the main business operations excluding other income i.e. income from interest on Bank deposits.

3.10.7 Retained Earnings/Profit.

It is the surplus net profit kept in the business operations after meeting the commitment of dividend, provisions for income tax and reserves. etc.

3.10.8 Current Liabilities

Current liabilities are the claims of the outsiders which are expected to mature for payment within an accounting year. These are trade creditors, short-term loans from commercial bank, provision for tax and other short-term dues.

3.10.9 Working Finance/Liquidity Gap

It means current assets minus current liabilities and provisions but excluding short-term bank borrowings. Ramamoorthy 24 calls as " Liquidity Gap ".

3.11 SUMMARY

From the different financial models described in this chapter, it appears that the subject can be approached from different angles. An insights into the literature provides us necessary theoretical perspective which will enable us to design a descriptive operational working capital management model/norms applicable to the public enterprises in Bangladesh in general and more specifically to the Jute and Cotton Textile Industries.

24. V.E. Ramamoorthy, Opcit., p 15.

CHAPTER - FOUR

RESEARCH METHODOLOGY

4.1 Introduction

The objective of this chapter is to present a discussion on the methodology of the present research. This chapter deals with the selection of samples, sources and collection of data. methods of data collection. It also explains the designed questionnaire for collecting cross sectional data from the respondents.

Since the present study focuses on both Jute and Cotton textile industries, disucssion on methodology on Jute and Cotton textile industries are presented below simultaneously.

4.2 JUTE INDUSTRY

4.2.1 Selection of Samples

There are 11 jute mills in Dhaka Zones under the Bangladesh Jute Mills Corporation. These 11 jute mills comprise our population having total installed and operable looms of 4830 and 4637 respectively (Table 4.1). We categorised these mills into three classes, namely, big, medium and small. Jute mills having the capacity of 250 to 450 looms were classed as small, those having capacity 450=650 looms were treated as medium and those having more than 650 looms were classified as big jute mill. Table 4.1 shows the relative position of these three classes of the mills.

Dhaka University Institutional Repository

Table 4.1 - Samples of Jute Mills.

class	Mo. of mills	Percentage of total	No. of looms	Percentage of total
Big	2	18%	1838	38%
Medium	4	36%	1998	41%
Small	5	46%	994	21%
Total	11	100%	4830	100%

Source: Quarterly Jute Goods Statistics, 1987-88 of BJMC.

Out of these three groups, three jute mills were selected having one from each class on random basis for our study. The sample therefore covers one big mill, one medium and one small mills out of 2,4 and 5 big, medium and small mills respectively, under Dhaka Zone of the Bangladesh Jute Mills Corporation. These three mills had a total 1600 looms representing 33 percent of total installed capacity of the Dhaka Zones of BJMC. The sample covering 1/3rd of total installed looms of the jute mills of Dhaka Zone and as such there is reason to believe that the sample is representative in terms of the characteristics studied.

4.2.2 Sources and Collection of Data for Jute Industry

Various sources and techniques of data collection have been used in present study. The factual data for the study were collected from the published annual reports of the selected jute mills. But the study is primarily based on the analysis and:

interpretation as well as restructrisation of data contained in the Annual Audited Balance Sheet and Profit and Loss Accounts of the three jute mills of Dhaka Zone of BJMC. Data also have been collected from the various publications of BJMC head office, such as monthly MIS report and quarterly Jute Goods Statistics and other statements and reports. The data used in the study are mainly two types — Primary data and Secondary data.

Relevant primary data relating to production, sales, inventory policy, pricing policy, receivable policy, liquidity and working capital policy, etc. which were not available in the annual audited Balance Sheets and Profit and Loss accounts were collected from the record files and by interviewing relevant executives through a desigened questionnaire (see annexure-XV). Their contents, validity and objectivity have been duly taken care of. The questionnaire were designed on the various problems of working capital management and more specifically on the different components of Working Capital, such as Inventory, receivables, cash management. The areas constitute the problems studied in the investigation. The respondents were Finance Director, Production Director, General Managers, Chief/Deputy Chief Accountants, Production Managers, Marketing Managers, Purchase Officers, Store Officers and other financial executives of the selected jute mills and the Bangladesh Jute Mills Corporation.

Data relating to the development of industry itself were collected from the First, Second and the Third Five Year Plans published by the Planning Commission, Government of the People's Republic of Bangladesh. Related Data on the position of Indian Jute Mills were collected from jute goods statistics of BJMC and other reports published by the Bureau of Public Enterprises of India.

4.2.3 Sources and Collection of data from Private Sector Jute Mills

For Comperative study, Data have also been collected from the three private sector jute mills cateogoriwise as mentioned in the para 4.1.1 for the selection of sample of the Dhaka Zone of Bangladesh Jute Mills Corporation (BJMC). One big. one medium and one small jute mills from private sector have been selected on the basis of the availability of data. The factual data for the study were collected from the published Annual Audited Balance Sheet, and Profit & Loss Accounts of the slected jute mills. Relevant primary data relating to Production, sales, inventory policy, pricing policy, liquidity and working capital policy were not available in the annual audited Balance Sheets and Frofit & Loss Accounts, were collected by interviewing the relevant executives through a designed questionnaire and through personal interview. Their contents, validity and objectivity have been duly taken care of. The respondents were Managing Director, Finance Director, General Managers and Chief Accountants, etc.

4.3 COTTON TEXTILE INDUSTRY

4.3.1 Selection of Samples

There are six textile mills in Tongi Zone under the Bangladesh Textile Mills Corporation (BTMC). Out of the six mills three mills are Spinning and three are Composite mills. These six Cotton Textile Mills comprise our population having total installed and operable spindles of 128500 and 83826 respectively (Table 4.2). Out of the six mills three Spinning mills were selected for comparable study. They are Monno Textiles(old), Quaderia Textiles and Satrang Textiles.

Table 4.2 - Samples of Cotton Mills.

SI. Name of the No. Textile mills			. of Spin erable cap	dles %
1. a. Monno Textiles	15.744		10615	
(old)	7.53.2.44.44		15/13/13	
b. Monno Textile (new)	12500		7191	
2. Meghna Textiles	15120		11570	
3. Olympia "	32736		21920	
4. Satrang "	12000		11476	
5. Zeenat "	25200		14840	
6. Quaderia "	15200		12531	
Total N=6 Population	128500	100%	90163	100%
Total N=3 Sample Mill	s 42944	33.4%	34622	38%

Source: Monthly MIS Report of BTMC, October, 1988. (Percentage have been calculated by us).

The sample covers 1/3rd (33.4%) of the total installed spindles and 38% of the total operable spindles of all the textile mills under Tongi Zone of BTMC. As such there is reason to believe that the sample is representative in terms of the characteristics studies.

4.3.2 Sources and Collection of Data for Cotton Textile Industry.

Various sources and techniques of data collection have been used in present study. The factual data for the study were collected from the Annual Store Inventory Ledger, of the selected spinning mills of Tongi Zone under BTMC and the published Annual Reports of BTMC and Annual Audited Balance Sheet & Profit & Loss Accounts of the selected textile mills during the period from 1982-1987. Data have also been collected from the monthly Management Information Systems (MIS) Reports of BTMC. The data used in the study are mainly two types — Primary data and Secondary data.

Relevant primary data relating to production, sales, inventory, pricing policy, liquidity policy, etc. which were not available in the Annual Reports, Audit Reports and Inventory ledger, were collected from relevant report files of the respective mills and corporations and by interviewing relevant executive through a designed questionnaire.

Their contents, validity and objectively have been duly taken care of.

The Respondents were Chief/Deputy Chief Accountants, sales managers, production managers, purchase and stores officers of the selected textile mills and the Bangladesh Textile Mills Corporation. Data relating to the development of industry itself were collected from the First, Second and Thrid Five Year Plan published by Planning Commission, Government of the People's Republic of Bangladesh. Related data on the position of Indian textile mills were collected from the published Reports of Bureau of Public Enterprises and Reserve Bank of India and other published Research Reports of different Scholars in this field.

4.3.3 Sources and Collection of data from the private sector cotton textile mills.

For Comparative study data have also been collected from the three private sector spinning mills of similar sixe which were disinvested to private sector by BTMC after 1982. Since there was only one Cotton textile (Spinning mills in the private sector from Tongi Zone of Dhaka, (Ashraf Textile mills Ltd.), two other spinning mills were selected from other areas.

Secondary data have been collected from the published audited annual reports and other recorded statistics, while the primary data have been collected through predesigned questionnaire and personal interview.

4.3.4 Methods of Data Collection

Data Collection methods were confined to:

- i. Library work:
- ii. Interview Method: and
- iii. Observation Method.

A brief description of the above methods is as follows:-

i) Library work

In this method, different journal, periodicals, books, Government Fublication, Annual Reports, MIS reports, Audit reports published by BTMC and the Annual Balance Sheet and Profit and loss a/c of the selected Jute and Textile mills have been very helpful in obtaining relevant data and information.

ii) Interview Method

Interview method has been used through predesigned questionnaire for the purpose of our study. The reason is obviously to enable us to establish personal contact with the personnel to be interviewed. It ensures centpercent responses

from the respondents. This method also offers an opportunity to the researcher to explain the interview schedules wherever they are necessary and thus ensures to obtain correct replies. It also gives the researcher an opportuity to discuss informally with the interviewees.

iii) Observation Method

This method consists of a collection of facts and figures through a purposive venture. The techniques adopted are (a) Free story-Interview and (b) Maintenance of a Diary. Personnel connected directly or indirectly with the management of individual Jute and Textile mills were discussed at their leisure time in ascertaining the real picutre and truth for the investigation by means of free story-interview.

Maintenance of a Diary is more useful by recording special information which may be omitted in the reports and interview method.

All the three methods helped us to acquiant ourselves with the various aspects of working capital management in the selected Jute and Textile mills of Bangladesh Jute Mills Corporation, Bangladesh Textile Mills Corporation and all the selected private sector jute and cotton textile mills undertaken for this study.

4.4 Selection of the Industry

Any study on the problems affecting working capital management should cover at least the major industry of the country in order to be representative of the whole economy. But such a study covering the major industries involves an amount of field work and resources which were beyond our means. It was therefore decided to take two major industries for our investigation. Bangladesh have several industries, namely, Jute, Cotton, Steel & Engineering, Sugar & Food, Chemical, Garments leather, etc. Selection of two industries out of these so many was a problem in itself. It was, therefore, adopted the following criteria for the purpose of selecting specific industry for our study.

- The industry should be one which is able to give us a picutre of good segment of the modern section of the Country's economy.
- ii. The industry should be one in which both the Government and the Public are vitally interested.
- iii. The industry should be one which is export oriented and as a means for earning foreign exchange to meet the country's huge deficit blance of payments.
 - iv. The industry should be one which is import-substitute.
 - v. The industry should be one using modern technology as well as labour-intensive oriented.

The jute and cotton textile industries of Bangladesh satisfy all these criteria. Jute industry is essentially an export oriented industry earning more than 25% foreign exchange, and it employs

directly more than 200000 two hundred thousands workforce of the country. So, the roles of Bangladesh Jute Mills Corporation (BJMC) and the Bangladesh Textile Mills Corporation(BTMC) and the recently disinvested jute and textile mills play a dominant position in the economy of the country. But unfortunately, the jute and cotton textile industries as a whole are suffering from low productive efficiency and low/negative profitability. Their financial soundness is also questioned by the Government, financier and Banker and even by the general public. Under the circumstances, a through investigation is a must in a financial side especially in the area of Working Capital Management. attempt has, therefore, been made here to make an indepth study in the area of the Working Capital Management of Jute and Cotton Textile Industries under the Dhaka Zone of BJMC and Tongi Zone of BTMC.

4.5 Questionnaire Explained

The questionnaire in the Annexure-XV contains four sections, Schedule I involves General information about the respondents, information regarding the existing system of the different components of inventories, raw materials, work-in-progress, finished goods and stores and spares management, Modern techniques of inventory control i.e. ABC method, EOQ model, perpetual inventory system, standardisation and variety reduction, are prevalent or not. The methods of inventory

financing, inventory management and blockage of Working Capital, and optimum level of efficiency of inventory receivables and cash management have also been incorporated in the presestioned questionnaire appended in schedule-I, II, III, & IV respectively.

4.6 DATA ANALYSIS

The basic approach in analytical and interpretative in nature. This study is limited to time series analysis and cross section analysis of emprirical data. In analysing the inventory, modern control of inventory techniques, such as ABC method of selective inventory control for stores inventory, FACT Method (Financial Analysis Consultancy Technique) have also been used which finds out important financial ratios relating to Working Capital management. On the basis of review of literature and objectives of the study, we have used statistical and other quantitive methods of analysis. To test the validity on the efficiency between public and private enterprise X tests have also been used in the study.

4.7 Methods of Analysis

The following analysis have been done :

(i) The ratio trend analysis of the relevant data on working capital during 1981-82 to 86-87, for the individual mills have been made.

- (ii) Inter-firm comparison has been made for the specific ratios on working capital.
- (iii) The average ratios of the big, medium and small mills have been studied seperately.
- (iv) The average inventory, receivables, cash, shortterm investments and advances have been compared with the Working Capital norms of the Tandon study group and the working capital position of Indian Jute mills.
- (v) The average inventory has been compared with the inventory norms of BJMC.
- (vi) Finally a comparatie analysis on Working Capital Management position between selected public and Private sector mills have been made by using FACT METHOD and Chi-squire test during 1982-83 to 1986-87.

CHAPTER - FIVE

ANALYSIS AND FINDINGS OF THE STUDY

5.1 INTRODUCTION

The purpose of this chapter is to present a cross sectional and time series data analysis and the result of such analysis and findings. It was possible to obtain both financial and qualitative data of all the six public enterprises in the sample of this research. Out of the six selected public enterprises 3 were jute mills and 3 were cotton textile mills.

This chapter comprises major five sections of which section 5.2 is an analysis and findings of the three selected jute mills on the basis of Audited Balance Sheet and Profit & Loss Account during 1981-82 to 1986-87.

Further insights into working capital management of jute mills are provided in section 5.3 where cross sectional analysis are presented with reference to above attributes.

Section 5.4 presents the analysis on working capital management and findings of selected cotton mills on the basis of time series data as collected from Audited annual Balance Sheet and Profit & Loss account from 1982-83 to 1986-87.

further insights into the working capital management of the seclected cotton textile mills are provided in section 5.5 where cross sectional analysis are presented with reference to working capital management. Since the present study focuses on both the industries, their analysis and findings are presented simultaneously.

5.2 ANALYSIS AND FINDINGS IN JUTE INDUSTRY

Data collected from Primary and Secondary sources by i)
Library work, ii) Interview Method and iii) Observation Method
have been processed through manually using FACT METHOD, ABC model
of inventory analysis, Statistical method,
and Chi-squire test. This study is mainly limited to the time
series analysis and cross section analysis of emprirical data
compared with specific inventory and receivables and cash norms
of Bangladesh Jute & Cotton texile mills Corporations, and the
working capital position of Indian jute mills. Data have also
been compared with the specific working capital norms prescribed
by the Tandon study group of the Reserve Bank of India.

^{1.} Shri Prakash Tandon - Report of the study group to frame guidelines for follow-up of Bank Credit. Reserve Bank of India, Bombay, 1975.

Table 5.1 Percentage of Working Capital to total capital employed in the jute mills during 1981-82 to 1986-87.

Years		JUTE MILLS	Average of three mills	
	LEJM	КЈМ	NEJM	coree mili
1981-82	84.90	84.69	78.02	82.54
1982-83	86.37	85,33	79.36	83.49
1983-84	81.25	88.79	85.06	85.03
1984-85	87.12	90.70	91.08	89.63
1985-86	92.45	88 <u>.</u> 05	92.53	91.01
1986-87	90.97	84.63	98.00	89.53
Average of six y	87.12	87.03	86.50	86.90

Source: Appendix I, II, III (FACT SHEET, Balance Sheet Information).

N.B.: Total assets has been treated as Total capital employed.

Table 5.1 Portrays that the average percentage of the working capital employed is alarmingly as high as 86.90 of all three selected mills during the period under study. The average percentage of working capital to total capital employed was highest in the big mill i.e. 87.12 while the same was 87.03 and 86.50 in the medium and small mills respectively during the period under study. The percentage of working capital to total capital employed in the individual mills had an increasing trend

from the base year (1981-82) to the current year (1986-87). The above analysis throws sufficient light to the fact that compared to the total capital employed, there has been a higher rate of investment in the Working Capital in almost all the selected units of the BJMC, Dhaka Zone, during the period from 1981-82 to 86-87. This being the situation, a through investigation in the matter of investment and utilisation of Working Capital is considered to be an urgent necessity.

N.B: LBJM = Latif Bawany Jute mills.

KJM = Karim Jute mills.

NBJM= Nabarun Jute mills.

Table 5.2 Turnover of Working Capital in the selected jute mills during 1981-82 to 1986-87

Years	MANUE THOSE SHADO SASSA Summer Ku-mig soom crade death of	Average of three mills		
	LEJM	KJM	NEJM	Cill ele militie
1981-82	1.30	1.42	1.21	1.31
1982-83	1.57	1.79	1.17	1.51
1983-84	1.84	1.34	1.02	1.40
1984-85	1.41	1.23	0.81	1.15
1985-86	1-14	1.37	1.07	1.19
1986-87	1.23	1.32	1.05	1.20
Average of six yr	1.42	1.41	1.05	1.29

Source: Appendix- I,II,& III Balance Sheet Information of FACT SHEET.

Table 5.2 depicts that the average turnover of Working Capital varies from 1.15 times to 1.51 times in the individual selected units of BJMC, Dhaka Zone. On an average, the industry turnover is 1.29 times as against a turnover of 2.54 times in the Jute mills of India during 1977-88. The average turnover of Working Capital should be 1.81 on the basis of reasonable current assets of the jute mils as per the Working Capital norms of Tandon Study Group of the Reserve Bank of India during the period under study (Annexure-XIII). Compared to above norms, all the selected jute mills of BJMC, Dhaka Zone, had much lower turnover of Working capital. Habibullah , in his study of the profitability in the jute industry of Bangladesh, mentioned that higher the turnover of Working Capital, higher would be its profitability, indicating better efficiency in uses. So the declined turnover of working capital revels that the jute mills failed to have efficiency in the uses of working capital.

^{1.} Md. Habibullah, Ibid p5

Table 5.3 Perecentage of inventory to Gross working capital in the selected mills during 1981-82 to 1986-87.

Years	To been some acces solve Many May you man	JUTE MILLS	Average of the	
	LBJM	KJM	MEJM	mills
1981-82	65.94	60.10	59.50	61.83
1982-83	67.12	59.54	48.20	64.95
1983-84	70.10	57.95	59.77	62.61
1984-85	75.51	75.18	68.10	72.93
1985-86	75.63	66,45	65.78	69.29
1986-87	69.88	55.18	55.82	60.29
Average of six y	70.69	62.40	62.86	65.32

Source: Annexure- I II & III Balance Sheet Information of FACT Method.

A galance at Table 5.3 indicates that the inventories occupy a major proportion of the Working Capital that have been invested in the different selected units of the BJMC during the period of study. A look at the table further shows that among the selected units. Latif Bawany Jute mills had the highest percentage of invenotires to gross working capital (70.69), while Karim Jute mills had the lowest percentage of the same (62.40). The average percentage of inventories of the Nabarun Jute mills was 62.86. However, the percentage of inventories to Working Capital of the mills was 65.32. Thus we find that in all the cases the percentages of inventories to Working Capital are very high and naturally it could be infurred that, because of the high percentage of investment in inventories, a considerable fund has been blocked up in inventories which might affected the longterm profitability of the selected jute mills under study.

5.4 Percentage of Accounts Receivables (Trade debots) to Gross Working Capital during 1981-82 to 86-87.

Years		JUTE MILLS		Average of three
	LBJM	KJM	MBJM	mills
States proces depote takata majar report pisat melim se	pro proprio del PRO Jedger Michael plande et DANA Savida vellicolo modele depundi bindon	wheeld will be district details region repairs delate of the Princip DASE Family DASAS FAMILY TRAVE	. Adven nagrada kandili paperili sapara kupara kupa na nahari naraya najama na ama 60 dan yarigin yarama yaran fa	ton those speed around anything toping more again again speed dates about proof fador
1981=82	12.84	19.73	22.99	18.52
1982-83	12.48	16.83	16.25	15.19
1983-84	12.78	11.48	22.09	15.45
1984-85	9.77	8.67	16.48	11.64
1985-86	13.10	17.64	17.25	15.99
1986-87	11.48	14.94	11.55	12.66
Average of six yr	12.0	14.88	17.76	14.91

Source: Annexure-I II & III Balance Sheet Information of FACT METHOD.

Table 5.4 represent the percentage relationship between the receivable and the Working Capital. The average percentage of receivables to Working Capital was 14.91, while the average percentage of receivables to Working Capital was the highest in the Nabarun Jute Mills (17.76) while the same was the lowest in the Latif Bawany Jute mills (12.08). According to some experts and in the opinion of mills management, trade debtors should be a maximum of 10 percent of total current assets. Compared to that, trade debtors was excess by about 5 percent in the selected mills during the study period. Normally the Letter of Credit(LC) period is 30 days. But the average collection period was found 35, 41 and 64 days in the selected jute mills during the period of study. However, receivables management was found inefficient in the jute mills (see annexure— I,II & III).

Table 5.5 Percentage of total receivables to Gross Working Capital of the selected mills during 1981-82 to 86-87

Years		JUTE MILLS		Average of three
where the party party pages again from the con-	LEJM	KJM	NBJM	mills
1981-82 1982-83 1983-84 1984-85 1985-86 1986-87	32.90 31.61 30.31 23.51 24.09 29.37	39.32 36.99 25.17 23.37 30.03 39.73	36.88 29.30 37.98 28.50 33.13 40.54	36.37 32.63 31.15 25.13 29.08 36.55
Average of six yr	28.63 s.	32,26	34.39	31.82

Source: Annexure-I, II & III Balance Sheet Information of FACT Method.

Table 5.5 indicate that industry average percentage of total receivables to Working Capital was 31.82. The average percentages of the same of the LBJM, KJM and NBJM were 28.63, 32.26 and 34.39 respectively. The average percentage of receivables to total working capital was 20.24 in the Indian Jute Mills during 1977-78. This indicates that there was excess receivables in the selected jute mills during the period under study.

Out of the total receivables of about 32 percent, 17 percent was blocked in advances. Most of the advances were found in the form salary and wages, flood and cyclone relief, house building etc. consituted major portion. According to management, ninety percent of advances were arrears and long overdue. This overdue advances to workers in largely due to inefficiency of management, and partly due to leeway given to workers unions by

the Government for pressure of union and social leaders, some of them have become political leaders. Sometimes, management are helpless to realise advances. The indiscipline in case of strong action, means gheraow of the senior enterprise executives.

Table 5.6 Percentage of Cash to total Gross working capital of the selected mills during the period 1981-82 to 86-87.

Years _		JUTE MILLS		Average of three mills 1.79 2.40 1.40 1.34 1.81
	LBJM	KJM	MEJM	
1981-82	1.16	0.59	3.62	4 7775
1982-83	1.25	3.45	2.49	
1983-84	0.77	1.18	2.24	
1984-85	0.66	0.36	3.00	1.34
1985-86	0.83	3.52	1.09	1.81
1986-87	0.76	5.09	3.63	3.16
Average of six y	0.91	2.37	2.68	1.99

Source: Annexure-I,II & III Balance Sheet Information of FACT Method.

Table 5.6 depicts that the average percentage of cash to Working Capital was only 1.99 of the selected units under study. The average percentages of Cash of LBJM, KJM and NBJM were 0.91, 2.37 and 2.68 respectively during 1981-82 to 1986-87. The percentage of Cash to Working Capital was 4.48 in case of Indian Jute Mills during 1977-78. According to some Authorities like Professor Nigam of India cash in a well financed Company should not be less than 5 to 10 percent of Working Capital. Compared to this the percentage of cash to Working Capital was very much low in the selected units of jute mills.

5.7 Inventory in terms of months Cost of Production in the Jute mills during 1981-82 to 1986-87.

Years		JUTE MILLS	p office a fine-y makes to the orders and a serve metal desert a root makes interest over a time basis	Average of three
	LBJM	KJM	NBJM	mills
1981-82	6.61	6.58	8.71	7.30
1982-83	6.25	5.51	10.89	7.56
1983-84	3.72	8.48	8.72	6.97
1984-85	8.48	8.41	21.83	12.91
1985-86	8.59	7.55	10.76	8.97
1986-87	6.92	4,81	6.09	5.94
Average	6.76	6.89	11.17	8.27

Source: Annexure-I, II & III Balance Sheet Information of FACT Method.

Table 5.7 shows that the average inventory in terms of month's cost of production was 8.27, which seems to be very high during the period of study. The average inventory in terms of the months cost of production was highest in the NBJM 11.27 while it is the in LBJM 6.76. While inventory in terms of months cost of production should be 2.74 according to the inventory norms of the Tandon Study Group (Appendix XIII) of the Reserve Bank of India. Inventory in terms of months cost of Production was 3.18 in the Indian Jute mills during 1977-78.

However, average inventory in terms of the months Cost of Production is increasing alarmingly in all the selected units during the period under sutdy i.e. from 1981-82 to 1986-87.

Table 5.8 Inventory turnover ratio in the selected Jute mills during 1981-82 to 86-87

Years	JUTE MILLS			Average of three		
rear s	LEJM	кам	NEJM	mills		
1981-81	1.82	1.82	1.37	1.67		
1982-83	1.92	2.17	4.58	2.89		
1983-84	3.22	1.41	1.37	2.00		
1984-85	1.41	1.43	0.54	1.13		
1985-86	1.40	1.59	(i) = 100 (ii)	1.17		
1986-87	1.73	2.49	1.97	2.06		
Average of six y	1.91	1.82	1.73	1.82		

Source: Annexure I, II & III Balance Sheet Information of FACT Method.

Table 5.8 indicates that the total average inventory turnover ratio had a decreasing trend. The average inventory turnover ratio was 1.82 for all the selected jute mils under the period of study, while the average inventory turnover ratio of the individual mills, namely LBJM, KJM, NBJM were 1.91, 1.82 and 1.73 respectively. The normal inventory turnover ratio should be 4.29 during the period under study as determined by the inventory norms of the Tandon Study Group of the Reserve Bank of India(Annexure- XIII). However, the average inventory turnover ratio was very low compared to the norms of the Tandon Study Group.

Table 5.9 Current Ratio in the Selected jute mills during 1981-82 to 1986-87

		JUTE MILLS	<u> </u>	Average
Years	LBJM	KJM	NBJM	of three mills
1981-82	1.40	0.73	1.75	1.29
1982-83	1.62	0.98	2.01	1.54
1983-84	2.00	1.10	1.61	1.57
1984-85	1.34	0.93	1.23	1.17
1985-86	0.95	0.76	1.00	0.90
1986-87	0.88	0.48	0.99	0.85
Average	1.37	0.86	1.43	1.22

Source: Annexure-I.II & III Summary Sheet of FACT Method

Table 5.9 depicts the industry average of current ratio which was only 1:22:1 for the selected units for the period under study. The average current ratio was 1.37, 0.86 and 1.43 in the LBJM(big mill), KJM(medium mill) and NBJM(small mill) respectively. Traditionally 2:1 Current ratio is taken as satisfactory standard for the liquidity and solvency of the firm. The same idea was endorsed by expert authorities like Myer, Pandey, Kuchal, Ramawoorthy, Mishra and others. However, the average current ratio for all the selected jute mills was less than 2:1 for all the periods under study (1981-82 to 1986-87).

3. Ibid.

Table 5.10 Liquid Ratio in the Selected Jute Mills during 1981-82 to 1986-87.

Years	_	Average		
	LBJM	KJM	NBJM	of three mills
1981-82	0.47	0.29	0.71	0.49
1982-83	0.53	0.40	0.64	0.52
1983-84	0.62	0.29	0.65	0.52
1984-85	0.32	0.22	0.38	0.31
1985-86	0.24	0.25	0.34	0.28
1986-87	0.27	0.31	0.43	0.34
Average of six y	0.40	0.29	0.53	0.41

Source: Annexure-I, II & III SUMMARY SHEET OF FACT METHOD

Table 5.10 indicates that the average liquid ratio of all the selected jute mills was 0.41 during 1981-82 to 1986-87, which is much below the standard ratio of 1:1. The highest ratio found 0.53 in NBJM (small mills), while it was the lowest 0.29 in KJM (medium mills). The average liquid ratio was 0.40 in LBJM (big mills). The average liquid ratio in the jute mill would be 0.84:1 according to the recommendation of the Tandon Study group of the Reserve Bank of India. Compared to this, the average liquidity ratio of the selected jute mills was highly adverse during the study period.

Table 5.11 Cost Breakdown ratio of the selected Jute Mills during 1982-83 to 1986-87.

Years	1/4	*/,	1/4	11/11	11/14
	Mat. cost	Lab. cost	Prod. overhead	Admn. Expn.	Selling Expn.
1982-83	39.34	27.80	14.80	1.63	2.71
1983-84	78.92	30.98	12.92	1.55	2.38
1984-85	35.43	29.15	11.27	1.15	1.76
1985-86	39.00	36.00	6.20	2.26	1.75
1986-87	39.58	39.66	15.36	1.39	1.79
Average	46.45	32.78	12.11	1.87	1.87

	% Mat. cost	% Lab. cost	% Prod. overhead	% Admn. Expn.	% Selling Expn.	
1982-83	34.22	25.38	15.46	1.80	4.21	
.983-84	37.74	29.21	11.84	1.69	3.25	
1984-85	54.98	26.11	8.91	2.52	1.97	
.985-86	35.95	32.37	10.57	3.28	2.38	
986-87	39.35	45.88	14.78	3.22	3.76	
Average of 5 yrs.		31.78	12.31	2.50	3.10	

	% Mat. cost	% Lab. cost	Prod. overhead	% Admn. Expn.	% Selling Expn.	
1982-83	37.81	37.16	8.13	7.07	2.30	
1983-84	38.66	36.69	25.00	NA	2.78	
1984-85	34.42	28.14	23.43	NA	1.74	
1985-86	36.86	32.57	11.24	2.32	1.98	
1986-87	38.30	38.75	14.98	NA	2.31	
Average of 5 yrs	37.21	34.66	16.75	1.87	2.22	

The table shows the percentage of cost of material, labour, production overhead, administrative and selling expenses in relation to sales in the selected mills during the period of study.

The findings show that cost of material was highest in big mill, while the cost of labour and production overhead were highest in small Nabarun jute mills. The average cost of sales of all the mills was about 93 percent of sales. These leaves a very little margin of profit in the selected jute mills.

5.3 The following analysis and findings have been presented on the pre-designed qestionnaire schedule-I to IV as shown in annexure X V. The answers of respondents of the selected public sector jute mils of Dhaka Zone and the Bangladesh Jute Mills Corporation are presented in the following tables. Twelve executives were interviewed who were directly related to working capital management. Out of the 12 exeucities, 3 of them were Head of enterprises, and 9 were head of accounts. The result of the analysis and the findings of the study on the basis of primary data are described below:

Table 5.12 Distribution of Respondent according to Age

Age	Frequency
30-40 yrs	3
40-50 "	8
50-60 "	1
60 yrs. over	None
Total	12

It appears from the table 5.13 , that out of the 12 executives in the selected jute mils and BJMC a maximum of 8 belonged to the age group of 40-50 yrs., 3 belonged to 30-40 years and only 1 was in the age group of 50-60 years. Most of the respondents were chief exeuctive and chief accountants of the selected jute mills and the Controller of Accounts and finance of the Bangladesh Jute Mills Corporation.

The findings show that most of the respondnets have long experience in their profession and are middle aged.

Table 5.13 Distribution of respondents on the Lack of Working Capital Policy.

Opinion of Respondents	Total frequency	Percentage	
1. Agree	9	75.00	
2. Strongly agree	2	17.00	
3. Disagree	1	8.00	
4. Strongly disagree	None	_	
5. Undecided	None	-	
Total	12	100.00	

In reply to a question whether lack of policy is affecting Working Capital management problem in the selected Public sector jute mills, 75 percent respondents agreed to the question, 17 percent strongly agreed, while only 8 percent disagreed.

The findings confirm that lack of proper policy is affecting working capital problem in the selected jute mills during the period of study.

Table 5.14 Distribution of Respondents on the lack of proper inventory management.

Opinion of Respondents	Total frequency	Percentage
. Agree	9	75.00
2. Strongly agree	1	8.00
3. Disagree	2	17.00
. Strongly disagree	None	_
5. Undecided	None	

In reply to a question, whether lack of proper inventory management was responsible for working capital management, 75 percent respondnet agreed, 8 percent strongly agreed and the rest 17 percent disagreed to the question.

The findings show that about 83 percent respondent confirmed that lack of proper inventory management is responsible for the lack of proper working capital management. This findings necessiates a proper policy guidelines or model for better inventory management in the selected public sector jute mills in particular and jute industry in general.

Table 5.15 Showing the distribution of respondents on the question of lack of proper Accounts Receivable Management.

Opinion of Respondent	Total frequency	Percentage
1.Agree	8	66.66
2.Strongly agree	17) 22.	16.66
3.Disagree	22	16.68
4.Strongly disagree	None	None
5.Undecided	None	None
Total	12	100.00

66.66 and 16.66 percent respondents agreed and strongly agreed respectively, that lack of proper accounts receivables management aggravated the Working Capital Problem in the selected jute mills. While about 17 percent respondents disagreed to the question.

However, the findings confirm that majority of the respondent mentioned that lack of proper receivables management was responsible for proper working capital management in the selected public sector jute mills during the period of sutdy.

Table 5.16 Showing the distribution of respondents on the lack of proper cash management.

Opinion of Respondents	Total frequency	Percentage
1. Agree		58.33
2. Strongly Agree	1	8.33
3. Disagree	4	33.34
4. Strongly disagree	None	None
5. Undecided	None	None
Total	12	100.00

In reply to a question, whether lack of proper cash management was responsible for proper working capital management, 58.33 and 8.33 percent respondents agreed and strongly agreed respectively to the proposal, while 33.34 percent disagreed to the same in the selected jute mills.

mentioned that lack of proper cash policy also affected the working capital management problem in the selected mills furing the study period. Comparison of actual cash inflows and outflows have shown that mills management prepare only yearly cash budget for submission to Corporations and Ministry of Finance. This is merely an academic exercise having no relationship with reality. A good management is one which prepare monthly rather weekly cash budget which enables them, when to take loan and for which period

and to ensure surplus cash if any to be kept in STD account which yields some gain. Examination of records has shown that monhtly cash budget is not prepared at all and the necessity of weekly cash budget is not felt at all.

Table 5.17 Showing the Problems owed to poor Cashflow.

Opinion of Respondents	Total Frequency	Percentage
., Agree	és .	50.00
2. Stronghly agree	3	25.00
5. Disagree	1	8.00
1. Stronghly disagree	None	None
5. Undecided	2	17.00
Total	12	100

On the question of poor cashflow generation in the selected mills, 50 percent respondents agreed and 25 percent strongly agreed that the mills had been suffering from poor cashflow generation which aggravated the working capital management problem.8 percent respondents disagreed to it, while 17 percent were undecided.

The findings show that 75 percent respondents mentioned that poor cashflow generation affected the working capital problem in the selected jute mills.

Table 5.18 Showing the distribution of respondents on the much dependence on cash credit of commercial bank.

Opinion of Respondents	Total frequency	Percentage
1. Agree 2. Strongly agree	6 5	50.00 41.66 8.34
3. Disagree4. Stronghly disagree5. Undecided	None None	None None
Total	12	100.00

It appears from the table that, 50 percent respondents agreed and 41.66 respondents strongly agreed that they were too much dependent on the cash credit of Commercial bank as a source of Working Capital. 8.34 percent respondents only disagreed with the above view.

The findings confirm the hypothesis that most of the selected mills depended on cash credit as major source or in some cases only source of Working Capital at a very high cost of interest which impaired the profitabibility and liquidity and agrravating the working capital problem. The Controller of Accounts, BJMC mentioned in course of an interview that they paid Tk.24887.79 lake as an interest on cash credit of commercial bank.

Table 5.19 Shows the debt equity position of BJMC during 1983-87.

		Taka in lakh
Total debt	Total equity	Debt equity ratio
11759.41	7438.23	61:39
11075.43	7026.93	61:39
16295.99	(3895.21)	Negative
15122.47	(12613.32)	Negative
16057.24	(29649.17)	Negative
	11759.41 11075.43 16295.99 15122.47	11759.41 7438.23 11075.43 7026.93 16295.99 (3895.21) 15122.47 (12613.32)

Source: Annual Report of BJMC

N.B. The picture shows all the jute mills under BJMC.

The findings show that most of the selected mills and the BJMC as a whole have no equity. Due to 100 percent debt capital and the negative debt equity ratio aggravated Working Capital problem to public sector jute industry.

Table 5.20 Showing distribution of respondents on the question of political pressure and environmental constraints.

Opinion of Respondents	Total frequency	Percentage
1. Agree	y	58.33
2. Strongly agree	3	25.00
3. Disagree	1	8.33
4. Strongly disagree		_
5. Undecided	1	8.34
Total	12	100.00

In a reply to a question 58.33 percent respondents agreed and 25 percent strongly agreed that too much political pressure and enviornmental constraints were responsible for proper working capital management in the selected public sector jute mills under study. In reply to the nature of such political pressure most of respondents mentioned about the pressure of the labour unions for unreasonable demands and interference by social and unions leaders, some of them have become political leaders.

The findings confirms the view that political pressure and enviornmental constraints also affected the working capital problem in the selected jute mills during study period.

Table 5.21 Showing the distribution of respondents on the lack of proper cost accounting and cost control systems.

Opinion of respondents	Total frequency	Percentage
1. Agree 2. Strongly agree 3. Disagree 4. Strongly disagree 5. Undecided	6 1 4 1	50.00 8.33 33.34 8.33
Total	12	100.00

On the question of lack of proper cost accounting and cost control system, 50 percent respondents agreed and 8.33 percent strongly agreed that lack of proper cost control and cost reduction system were also responsible for poor working capital management in the selected jute mills.

The findings reveal that lack of adequate cost accounting and cost control system, material, labour and overhead cost had an increasing trend in all the selected jute mills during 1981 to 1987.

Table 5.22 Distribution of Respondents on the lack of demand and growing competition in the international market which affects working capital management.

Opinion of Respondents	Frequency	Percentage
1.Agree	10	83,33
2.Strongly agree	2	16.66
3.Disagree	-	_
1.Strongly disagree	-	
5.Undecided	-	-
Total	12	100.00

It appears from the table that 83.33 percent respondents agreed and 16.66 percent strongly agreed to the view that lack of demand of jute good and growing competition in the international market are mainly responsible for proper working capital management in the selected jute mills and in the jute industry of Bangladesh. None of the respondent disagreed to the above view. Mr. Khan, Controller of Accounts of BJMC mentioned to the researcher in course of an interview that fall in the demand and price of jute goods in the international market and the increasing cost of production were among other things responsible for repleinishment of their working capital deficiency.

The findings show that the selected jute mills and all the mills under the Bangladesh Jute Mills Corporation have been suffering from actue working capital problem due to lack of demand and growing competition of jute goods in the international market.

Table 5.23 Distribution of Respondents on the following modern techniques of Inventory Management.

Opinion of respondents	Frequency	Percentage	
1. Minimum level	4	19.08	
2. Maximum level	<u> </u>	9.52	
3. Re-order level	ACTOR No. 5	23.80	
4. Economic order quantit	y 1	4.76	
5. Perpectual inventory s	ystem 2	9.52	
6. ABC analysis	3	14.28	
7. Inventory Audit	3	14.28	
B. Standardisation and va	riety 1	4.76	
9. Others	-	-	
Total	21	100.00	-

On the question of following modern techniques of inventory management in the selected jute mills, 19.08 respondents mentioned that they follow minimum level, 9.52 percent follow maximum level, 23.80 percent follow re-oder level, 4.76 percent follow economic order quantity. 9.52 percent follow perpetual inventory system, 14.28 percent follow ABC analysis, 14.28 percent follow inventory audit and only 4.76 follow stanardisation and variety reduction techniques of inventory management.

The findings show that majority of the respondents mentioned, minimum level, re-order level, ABC method and Inventory audit are followed as techniques of inventory management.

Table 5.24 Showing the distribution of respondents on suggested norms for holding different groups of inventory for maximum period (for jute mills)

Work-in-

Finsihed

Stores &

Maximum

Raw Material

period	iod proces		goods		Verif	Spare!				
							L	ocal	Impo ted	3F
	Freq.	31/	Freq.	%	Freq.	7.	Fr	eq. %	Freq	. %
0-10 days			6	60.00		-			_	
10-15 "	2	20.00	4	46.194		1000	-			-
15- 1 mon	th -	+44	-	-	6	-	****	See	* ***	
1 - 2 mont	hs 3	30.00	100	40.00	4	60	9	90.00	-	
2-3 "	4	40.00	-	-	-	40	1	10.00	3	****
3 -4 "	-	-	-	-	PH .	100	-	100	Time.	
4 - 5 "	-	-	eter.	-	-	-	-	***		4000
5- 6 "	1	10.00	104	-	100		-	200	7	-
Over 6 "			-	-	-	-	-	-	-	-
Total	10	100	10	100	10	100	10	100	10	100

The table shows that majority (40 percent) respondents suggested to hold raw material inventory (raw jute) for a maximum period of 3 months. Sixty percent respondents suggested maximum 10 days for holding work—in—process inventory, while majority(60 percent) of the respondents suggested maximum one month for holding finished goods inventory. In case of locally available stores items, 90 percent respondents interviewed in the survey suggested a maximum period of six months for holding imported stores and spares and maximum two months period for local stores and spares.

Table 5.25 Distribution of respondents on the question of accounts receivables policy.

1. Affirmative	9	75.00
2. Negative	3	25.00
Total	12	100.00

On the question of accounts receivables policy 75 percent respondnets replied in the affirmative, while 25 percent of them replied that they had no accounts receivables policy.

The findings show that majority of the respondents mentioned that they had accounts receivables policy. But pratically, we found no such policy truly exist in the selected jute mills.

Table 5.26 Distribution of respondents on the question of appropriate norms for collection of receivables on export sales.

Maximum period	Frequency	Percentage	
0 - 1 month	6	60.00	
1 = 2 months	2	20.00	
2 - 3 months	2	20.00	
3 = 4 months	_	_	
4 - 5 months	176	-	
5 - 6 months		-	
	d block could need direct Mode to the Crisis crisis basis could be to the could be to the country of the countr	THE RESIDENCE OF THE PART OF T	
Total :	10	100.00	

It appears from the table that 60 percent respondents suggested a maximum one month should be the period for collection of receivables on export sales, 20 percent respondents suggested maximum 2 months and the rest 20 percent suggested maximum three months for the collection of receivables on export sales. It may be mentioned here that about hundred percent sales of the selected jute mills are export sales.

The findings show that a majority of the respondents suggested ideal norm for collection of receivables in export sales for a maximum period of 1 month.

Table 5.27 Distribution of respondents on the question of preparation of cash budget.

Opinion of Respondents	Frequency	Percentage
1. Affirmative	8	100.00
2. Negative	-	
Total	8	100.00

On the question of preparation of cash budgets cent percent respondents replied in the affirmative. But they mentioned that they prepare cash budget on yearly basis. On the questions of monthly cash budget, only 29 percent responding replied in the affirmative, while 71 percent replied in the negative.

The findings show that most of the selected public sector jute mills prepare cash budget on yearly basis, but very few of them prepare it on monthly basis. But monthly cash budget is very important for effective controlling of cash.

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5.4 AN ANALYSIS AND FINDINGING IN COTTON TEXTILE INDUSTRY

Data Collected from primary and secondary sources have been processed through mannually, using statistical method, such as, statistical averages, ABC Method, and through financial ratio analysis. This study is mainly limited to the time series analysis and cross section analysis of empirical data, compared with specific inventory norms of Bangladesh Textile Mills Corporation and the invnetory norms of the Cotton textile industry prescribed by the Tandon Study Group of the Reserve Bank of India.

^{4.} Reserve Bank of India: Report of the study group to frame guidelines for follow-up Bank Credit, Bombay, 1975, p20.



Table 5.28 Percentage of Working Capital to total capital employed in the selected public sector cotton textile mills during 1982-83 to 1986-87

Years	Monnon(ald)	Quaderia	Satrang	Average of
				three mills
1982-83	85.16	90.58	78.89	84.87
1983-84	85.94	92.40	80.19	86.17
1984-85	88.55	91.97	85.88	88.80
1985-86	85.51	88.17	81.11	84.93
1986-87	81.40	87.21	74.02	80.87
Average of 5 yrs.	88.15	89.67	81.36	85.39

Source: Annexure-IV to VI

- N.B: 1. Total current assets is considered as working capital in this study.
 - 2. Total assets has been treated as total capital employed.

The above table shows that average investment in working capital was as high as 85.39 percent in the selected public sector cotton textile mills during the study period. The study also reveals that there is wide variation from 74.02 to 92.40 percent in the selected mills.

The findings show that average investment in working capital was very high compared to standard in all the selected cotton mills. Thus, the findings show that the working capital requirement by the enterprise is not calculated or determined in an objective manner.

Table 5.29 Turnover of Working Capital in the selected public sector cotton textile mills during 1982-83 to 1986-87

Years	Monne(eld)	Quaderia	Satrang	Aaverage of three mills
1982-83	1.97	1.60	1.95	1.84
1983-84	1.48	1.20	2.14	1.57
1984-85	1.01	0.84	1.43	1.09
1985-86	1.11	1.37	1.75	1.41
1986-87	1.46	1.29	1.93	1.56
Average of 5 yrs	1.40	1.26	1.81	1.48

It appears from the above table that the average turnover of working capital varies from 1.09 times to 1.84 in the selected cotton textile mills during the study period. The average turnover of working capital was 1.40. 1.20 and 1.81 in Monnon(old), Quaderia and Satrang textiles respectively, while industry average was 1.48 during the study period. The turnover of working capital was 2.05 times for both years in 1979-80 and 1980-81 in the 48 Indian Cotton textile mills. Compared to Indian cotton textile mills none of the selected textile mills fulfill working capital turnover standard. Thus the findings show that there is inefficiency in the proper utilisation of working capital in the selected public sector cotton textile mills in

Bangladesh.

Table 5.30 Percentage of inventory to Gross working capital in the selected textile mills during 1982-83 to 1986-87

Years	Monno(old)	Quaderia	Satrang	Average of three mills
1982-83	39.94	37.64	41.97	39.85
1983-84	59.90	47.25	54.65	53.93
1984-85	63.32	62.25	50.81	58.79
1985-86	49.20	42.41	39.40	40.98
1986-87	29.24	37.11	56.60	40.98
Average of five	48.32 years	45.33	48.64	47.44

Source : Annexure-IV V & VI

N.B: Calculation have been made by us.

A glance at the table 5.30 indicates that the inventories occupy a major proprotion of the working capital that have been invested in the different selected units of BTMC during the period of study.

However, the average percentage of inventories to working capital of all the mills was 47.44. Thus, we find that in all the cases the percentage of inventories to working capital was very high and naturally it could be infurred that, because of the high percentage of investment in inventories, a considerable fund has been blocked up in inventories, which affected the net working Capital position of all the mills during period under study.

Table 5.31 Inventory Turnover ratio in the selected textile mills during 1982-83 to 1986-87

Years	Monno(old)	Quaderia	Satrang	Average of three mills
1982-83	4.39	4.18	4.51	4.36
1983-84	2.21	2.34	3.25	2.60
1984-85	1.15	1.17	2.12	1.48
1985-86	2.32	3.13	4.19	3.21
1986-87	4.31	2.39	2.98	3.42
Average of 5 yrs	3.41	2.84	3.25	3.16

Source: Annexure- IV V & VI

Table 5.31 shows that the average inventory turnover ratio of the selected units of BTMC had a declining trend from 1982-83 upto 1984-85, but 1986-87, the ratio increased, that could not exceed the ratio of base year (1982-83). A look at the table indicates that the industry averages of the inventory turnover ratio for different years are in between 1.48 to 4.36 times and on an average it was 3.16 times. The turnover of inventories O.F 52 Indian Textile mills was. however. 4.42 times 5 in the year 1978-79. As compared to this, the turnover rates the selected units of BTMC for all the years under study low. This also reveals that there is over-investment inventories in the selected textiles of BTMC during the USA, the average turnover of inventories is seven times. This also expalins about the abnormal position with respect to the turnover of inventories, in the selected textiles of BTMC.

A.T.M. Tofazzal Hossain(1984), "Management of working capital in cotton textile industry of Bangladesh", unpublished Ph.D. thesis, University of Kalayani, P 93.

^{6.} Ibid.

Table 5.32 Percentage of Stores & Spares inventory to aggregate inventory in the selected textile mills during 1982-83 to 1986-87

Years	Monno(old)	Quaderia	Satrang	Average of three mills
1982-83	49.44	60.30	54.03	54.59
1983-84	21.55	62.15	33.70	39.12
1984-85	63.47	55.41	26.16	48.35
1985-86	54.40	67.83	49.74	57.32
1986-87	63.74	47.34	59.06	56.71
Average of 5 yrs	50.52	58.60	44.53	51.21

Source : Annexure- IV, V & VI

N.B: Calculation have been made by us

Table 5.32 reveals that the average percentage of stores & spares to total inventory was highest 58.60 in Quaderia Textile and lowest 44.33 in Satrang textiles. The industry average was 51.21 of all the selected textiles during the period under study. The average percentage of stores & spares was 50.52 in the Monno(old) textile. However, there was exessive stock of stores and spares in all the selected cotton textile mills of BTMC under study. cotton textile mills more than eightly percent of stores and spares are imported, compared to twenty percent of jute mills. Procurement of stores is more complicated in cotton mills. Purchase is done through tender, but purchase procedure does not conform to five F's of sound procurement policy. An industrial enterprise shoold purchase right quantity, at right quality, at right time, at the right price and from the right source. visist to godown, it was found that items which would be used with minor repairs have been dumped and new items are purchased. This represents attempts to leak out working capital.

Table 5.33 Table showing position of stores & spares inventory on ABC Categoriwise with their Annual Average consumption & stock held on 30.6.1986.

						laka	in lakh	
Annaul consu- mption	Stock held	"/u	Annaul	Stock	"/.	Annual consu- mption	Stock held	"/ _u
	26.03	65.16		18.45	62.6Ø		68.33	70.00
	8.71	21.80		7.69	26.10		19.52	20.00
	5.21	13,04		3.33	11.30		9.76	10.00
. 79	3995	100%	28.60	29.47	100	23,53	97.61	100%
	Annaul consu- mption	Annaul Stock consumption 26.03 8.71 5.21	Annaul Stock % consu- held mption 26.03 65.16 8.71 21.80 5.21 13.04	Annaul Stock % Annaul consumption held consumption mption 26.03 65.16 8.71 21.80 5.21 13.04	Annaul Stock % Annaul Stock consumption held consumption 26.03 65.16 18.45 8.71 21.80 7.69 5.21 13.04 3.33	Annaul Stock % Annaul Stock % consumption held consumption 26.03 65.16 18.45 62.60 8.71 21.80 7.69 26.10 5.21 13.04 3.33 11.30	Monno(old) textile Quaderia textile Satrang Annaul Stock % Annaul Stock % Annual consumption mption mption 26.03 65.16 18.45 62.60 8.71 21.80 7.69 26.10 5.21 13.04 3.33 11.30	Annaul Stock % Annaul Stock % Annual Stock consumption held consumption mption 26.03 65.16 18.45 62.60 68.33 8.71 21.80 7.69 26.10 19.52 5.21 13.04 3.33 11.30 9.76

From the Table 5.33, it appears that in Monno(old) textile held 39.95 lakh out of the total Tk.97.61 lakh stores & spares inventory, A Category covers an amount of Tk. 68.33 lakh which constitutes 70% of the total stock, B Category covers an amount of Tk. 19.52 lakh constituting 20% of the total stock held and C Category covers an amount of Tk. 9.76 lakh constituting 10% of the total value of the stock held on 30th June, 1986. While in Quadria textile mills the percentages of A, B & C categories items of stores held were 62.60, 26.10 and 11.30 lakh taka respectively. In Satrang textile mills A, B & C categories of stock held on 30th June, 1986 were Tk. 26.03, 8.71 and 5.21 lakhs and their percentages were 65.16, 21.80 and 13.04 respectively.

Table 5.34 Table showing the monthly average consumption of stores & spares of all categories, stock held standard stock & excess stock held of all the selected textiles as on 30th June. 1986.

			Taka ir	ı lakh
Description ABC items.	Monno(old)	Quaderia	Satrang	Total of excess stock
Annual consumption	23.53	28.60	13.97	
Monthly consumption	1.96	2,38	1.16	
Stock held	97.61	29.47	39.95	
Standard stock	5.88	7.14	3,48	
Excess stock	91.73	22.33	36.47	
			Total T	k.150.53

Table 5.34 protrays that annual consumption, average monthly consumption, total stock of stores held on 30th June, 1986, the estimated standard stock as per the BTMC guidelines (3 months average consumption) and the estimated excess stock held on 30th June, 1986 by all the selected textile mills of BTMC. Form the table below it appears that there was huge excess stock on 30th June, 1986 in all the selected textile mills. The excess stock held by Monno (old, Quaderia and Satrang textiles were Tk. 91.73 lakhs, Tk.22.33 lakhs and Tk.36.47 lakhs respectively. By reducing the excess stock all the selected mills together, could save Tk. 21.07 lakh as interest only on blocked fund, as calculated below:

			Taka in lakh
	+		
1 .	Monno(old) Textile mills interest on Tk.91.73	@ 14%	12.84
2.	Quaderia Textile @ 14% interest on Tk. 22.33		3.13
3.	Satrang textile @ 14% interest on Tk.36.47		5.10
			sees that come petro the court date again their part that part the start that the
		Total:	Tk. 21.07 lakhs

Table 5.35 Percentage of total receivables to working capital (current assets) in the selected public sector cotton textile mills during 1782-83 to 1786-87

Years	Monno(old)	Quaderia	Satrang	Average of three mills
1982-83	48.34	48.41	23.86	40.20
1983-84	32.43	127 min 127 mi	28.12	31.92
1984-85	36.57	29.72	20.98	29.08
1985-86	50.57	43.29	31.04	41.63
1986-87	70.76	48.29	36.22	50,03
Average of 5 yrs.	47.73	40.98	28,04	38,57

It is evident from the table that average percentage of receivables varies from 29.08 to 50.03 percent in the selected mills. The industry average of all the years is 38.57. Another notable feature of the table is that percentage in certain mills vary widely from year to year. In Monno(old) textile the average

percentge of receivables to working capital varies form 29.72 in 1984-85 to 70.76 in 1986-87.

The findings show that high percentage of fund is blocked in receivables in the selected mills during the study period. The findings suggest that an innovative norm or model is an urgent need for efficient management of receivables in public sector cotton textile industry.

Table 5.36 Percentage of Accounts Receivables(Trade debtors)
to working capital(current assets) in the selected
public sector cotton textile mills during 1982-83
to 1986-87.

Years	Manna (ald)	Guaderia	Satrang	Average of three mills
1982-83	23.08	4,05	4.46	10.53
1983-84	14.29	3.13	8.31	7.57
1984-85	25.13	20 127	7.32	11.67
1985-86	23.87	3.95	14.57	14.13
1986-87	36.80	12.21	16.52	21.84
	24.63	5.18	10.52	13.14

The above table depicts the percenage of trade debtors to working capital in the selected mills during 1982-83 to 1986-87. It appears form the table that average percentage of trade debtors to working capital varies from 7.57 to 21.89 percent in the selected mills during the period of study. The industry average of all the years is 13.14. The average percentage of trade debtors to working capital was found very high as 36.80 in 1986-87 in Monno Textiles, while the same was lowest in the Quaderia textiles mills (5.18).

Table 5.37 Fercentage of Cash to Working Capital(current assets) in the selected public sector cotton textile mills during 1982-83 to 1986-87.

Years Monno(ol)		Quaderia	Satrang	Average of
				three mills
1982-83	11,11	14.71	34.11	19.97
1983-84	7.50	17.61	17.00	14.03
1984-85	0.19	7.96	28.21	12.12
1985-86	0.09	14.14	29.55	14.59
1986-87	0.02	14.52	6.60	7,04
Average of 5 yrs.	3.78	13.78	23.09	11.35

The above table reveals the percentage of cash to total working capital in the selected mills during 1982-83 to 1986-87. It appears from the table that average percentage of cash to working capital varies from 7.04 to 19.97 percent in the selected cotton mills. The percentage was found very low in Monno(old) and relatively very high in Satrang textiles.

The findings show that none of the selected units under BTMC maintains an uniform cash balance. Absence of an innovative norm or model is responsible for inefficient management of cash in the selected public sector cotton textile mills.

Table 5.38 Fercentage of met cash flows to current liabilities in the selected phulic sector cotton textile mills during 1982-83 to 1986-87

Years	Monno(old)	Quaderia	Satrang	Average of three mills
by body were many count must been seen and	- 1100 1007 1008 1008 1000 1000 1000 1000	A Sect of the state of the stat		
1982-83	20.78	91.28)	(19.57)	(0.02)
1983-84	22,77	1.59	(61.35)	(12.33)
1984-85	8.17	(3.18)	(49.68)	(14.22)
1985-86	1.96	(15.57)	(53.06)	(22.22)
1986-87	24.51	(15.57)	(82.90)	(25.65)
Average	15.03	(7.12)	(53.31)	(14,88)

The above table reveals the percentage of net cashflows to current liabilities in the selected cotton textile mills during 1982-83 to 1986-87. The average percentage of cash flow of all the years was (14.88). The average percentage of net cash flows to current liabilities was 15.03, (7.12) and (53.31) in Monno(old), Quaderia and Satrang textile mills respectively.

The findings show that except Monno(old) the majority of the selected mills have been suffering from shortage of net cashflows and thus the solvency of cotton textile mills is at stake, while actual solvency of the selected mills is mainly based on percentage of net cashflow to current liabiliteis.

Table 5.39 Cost Breakdown ratios (i.e. cost on percentage of sales) in the selected public sector cotton textile(spinning) mills during 1982-83 to 1986-87

Years	Monnon (al.d)						Quaderia				Satrang				
	% Mat cost	% Lab. cost	Overhead cost	% Admn. expn.	Selling expn	Met. cost	Lab. cost	X Overhead cost	% Admn. expn.	X Selling expn.	% Mat. cost	Lab. cost	Over- head cost	. % - Admn. expn.	% Selling expn.
		13.37	10.03	3 10		74.14	11.16	11 14.	3.96		64.00	12.21	20.64	4. 83	THE STATE STATE STATE AND ADDRESS SALES.
	1 62.67			3.34		67.58	11.07	24.26	5.02	****	75.73	14.39	11.64	17.57	
	5 74.40		11.72	4.28	46111	71.10	18.22	12.63	19.01	\$P.4.10\$	62.14	16.03	11.09	18.34	
1985-86	5 55.91	. 28,05	10.31	7.82	e needy	51.03	20,25	12.71	14.99	*****	52.39	28.87	975	17.68	
984-87	7 44.37	27.34	11.63	6.09	Made 4	46.96	25.83	15.14	16.78	****	50.78	24.41	13.67	14.64	-
	e 60.23	21.10	10.88			62.16			11.95		61.00	17.18	13,35	14.61	

The above table of cost breakdown ratio analysis each element of cost in percentage in relation to sales, taking sales in the selected cotton textile mills during 1982-83 to 1986-87. The average percentage of material, labour production & administrative expenses was 60.23, 21.10, 10.88 and 4.94 in the selected Monno(old) textile mills during the study period. The percentage of material, labour, production and administrative expenses was 62.16, 17.30, 15.18, 11.95 and 61.00, 11.18, 13.35 and 14.63 in the selected Quaderia and Satrang textiles respectively. While the industry average percentage of material, labour, production and administrative expenses was 61, 18.33, 13.13 and 10.50 respectively.

The findings show that cost of sales of all the selected mills is abnormally high which leaves negative margin in seclected cotton tex.mills. The findings give answer our earlier hypothesis (chapter-1) the lack of cost control over expenditure aggravate the working capital management problem in the selected cotton textile mills in particular, and public enterprise in general.

5.5. QUESTIONNAIRE ANALYSIS AND FINDINGS:

The following analysis and findings have been presented on the basis of questionnaire schedule IV as shown in annexure -X. V.

The answer of respondents of the selected public sector cotton textile mills of Tongi Zone and Bangladesh Textile mills Corporation are analysed in the following tables. In all sixteen executives were interviewed who were directly related to working capital management.

The findings of the study on the basis of primary data are analysed below:

Table 5.40 Distribution of respondents according to age

Age group	Frequency	Percentage
1. 30 - 40 yr	5. 4	25.00
2. 40 - 50 yr	e	## A 2 ##
3.50 - 60 yr		18.75
4. Over 60 yr	5.	
Total	14	100.00

It appears from the table out of 16 executives in the public sector cotton mills 9 belonged to 40-50 years age group, 4 belonged to 30-40 years and 3 were in the age group of 50 to 60 years.

The findings show that 56.25 percent belonged to 40-50 age and only 25 percent were in the age group of 30-40 years. So, majority of executives were in the age group between 40 to 50 years.

Table 5.41 Showing distribution of respondents on the poor cashflow generation.

Opinion of respondents	Frequency	Percentage
1. Agree	\$ 100 Mark 1000	The control form and the control of
2. Strongly agree	3	18.75
3. Disagree	4-1	25.00
4. Strongly disagree	1.00 ca	Name of a
5. Undecided	1	6.25
Total	16	100.00

On the question of poor cash flow generation in the selected mills .50 percent respondents agreed and 18.75 strongly agreed that the mills had been suffering from poor cashflow generation. But 25 percent respondents disagreed and 6.25 were undecided to the above view.

The findings show that majority respondents mentioned that poor working capital position was due to poor cash flow generation of the selected cotton mills during study period.

Table 5.42 Distribution of respondents on the inadequate cost accounting and cost control system.

Opinion of respondents	Frequency	Percentage
1. Agree	6	57 20
2. Strongly agree	45	37.50
3. Disagree	4	25.00
4. Strongly disagree	-	.17***
5. Undecided	39300	e Marie
Total	14	100.00

On the question of lack of adequate cost accounting and cost control system, 37.50 percent respondents agreed and 37.50 percent strongly agreed that lack of adquate cost accounting and cost control system were responsible for poor working capital management in the selected public sector cotton textile mills during study period. But 25 percent disagred to the view. The findings reveal that 75 percent respondents confirmed our hypothesis, that there is inadequate cost accounting and cost control system in the selected mills resulting poor working capital management.

Table 5.43 Distribution of respondents on suggested norms for holding different groups of inventory for maximum period.

Maximum period	Raw Material Inventory (Imported)		Work-in-process		Finsi <mark>he</mark> d goods		Stores & spares	
	Frequency	Percentage	Frequency	Percentage	Frequ <mark>en</mark> cy	Percentage	Frequency	Percentage
0- 15 days	D CALLED PARKED TO AND MALANCE BASING SPECIAL CALLED LATTER STATES AND ADDRESS.	AND DIMES MANY MISS DIVIS THAT THEY MAY MANY MANY MANY MANY MANY	4	95.71	T MANE PROOF 123-1 0-0-02 20-0-7 SHIRL SEED SHIPLY Garage as 201 MANEY SEGME SHIPL	er remain jaron maren despet gener andere libert erdet mett ment minde ultil diter servi		er deler terre derre blere deler deler blere omne men er me ser se
0 - 1 month	2	20.00	j.	14.29	8	89.00	.4.	2000 - 2020
1 - 2 months	22	20.00					2	16.67
2 - 3 months 5 - 4 months 4 - 5 months	6	6 0. 00			1.	11.00	6	E (2) , (2) (2)
5 - 6 months Over 6 months				/- max 110; max mil mil 100; wax mil 100; bax mil 100; bax mil 100;				
Total	1. (2)	100.00	7	100.00	9	100.00	1.2	100.00

It appears from the table that 60 percent respondents suggested maximum three months for holding raw material inventory in the selected cotton mills, 20 percent suggested for one month and other 20 percent suggested maximum period of 2 months for holding the same.

85.71 percent responding suggested a maximum of 15 days should be the appropriate norm for holding work-in-process inventory and the rest 14.29 percent suggested maximum 1 month. In case of finished goods, about 80 percent respondents suggested one month for holding the same in the selected cotton mills. A maximum 3 months was suggested for stores and spares.

The findings show that the majority of respondents suggested a maximum period of 3 months for holding raw material inventory, a maximum period of 15 days for work-in-process, a maximum one month for finished goods and maximum 3 months for holding sotres and spares inventory in the selected cotton textile enterprises under BTMC. In reply to question for holding imported stors and spares, najority of respondents suggested a maximum period of six months should be the appropriate norms for holding imported stores and spares inventory.

Table 5.44 Distribution of respondents on the centralised buying raw cotton, affecting working capital.

Opinion of respondents	Frequency	Percentage
1. Affirmative 2. Negative	10 2	83.33 16.66
Total	1.2	100.00

In a reply to a question, whether the centralised buying of raw cotton by BTMC complicate the working capital problem of enterprises, 83.33 percent respondents replied in the affirmative and only 16.66 percent respondents replied in the negative. In support of their view they mentioned that BTMC imports the raw cotton centrally and allot to every mill on quota basis, whether they require it or not. The whole lot of quota of each enterprises had to be lifted at a time, which blocks the working capital of individual mill. The above view was disagreed by top officials of BTMC. Corporation officials mentioned that enterprise management is incompetent in understanding economic and diseconomics of raw cotton procurement. The enterprise were critical about the procurement manadement Corporation. They want procurement power to be decentralised, which in the opinion of Corporation's top management is not possible, because Corporation cannot purchase cotton on cash, or credit. They are to depend on aid and loans and also on barter agreement, particularly with socialistic countries. This work which is suitable to be handled centrally and with constant cooperation with different relevant ministries.

Table 5.45 Distribution of respondents on the question of low purchasing power by poorer customers and demand for foreign goods by richer customers complicate finished goods inventory system.

Opinion of respondents	Frequency	Percentage
1. Affirmative 2. Negative	8 4	66.67 33.33
Total	12	100.00

On the above question, 66.67 percent respondents replied in the affirmative, and only 33.33 respondents replied in the negative.

The findings show that majority of respondents mentioned that low purchasing power of the poorer section and clamour for foreign clothes by the richer section of customers, a huge stock of finished goods accumulated in cotton textile enterprises. In support of their view, they mentioned that a huge quantity of Indian cotton goods came to Bangladesh through smuggling. The richer section of customers are very much fond of indian clothes and specially ladies sarees. They also mentioned that a sizeable protion of poorer section buy also Indian clothes, as the inferior quality of those clothes are cheaper than Bangladeshi clothes.

Table 5.46 Distribution of respondents on the question of preparation yearly and monthly cash budget.

Opinion of	Yearly	Monthly	Percentage	Percentage
Respondents			Yearly	Monthly
1. Affirmative	Ó	2	75.00	25.00
2. Negative	2	6	25.00	75.00
Total	8	8	100.00	100.00

On the question of preparation of yearly cash budget 75 percent respondent replied in the affirmative and the 25 percent replied in the negative. On the question of monthly cash budget, only 25 percent respondents replied in the affirmative, while 75 percent of them replied that they did not prepare any cash budget on monthly basis.

The findings show that a majority on the selected cotton mills prepare cash budget on yearly basis, for submission to Corporation and Ministry of Finance. A good management is one which prepare monthly rather weekly cash budget which enables them, when to take loan and for which period and to ensure surplus cash if any to be kept in STD Account which yields some gain. The examination of records has shown that monthly cash budget is not prepared and the necessity of weekly cash budget is not felt at all.

5.6 SUMMARY

The analysis and findings of the study revealed many things about the inefficiency of working capital management in the selected public enterprises of jute and cotton textile industry and have answered many previous questions. The findings revealed that there is inefficiency in managing working capital properly in general and more particularly, the inefficiency in inventory, receivables and cash management are affecting the proper management of working capital in the selected public enterprises. The findings from time series and cross sectional data analysis reveal that there is heavy investment of fund in inventory and receivables component of working capital, but the investment in cash is very low in public sector jute mills, but cash was found excess in cotton textile mills compared to our suggested model.

The findings suggest that a innovative working capital management model/norm in an urget necessity for proper working capital management in public enterprises in Bangladesh and the development of such model/norm is the prive objective of this research study.

CHAPTER - SIX

A COMPARISON OF WORKING CAPITAL MANAGEMENT POSITION BETWEEN PUBLIC AND PRIVATE SECTOR JUTE AND COTTON TEXTILE MILLS.

6.1 Introduction

The object of this chapter is to present a comprative picture of the state of working capital management between the selected public vs private sector jute and cotton textile mills. Since the sample of the present study was taken in such a way that three public sector jute mills of different sizes can be compared with the three private sector jute mills of similar sizes and the three public sector cotton (spinning) mills with the three cotton mills of similar type in the private sector. In the national context, such a comparison between public private sector, especially on the vital issue of working capital management after disinvesting 27 cotton and 33 jute mills from public to private sector after 1982 has not been made and this chapter provides an interesting perspective. It will enable us to have better insights as how working capital management position of public sector compares with private sector in terms of efficiency and particularly to liquidity, solvency and profitability of business.

Six main sections comprise this chapter. The source of the comparative data is covered in section on 6.2, whilst comparative analysis and findings of the selected jute mills and cotton textile mills are presented in section 6.3 and 6.4 respectively on the basis of time series data. On the basis of cross sectional data X analysis and test are done on section 6.5, inventory, receivables and cash management respectively. Finally a summary is given in section 6.6.

6.2 The data Source and Analysis.

The data for comparative purposes were collected from the audited Annual resports of the selected companies. These data are presented as an aggregate balance sheet, profit & loss account and sources and uses of funds for all sample companies. Therefore, it should be kept in mind that the data permit an aggregate comparison only.

The latest available data from the selected mills are for 1982-83 to 1986-87. Therefore, the comparsion is made for the period 1983 to 1987.

6.3 Comparative Analysis of working capital position and findings between the selected public and private sector jute mills.

Table 6.1 depicts that the average percentage of gross working capital to total capital employed is alarmingly as high as 87.79 and 85.03 of the selected public and private jute mills respectively during 1982-83 to 1986-87. The average percentage of

working capital to total capital employed was highest in small public jute mills (88.20), while, the same lowest 81.59 in small jute mills of private sector. The above analysis throws sufficient light to the fact that compared to total capital employed, there has been a higher percentage of investment in working capital in both the selected public and private sector jute mills during 1982-83 to 1986-87.

Table 6.2 shows the comparative turnover of working capital in the selected public and private sector jute mills during 1982-83 to 1986-87. It appears from the Table 6.2 that the average inventory turnover ratio was 1.82 in selected public sector jute mills compared to 2.25 in the private sector jute during the period under study. Normally the inventory ratio should be 4.29 as per the Tandon Committee Report of the Reserve 1 Bank of India. However, all th jute mills both in public and private sector could not satisfy this norm.

Table 6.3 highlights the comparative percentage of inventory position to current assets in the selected public and private jute mills during 1982-83 to 1986-87. It is found from the table 6.3 that the average percentage of inventory to total current assets in the selected public and private sector jute mills was 65.95 and 65.53 respectively. So, there is little variation between public and private jute mills with regard to average percentage of inventory to total current assets.

^{1.} A.C. Saha(1982), A study of some problem of working capital management in the jute mills of Dhaka Zone, Bangladesh, unpublished Ph.D thesis, University of Baroda, p 176.

Table 6.4 depicts the comparative percentage of total receivables to working capital in the selected public and private sector jute mills during 1982-83 to 1986-87. It appears from the table that average percentage of recceivables to working capital in the selected public and private jute mills were 30.90 and 28.92 respectively during the study period. Although the average percentaage of receivables to working capital was 2 percent higher in public sector compared to private sector jute mills during the study period, but there is no significant difference between them so far the percentage of receivables to working capital is concerned. However, it is clear from the analysis that a sizeable amount of funds are locked up in receivables in the selected public and private sector jute mills during 1983-87.

Table 6.5 shows the comparative percentage of Trade debtors to working capital in the selected public and private jute mills during 1982-83 to 1986-87. The average percentage of trade debtors was found 14.63 in the selected public sector jute mills, while the same was found only 9.67 percent in the private sector jute mills for the study period. It seems private jute mills are very prompt in collecting bills from customers compared to public sector jute mills. But individually the average percentage of receivables was higher 16.60 in big private jute mills compared to only 11.92 of the same in public sector during the study period.

Table 6.6 highlights the comparative percentage of cash position to total current assets in the selected public and private sector jute mills during 1982-83 to 1986-87. Cash is vital component of working capital. Guthman suggested that percentage of cash to working capital shows the efficiency of cash management as a determinant to working capital management.

Table 6.6 reveals that the average percentage of cash to working capital were 2.02 and 2.69 in the public and private sector jute mills respectively during 1982-83 to 1986-87. Some authorities think that the cash in a well financed company should not be less than 5 to 10 percent of working capital. Experience shows that strong companies always have cash sufficient to cover all current indebtedness. Coampared to that cash was very much low in both the public and private sector jute mills under study.

^{2.} Ibid. 5. A.C. Saha. Ibid p 186 6. Ibid. p 187

^{3.} A.C. Saha, Ibid p 187.

Table 6.1 Comparative percentage of working capital (i.e. current assets) to total capital employed (operating assets) in the public and private sector jute mulls during 1982-83 to 1986-87.

Years							
	LEJM (big mill)	KJM (medium mill)					
1982-83	86.37	85.33	79.36	83.69			
1983-84	81.25	88.79	85.06	85.03			
1984-85	87.12	90.70	91.08	89.63			
1985-86	92.45	88.05	92.53	91.01			
1986-87	90.97	84.63	93.00	89.53			
	87,63	87.50	88.20	87.79			

	CJMC Ltd. (big mill)	VJP Ltd. (medium mill)	NJM Ltd. (small mill)	Average of three mills
1982-83	84.44	82.92	67.56	78.11
1983-84	91.81	86.30	79.14	85.54
1984-85	93.77	90.27	83,83	89,29
1985-86	91,50	78.15	87.11	95.58
1986-87	90.36	79.40	90.10	86.62
	90.35	83,29	81.54	85.03

Source: Annexure I, II, III, VII, VIII & IX (Fact Method) Balance sheet information.

CJMC = Chittagong Jute Mfg. Company Ltd.

VJP = Victory Jute Products Ltd.
NJM = Noapara Jute Mills Ltd.

6.2 Comparative inventory turnover ratio in the selected public and private jute mills during 1982-83 to 1986-87

Years		THE CHARLES AND ADDRESS AND ADDRESS AND ASSESS ASSESS AND ADDRESS		The tree of the tree that the tree tree tree tree tree tree tree
	LEUM	KJM	MBGM	Average of
	(big mill)			
	1,92	2,70	4.58	2.89
1983-84	3.22	1.41	1.37	2.00
1984-85	1.41	1.43	0.54	1,13
1985-86	1.40	1.59	0.52	1.17
	1.70	2,49	1.97	2.06
	1.91	1.82	1.73	1.82

ears CJMC Ltd.		VJP Ltd.	NJM Ltd.	Average of
	(big mill)	(medium mill)	(small mill)	three mills
1982-83	2.55	0.61		1.83
1983-84	2.09	0.48	1.159	1.38
1984-85	2.49	3,37	2.46	2.77
1985-86	21.23	4.29	1.71	2.74
1986-87	2.40	2.19	2.99	2.51
Aveage		2,19	2.21	25 - 25 KB

6.3 Comparative percentage of inventory to current assets (i.e. gross working capital) in the selected public & private sector jute mills during 1982-83 to 1986-87.

Years	LBJM (big mill)	KJM (medium mill)		
1982-83	67.12	59.54	68.20	64.95
1983-84	70.10	57.95	59.77	62.61
1984-85	75.51	75.18	68.10	72.93
1985-86	75.63	56.45	65.78	69.29
1986-87	49.88	55.18	EE. 82	60.29
Aveage	71.64	62.86	63,53	65.75

	CJMC Ltd. (big mill)	VJP Ltd. (medium mill)		Average of three mills
1982-83	30.97	45.33	67.61	54.63
1983-84	70.49	72.12	63.61	48.74
1984-85	73.44	73.20	63.84	70.16
1985-86	75.58	64.86	61.30	67.24
1986-87	48.33	75.40	49.05	64.26
	63.76	71.16	61.08	65.00

6.4 Comparative percentage of total receivables to working capital (current assets) of the selected public and private sector jute mills during 1982-83 to 1986-87.

Years	harm chom being asser reses afree ruses areas passe core core more appel as	MAN BENTA 2000 TOOM OFFICE STREET WEEK TEETS WITH SHEET CHEST GROVE SWITT GROVE SWITT GROVE STREET GROVE STREET	the filters produce would assess former (filter produce after, and on a court suggest domina a court	*****
	LBJM	KJM	NBJM	Average of
	(big mill)	(medium mill)		
1982-83	31.61	36.99	29.30	32.63
1983-84	30.31	25.17	37.98	31.15
1984-85	23.51	23.67	28.50	25.13
1985-86	24.09	30.03	33,13	29.08
1986-87	29.37	39.73	40.54	36.55
	27.77	31.09	33.89	30.90

	CJMC Ltd. (big mill)	VJF Ltd. (medium mill)	NUM Ltd. (small mill)	Average of three mills
1982-83	45.41	40.41	31.66	39.16
1983-84	16.11	21.72	34.52	24.11
1984-85	18.31	19.83	33.71	23.95
1985-86	23.34	24.04	34.80	27.39
1986-87	27.48	19.32	43,28	30.02
Aveage	26.13	25.06	35.59	28,92

6.5 Comparative percentage of accounts receivable (trade debtors) to working capital(total current assets) in the selected public and private sector jute mills during 1982-83 to 1986-87.

Years LBJM	PRES MANGE ROOMS ALONG ALONG \$2100 FT.FT THESE SHEET FALLS SHOW FIRE OF			THE RESIDENCE THE PERSON STREET PERSON ASSESSMENT ASSES
	LBJM	KUM	MEGM	Average of
	(big mill)	(medium mill)		
1982-83	12.48	16.83	16.25	15.19
1983-84	12.78	11.48	22.09	15.45
1984-85	9.77	8.67	16.48	11.64
1985-86	13.10	17.64	17.25	15.99
	11.48	14.94	A A COLUMN	14.91
	11.92	13.91	16.72	14.63

Years	CJMC Ltd. (big mill)	VJP Ltd. (medium mill)		
1982-83	30.70	10.01	17.37	19.36
1983-84	12.81	7.48	3.74	8.01
1984-85	11.54	8.48	2.15	7.39
1985-86	11.07	8.00	7.91	8.99
1986-87	15.90	6.16	11.82	11.62
	16.60	8.02		9.47

6.6 Comparative percentage of cash to total current assets (i.e. gross working capital) in the selected public & private sector jute mills during 1982-83 to 1986-87.

Years	\$341 TM-1 ,317, 1447 (001 TTM 0170 STM 0170 5011 (477, 0170 -104	Their cases cases mater bases tages makes cases 334 M (\$64.5 0.000 -0.000 0.000 0.000 0.000 0.000 0.000 0.000	CONTROL COMPANIES AND	ekter közem imted örött förör rabar sassa faagt immer cooks migge apage a
	LEGM	KJM	MEJM	Average of
	(big mill)	(medium mill)		
	1.25	3.45	2.49	2.40
1983-84	0.77	1.18	2.24	1.40
1984-85	0.66	0.36	3.00	1.34
1985-86	0.83	100 AT	1.09	1.81
	0.76	E O'9	3.63	3.16
	0.85	2.72	2,49	2.02

	CJMC Ltd. (big mill)	VJF Ltd. (medium mill)	7	
1982-83	1.00	4.26	0.72	1.99
1983-84	2.460	0.18	1.04	1.27
1984-85	0.40	1.72	2.44	1.52
1985-86	1.07	7.97	3.89	4.31
1986-87	4.18	1.27	7 . 66	4.37
	1.85	3.08	3,,15	2.69

6.7 Comparative percentage of Net Cash flows to current liabilities in the selected public and private sector jute mills during 1982-83 to 1986-87.

Years	SEATT 1-100 10-30 -7001 SEATS SEATS DESCRIPTIONS FERDY -00-0 SHADO STORE STREET	THE THIS THE STORE COLD COLD STORE SEAS STORE AND VICE STORE STORE SEAS SEAS SEAS STORE ST	It title dotte title om to baken nette didon drawk wager opens yagen yang pangg	- Pris seriel sease began saube agest parke being whole dates betwee beaut
	LBJM (big mill)	KJM (medium mill)		
1982-83	(14.18)	12.02	12.01	3.28
1983-84	(6.32)	(1.85)	18.59	3.47
1984-85	(2.47)	(19.71)	13.66	(2.84)
1985-86	(6-64)	(15.99)	(6.63)	(9.75)
1986-87	1.13	(8.18)	(18.25)	(8.43)
	(5.49)	(6.74)	3.87	(2.85)

	Camo Ltd.	var Ltd.	NJM Ltd.	Average of
	(big mill)	(medium mill)	(small mill)	three mills
1982-83	(10.41)	(32.74)	(129,58)	(57.24)
1983-84	(23,37)	(83.59)	(63.15)	(56.70)
1984-85	(40.72)	(44.76)	(79.01)	(41.34)
1985-86	(59.02)	(53.83)	(69.35)	(60.96)
1986-87	(56.64)	(51,27)	(76.48)	(61,46)
Aveage	(38.03)	(53.23)	(83.31)	(553,553)

Table 6.7 reveals the comparative percentage of net cash flows to current liabilities in the selected public and private sector jute mills during 1982-83 to 1986-87. The average percentage negative net cash flows to current liabilities was (2.85) and (55.55) in the selected public and private sector jute mills respectively during the period of study.

The position of net cash flows to current liabilities is very grave in the selected private jute mills compared to public sector. Except Nabarun jute mills in the public sector, all the selected jute mills had negative percentage of net cashflows, but Nabarun jute mills had also negative percentage of cashflows in some years. Actual liquidity and solvency of the jute mills is mainly based on percentage of net cashflows to current liabilities and coverage of current liabilities.

4. Ibid, p 266

Table 6.8 Comparative Cost Breakdown Ratios of the selected public and private sector jute mills during 1982-83 to 1986-87

						OR JU										
Yrs.	LBJM			the largest depth within worst area			KJM	them man was the second devices and the		Deler MidAN 2005E 151EE Deleve 1004 - Midde 6	and the state of t	NBJM				
	*/	7,	7.	1/4	%	%	%	1/4	"/		7.	7.	%	7.	%	1/4
	Mat.	Lab.	Over	Admn	Sell	Mat.	Lab	046	er Ad	Mr.	Sell.	Mat.	Lab.	Over	Adm.	Sell.
	cost	cost	head	ехр.	ехр.	cost	cost	hea	ad ex	p	exp.	cost	cost	head	ехр	ежр.
			cost					(1)	ost					cost		
 1982-83	39.34	27.80	14.30	1.63	2.71	34.:	22 25	38	15.46	1	80 4.21	37.81	37.16	8.13	7.00	2.03
1983-84	78.92	30.98	12.92	1.55	2,38	37.	72 29	. 21	11.84	1	69 3.25	38.66	36.69	24.00		2.78
1984-85	35.43	29.15	11.27	1.15	1.76	54.	78 26	. 1.1	8.91	2 n	52 1.97	34.42	28.14	23,43	*****	1.74
1985-86	39.00	36.00	6.20	2.26	1.76	35.	75 32	1.37	10.57	3.3	28 2.35	36.86	32.57	11,24	2.32	1.98
1986-87		39.66									22 3.76					2.3
Average of 5 vr	46.45										50 3.10				1.87	2,21

					1 L	TOR JU	J 1 L 1 1 L								
Yrs,	CJMC LTD.				V	FLT				NJM LTD.					
	% Mat. cost	% Lab. cost	% Over head	Admn	% Sell exp.	% Mat. cost	% Lab cost		% Adm. exp	% Sell. exp.	% Mat. cost	% Lab. cost	% Over head	% Adm. exp	% 8e11 exp.
	N arm bear 1000 -100 N		cost					cost					cost		-
1982-83	38.53	29.56	19.45	3.45	0.99	38,6	26.8	7 28.7	72 3.10	8 0.72	35.17	22.32	38.36	1.74	Mar e e
983-84	51.90	35.87	25.27	0.66	0.81	49.33	5 33 . 3	18 32.7	14 5.99	9 0.58	49.51	21.50	27.85	3.04	1.2
984-85	86.68	28.37	17.18	0.31	0.55	77.60	5 28.7	8 12.8	68 3.6	6 0.62	63.35	17.54	27.37	2.45	1.3
985-86	33.82	36.23	24.23	4.24	0.72	36.61	35,6	3 16.3	50 4.9	50.71	46.37	33.61	37.77	3.57	1.8
986-87	40.37	43.54	25.27	2.72	1.40	36.34	1 46.2	3 15.9	97 4.10	2 2.96	29.95	20.21	32.99	3.21	0.7
Average of 5 vr		34.71	22.28	2.27	Ø.89	47.70	33.8	7 21.1	22 4.3	7 Ø.71	44.87	23.03	32,86	2.80	1.4

Source : FACT sheet of the selected jute mills annexure-III & VII to IX.

N.B. Percentage of each component of cost has been calculated in relation to sales, taking sales as 100%.

Table 6.8 reveals that average material cost was higher in private sector jute mills compared to public sector, but there was no significant differences in labour cost between public and private sector jute mills excepting small mills. But average overhead cost was found much higher in private sector jute mills compared to public sector. Further insights into the average lowest cost per ton of Hessian, Sacking and CBC between public and private sector jute mills are shown in the table 6.9 and 6.10. Comparative elementwise lowest cost structure of hessian, sacking and CBC is shown in Table 6.11.

Table 6.9 Showing the comparative proudctwise average cost per ton (in Taka) of hessian, sacking and CBC between public (BJMC) and Private (BJMA) sector jute mills during 1987-88.

1. CE19 295 295 391 25 35 1

		<u>HESSIAN</u>		
	Cost	Export earning	Gap(Tk.)	7.
DMEB AMEB	25720 29209	21329 21788	4391 7421	17.1 25.4
Average	27465	21558	5906	21.5
		<u>SACKING</u>		
BJMC BJMA	16802 17097	13754 13126	3048 3971	18.1 23.2
Average	16950	13440	3510	20.7

C.B.C

BJMC BJMA	32208 29320	24633 24630	7555 4690	23.5 16.0
	Shows assets varies object fixed transf dayled differ	***** ****** ***** ***** ***** ***** ****	Figs soring today title strong diagon heat	
Average	30764	24641	6122	19.9

Table 6.10 Showing the comperative productwise average of five lowest cost per ton of hessian, sacking, and CBC and five highest export earnings of the same between the public and private sector jute mills during 1987-88.

		HESSIAN		
	Lowest	Highest Export earning	Gap(Tk.)	%
	(Av. 5 mills)	(Av. 5 mills)		
BJMC BJMA	23066 24367	21805 23388	1261 979	5.5
Average	23717	22596	1121	4.7
		SACKING		
BUMC BUMA	14772 14861	14623 14168	149 693	1.0
Average	14817	14395	422	2.8
		C.B.C.		
BUMC BUMA	28199 27666	23253 24347	4946 2819	17.5 10.2
Average	27933	24050	3883	13.9

All figures calculated on simple average basis.

Source: Annual Report of BJMC and BJMA, 1987-88.

Table 6.11 Showing the comparative lowest elementwise cost per ton of hessian, sacking and CBC between public and private sector jute mills during 1987-88.

	Hes	sain	8	acking	C	BC
	BJMC	BJMA	BJMC	BJMA	BJMC	AMLG
Raw jute	7118	7911	5196	5680	8395	10453
Other Mat.	701	en en en	808	562	791	766
Wages	7157	6399	4546	3660	7512	5403
Salary	1442	1601	871	787	1690	1634
Repairs	1378	1404	643	579	1673	1475
Fower	1446	1112	6 31	416	1677	1231
Interest	1063	1415	437	694	1565	1932
Others	1443	1519	698	736	2223	2346
Total:	21748	21886	13830	13114	25526	25440

Source: Annual Reports of BJMC and BJMA, 1987-88.

Table 4.9 shows the productwise per ton average cost of jute industry both in public and private sector jute mills. The average cost of production per ton of hessian was found to be much higher in private sector jute mills compared to public sector. The average cost of production per ton of hessian in private sector jute mills was found to be Tk. 29209 compared Tk.25720 in Public Sector jute mills during 1987-88. The average cost of production per ton of hessian was found Tk. 3489 more in private sector jute mills compared to public sector, but export earning from per ton of hessian was found only Tk.459 more in

private sector jute mills compared to public sector. Table 6.10 shows that the lowest average cost per ton of hessian and sacking of five private sector jute mills was higher compared to public sector. It was revealed from Table 6.11; that private sector jute mills showed Tk. 793 more for raw jute cost per ton of hessian compared to public sector jute mills. Similarly per ton raw jute cost for sacking and CBC was Tk. 484, and Tk.1658 respectively higher in private sector jute mills comapred to public sector. Similarly interest cost was much higher per ton of sacking and CBC in private sector jute mills compared to public sector. But, wages, salary, repairs and power costs per ton of hessian, sacking and CBC were found higher in public sector jute mills compared to private sector.

From the above analysis, it may be infurred that private sector jute mills generally show higher prices of raw jute cost, in order to extract undue concessins from the Government in terms of compensation for loss and also to evade the payment of taxes. The data also support that private sector jute mills enjoy mere cheap bank loan compared to public sector. However, it was found that cost control system is ineffective in public sector jute mills and wages, salary, repairs and power cost per ton of hessian, sacking and CBC were found higher in public sector jute mills compared to private sector. However, it was found that cost control system is ineffective in public sector jute mills and wages ,salary, repairs and power cost per ton of hessian, sacking and CBC were found higher in public sector jute mills compared to private sector.

6.4 Comparative analysis of working capital position and findings between the selected public and private sector cotton(spinning) textile mills.

6.4.1 INTRODUCTION

This section of chapter six presents an interesting bicture between the selected public vs private sector cotton spinning mills disinvested to private sector from public sector (BTMC) after the new Industrial policy of 1982. Table 6.12 to 6.24 highlights the comparative findings of both public and private sector cotton textile mills during the period from 1782-83 to 1986 87. Attempt has been made to find out whether there is any difference in efficiency for managing the working capital between public and private sector cotton textile mills. It has been widely accepted that the profitability of a business enterprise largely depends on the manner in which its working capital is managed. Both excessive and inadequate working capital are harmful for any business. So, it is desirable that every enterprise is expected to maintain an optimum level of current assets for maximum return on investment. However, the following analysis and findings will enable us to answer our hypothesis is in Chapter-1, that there is no difference between the levels of efficiency in working capital management of public and private sector cotton textile enterprises.

6.12 Comparative inventory turnover ratio in the selected public and private sector cotton(spinning) mills during 1982-83 to 1986-87.

	Monno(old)	Quaderia	Satrang	Average of three mills
1982-83	4.38	4.18	The court harden black and a section or the section of the court of th	5.44
1983-84	2.21	2.34	1.32	1.96
1984-85	1.14	1.17	3.31	1.87
1985-86	2.32	3.13	1.95	2.47
1986-87	4.28	2.96	1.95	2.83
Average of 5 yrs	3.74	2.77	1 92	2.51

	Ashraf	Chand (spinning)	Rez	Average of three mills
1982-83	NA	1.36	3.08	2, 22
1983-84	1.57	2.03	1.31	1.64
1984-85	2.28	1.73	1.57	1.86
1985-86	1.37	1.08	1.15	1.66
1986-87	1.41	1.33	3.73	2.16
Average		1,51	2.17	1.91

Source: Appendix I - XII

Table 6.12 depicts the comparative tunrover of working capital in the selected public and private sector cotton textile mills during 1982=83 to 1986-87. It appears from the table that average inventory turnover ratio was 2.51 times in public sector compared to 1.91 in the private sector mills. The average inventory tunover ratio of individual selected units during five years was found 3.74, 2.77 and 1.92 in the Monno(old), Quaderia and Satrang

textiles respectively in public sector, while the same was found 1.66, 1.57 and 1.91 in Ashraf, Chand and Raz textiles respectively in the private sector. The average inventory turnover ratio was 4.42 in 1978-79 in the 48 Indian cotton textile mills. However, the picture in both public and private sector cotton textile mills during the study period was very low compared to Indian industry standard.

^{5.} A.T.Tofazzal Hossain(1984) Management of working capital in cotton textile industry of Bangladesh, Unpublished Ph.D. Thesis, University of Kallayani, Baruda, p 63.

6.13 Comparative percentage of inventory to total current assets in the selected public and private sector cotton textile mills during 1982-83 to 1986-87.

	Monno(old)	Quaderia	Satrang	Average of three mills
1982-83	39.94	37.64	41.97	39.85
1983-84	59.90	47.25	54.45	53.93
1984-85	63.32	62.55	50.81	58.79
1985-86	49.20	42.41	39,40	43.67
1986-87	29.24	37.11	56.60	40.98
Average of 5 yrs.	48.32	45.33	48,64	47.44

	Ashraf	Chand (spinning)	Raz	Average of three mills
1982-83	80.55	48.74	67.58	65.62
1983-84	97.82	49.76	77.99	71.85
1984-85	62.13	51.69	78.72	64.18
1985-86	70.91	59.21	84.80	71.64
1986-87	59.21	43.03 45.02	58.70	57.84
	71.96	53,00	73.55	66,22

Source: Annexure VII to XII, which are prepared from published Annual accounts and reports of the selected cotton Aills.

Table 6.13 reveals that average percentage of inventory to total current assets was 47.44 in the selected units of public sector cotton mills compared to 66.22 percent in the selected private sector cotton mills for the period under study. This indicates that accumulation of inventory was more in the private mills compared to that in the public sector cotton mills. Such

percentage in the 48 Indian cotton textile mills for the years 1979-80 and 1980-81 were 40.68 and 37.74 respectively. Compared to these percentages, almost all the selected units both in public and private sector cotton textiles mills held much higher percentages of inventory to total current assets.

6.14. Comparative percentage of total receovables to working capital (current assets) in the selected public and private sector cotton txtile mills during 1982-83 to 1986-87.

Years							
	Monno(old)	Quaderia	Satrang	Average of three mills			
1982-83	48,34	48.41	23.86	40.20			
1983-84	32.43	35.22	28.12	31.92			
1984-85	36.57	29.72	20.96	29.08			
1985-86	50.57	43,29	31.04	41.63			
1986-87	70.76	48.29	36.22	50.03			
Average of 5 yrs.	47.73	40.98	28.04	38.57			

	Ashraf	Chand (spinning)	Raz	Average of three mills
1982-83	20.52	44,23	30.83	31.86
1983-84	16.06	37.93	3,21	19.06
1984-85	12.75	29.48	12.01	18.08
1985-86	19.44	22,28	13.65	18.45
1.00	37.35	27.41	40.35	35.08
Average of 5 yrs.	21.22	28.26	20.01	24.50

^{6.} A.T.M. Tafazzal Hossain, Ibid, p93.

Table 6.14 Portrays to comparative percentage of total receivables to working capital in the selected public and private cotton mills during 1982-83 to 1986-87. Receivables represent an important component in the structure of working capital of the selected cotton textile mills. It is evident from the table that average percentage of receivables to working capital varies from 29.08 to 50.03 percent in the selected public sector cotton mills compared to only 18.08 to 35.08 percent in the selected private sector cotton mills for the period under study. The industry average of all the years are 38.57 and 24.50 percent in the selected public and private sector cotton mills respectively. This indicates that receivables management is more efficient in private cotton textile mills compared to the selected public sector cotton mills.

6.15 Comparative percentage of Accounts receivables (trade debtors) to working capital (current assets) in the selected public and private sector cotton textile mills during 1982-83 to 1986-87.

Years		JRLIC SECTOR TO		the decided the control to the first one has the part of
	Monno(old)	Quaderia	Satrang	Average of three mills
1982-83	23.08	4,05	4.46	10.58
1983-84	14.28	3.13	8.31	7.57
1984-85	25.13	2.57	7.32	11.67
1985-86	23.87	3.95	14.37	14.13
1986-87	36.80	12.21	16.52	21.84
Average of 5 yrs	21.63	E. J. (3)	10.52	13.14

E STORE IN				
	Ashraf	Chand	Rez	Average of
		(spinning)		three mills
1982-83	5.51	28.31	0.20	11.27
1983-84	4.01	19.18	0.30	7.23
1984-85	1.93	11.02	3.99	5.64
1985-86	3.10	7.48	2.89	4,49
1986-87	3.06	9.97	4.70	E. 7 E.
	3.52	15.07	2.41	6.99

Table 6.15 depicts the comparative percentage of trade debtors or accounts receivables to total working capital in the selected public and private sector cotton textile mills during 1982-83 to 1986-87. The industry average of all the years are 13.14 and 6.99 percent in the selected public and private sector cotton mills respectively. The findings reveal that accounts receivables (trade debtors) management is more efficient in private sector compared to the selected public sector cotton mills during the study period.

6.16 Comparative percentage of cash to working capital (current assets) in the selected public and private sector cotton textile mills during 1982-83 to 86-87.

	Monne (eld)	Quaderia	Satrang	Average of three mill
1982-83	11.11	14.71	34.11	19.97
1983-84	7.50	17.61	17.00	14,33
1984-85	0.19	7.96	28.21	12.12
1985-86	0.09	14.14	29.55	14.59
1986-87	0.02	14.52	6.60	7.04
Average of 5 yrs.	3.78	13.78	23.09	11.35

Years	Made 1984 1984 1989 1994 1994 1997 1988 1994 1994	PRIVATE SECTOR T		. Picto bred with rish bong here night rish rest rete read assume major
• Sand Volt 9 - Comp	Ashraf	Chand (spinning)	Raz	Average of three mills
1982-83	0.50	7.02	1.56	3.02
1983-84	0.10	12.30	18.78	10.39
1984-85	0.13	18.82	9.26	9,40
1985-86	1.78	18.49	1.53	7.26
1986-87	0.01	16.92	0.93	5.95
Average of 5 yrs.	0.84	14.71	6,41	7.20

Table 6.16 reveals the comparative percentage of cash to total current assets on working capital in the selected public and private sector cotton textile mills during 1982-83 to 1986-87. It appears from the table tht average percentage of cash to working capital varies from 7.24 to 19.97 percent in the selected public sector cotton mills compared to 3.02 to 10.39 percent in the selected private sector cotton mills for the period under study. The industry average of all the years are 11.35 and 7.20 percent in the selected public and private sector cotton mills respectively.

6.17 Comprative percentage of net cashflows to current liabilities in the selected public and private sector cotton textile mills during 1982-83 to 86-87.

Years	year paper image rigins write our in four? Shelo after purity says mone again.	The second section of the second section of the second second section of the second se	VEN	THE REAL PROPERTY OF THE PROPE
	Monno(old)	Quaderia	Satrang	Average of three mills
1982-83	20.78	(1.28)	(19.57)	(0.02)
1983-84	22.77	1.59	(61.35)	(12,33)
1984-85	8.17	(3.18)	(49.68)	(14.22)
1985-86	1.96	(15.57)	(53.06)	(22,22)
1986-87	21,51	(15.57)	(82.90)	(25.45)
Average	15.08	(7.12)	(53.31)	(14.88)

	Ashraf	Chand (spinning)	Raz	Average of three mills
1982-83	1 - 1 4	20,44	(8.86)	4.24
1983-84	0.70	19.07	(3.03)	5.58
1984-85	13.34	18.61	(5,33)	8.87
1985-86	20.99	14.98	(16.25)	6.57
1986-87	54.02	17.41	(30.82)	13.53
Average	18.03	18,10	(12.85)	7,75

Table 6.17 reveals the comprative of net cash flows to current labilities in the selected public and private sector cotton textile mills respectively during 1982-83 to 1986-87. The average percentage of net cash flows to current liabilities of all the years was (14.88) and 7.75 in the selected public and private cotton mills respectively during the study period. The average

percentage of net cashflows to current liabilities was 15.08, (7.12) and (53.31) in Monno(old), Quaderia and Satrang textiles respectively compared to 18.03, 18.10 and (12.85) in Ashraf, Chand and Raz textile mills respectively in the private sector. The findings showed that majority of the selected public sector cotton mills had been suffering from shortage of net cash flow compared to textile mills in the private sector.

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Table 6.18 Comparative Cost breakdown ratio (i.e. cost on percentage of sales) in the selected public and private sector cotton textile(spinning) mills during 1982-83 to 1986-87.

			F	PUBLI	C SEC	CTOR CO	OTTON I	MILLS							
Yrs.		MON	40	man man maga anan angan m		nee course course manus masses from a course	QUAI	DERIA			S	ATRANG			
	%	7,	7.	%	7.	1/11	7,	1/4	1/11	1/2	%	7,	"/ _n	%	1/4
	Mat.	Lab.	Over	Admn	Sell	L Mat.	Lab	Over	Adm.	Sell.	Mat.	Lab.	Over	Adm.	Sell.
	cost	cost	head	ехр.	ехр.	. cost	cost	head	ехр	exp.	cost	cost	head	exp	exp.
			cost					cost					cost		
1982-83	43.82	13.37	10.03	3,19	Bitter ADTON salahadi dan terri sala	74.14	11.16	11.16	3.96		64.00	12.21	20.63	4.83	
1983-84	62.67	16.77	10.73	3.36	-	67.58	11.07	24.26	5.02		75.73	14.39	11.64	17.57	-
1984-85	74.72	19.97	11.72	4.28	-	71.10	18.22	12.63	19.00	-	62.14	16.03	11.09	18.34	
1985-86	55.91	28.05	10.31	7.82	-	51.03	20.25	12.71	14.99		52.38	18.87	9.75	17.68	-
1986-87	44.37	27.34	11.63	6.09	-	46.96	25.83	15.14	16.78	-	50.78	24.41	13.67	14.64	-
Average of 5 yr:		21.10	10.88	4.74		62.16	17.30	15.18	11.95	-	50.78	17.18	3.35	14.61	-

. Lab.	"/ _#	4/_				ND			E/A	3 Z.			
t cost		Admn exp.		% Mat. I cost	cost h	% ver Adead e			% Mat.	% Lab. cost	% Over head cost	% Adm. exp	% Sell. exp.
56 14.99 87 12.11 00 12.35	10.32 9.20 7.30	8.69 4.43 3.30	Ø.05 Ø.03	57.32 43.99 54.01	12.78 14.69 20.13	15.93 14.28 10.79	2.55 3.59 3.50	0.06 0.02 0.01	63.49 62.99 68.85	11.43 15.11 21.44	12.96 12.49 11.96	10,75 11.75 12.66	0.06 0.06 0.14
580	6 14.99 7 12.11 Ø 12.35 Ø 13.05	0 14.22 14.05 6 14.99 10.32 7 12.11 9.20 0 12.35 7.30 0 13.05 3.22	0 14.22 14.05 2.15 6 14.99 10.32 8.69 7 12.11 9.20 4.43 0 12.35 7.30 3.30 0 13.05 3.22 3.22	Ø 14.22 14.05 2.15 0.08 6 14.99 10.32 8.69 0.05 7 12.11 9.20 4.43 — Ø 12.35 7.30 3.30 0.03 Ø 13.05 3.22 3.22	0 14.22 14.05 2.15 0.08 60.75 6 14.99 10.32 8.69 0.05 57.32 7 12.11 9.20 4.43 - 63.99 0 12.35 7.30 3.30 0.03 56.01 0 13.05 3.22 3.22 - 54.88	0 14.22 14.05 2.15 0.08 60.75 11.59 6 14.99 10.32 8.69 0.05 57.32 12.78 7 12.11 9.20 4.43 - 63.99 14.69 0 12.35 7.30 3.30 0.03 56.01 20.13 0 13.05 3.22 3.22 - 54.88 20.74	0 14.22 14.05 2.15 0.08 60.75 11.59 13.26 6 14.99 10.32 8.69 0.05 57.32 12.78 15.93 7 12.11 9.20 4.43 - 63.99 14.69 14.28 0 12.35 7.30 3.30 0.03 56.01 20.13 10.79 0 13.05 3.22 3.22 - 54.88 20.74 16.90	Ø 14.22 14.05 2.15 Ø.08 60.75 11.59 13.26 1.12 6 14.99 10.32 8.69 Ø.05 57.32 12.78 15.93 2.55 7 12.11 9.20 4.43 — 63.99 14.69 14.28 3.59 Ø 12.35 7.30 3.30 Ø.03 56.01 20.13 10.79 3.50 Ø 13.05 3.22 3.22 54.88 20.74 16.90 3.49	Ø 14.22 14.05 2.15 Ø.08 60.75 11.59 13.26 1.12 Ø.05 6 14.99 10.32 8.69 Ø.05 57.32 12.78 15.93 2.55 Ø.06 7 12.11 9.20 4.43 - 63.99 14.69 14.28 3.59 Ø.02 Ø 12.35 7.30 3.30 Ø.03 56.01 20.13 10.79 3.50 Ø.01 Ø 13.05 3.22 3.22 - 54.88 20.74 16.90 3.49 Ø.01	0 14.22 14.05 2.15 0.08 60.75 11.59 13.26 1.12 0.05 64.64 6 14.99 10.32 8.69 0.05 57.32 12.78 15.93 2.55 0.06 63.49 7 12.11 9.20 4.43 - 63.99 14.69 14.28 3.59 0.02 62.99 0 12.35 7.30 3.30 0.03 56.01 20.13 10.79 3.50 0.01 68.85 0 13.05 3.22 3.22 - 54.88 20.74 16.90 3.49 0.01 62.48	0 14.22 14.05 2.15 0.08 60.75 11.59 13.26 1.12 0.05 64.64 10.71 6 14.99 10.32 8.69 0.05 57.32 12.78 15.93 2.55 0.06 63.49 11.43 7 12.11 9.20 4.43 - 63.99 14.69 14.28 3.59 0.02 62.99 15.11 0 12.35 7.30 3.30 0.03 56.01 20.13 10.79 3.50 0.01 68.85 21.44 0 13.05 3.22 3.22 - 54.88 20.74 16.90 3.49 0.01 62.48 20.42	0 14.22 14.05 2.15 0.08 60.75 11.59 13.26 1.12 0.05 64.64 10.71 13.02 6 14.99 10.32 8.69 0.05 57.32 12.78 15.93 2.55 0.06 63.49 11.43 12.96 7 12.11 9.20 4.43 - 63.99 14.69 14.28 3.59 0.02 62.99 15.11 12.49 0 12.35 7.30 3.30 0.03 56.01 20.13 10.79 3.50 0.01 68.85 21.44 11.96 13.05 3.22 3.22 - 54.88 20.74 16.90 3.49 0.01 62.48 20.42 11.12	0 14.22 14.05 2.15 0.08 60.75 11.59 13.26 1.12 0.05 64.64 10.71 13.02 10.40 6 14.99 10.32 8.69 0.05 57.32 12.78 15.93 2.55 0.06 63.49 11.43 12.96 10.75 12.11 9.20 4.43 - 63.99 14.69 14.28 3.59 0.02 62.99 15.11 12.49 11.75 0 12.35 7.30 3.30 0.03 56.01 20.13 10.79 3.50 0.01 68.85 21.44 11.96 12.66 0 13.05 3.22 3.22 - 54.88 20.74 16.90 3.49 0.01 62.48 20.42 11.12 13.06

Source FACT Sheet of the selected cotton textile mills appendix VI to XII

- N.B. (i) Cost has been calculated in relation to sales taking sales as 100 percent.
 - (ii) Administrative & Selling Expenses have been merged in the Annaul Report of BTMC.

Table 6.18 depicts the compartive picture of cost breakdown ratio in the selected public and private sector cotton spinning mills during 1982-83 to 1986-87. Each element of cost has been expressed in relation to net sales figure. The average percentage of material, labour, production overhead and administrative expenses was found to be 61, 18.33, 13.13 and 10.50 respectively in the public sector cotton textile mills compared to 55.55. 15.04. 11.77 and 5.76 percent of the same in the private sector cotton textile mills respectively. The total cost of sales is equal to or some times higher than sales revenue in the selected cotton textile mills excepting Monno(old) textile in the public sector and Ashraf and Chand textiles in the private sector. The findings show the cost of sales of all the selected cotton textile mills both in public and private sector is very high which leaves very low and negative margin for the cotton textile mills. But the position is little bit better in private sector compared to public sector.

6.5 <u>Comparative efficiency test trhough X between</u> public and private sector enterprises.

The Chi-Squire (X) test of significance.

Chi-squire test has been used to test the significance of differences between public and private sector jute and cotton textile mills respectively with respect to inventory, receivables and cash policy and their suggested norms by the respondents.

The analysis shows that there is no association between public and private sector jute and cotton textile mills with regard to working capital management policy.

Therefore, the main conclusion which emerages is that, in terms of inventory, receivables and cash policy, public sector jute and cotton mills do not vary significantly with private sector mills. So, the hypothesis is accepted.

Detailed Chi-squire Analysis is shown below:

Here Chi-squire X analysis has been done to test interdependence i.e. association between the attributes. As a line of demarcation 5% and 1% levels of significance are taken. Generally, for X - test degree of freedom is calculated by counting the number of cells except the last row and the last column (for our cases d.f. is thus 1).

The table value of X for 1 d.f. at 5% level of significance is 3.84 and at 1% level of significance is 6.64. If X computed is more than X table value, it indicate that the characteristics are dependent.

Null hypothesis is that the two characteristics are independent. According to the hypothesis if the two characteristics are independent the proportion of cell frequencies to the class frequencies will remain constant for all the classes. On the basis of this criterion the expected frequencies are calculated for each cell of the table. Now X will give the extent of discrepancies between observed frequencies and expected frequencies. If the observed (calculated) value of X is less than the theoretical value of X(table value) we accept the hypothesis. On the contrary, if X table value is more than the observed value, the hypothesis is rejected i.e. the characteristics under consideration are dependent.

The following tables present the X calculation and the analysis is given underneath of each table.

5.19 Lack of Inventory Management Policy

Table 6.24 showing observed and expected frequency

Jute	Agr		Disagr		Total
mills	Observed	Expected	Observed	,	
public		10.11	2	1,89	12
Private	Set F	5.89	1	1.11	7
Total	16	16	\$	3	19

Jute mills	Agree	Disagree	Total
Public	9.89	2.12	12.01
Private	6.11	0.09	7.01
Total	16	3.02	19,02

x = 19.02 - 19 = 0.02 3.84 So "agree" or "disagree" to the lack of inventory management policy is not associated with sectoral (whether public or private) position.

Table 6.20 Lack of Receivables Management Policy

Table 6.20 showing observed and expected frequency

Jute	AQF ee		Disagr	Tetel	
	Observed	Expected	Observed	Expected	
Public	10	10.00		2,00	12
Private		$\lim_{t\to 0} \int_{t}^{t} f_{ij}^{(t)} \left\{ \int_{t_{ij}}^{t_{ij}} f_{ij}^{(t)} \right\} dt$	1	1.00	6
Total	S. C.	There's	100 mm 1	3	18

2

In this case, —— table will be the same as the above $\frac{2}{2}$ = E one. So \times = 0, which means no interrelation exists between the characteristics.

6.21 Lack of proper Cash Management policy.

Table 6.26 showing observed and expected frequency.

Jute	Agr		Disagr	E E	Total
	Ubserved	Expected	Observed	Expected	
Public	£2.	(m)	4	4	12
Private		4	2	<u> </u>	6
Total	1.2	12	6	6	1/3
on m. m.am. meddi breri heldd yrrwn brer	g gyffer hanne elleta hakket hagat jakte forja keelja mekk kitti	2			ted wight first whose trans years taken to the mile but yet

Table showing $\frac{0}{--}$ same as above. So X = 0

No association between the characteristics.

6.22 Lack of proper inventory management policy between public and private sector cotton mills.

Table 6.22 showing observed and expected frequency.

Cotton	3 months		6 months		Tetal
	Observed	Expected	Observed	Expected	
Public		9,43	No. there there there desire there have been such as a serie property and	1.57	1 1
Private	and the second	2.57	i	0.43	THE STATE OF THE S
Total	1.2	1.0	- 17 - 100 con		14

Cotton mills	3 menths	6 months	Total	
Public	10,60	0.64	11,24	nade Nede scene again
Private	1.56	2.33	5.89	
Total	12.16	2.97	15.13	
X = 15.13 -		3.84	100 - TOTAL CHEE CHEE CHEE CHEE CHEE CHEE CHEE CHE	5m 0 10-m 0 0/8940

So, cited above, are not associated with sectoral position of cotton mills.

6.23 Lack of proper receivables management policy between the selected public and private sector cotton mills.

Table 6.23 showing observed and expected frequency.

Cotton mills	1 month		6 months		Total
		Expected	Observed	Expected	
Fublic	4	6.15	4	3.25	10
Private			1	A H A SA	23
Total	8	<u>t.</u> ;	land and	F,	13

showing calculation of

Cotton mills	1 month	6 months	Total
Public		4.16	10.01
Private	2.16	0.87	3.03
Total	8.01	5.03	13.04

$$X = 13.04 - 13 = 0.04$$
 3.84

So, cited for receivables are not associated with sectoral position of cotton mills.

6.24 Lack of proper cash management policy between the selected public and private jute mills.

Table 6.24 showing observed and expected frequency.

Cotton mills	Upto 10 days		Upto 20 days		Total
		Expected	Observed		
Public	Para Sun	here the second	100	2.67	8
Private	-	2.67	4 3.	1.33	4
Total	EG	8	Ą	4	1.2

		()
showing	calculation of	
		E

of the social image decay white separate source course come paper white sains more	THE THE STATE STATE STATE STATE SHARE STATE BASIS SAME SAME STATE	THE MARK TIME 1900 NAME THE PERSON NAME AND ADDRESS OF THE PARK THE ABOVE THE PARK THE PARK THE PARK THE	THE STATE STATE STATE SAME SAME SAME SHOW THAT DEPTH SAME SAME
	Upto 10 days	Upto 20 days	Total
Public	4.70	3.37	8.074
Private	3.37	0.75	4.127
Total	8.07	4.12	12.19
2		1001 1001 1010 1010 1010 1010 1010 101	

2

$$X = 12.19 - 12 = 0.19 = 3.84$$

So mentioned for cash in hand is not associated with sectoral position of textile mills.

6.6. Summary.

The main points have emerged from this chapter are summarised below.

First, when percentage of investment in working capital is considered as a whole, there seems to be little or no difference between public and private sector jute mills. But there is a bit difference between public and private sector cotton mills during the period under review. The analysis reveals that there has been a higher percentage of investment in working caipital in both the selected public and private sector jute and cotton textile mills.

Secondly, there were only minor variations between public and private sector jute mills with regard to average percentage of inventory to working capital. But there was some variatin of

average percentage of inventory to working capital between public and private sector cotton mills. The average percentage inventory to working capital was much higher in public sector cotton mills compared to private sector.

Thirdly, when average percentage of receivables to working capital is considered, there seems to be little difference (only 2 percent) between public and private sector jute mills during the study period. But the average percentage of receivables to working capital was much higher in some public sector cotton mills compared to private sector. Receivables management was found to be more efficient in two private sector cotton textile mills compared to public sector.

Fourthly, in terms of cash management, public sector jute mills were not different from private sector. It was found that percentage of cash to working capital was very much low in both public and private sector jute mills under the study.

But there was a little bit difference between the average percentage of cash to working capital between public and private sector cotton mills. The average percentage of cash to working capital was 11.35 and 7.20 in the selected public and private cotton textile mills respectively during the study period. The average percentage of cash to working capital was only 0.84 in private sector Ashraf Textile Nills compared to 23.09 percent in Satrang Textile mills under public sector.

The Chi-Squire, test also confirm that there is no significant variation between pubic and private sector jute and cotton textile mills with regard to the management of inventory, receivables and cash components of working capital. But the cost analysis revealed that private sector jute mills show higher prices of raw jute cost compared to public sector in order extract undue concessions from the Government in terms of compensation for loss, to get cheap bank loan and to evade payment of taxes. But wages, salary, repairs and power cost were found higher in public sector jute mills compared to private sector.

CHAPTER -SEVEN

THE SUGGESTED MODEL

7.1 INTRODUCTION:

The present deplorable state of affairs in the selected public enterprises of jute and cotton mills under the administrative control of Bangladesh jute and textile mills corporations respectively are not expected to be continued for long. Our analysis and findings in chapter five and six confirm that working capital management is one of the major problem area not only in public sector jute and cotton textile industries, but most of the private sector jute and cotton textile mills have been suffering from the problem of working capital management.

7.2 THE DESCRIPTIVE MODEL:

A wayout is, therefore, an immediate necessity. In order to streamline the existing working capital management in practice a descriptive operational model is suggested.

7.2.1 CONTROL AND MANAGEMENT OF INVENTORY.

To bring down the overstocking of inventories to nomral level, the individual units are expected to establish an *Integrated inventory management Department' so as to introduce

to direct control measure under the direct supervision of a responsibel officer. The existing staff of the department is to be given proper training. The most important changes required relates to the adoption of various techniques of inventory management. Standardisation and variety reduction should be made. To implement this policy a 'seperate cell' may note established. For the better planning and control of inventory, the management should set up minimum, maximum, re-order levels, safety stock and danger levels for each items of inventory. For proper management and control of stores items of inventory individual units are expected to group the inventory items into ABC analysis.

For better management of inventories from the clutches of enviornemental constraints the following guidelines are suggested:-

- (i) To minimise the excess accumulation of work-in-process, efforts should be made to prevent frequent power failure and mechanical troubles leading to looms and machine hour lost.
- (ii) For the quick shipment of finished jute goods, better shipping facilities should be managed. This requires the attention of the Ministry of Jute, Port authority and the Bangladesh Jute mills corporation.

- (iii) A list of obsolete stores and spares must be made for each of the jute and cotton textile mills and these need to be seperated from serviceable stroes and spares.
- (iv) For quick import of raw cotton for textile mills and imported stores and spares, import licence and sanction of foreign exchange should be obtained in time.
- (v) Efforts must be made to increase the manufacture of stores and spares locally for cotton textile industries through sub-contracting.

7.2.2 MANAGEMENT OF RECEIVABLES.

For better receivables mangement, the selected units are expected to delegate the authority and responsibility to some specific department for determining the appropriate terms of credit and to frame a suitable collection policy.

However, the following guidelines may improve the receivables management:-

- (i) Steps should be taken to reduce the volume of credit sales and credit period which ranges between 30 to 180 days.
- (ii) Immediate steps should be taken to reduce the volume of advances, deposits and prepayments.

- (iii) Steps should be taken for preparing aging schedules of accounts receivables for controlling the volume of the same.
- (iv) For collecting accounts receivables some skilled Fersonnel will have to be entrusted with the task.
- (v) Specific credit and collection policy must be followed in all the jute and cotton mills and evaluation of the efficiency in sales and collection must be judged from time to time.
- (vi) Local consumption of jute goods should be increased to minimise the excessive dependence on export sales and from competition of synthetic products.
- (vii) Steps should be taken to produce quality jute products.
- (viii) Innovative market research should be undertaken to boost up the demand for jute goods both at home and abroad.

7.2.3 CONTROL AND MANGEMENT OF CASH.

To improve the liquidity position of the individual jute and cotton textile mills, the following guidelines are recommended:

- (i) Volume of cash maintained in the jute and cotton textile mills should be assessed on the basis of its operational requirements.
- (ii) Cash control devices should be introduced to ensure cash inflows and cash outflows. Internal control of cash through annual cash budget, quarterly budget usage statement and monthly cash flows statement, cash budget and budget variance analysis should be maintained.
- (iii) The large volume of inventories and receivables would have to be reached to that level as per suggested model /norms prescribed by us.(Table 7.1)
- (iv) The frequent analysis of current and liquid ratios
 will help in controlling the volume of cash. Efforts
 must be made to prevent cash losses through better
 planning and control of cash.

- 7.2.4 Financing of working capital should be based on specific research based norms as suggested by our model/norms in table 7.1. For determining the financing methods, it is recommended to use the guideline.
- 7.2.5 Steps should be taken to reduce the cost of operation and improve profit margin. Cost of production should be reduced through the effective cost control measures, such as standard costing and budgetary control systems.
- 7.2.6 Steps shoud be taken to improve the productive efficiency of jute and cotton textile mills through better supervision, quality control and improved labour mangement relations.
- 7.2.7 Efforts should be made to have better capacity utilisation through controlling the power failures, mechanical troubles, shortage of weavers and spares, strike
 and others.
- 7.2.8 Selling price should be competitive in the market, but at the same time should cover the cost of production and sales.

- 7.2.9 To improve the working finance conditions, the permanent portion of working finance i.e. the core current assets should be arranged in the forms of equity and longterm loan.
- 7.2.10 To improve the present condition, both the Government, Corporations, and the management of the selected jute and cotton textile mills must have to take a number of meausres as suggested to run these mills on strictly commercial principles.
- 7.2.11 Export incentive like export bonus schemes may be introduced for jute industry.

Our overall conclusion is that the introduction of a long-term working capital management planning model is expected to be more effective in the sphares of working capital management of the jute and cotton textile industries in Bangladesh.

7.3 Suggested Model for Inventory Receivables and Cash.

Table 7.1 presents our suggested model for inventory, receivables and cash components of working capital mangement for public enterprises in jute and cotton textiles. This is a research based model/norms designed takeing into account the following:

- (i) Process period of the jute and cotton textile mills,
- (ii) Discussion with the experts in the industries concerned.
- (iii) General discussions with the industry interest,
- (iv) Opinion survey report of the respondents.
- (v) Need for ensuring smooth production, depending upon the availability of the materials, seasoality, etc.
- (vi) Reactions and feed back on a National Seminar on working capital management organised by the author himself.
- (vii) Studying the Tandon Committee Report of the Reserve
 Bank of India.

Our norms in table 7.1 represents the maximum period for holding inventory, receivables and cash for each industry.

The norms suggested by us will have to be applied flexibly and not rigidly, responsive to any major change in environmental and within the industry. We are unable to accept that uncertainties can be regarded as a reason for not laying down norms, an argument that some happily, not many placed before

us. In fact, the greater the uncertainties, the more is the need for planning model. The main objective to design an innovative model is to introduce a discipline in the maintenance of reasonable invnetory, receivables and cash balance levels consistent with encouragement of production on the basis of helpful relationship between the provider of working capital gap, i.e. banker and the customer.

The approach for prescribing norms for different groups of inventory and receivables for both local and export sales and cash balance bristles with a variety of problem. But we hope, that there should be an understanding of the total problem and a firm and helpful approach can be built into the suggested model and its implementation.

Our suggested model although prescirbe maximum period for holding inventory, receivables and cash in each industry, but this is not an entitlement to hold them upto this levles. If an individual mill can manage with less than the maximum, it should continue to do so. The suggested model is as follows:

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1.62

Table 7.1 Suggested Model for Inventory Recievables and Cash.

INDUSTRY			INVENTORI	E \$	William and Mark and State	Receivab maximum period	les	Cash for maxi. period.
	Raw mat. holding	Work-in-	Finished goods for maxi.period	Stores	& Spares Impor- ted		Export sales	
Jute		1/3 rd month or 10 days		2 months	6 months		2 month	1/3rd month or 10 days
Cotton Textiles		1/2 month or 15 dats		3 manths	6 months	1	MO	1/3rd month or 10 days

N.B. Although majority of the respondents suggested to hold raw jute for a maximum period of three months, but when we talked to top management of BJMC we were informed that as per the directives of the Government jute mills are bound to purchase raw jute from the growers and to hold it for a maximum period of 9 months , and they also viewed that purchasing raw jute at a time during harvesting season is also very much economical. As, such, we have also recommended to hold raw jute inventory for a maximum period of 9 months in line with the Government policy.

- 7.4 ESTIMATE OF WORKING CAPITAL REQUIREMENT ACCORTING TO SUGGESTED MODEL AND COMPARISON WITH ACTUAL FIGURES THROUGH BACKWARD PROJECTION.
- Tables 7.2 to 7.6 shows the calculation of estimated inventories, receivables and cash requirements of the selected public sector jute mills, while Tables 7.7 to 7.11 depict the estimated inventories, receivables and cash requirements of the selected public sector cotton textile mills according to our model. After estimating the required inventories, receivables and cash of the selected mills, a comparison has been made with actual figures to show excess/or shortage of inventories, receivables, and cash position of the selected mills. The analysis revealed that there was Tk. 1175 lakhs. Tk. 225 lakhs and Tk. 827 lakhs excess inventories held by big. medium and small jute mills respectively compared to our model during the period of study (See Tables 7.2.1, 7.3.1 and 7.4.1). It appears from the table 7.5 that there was excess receivables of Tk. 1866 lakhs in the selected jute mills during the study period. compoared to required receivables as per our model. Out of excess receivables held by the mills Tk. 886 lakhs and Tk. 980 lakhs were blocked in trade debtors and advances respectively. The excess trade debtors was found Tk. 101, Tk. 260 and Tk. 525 lakhs in big, medium and small jute mills respectively. The excess investment in advances was Tk. 165, Tk. 140 and Tk. 675 lakhs in big, medium and small inte mills respectively during 1982-83 to 1986-87. It reveals from the study that highest investment in inventories was found in small mills and the same was lowest in big jute mills.

It appears from table 7.6 that there was huge shortage of cash amounting to Taka 1924 lakhs in the selected public sector jute mills compared to required cash balance as per our model. The highest cash shortage of Tk. 1137 lakhs was found in big mills and the lowest Tk. 310 lakhs was found in small jute mills. The medium jute mills had a cash shortage of Tk. 477 lakh during the study period.

Table 7.7.1 shows that there was excess inventories amounting to Tk. 373.5 lakhs and Tk. 206.5 lakhs in public sector Monno(old) and Quaderia Textile mills respectively. However. Satrang textile mills had a shortage of Tk. 54 lakhs inventories compared to our model. But, on the whole, selected cotton textile mills held excess inventories of Tk. 526 lakhs compared to the model. Table 7.10 reveals that there was excess receivables of Tk.242 lakhs in the selected cotton mills during the study period. The highest excess investment in receivables of Tk. 140 lakhs was found in Monno(old) textile mills, while the lowest of Tk.26 lakhs was in Satrang textile mills. The excess trade debtors of Tk.80 lakhs was found in Monno(old) textile mills, but there was shortage of trade debtors of Tk. 28 lakh and Tk. 17 lakhs in Quaderia and Satrang textile mills respectively. The excess investments in advances was found Tk. 60 lakhs. Tk. 121 lakhs and Tk. 26 lakhs in Monno(old), Quaderia and Satrang textile mills respectively during the period of study.

It appears from the table 7.11 that huge cash shortage amounting to Tk. 191.94 lakhs was found in Monno(old) textile mills but excess cash of Tk. 80 lakhs and Tk. 196 lakhs were found in Quaderia and Satrang textile mills compared to our model. On the whole, excess cash held by the selected mills was Tk. 84.06 lakhs during the period of study.

Out of above analysis, it may be concluded that there was huge over investment of funds in inventories, receivables but there was huge shortage of cash components of working capital in the selected public sector jute mills during the study period compared to our model.

In cotton textile mills there was over investment of fund in inventories in Monno(old) and Quaderia, but Satrang textile had shortage of inventories. A huge fund was found blocked in receivables of Monno(old) and Quaderia textile mills, but investment in receivables was found excess of Tk. 26 lakhs only in Satrang textile mills. Huge cash shortage was found in Monno(old), but there was huge excess cash of Tk.80 lakhs and Tk. 196 lakhs in Quaderia and Satrang Textile mills respectively. Cash planning was found very ineffective in the selected mills.

7.4.2 Demonstrated savings out of blocked excess investment om inventories, receivables and cash.

The selected jute mills could save Tk. 574.42 lakhs as interest only out of excess investment in inventories and receivables as calculated under:

						Tk. in lakh
(i)	Inventories	Tk. 2229	at	147,	year da	312.06
(11)	Receivables	Tk. 1866	at	14/	4.0 htm = 00 der	261.24
	Total	, 1 ₁				573.30

The selected cotton textile mills could save Tk. 119.29 lakhs as interest only out of excess investments in inventories, receivables and cash as calculated under:

- (i) Inventories Tk. 526 lakhs(net) at 14% Tk.73.64
- (ii) Receivables Tk.242 lakhs(net) at 14% = Tk.33.88
- (iii) Cash Tk. 84.06 (net) at 14% = Tk.11.77 Total: Tk.119.29
- 7.4.3 IMPACT OF MODEL ON NET PROFIT/(LOSS)
 OF JUTE MILLS.

		Tk. in lakh
(i)	Net profit/(loss) of Latif Bawany Jute Mills during 1982-83 to 1986-87	= (215.92)
(ii)	Net profit/(loss) of Karim Jute mills during 1982-83 to 1986-87	(849,54)
(111)	Net profit/(loss) of Nabarun jute mills during 1982-83 to 1986-87	(90,44)
Total	accumulated Net loss as per actual	=(Tk.1155.92)
	Savings out of interest income + f excess inventories & receivables	573.31
Accmu	lated Net loss as per model	(582,62)

7.4.4 Impact of Model on cash flow of the selected jute mills during 1982-83 to 1986-87

	fk. in lakh
(i) Total cash flows of Latif Bawany Jute mills (big mills) during 1982-83 to 1986-87	(4,76)
(ii) Total cash flows of Karim jute mills	(747.42)
(iii) Total cash flows of Mabarun Jute mills	(443.37)
Actual Total accumulated cash flows	(1195.75)
Add: Savings out of interest income on excess inventories, receivables	575-20
Accumulated net negative balance of cash flows as per suggested Model	(622.45)

7.4.5 IMPACT OF MODEL ON NET PROFIT/(LOSS) OF COTTON TEXTILE MILLS.

			Tk. in lakh
(i)	Net profit/(loss) of Monno(old) Tex. Mills during 1982-83 to 1986-87	y Ang yan	177.12
(ii)	Net profit/(loss) of Quaderia Tex. mills during 1982-83 to 1984-87	er bet-s	(29.51)
(iii)	Net profit/(loss) of Satrano Tex. mills during 1982-83 to 1986-87	de PVI Allahu	(31,54)
	accunulated Net profit/(loss) ree mills as per actual	1001	Tk.,116.,05
	Savings out of interest income on inventories, receivables and cash		119,29
Tk. 235	lated Net profit would have been 5.34 lakhs as per our model instead - 116.05 lakhs.		235.34

7.4.6 Impact of Model on cash flow of the selected Cotton Tex. Mills during 1982-83 to 1986-87

	Tk. in lakh
	makes with unified critic private error where app as paging making patient pages.
(i) Total cash flows of Monno(old) Tex. mills during 1982-83 to 1986-87	40.17
(ii) Total cash flows of Quaderia Tex. mills	(505.40)
(iii) Total cash flows of Satrang Tex. mills	(1108.25)
Actual Total accumulated cash flows	(1573.68)
Add: Savings out of interest income on excess inventories, receivables	119,29
Accumulated net negative balance of cash flows as per suggested Model	(1454.39)

7.4.7 Impact of model on Net profit and cash flows:

BY testing our model with actual figures, it has been found that there was over investment of Tk. 2229 lakhs and Tk. 1866 lakhs in inventories and receivables respectively in the selected public sector jute mills during the study period. The selected jute mills could save Tk. 574.42 lakhs as interest income if the aforesaid fund was not blocked in the two major components of working capital. The savings would have been more, if we could calcualte insurance cost, holding cost, shortage/or filferage of inventories. Moreover, Table 7.12.1 reveals that only the big jute mills availed excess bank borrowings of Tk. 1171 lakhs in 1987. If the excess bank borrowings was not taken the said mills, could save interest expense of Tk. 105.39 lakhs at 9% subsidised rate), which would contribute to profitability.

By analysing the impact of our model on the selected jute mills, it is revealed that the jute mills could reduce accumulated balance of loss by fifty percent by reducing the loss to Tk. 581.50 lakhs from Tk.1155.92 lakhs. Similarly net negative cashflows would have been reduced to Tk. 1076.46 lakhs from Tk.1195.75 lakhs.

By testing our model in cotton textile mills, it is revealed that the said mills could save Tk. 119.24 lakhs as interest income out of the excess blocked fund of inventories, receivables and cash components of working capital.

By testing our model of net profit/loss, it is revealed that accumulated net profit as per model would have been Tk. 235.3 lakhs instead of actual figure of Tk. 116.05 lakhs in the selected cotton mills during the study period. Similarly total negative cash flows would have been reduced to Tk. 1434.39 lakhs instead of actual figure of Tk. 1573.68 lakhs.

7.4.8 IMPACT OF MODEL ON THE ECONOMY AS A WHOLE

The excess bank borrowings of the jute mills at 9 percent subsidized interest rate has an impact on the economy as a whole. The high inflationary rate (12%) in the economy of Bangladesh as a result of huge increase in price levels may be partially responsible for excess bank borrowings by the public and private enterprises of jute and cotton textile industries, as the two industries constitute more than seventy percent of the industrial sectors of the country.

LATIF BAWANY JUTE MILLS

Table 7.2 Showing the estimated maximum Inventories requirement as per the suggested planning and the excess inventories held(through backward projection) during 1982-83 to 1986-87.

														in la	
(I) RAW MATERIAL	(ii)	WORK-	IN -PRO	DCESS		(iii)	FINI	SHED (300DS	(iv) STORI	ES ANI) SPAF	RES	
1983 1984 1985 1986 1987	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987
Av. mon- 94 106 206 119 126 thly req- irement	127	140	147	181	183	220	247	316	308	371	17	14	15	14	17
Max. period x9m x9m x9m x 9m to be tied up	1 -rd	1 r-ci	1 	1 -rd 3	1 -rd 3	$\times 1$	×1	×1	$\times 1$	$\times 1$	х2m	×2m	×2m	x2m	×2m
	42	47	49	60	61	220	247	316	308	371	34	28	30	28	34

Table 7.2.1 Estimated required inventories as per Model and excess inventoires actually held during 1982-83 to 1986-87.

17 62 1. 3.3 5.4 5.4	() di 1.3 km² di 2 km²da. km²sm² km km	de / hai hai / hai / n				Tk. in lakh
INVENTORIES	1983	1984	1985	1986	1987	
(i) Raw Material	846	954	1854	1071	1134	
(ii) Work-in-Process	42	4.77	49	60	61	
(iii) Finished Goods	22Ø	247	316	308	371	
(iv) Stores & spares	34	28	30	28	34	
Total Inventories as per model	1142	1.276	2249	1467	1600	
Stock actually held	1194	1272	1925	2578	2044	
Excess/(shortage) of Inventories	48	(.4.)	(324)	1011	444	= 1175

KARIM JUTE MILLS (MEDIUM MILLS)

Table 7.3 Showing the estimated maximum Inventories requirement as per the suggested planning and the excess inventories held(through backward projection) during 1982-83 to 1986-87.

														in la	
(I) RAW MATERIAL	(ii)	WORK-	IN -PR	DCESS		(iii)	FINI	SHED (300DS	(iv) STORE	ES ANI	SPAF	RES	
1983 1984 1985 1986 1987	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987
Av. mon- 47 60 112 73 57 thly req- irement	64	75	87	105	102	110	123	181	206	155	9	9	~)	10	10
Max. period x9m x9m x9m x 9m to be tied up	1	1 -rd 3	1 	1 -rd 3	1 -r-d	×1	×1	\times 1	×1	х1	×2m	× 2m	x 2m	x 2m	*2m
as per =423 54Ø 998 657 483 desig- ed model	Z	25	2	35	34	110	123	181	2016	155	18	18	18	20	20

Table 7.3.1 Estimated required inventories as per Model ane excess inventoires actually held during 1982-83 to 1986-87.

						Tk. in lakh	
INVENTORIES	1983	1984	1985	1986	1987		
(i) Raw Material	423	540	998	577	483		eridd nelfe dwebs rovil Made with
(ii) Work-in-Process	22 4	233	29	**************************************	34		
(iii) Finished Goods	110	123	181	206			
(iv) Stores & spares	18	18	18	20	20		
Total Inventories as per model	372	706	1226	918	692		
Stock actually held	496	844	1170	1081	748		
Excess/(shortage) of Inventories	(76)	138	(54)	163	54	=215	

NABARUN JUTE MILLS (SMALL MILLS)

Table 7.4 Showing the estimated maximum Inventories requirement as per the suggested planning and the excess inventories held(through backward projection) during 1982-83 to 1986-87.

Tk. in lakh (I) RAW MATERIAL (ii) WORK-IN -FROCESS (iii) FINISHED GOODS (iv)STORES AND SPARES 1983 1984 1985 1986 1987 -1983 - 1984 - 1985 - 1986 - 1987 - 1983 - 1984 - 1985 - 1986 - 1987 - 1983 - 1984 - 1985 - 1986 - 1987 - 1983 - 1986 - 1987 - 1983 - 1984 - 1985 - 1986 - 1987 - 1983 - 1984 - 1985 - 1986 - 1987 - 1985 - 1986 - 1986 - 1987 - 1985 - 1986 - 1986 - 1987 - 1986 - 1986 - 1986 - 1987 - 1986 - 1 Av. mon- 19 31 3.5 47 48 44 thly reqirement Mack . × 9m period x9m x9m ×9m ×9m Frd x1 x1 x1 x1 x1 -rd --- F. (3) ---r- d x2m x2m x2m x2m to be tied up as per =171 198 468 297 279 10 1.1 1.2 1.6 1.6 44 54 72 95 80 8 10 1.0 desige d model

Table 7.4.1 Estimated required inventories as per Model ane excess inventoires actually held during 1982-83 to 1986-87.

Tk. in lakh INVENTORIES 1983 1984 1985 1986 1987 Total excess/ (shortage) (i) Raw Material 171 198 468 297 279 (76)(ii) Work-in-Frocess 10 1.1 12 1.6 138 1.6 (iii) Finished Goods 44 54 (56)80 (iv) Stores & spares 8 1. (2) 1.00 8 8 Total Inventories as 233 273 562 383 1786 per model Stock actually held 356 397 517 684 661 2615 Excess/(shortage) 123 124 122 182 278 829 of Inventories

Table 7.5 Showing the required investment in Accounts reeceivables as per suggested model in the selected jute mills and the excess amount actually held during 1982-83 to 1986-87.

						Tk.	in lakh
Years	LBJM(Big)	pe samble spinning any semines whited artifled defends defends semines services 8-1-90	KJM	(Medium)	NEJM	Small)	Total
	Trade debtors	Advances	Tade debtors	Advances	Tra <mark>d</mark> e debtors	Advances	Min 1995 1995 1995 1995 1999 2099 2099 2099 2099 2099 20
1982-83	234.30	181.27	122.70	83.28	61.20	52,30	
1983-84	257.10	170.32	126.60	114.56	57.80	66.53	
1984-85	294.90	254.97	157.50	155.61	81.00	100.48	
1985-86	319.50	340.95	183.30	162.65	88.20	100.50	
1986-87	360.00	292.59	180.30	135.57	80.40	92.75	
Total as per model	1466	1240	770	650	300	415	4841
Total as per actual	1567	1405	1030	790	825	1090	6707
Total Excess	101	165	260	140	525	675	1866

Table 7.6 Showing the required investment in Cash as per suggested guidles in the selected public sector jute mills and the excess/(shortage) of cash actually held during 1982-83 to 1986-87.

Tk. in lakh LBJM(Big) KJM(Medium) NBJM(Small) Years Req. Act. Excess/Shortage Req. Act. Excess/Shortage Req. Act. Excess/Shortage 1982-83 181.27 22.48 (158.59) 83.28 28.77 (54.51) 52.30 13.04 (39.26) 1783-84 170.32 13.20 (157.12) 114.56 13.57 (100.39)66.53 14.93 (51.60)1984-85 254.97 16.76 (238.21) 155.61 (150.06)100.48 30.17 (70.31)1985-86 340.95 28.20 (312.75) 162.65 57.28 (105.37) 100.60 10.99 (89.61) 1986-87 292.59 22.26 (270.39) 135.57 69.00 (66.57)92.75 37.70 (59.05) as per model

Total cash shortage Tk. 1924 lakhs and required cash has been estimated on the basis of 10% of Current assests.

MONNO(OLD) COTTON TEXTILE MILLS

Table 7.7 Showing the estimated maximum Inventories requirement as per the suggested planning and the excess inventories held(through backward projection) during 1982-83 to 1986-87.

	NNL NAVOR STREET FRANK FRANK SEEDS VEDER SOURS SOURS SOU																	in la	
	(I) RAW	MATERI	AL		(ii)	WORK-	IN -FR	OCESS		(iii)	FINI	SHED	GOODS	(iv) STOR	ES ANI	SPAF	RES	
	1983 198	4 198	5 1986	1987	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987
Av. mon- thly red irement		4.3	83	23		1	18	20	21	49	48	52	54	47	<u></u>	2	2	2	2
Max. period > to be tied up	:4m ×4m	× 4 m	×4m	x 4m	1 -rd 2	1 -rd 2	1 -rd 2	1 -rd 2	1 -rd 2	× 1	× 1.	× 1	N. A.	2.1	x 6m	×6m	×6m	х 6	×5m
es per = desig- ed nodel	-140 136	172	116	92	6.5	7	9	170	10.5	5 49	48	Berry Prog	5.4	47	12	12	12	12	4 /**) 4

Table 7.7.1 Estimated required inventories as per Model ane excess inventoires actually held during 1982-83 to 1986-87.

						Tk. in lakh
INVENTORIES	1983	1984	1985	1986	1987	
from their class and a time code class code about their death of the code about their class code about the class code about their class code about their class code about their class code about the class code about their class code about their class code about the class code about their class code				** ************************************	PRINT STOP 1578 500M 5100 1105 1105 1005 1100 1100 1100	
(i) Raw Material	140	134	172	116	92	
(ii) Work-in-Process	S. S.	7.5	9	1Ø	10.5	
(iii) Finished Goods	49	48	52	<u></u> 4	57	
(iv) Stores & spares	12	12	12	12	12	
Total Inventories as per model	207.5	163.5	245	192	171.5	
Stock actually held	134	261	549	277	132	
Excess/(shortage) of Inventories	(73.5)	97.5	304	85	(39.5)	=Tk.373.5 lakhs excess stock held

QUADERIA TEXTILE MILLS

Table 7.8 Showing the estimated maximum Inventories requirement as per the suggested planning and the excess inventories held(through backward projection) during 1982-83 to 1986-87.

																			in la	
	(I) RA	W MA	TERIA	Ł		(ii)	WORK-	IN -PR	OCESS		(iii)	FINI	SHED (300DS	(iv) STORI	ES AND	SPAR	RES	
delika kirali alagi ilizadi upusi sasari watir m mi	1983 1	984	1985	1986	1987	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987
Av. mon- thly req irement			31	27	21			14		18	46	47	38	50	39	27	F)	d calcul drawn carried a later or	2	2
Max. period x to be tied up	4m ×4m	×	4m	× 4m	× 4m	1	1 -rd 2	1 	1 -rd 2	1 -r d 2	×1	¥ 1	- Si 1.	X 1	× 1	x 6m	×6m	жĠт	ж 6	X 5m
as per = desig- ed model	140 14	Ø 1	24	98	84	5.5	6.5	7	8.5	9	46	47		50	39	12	12	12	12	12

Table 7.8.1 Estimated required inventories as per Model ane excess inventoires actually held during 1982-83 to 1986-87.

						Tk. in lakh
INVENTORIES	1983	1984	1985	1986	1987	100 115 AND 110 110 110 110 110 110 110 110 110 11
						NOTE THE THE THE THE THE THE THE THE THE T
(i) Raw Material	140	140	124	98	84	
(ii) Work-in-Process	Form No.	<u> </u>	7	9.5	9	
(iii) Finished Goods	44.	47	38	50	39	
(iv) Stores & spares	12	12	12	12	1.2	
Total Inventories as per model		205.5	181	1.68.5	144	
Stock actually held	132	241	384	193	158	
Excess/(shortage) of Inventories	(71.5)	36. S	205	24.5	1.4	=Tk.20 6. 5 lakhs excess stock held

SATRANG TEXTILE MILLS

Table 7.9 Showing the estimated maximum Inventories requirement as per the suggested planning and the excess inventories held(through backward projection) during 1982-83 to 1986-87.

																	HK.		ackin .
		MATERI	AL.		(ii)	WORK-	IN -FRO	OCESS		(i i i)	FINI	SHED	GOODS	(iv	STOR	ES ANI	SFA	RES	
	1983 198	34 198	35 1986	1987	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987
Av. mon- thly req irement			22-6	22	4 77	1. 1	1 / 2	14	16	39	37	read story there come again	46	37	1	2	2	1	
Max. period x to be tied up	4m ×4m	×4m	ж 4 m	× 4m	1 -rd 2	1 -rd 2	1 	1 -rd 2	1 -rd 2	×1	×1	ж 1	× 1	кl	х Ат	× ém	x.6m	x11 6	x 5m
as per = desig-ed model	100 104	1 Ø 🖯	104	88	5. S		5	7	8	39	37	33	46	37	5	12	12	6	6

Table 7.9.1 Estimated required inventories as per Model ane exc<mark>ess invento</mark>ires actually held during 1982-83 to 1986-87.

						The in labb
INVENTORIES	1993	1984	1985	1986	1987	THE
	OR THE BARE SHEE CHES THE TYPE SHEET BOOK TONE THE SHEET HIS SHEET	THE NAME COME STORM STORM STORM STORM COME COME COME COME COME COME COME COM			1 MIN 1884 PRING SARW SARW SARW SARW SARW SARW SARW SARW	when of the cities at the latest table could be able to the could be could be could be could be could be could
(i) Raw Material	100	104	108	1 Ø 4	88	
(ii) Work-in-Process	6.5	Em E	6	7	8	
(iii) Finished Goods	39	37	33	46	37	
(iv) Stores & spares	£3	12	12	ځ	5	
	1 5 1 n 5	1.55G . 5	157	1 c. 3 c.5	139	
Stock actually held	102	1.36	186	132		
Excess/(shortage) of Inventories	(49.5)	(22.5)			12	Shortage(54) of ks as per model

Table 7.10 Showing the required investment in Accounts reeceivables as per suggested model in the selected cotton mills and the excess amount actually held during 1982-83 to 1986-87.

Tk. in lakh

state toda trave some room round bride many mine decad room many attention	P-00 M-00 prive priva planta allesta discuita allesta basera delega planta planta per recordi from the		T 1884 May 1886 1998 1918 1918 1918 1919 1919 1919	od 1000 0010 11111 1010	s as may be all about about the control to the control of the cont		total events should should
Years	MONNO (OL	D)		QUADERIA	SATRAN	16	Total
year and body pair come spec said 10% 10% ages	Trade debtors	Advances	Tade debtors	Advances	Trade debtors	Advances	
1982-83	54	33	47	34	39	24	
1983-84	53	43	50	lime - 1 	44	25	
1984-85	57	87	43	62	43	37	
1985-86		Só	52	45	48	34	
1986-87	54	45	45	42	42	27	
Total as per model	54	53	47	47	43	29	
Total as per actual	134	113	19	148	26	First Edit.	
Total Excess	80	4Ø	(28)	121	(17)		al average ess receiv. lakh.

Table 7.11 Showing the required investment in Cash as per suggested guidles in the selected public sector cotton mills and the excess/(shortage) of cash actually held during 1982-83 to 1986-87.

Tk. in lakh QUADERIA Years MONNO (OLD) SATRANG Req. Act. Excess/Shortage Req. Act. Excess/Shortage Req. Act. Excess/Shortage 1982-83 37 4 36 52 16 24 83 59 33 39 1983-84 43 (10)51 90 25 42 1.7 1984-85 87 (85)62 49 (13)37 102 65 1985-86 56 0.5 (55.5) 45 64 19 34 99 65 1986-87 45 0.01 (44.99) 42 61 19 27 17 (10)264 72.51 Total (191.94)236 316 80 147 343 196 as per model

Total excess cash held by the Mills: Tk.84.06 lakh.

7.5 Our proposed approach leading to a model for taking cash credit from commercial banks:

In order to carry a reasonable level of current assets in relation to production requirements, the maximum permissible limit of bank borrowings (cash credit/overdraft) could be found out under the three following methods.

- (i) The individual public enterprise can work out the working capital gap. i.e. total current assets less current liabilities other than bank borrowings, and ask for bank finance a maximum of 80 percent of gap; the balance to come out of long term loan and equity sources.
- (ii) The individual public enterprise is to provide for a minimum of 20 percent current assets out of long term funds. A certain level of credit for purchases and other current liabilities will be available and the bank will provide the balance. Total current liabilities inclusive of bank borrowings will not exceed 80 percent of current assets.
- (iii) Same as (ii) above, but excluding core current assets on the theory and the core current assets should be financed out of long term funds.

It should be brone in mind that the projected current assets, i.e. inventory receivables and cash should be worked out based on our suggested norms and current liabilities inclusive of bank borrowing will not exceed 80 percent of current assets. The three alternatives have been illustrated by taking the following example of borrower's financial position. To make the analysis more meaningful and considering the practical operation of our model, we have used the actual figures of current assets and current liabilities of one of our selected jute mills and one selected cotton textile mills as reflected in their balance sheets as on 30th June, 1987. But, the model should be based on projected balance sheet, and the classification of current assets and current liabilities for calculating permissible level of bank borrowings has not to be made according to companies Act, but as per our presentation in table 7.12.

7.6.1 Analysis of proposed three methods.

In Model 1 (Table 7.12.1) the borrowers will have to contribute a minimum of 20 percent of the working capital gap from the long term sources and the balance 80 per cent will be financed by the bank. In Method II, the borrower will have to provide a minimum of 20 percent of total current assets from long term sources and the gap will be provided by the bank. This will strengthen the current ratio from 1st Method. In the III, borrower's contribution from long term funds will be to the

extent of the entire 'core' current assets, and a minimum of [20] percent of the balance of current assets, thus strenthening the current ratio further. This is evident from our calculation shown in table 7.12.1 and 7.13.1 from illustration of Latif Bawany Jute mills, and Monno(old) cotton textile mills respectively. Table 7.13 depicts the statement of current assets and current liabilities of Monno(old) cotton textile mills. Methods determining maximum permissble bank borrowings on the basis table 7.13 has been presented in table 7.13.1. The calculation shows that Monno(old) textile did not utilise the maximum limit of bank borrowings. Inspite of low permissible borrowings, the position of current ratio did not improve. because the current liabilities is about 93 percent of current assets which has exceeded our suggested norm of 80 percent. It is suggested that individual cotton textile mills should project its current assets and current liabilities as per our quideline.

A beginning may be made with 1st method, placing all borrowers in this method within a period of about one year and the ideal of 3rd method may be reached in stages. The liberal approach under 1st method has been suggested as a first step, particularly to facilitate financial structuring of new companies, setting up project in backward areas and mainly for flexibility in restructuring of existing companies with a week financial base, especially for already sick public sector jute and cotton textile enterprises. However the aim should be to move

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forward and borrowers in the third or second category should not revert to first or second category respectively by increasing their dependence on bank borrowings. A request for additional credit on a regular basis from a borrower who already has an exesse borrowing under any of the three methods may be considered provided the borrower brings in matching contribution required under relevant method of lending.

LATIF BAWANY JUTE MILLS

Table 7.12 Statement of Current Assets & Current Liabilities as on 30th June, 1987.

		laka in la	(Ki)
Current liabilities	Taka	Current assets	Taka
Creditors for goods	72.00	Inventories	2045.00
Other current liab	1244.00	Receivables	810,00
Bank borrowings (cash credit)	1994.00	Other current assets	73.00
Total	3310.00		2928.00

Table 7.12.1 Methods of Determining Bank borrowing.

				Taka in lakh	
Ist Method		2nd Method	Tk.	3rd Method	Tk.
Total current assets	2928	Total current assets	2928	Total current assets	2928
less current liabilities other than cash credit	1244	20% of the above from long- term sources	586 2342	less core current assets() illustrative figure from long	25%)
Working capital gap	1484	less current lib. other than bank borrowings	1244	term sources Real current assets)	2196
20% of the above from equity/ loan (i.e. long-		Working capital	1684	20% of above from long-term sources	439
term sources) Maximum bank permissible borrowings	1347	Maximum bank borrowings permissible	1.078	Less current lib. other than bank borrowings	1757
oon owings					513
				Working capital gap	1684
				Maximum bank borrowing permis	
Excess bank borrowings	647	Excess bank 5 borrowings	34	Excess borrowing	gs 117

Current ratio 1.09:1 Current ratio 1.21:1 Current ratio 1.60:1

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Monno(old) Cotton textile Mills

Table 7.13 Statement of Current Assets & Current Liabilities as on 30th June, 1987.

Current liabilities	Taka in lakh		Taka in lakh
Creditors for goods	169	Inventories	132
Other current liab.	175	Receivables	147
Bank borrowings (cash credit)	76	Other current assets	152
Total	420		451

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Table 7.13.1 Methods of Determining Bank borrowing.

_					75			
- 1			7	т,	3	7	1.5	

				Taka in lakh	
Ist Method	Tk.	2nd Method	Tk.	3rd Method	Tk.
Total current assets	451	Total current assets	451	Total current assets	451
less current liabilities other than cash credit – Working capital gap	276	20% of the above from long-term sources less current lib. other than bank borrowings	9Ø 361 175	less core current assets(25%) illustrative figure from long term sources Real current assets	
20% of the above from equity/ loan (i.e. long- term sources)		Working capital gap.	106 276	20% of above from long-term sources	48 270
Maximum permissible borrowing -	221	Maximum bank borrowings permissible	106	Less current lib. other than bank borrowings	175
					95
Shortage of bank borrowings	145	Shortage of Bank borrowings	110	Working capital gap	276
				Maximum bank borrowing permis	95 sible
Current ratio Ø.	79:1	Current ratio 0.1	85:1	Current ratio	1:02:1

7.6 SUMMARY

This chapter provides an operational working capital management model for public sector jute and cotton textile industries of Bangladesh. In this model, research based norms have been designed for effective management of inventories, receivables and cash components of working captial. It has also suggested a new approach leading to a model for determining ideal bank borrowings from commercial banks, which will improve the working capital position by gradually reducing the dependence on bank borrowings and strengthening the current ratio under three innnovative methods. Our suggested model have been put to test by estimating inventories, receivables and cash position as per model and coparing it with actual figures of the selected mills through backward proejction. The analysis revealed that there was over investment of Tk.2229 and Tk.1866 lakhs in inventories and receivables respectively in the selected jute mills during the study period compared to our model. The selected jute mills could save Tk.574.92 lakhs only as interst income out of excess investment in inventories and receivables. But the selected jute mills had a huge cash shortage of Tk.1137 lakhs during the period of study. The selected jute mills could save Tk.573.30 lakhs only as interest income if the inventories and receivables were not overstocked. This savings would decrease the accumulated loss by fifty percent by planning working capital as per suggested model. Similarly negative cashflows would have been reduced by forty eight percent by using our model.

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In cotton textile mills there was over investment of 526, Tk. 242 and Tk. 84.06 lakhs in inventories, receivables and cash components respectively during the period fo study. The mills could save Tk. 119.29 lakhs out of interest income only of the blocked fund. As a result net profit would have been Tk. 235.34 lakhs instead of Tk. 116.05 lakhs, and the negative cash flows would have been reduced to (k.1454.39) lakes compared to actual of (Tk.1573.68) lakhs. The high inflationary rate (12%) in the economy is partially responsible due to excess borrowings by the public enterprises. Finally it can be concluded that savings could have been much more than shown if the actual data was compared by taking minimum period (norms) CH inventories, receivables and cash instead of maximum period taken.

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CHAPTER- EIGHT

SUMMARY OF CONCLUSIONS AND FOLICY IMPLICATIONS

- 8.I Summary of conclusions and findings.
- Our first hypothesis was, that investment in inventories is disproportionately high which creates working capital problem in public enterprises. Our findings lent support to this hypothesis. It was revealed that the average percentage of inventories to current assets was found to be 66 and 48 (see p 122 & 136) in the selected public sector jute and cotton mills respectively compared to 65 and 66 percent in private sector jute and cotton mills respectively . Because of the high percentage of investment in inventories, a considerable fund has been blocked, which aggravated working capital problem. Our analysis in chapter seven revealed that excess inventories of Tk. 1175 lakhs, Tk. 225 lakhs and Tk.829 lakhs held by big, medium and small jute respectively compared to our planned inventories as per model (see Table 7.3.1 to 7.4.1). Table 7.7.1 shows that there was excess inventories of Tk. 373.5 lakhs and Tk. 206.5 lakhs in Monno(old) and Quaderia Cotton mills respectively, but Satrang Cotton mills had a shortage of inventories amounting to Tk. lakhs compared to our model during the study period.
- I i. Our first sub-hypothesis regarding procurement of raw jute inventory was: "Unplanned procurement of raw materials eats up a big chunk of working capital of jute mills". Our data and observation supported this sub-hypothesis. Tandon Committee of

India suggested that 2.5 month's requirement of raw jute should be kept in stock (see annexure XIII). Our sample reported that three months raw material should be stored. In the matter of procurement of raw jute Bangladesh Bank has issued guideline that raw jute should be procured direct from the growers and should be stored for nine months (see annexure XIV). Bangladesh Bank issued circular by considering the policy of the Government to save the jute growers who reortedly burnt down jute by not getting buyers in the market. But this is a heavy financial burden on jute mills, although Bangladesh Bank granted credit at subsidized interest rate of 9 percent only. So, a large part of over buying is compensated. But since the jute mills incurred heavy losses, the excess bank credit although given at lower interest rate, added fuel to the flame and had eaten up a big chunk of working capital of jute mills.

I ii. Our second sub-hypothesis regarding raw jute was: "there is inefficiency and corruption in procurement, storage and usage stages of raw jute in public sector jute mills". The data lent some support to this hypothesis, without indicating any definite conclusions. Our survey and observation revealed that there were some inefficiency and corruption in the procurement of raw jute. One sample reported that the chief executive of a public sector jute mills fixed quota on his subordinate jute purchase officer to pay take one lake per month as gratification out of the share of raw jute purchase. It was also reported by a

purchase officer that he was bound to purchase low quality jute at higher prices as per the direction of his boss at the cost of the mills. It was also observed that after purchase, jute is being kept in open space which caused wastage, moreover improper mixing resulted poor quality and high wastage. So, some inefficiency and corruption was found in procurement, storage and usage stages of raw jute.

Our third sub-hypothesis was: "enterprise management under BTMC are week and incompetent in understanding the economic and diseconomics of raw cotton procurement". Our survey supported this sub-hypothesis. Out of 12 senior officials interviewed in the selected public sector cotton mills, about eighty three percent of them complained that centralised buying of raw cotton by BTMC and its undue allotment on the mills complicated working capital management problem of the mills. The enterprise managers were critical about the procurement of raw cotton by the corporation and they want that procurement power be decentralised, which in the opinion of the Corporation's top management is not possible, because Corporation cannot procure raw cutton on cash. The Corporation has to depend on grants, aids and barter. For example, in the year 1986-87, BTMC imported 544.69 lakh lbs of raw cotton under different foreign exchanges sources namely US PL-480 Programme, the Netherlands grants, F.R.G grant, Bulgarian Barter and USSR Barter M-15. (Source BTMC Annual

Report 1986-87 P30). However, raw cotton procurement is a work which should be done centrally and with constant cooperation with different relevant Ministries.

I iv. Our fourth sub-hypothesis was: "low inventory turnover ratio of finished goods is responsible for working capital management crisis to a large extent". The data supported this sub-hypothesis. Our findings revealed that average inventory turnover ratio was 1.82 (p117) in the selected public sector jute mills compared to 2.25 in private sector during the period of study. Tandon Committee suggested 4.29 should be normal inventory turnover ratio for the jute industry of India. The average inventory turnover ratio was found 2.51 in the public sector cotton mills compared to 1.91 in the private sector. The average inventory turnover ratio was very low both in public and private sector cotton mills compared to 4.42 of 52 Indian Cotton mills in the year 1978-79. In USA the same ratio is about seven times.

I v. Our fifth sub-hypothesis was: "low demand of jute goods and serious competition in international market, a huge stock of finished goods is piled up". There was strong support for this sub-hypothesis. Out of tweleve respondents interviewed in our survey, eighty three percent of them replied that low demand and serious competition in the international market a huge stock of finished goods piled up in the godown. In 1986-87, the closing

stock of finished goods was Tk. 530 lakhs. Tk. 281 lakhs and Tk.127 lakhs in big, medium and small public sector jute mills respectively. As per suggested model on an average one month's cost of production should be the maximum period for holding finished goods stock, but average finished goods inventory in terms of months cost of production was found as high as eight months in public sector jute mills during the study period (see p 75) which aggravated working capital problem. Inventory in terms of months cost of production was 3.18 (see p 75) in Indian jute mills during 1977-78.

I vi. Our sixth sub-hypothesis in this study was: "In cotton textile enterprises, a huge stock of finished goods accumulates due to lower purchasing power of poorer section and clamour for foreign cotton goods by the richer section of consumers". The data lent reasonable support for this sub-hypothesis. Out of twelve respondents interviewed, about sixty percent of them supported this contention.

I vii. Our seventh sub-hypothesis was: "procurement of stores and spares is more complicated in cotton mills compared to jute mills". Our findings lent support to this sub-hyothesis. It was found that more than eighty percent of stores and spares of cotton textile mills have to be imported compared to only twenty percent for jute industry. Stores and spares constituted 51

percent to total inventories (see p 98) in the selected cotton held an excess stock of stores and spares of Tk.150.53 mills on 30th June, 1986 (see p 100) out of which Tk.21.0 lakhs lakhs could be saved as interest income only(see p 101). In cotton mills, purchase is done through tender, but purchase procedures do not conform to five "F'S" of sound procurement policy. An enterprise should purchase right quantity , at right quality, at right time, at the right price and from the right source. Though purchase is made through tender, right quality items are not purchased and also at right prices. For example if an Almirah is supposed to be made of "Shel Koroi" of district, very often wood of Jessore district is supplied, whose market value is lower by 50 percent(for low quality). The researcher on visit to the godown observed that some stores items had never been used. Which could be sold out. It was also observed that items which would be used with minor repairs have been dumped in the godown and new items are purchased. This represents attempt to leak out working capital.

2. Our second hypothesis was: "for poor collection policy, a huge fund is blocked in accounts receivables. which creates working capital problem in public enterprises". Our data strongly supported this hypothesis. The averge percentage of receivables to current assets was found 31 and 39 in public sector jute and cotton textile mills respectively compared to the percentage of

29 and 25 in private sector jute and cotton textile mills respectively during the study period. The table 7.5 in chapter seven revealed that there was excess receivables of Tk.1866 lakhs in the public sector jute mills compared to our planned receivables as per model during the study period. The selected jute mills could save Tk.26 lakhs as interest income only out of the blocked fund. Table 7.10 revealed that there was excess receivables of Tk.242 lakhs in the selected cotton mills and the mills could save about Tk.34 lakhs as interest income only out of the blocked receivables. Moreover, the savings could reduce the accumulated net loss of jute and cotton mills to a considerable extent and could contribute to the improvement of cash flows (see Table 7.5.2 to 7.5.5).

2 i. Our first sub-hypothesis on receivables management was: "for poor collection policy, a huge fund is blocked in trade debtors, which creates working capital management problem". The data and investigation lent support to this sub-hypothesis. Out of total 28 respondents in our survey, about eighty three percent agreed that due to poor collection policy a huge fund was blocked in trade debtors in the selected public enterprises. Table 7.5 revealed that there was excess trade debtors of Tk.886 lakhs in public sector jute mills compared to our model. The excess trade debtors was found Tk.101. Tk.260 and Tk. 525 lakhs in big, medium and small jute mills respectively during the study period. In

cotton mills, the excess trade debtors was found to be Tk.80 lakhs in Monno(old), but there was shortage of trade debtors of Tk.28 lakhs and Tk. 17 lakhs in Quaderia and Satrng Cotton mills respectively compared to our model. On the whole ,there was excess of Tk.35 lakhs blocked in trade debtors in selected cotton mills. However, there is no provision for crdit sales in BTMC enterprises. In jute mills, average collection period is 30 days as per L.C. But in the year 1987 about 44, 56 and 100 days sales were tied up in big, medium and small jute mills in public sector respectively compared to 35, 16 and 29 days sales in private sector jute mills(See annexure I -III and VII-IX). This is an indication of inadequate effort to collect trade debtors by the public sector jute mills.

In cotton textile enterprises sales were mostly done on cash basis, but some sales are made on credit to Government department and autonomous bodies like, family planning and health Directorates. Consumers suppliers Corporation, Militery, Police, Ansar, VDP. Jails and other semi-govt. and cooperative bodies through BTMC Head office. All these Govt. and Semi-Govt. agencies, which are supposed to have enough of budgetary allocation make payment at a time at the end of financial year which creates receivables management problem. The corporation has not laid down any good collection policy to realise money promptly from the Govt. Semi-Govt. and autonomous bodies, which aggravtes the working capital management problem of BTMC enterprises.

Our second sub-hypothesis on reeceivables management was: "management are reluctant and sometimes become helpless in realising advances from employees because of undue Government orders under the pressure of union and social leaders, as a result a huge fund is blocked in advances over a long period". Our findings and observation supported this sub-hypothesis. Our findings revealed that out of 31 percent receivables in public sector jute mills about 16 percent was blocked in advances compared to 19 percent in private sector. Table 7.5 shows that out of total excess receivables of Tk.1866 lakh in public sector jute mills Tk. 980 lakh was blocked only in advances. Table 7.10 reveals that out of excess receivables of Tk. 242 lakhs an amount of Tk.207 lakhs was blocked in advances in public sector cotton mills during the period of study. On examination of record, it was found that advances to employees in the form of salary, wages, flood and cyclone relief and TA and DA constituted a major portion of total advances. In the vear 1987, the total accumulated employee advances was about Tk. 597, Tk.70 and Tk.22 lakhs in big, medium and small jute mills respectively.

In 1987 audit report of jute mills it is specially mentioned by the auditors that they were informed by the management that advance against wages paid to workers is difficult to realise, because the management has stopped deducting all advances from workers as per Government order. Therefore, the management mentioned, that they were totally helpless to realise advances

from workers and they were unable to say to what extent advances to workers and employees will be recoverable. In the opinion of the management out of the total advances 90 percent were arrears from the very inception of nationalisation period (from March 72). Recently the Ministry of Finance has been issuing strong directives for immediate recovery of employee advances, but action as noted by knolwedge persons is rather slow.

In public sector cotton mills, an average of 26 percent receivables was blocked in advances and due to pressure of union and social leaders and Government directives, the management is reluctant to realise it. The conclusion is that workers and employees are enjoying advances at interest free loan by forgoing the enterprises to seek further loan from the bank at high rate of interest. This is largely due to inefficiency of management and partly due to leeway given to workers and employees unions by by Government. This indiscipline, in case of strong action means gheracs of the senior enterprise executives.

3. Our third sub-hypothesis was: "cash planning is ineffective in public sector jute and cotton mills". The findigns supported this hypothesis. Out of total twenty eight officials interviewed, in our survey, about seventyfive percent respondents replied that they did not prepare monthly/weekly cash budgets which is very vital for effective cash planning. However, it was mentioned that they prepare only yearly cash budget for submission to

Corporations and Ministry of finance. Comparison of actual cash inflows and outflows have shown that this is mere an academic exercise having no relationship with reality. A good management is one which prepare monthly rather/cash budget which enables them, when to take loans and for which period and to ensure surplus cash it any to be kept in short term deposit(STD) account which vields some gain. Examination of records has shown that monthly cash budget is not prepared. The necessity of weekly cash budget is not felt at all. It is revealed that average percentage of cash to current assets was only 2.02 in public sector jute mills compared to 2.69 in private sector during the study period. The average percentage of cash was found 11 percent in public sector cotton mills compared to 7 percent in private sector. According to some authories like Prof. Nigam of India and top management of Corporation, that cash in a well financed company should not be less than 5 to 10 percent to cover current indebtedness. Compared to that cash was found much lower in jute mills. However cash was found bit higher in public sector cotton mills. Compared to standard. This reveals that cash planning is ineffective in the selected mills, especially in jute mills.

The fourth hypothesis in this study was: "private sector jute mills show higher prices of raw jute cost in order to extract undue concessions from the Government in terms of compensation for loss, to get cheap bank loan and also to evade taxes". The data lent some support to this hypothesis. The lowest

average per ton cost of raw jute for hessian, sacking and C.B. C. of five private sector jute mills(BJMA) was found to be Tk.7911. Tk.5680 and Tk. 10653 compared to Tk. 7118, Tk.5196 and Tk.8395 of five public sector jute mills (BGMC) respectively during 1987-88. Similarly the lowest average interst cost per ton of bessian, sacking and CBC of five private jute mills was found to be Tk.1415, Tk. 694 and Tk.1932 compared to Tk.1063, Tk.434 and Tk. 1565 of five public sector jute mills respectively during the same period. The findings show that raw jute cost was shown much higher in private jute mills compared to similar jute mills in pubic sector. It is also revealed from the interest cost data that private jute mills enjoyed bigger amount of bank loan compared to simular jute mills in the public sector. Moreover, it was found that most of the selected private sector jute mills incurred huge losses and did not pay taxes at all during the study period.

However, from the above analysis, it may be infurrred, that our eighth hypothesis is true to some extent, without being any definite conclusion.

Our fifth hypothesis was that undue demand of fringe benefits by unions at the instigation of management and social leaders enhanced the wage and salary costs. Our observation and interviews lent some support to this hypothesis. Some union leaders reported that they were inspired by the management to

demand undue fringe benefits, in the form of extra bonus, overtime etc. On the other hand, some management people reported that they were pressurised by the unions at the instance of some social leaders to pay undue fringe benefits. Management also mentioned that they were forced in some occassions to buy weight jute and low quality jute supplied by union and social leaders. However, no documentary evidence was available to establish this hypothesis.

However. certain costs which the mills had to incur whether public or private though not justified by production effort. This emanate from the orders issued by the Government from time to time under pressure of union leaders, some of them have become political leaders.

Our sixth hypothesis was: "Cost accounting and cost control system are inadequate in public enterprises". Our data supported this hypothesis. Out of the twelve respondents interviewed in our survey, majority of them admitted that there was no effective cost accounting system and cost control effort in their enterprises are totally absent to control over expenditure which aggravated the working capital management problem.

The seventh hypothesis in this study was that lack of coordination between production and sale affected working capital management problem. The data supported this hypothesis.

Out of twelve executives interviewed in our survey about 67 percent reported that there was lack of coordination between production and sales in their enterprises.

Our eighth hypothesis in this study was: "There is no basic difference on the level of efficiency between public and private sector enterprises with respect to inventories, receivables and cash components of working capital management."

Our X analysis in chapter—six supported this hypothesis. No significant association was found on the efficiency of management of inventories, receivables and cash components of working capital between public and private sector jute and cotton textile enterprises. However, it was found that some private sector cotton mills are better compared to public sector.

Our nineth hypothesis was that, public enterprises are overmanned either by ghost workers/or by surplus managerial becopie of the disinvested mills and some workers especially union leaders do not work at all, which increases undue wage and salary costs in public enterprises compared to private enterprises. Our data and observation indicated some evidence of support for this hypothesis. The wages and salary costs were found higher in public sector jute mills compared to private sector. The average wages cost per ton of hessian, sacking and CBC was Tk.7157, Tk.4546 and Tk. 7512 respectively in public sector jute mills compared to Tk.6399. Tk. 3660 and 5403 respectively in the

private sector jute mills. The average salary cost per ton of hessian, sacking and CBC was found Tk.1442, Tk.871 and Tk.1690, compared to Tk.1601, Tk.787 and Tk.1634 in public and private sector jute mills respectively. Syed Nazrul Islam, the then industires minister (1974) in his soeech on the floor of the parliament house mentioned that there were twenty six thousands ghost workers in our public enterprises. The surplus labour still exists in public enterprises. (Ref: Habibullah. Accountability structure of public enterprises in Bangladesh, U.G.C. October, 1988).

8.2 POLICY IMPLICATIONS

Based on the review of literature on working capital management, and the analysis carried out in this study, some recommendations are putforward which have policy implications.

- 8.2.1 We are confident that as we go along with the implementation of the package of the model recommended by us in chapter seven, will enable the management of public enterprises in jute and cotton textile industries to manage their working capital most efficiently and effectively.
- 8.2.2 We suggest that the inventory, receivables and cash norms should be given effect immediately, while action should be initiated to implment the new approach and where the individual mills seeks additional cash credit facilities on regular basis, the limits will be fixed on the basis of designed norms.
- 8.2.3 It is suggested that export incentive scheme like export bonus scheme should be given to jute industry immediately to save the industry from ruination, but at the same time the management of the jute enterprises are expected to opeate their enterprises at least at breakeven level.

- 8.2.4 It is suggested that the enterprise management should be courageous enough to resist any undue interference of the labour union and the Government also should look into the matter to save public enterprises.
- 8.2.5 Measures should be taken by the Government and the enterprise management to stop any inefficiency and corruption in the public sector jute and cotton mills. It is suggested that management audit should be introduced in all enterprises immediately.
- 8.2.6 The working capital gap will have to be computed by the individual public enterprises, the extent of bank finance will be arrived at and the overall credit will be fixed on the basis of suggested model as indicated in chapter seven.
- Managerial competence is an important factor in the efficiency of operations, reflected in profitability and working capital and financial management. The banker of the enterprise providing cash credit, should keep in mind that appraisal of management may be essential. It is recommended that banker should undertake supervised cash credit system, particularly as we place a new emphasis on vaiability and development rather than on securily alone.

- 8.2.8 Speical training courses on working capital management, tinancial management, and cost control should be organised for the public enterprise officials at the Bangladesh Management Development Centre and other training institutions.
- 8.2.9 Each bank should conduct banker borrower seminar to

 create an understanding between the enterprise

 officials in the respective banks and their customer.
- 8.2.10 It is being recommended that attitude of richer section of customers clamouring for foriegn textile goods should be changed through motivation and curbing sumuggling.
- 8.2.11 It is suggested to produce quality jute products at minium cost to face export market and internal market for jute goods should be extended.
- 8.2.12 The present practice of BTMC's allotment of raw cotton to the individual textile mills without considering its requirement and the same should be alloted on the basis of need and suggested norm, which might help to reduce the blockage of raw material invnetory.

8.3 DIRECTIONS FOR FURTHER RESEARCH.

Working capital management in public enterprises in Bangladesh has received the attention of the Government, Banker, Management. Academician and by the general public during the last

decade. Saha (1982) Hossain(1984) have provided an elaborate set of premises and agenda for additional research on working capital management in the public sector jute and textile industries in Bangladesh. In this last section of the chapter some aspect of working capital management in public enterprises are raised which, the researcher believes, warrant further research attention.

8.3.4 Limitations of the Study.

- (i) The study is limited to only three jute mills of Dhaka Zone and three cotton spinning mills of Tongi Zone of BJMC and BTMC respectively.
- The study is mainly based on the annual audited balance sheets and profit and loss accounts, management information system reports, budgets, quarterly jute goods statistics, and the information collected through questionnaire by interviewing key personnel of the selected mills and BJMC and RTMC head offices. Data for weekly or monthly variation in inventory level, recievables and cash, would have been more meaningful, but reliance is placed on yearly basis data in the absence of them.
- (iii) There are also limitations in regard to the memory and knowledge of the respondents.

(iv)	The absence of some of the relevant official	
	date and internal audit reports for our purpos	5,67
	have also limited the scope of our study.	

Due to the inflationary trend of economy in the the country, and from the point of view of the diminuation in the value of money during the period of study, the effectiveness of data may be questioned. We have tried to minimise the gap but due to the lack of price indices from official sources, we could not achieve our mission.

It is ture that all such limitations are common to any type of research work, but we have tried our best to minimise the probability of errors through a logical cominbation of questionnaire and using direct interview method, which we suppose would help to find out the authenticely of data on the hand and carry on the logical analysis of data on the other.

However, analysing the above limitations, and based on the present research study, a few recommendations are given below for further studies:

(i) The study be udnertaken in the other zones of jute and cotton textile mills respectively.

- (ii) Specific research study may be undertaken on each component of working capital seperately, i.e. inventory, receivables, and cash positions of jute and cotton textile mills respectively.
- (111) The detailed study on the courses of operating losses, absence of gross margin, causes of losses and low profit may be made to find out the factors responsible for the negative and low earning power of the nute and textile mills respectively.
- (iv) Another study may be made on the basis of the price level adjustment accounting due to the inflationary trend of the economy.
- (v) A detailed study may be undertaken on the enviornmental effect affecting working capital management in the public enterprises.
- (vi) Another comparative study on working capital management may be made between public and private sector composite cotton textile mills.

FINANCIAL & ALYCIC CONCORNANCY PECHNIQUES-CALCULATION SHEET

LACIF MAWANY JUNE MILLS

Takha in thousand

	Year ended	1982	1983	1984	1985	1986	1987
() A'	Accounts Items			 			1
Ref	Wecoming Trains	000	000	000	750005	000	000
10	Sales	220558	285151	315163	359095	388752	
11	Inventory Increase + or decrease	35117	42284	41121	35267	A 4463	52 9 7
12	Other Income	1146	1218	1850	1879	989	711
13	Materials	89580	112179	247179	127236	151692	1425
14	Labour	79985	79296	97034	104697	139998	1428
15	Production Overheads	33193	42219	40469	40496	354 90	5534
16	R&D O V erheads	-	-	-	-	-	-
17	Selling & Distribution Overheads	5807	7743	7466	6333	6798	6459
13	General Admn. Overheads	17.5	11618	- 13456	7163	\$779	5003
10	Depreciation	4548	4659	4863	4160	3584	3830
±O		-	-	-	-	-	-
1	Interest	15044	13148	13393	19971	30125	7934
22	Corporation Tax		-	-		-	
23	Preference dividend	-		-	_	-	
24	Ordinary dividend	-	-	-	-	-	-
25	Increase in retained easings and reserves	(6724)	20442	10221	(24162)	(27529)	(64)
	DERIVED FIGURES						
30	Total Revenue	221/04	286369	315013	360974	388741	3609
31	Average daily sales	604	781	857	983	1065	1200
52	Added Value	166095	215256	107105	. 317121	28152	2697
53	Contribution	52517	93741	30397	171932	117450	5683
34	Operating Profit	35836	69719	8332	154275	98108	775
35	Net Profit before	-	20442	10221	(24662)	(27529)	(64
36	Net Profit after	(6724)	2044.2	102.21	(24662)	(27529)	164
37	Ordinary camings			••		-	
38	Cash flow	(2176)	25101	15084	(20502)	(23945)	3766
5)	Cost of sales	202758	233694	384683	272437	410473	3545

LATIF BAWANY JUIL

	Dhq	ką University Iņ	stitutional Rapas	ing ion		
	Year	1982	1983	1984	1985	1986 1987
Ref	Accounts I tems	-100	000	000	000	000
50	Land & Bld.(at cost)	-	_		-	-
51	Plant & Machinery(at cost)		 	 	 	
						-
52	Vehicles (at cost)		-	-	-	-
53	Interest in other compa- nies(associated with the trade).	_	-	_	-	-
54	Long-term investment (not appociated with the trade)	-	-	-	-	-
55	Depreciation to date			- '	-	-
56	TOTAL FIXED TANGIBLE ASSETS (50 to 54-55)	30106	28604	48910	37699	25 805 28805
57	Stock(raw materials) (-	-			-
58	Stock(WIP)		-	-		-
59	Stock(finished goods) Trade debtors(less provision for bad debts)	217 83	121702 22615	119398 21771	192531 24920	257845/ 2044 44684 5235
61	Carsh	7905	2268	1320	1676	2820 2226
62	Other easily realisable assets	33968	34611	29862	35033	37457 33585
63	TOTAL CURRENT ASSETS (57 to 62)	169319	181278	170325	254970	340950 292599
64	Tax due					
65	Interest due on Loan					
66	Bank Overdraft	7Ë248	71239	35085	123652	229032 1994 29
67	Other current liabilities	1	33082	37659	58888	123542 1244 21
68	Trade Creditors	8 50	6921	7301	6896	8012 7136
69	TOTAL CURRENT LIABILITIES '64 to 68)	170 (40	111247	85046	189437	360586 330986
70	lacue Ordinary Shares	61117	236640	73963	78920	87230 87230
71	Other Liabilities	33 55h	34528	3813	3265	72176 15538
73	long term low, webenly res	59525	6.2083	61306	60075	37331 40425
73	Retained comings and reserves	(4511)	(25067)	(20478)	(37028)	122834) (11500
74	TOTAL LONG TERM FUNDS (70-to 73)	108685	308184	118604	103233	178749 27784
75	Outside monority interests in subsidiary communies.					
76 77	Goodwill, patents, trade, marks, etc.			16.20	1655	
//	No.of ordinary shares issu DERIVED FIGURES	iea 1650	1650	1650	1650	1650 1650
30	Net worth	1500C	208597	53485	39892	69241 (1263)
31	working Capital	49179	70030	85.:29	65533	(19635)(38537
32	Equity shareholders funds	15606	211572	53484	84623	(924)
85	Total asset(Tangible)	199425	209883	209629	292070	368759 321629
34	Capital employed	79285	986-15	393 0 3	37600	8172 (93357)
35	Operating assets	199423	209885	209629	797070	368759 321629
\$6	Liquid assets	57606	59575	52955	61630	84962 88162

LATIF PAWARY JUTE MILLS

	Ref	Derivation	Ratios	Value	(& tren	ds over	r 5 yrs	
	Kei	perivacion	HACTORS	1982	1983	1984	1985	1986 170
	и	35 84	Capital emilyon	(8.48)	20.72	26%,	65%	(337) _{Neg}
ral	I:	10 84	Capital employed	2.78	.2.39	7.96	9.52	48 Neg
General	C	35 10	Det Profit tofore tax Sales	(3.04)	% 7.16	% 3. 26	(6.86)	(7) -0:0
	D	- 34 85	Operating Profit 100%	% 17.97	% 33.21	% 11.23	% 52 . 7	'NA %
au	E	32 85	Added value Operating asset	.83	1.02	.51	1.08	NA -024
erformance	F	39 57+58+59	Cost of sales Stocks	1.82	1.92	3.22	1.41	NA 0.58
al Fe	G	32/50	Added value/ Trans asset	5.58	7-53	a. 19,	3.41	10.120.
Manageria	II	32 3	Added volus No. employees					
Man	I	<u>56</u> 3	Fixed asset No. employees					
j	J	10 71	Sales Working Capital	4.48	4.07	3.67	5.48	0.76 Neg.
ance	К	57+50+59 81	Scock Working Capital	2.27	1.74	1.40	2.94	NA. DO
erfo	L	31	Trade beltor: Av. daily sales	36days	29days	25days	25days	42 44
Pu !	М	63 69 .	Current naseta Current Liabilities	1.40	1.62	2.00	1.34	0.950.88
Financial	N	86 69	Liquid asset Current Liabilities	0.47	0.53	0.62	0.32	0.24 0.27
investment	0	33 34	Contribution Operating Profit	1.47	1.34	3.42	1.11	Neg. Neg.
	P	71+72 64	Fixed intrest capital Capital employed					
as an	Q	37 24	Ordinary earning (net) Gross Ordy. dividend					ļ
Rating	R	36 8ō	Net profit after tax Net worth					

- INNEXURE - I

LATIF BAWANY JUTE MILLS

1				Valu	e (& tr	enda ov	er 5 yr	s)	
	Ref	Derivation	Ratios	1982	1983	1984	1985	1986 1989	
	s	13 10+(11x3/2)	Material x 100%	% 40 .61	% 39.34	% 78 .9 2	% 35.43	% % 39 39. 5	8
	12	14 10+(11x3/2)	1.abour x 100%	36.26	27.80	30.98	29.15	36 39 . 5	6
	U	15 10+(11x3/2)	Production Overneads Sales	15.04	14.80	12.92	11.27	6.20 15/3	- 56
Breakdown	ν	16 10+(11x3/2)	R&D Overhead x100% Sales	-	-	-	-		
Cost 1	W	17 10+(11x3/2)	Selling, dist. overhead x100 sales	2.63	2.71	2.38	1.76	1.75 1.79	-
-	Х	18 10+(11x3/2)	General admin.overhead x100%	2.06	1.63	1.55	1 .1 5	2.26 1/39	-

AHNEXURE-II

Dhaka University Institutional Repository FINANCIAL ALALYLIS COLUMNICY TECHNICUES-CLLCULATION SHEET

KARIM JUTE MILLS LTD.

Taka in Thousands

	Pr	ofit & Los	s Account	Informatio		In Thousands
	Year ended	1982	1983	1984	1985	1986 1987
,.eT	Accounts Items	000	UW	000	000	000 000
10	Sales	17 (04)	159193	153953	191554	223158 77914
11	Inventory increase + or decrease	14770	1975)	31176	53382	20629 28071
12	Other Income	1113	1301	1566	1854	1452 1187
13	Materials	45487	56554	72130	134902	87643 70501
14	Labour	41747	1(1029	55820	64086	78916, 82200
15	Production Overheads	16657	.:55::18	22632	a1864	25766 2648 5
16	RED Gverheads	-	-		-	
17	Selling & Distribution Overheads	6984	6953	6208	6175	8000 6748
18	General Admn. Overheads	2915	19159	32.15	4830	5731 5782
1)	Depreciation	1933	18)3	1642	1861	1968 2648
20						
21	Interest	8, 89	9515	10344	17 126	23011 12183
22	Corporation Tax					
23	Preference dividend	hagyangaffarran û anûmûn tanûh		m i		
24	Ordinary dividend					
<i>2</i> 5	Increase in retained comings and reserved	(14/4)	₿. ∋0	(3975)	(3/1733)	(36079) 18858
	DERIVED FIGURES				a. C0ca	190000 - 10 10
30	Total Revenue	106 196	1 5 7483	150378	156821	187079 180328
31	Average daily sales	3.25	t_{1Oj}	402	525	611 601
35	Added value	8,500	106638	112999	110534	156144 136711
33	Contribution	20726	41181	34547	24584	51462 28025
34	Operating Profit	1 6605	19851	13128	(5408)	12752 (1996)
35	Net Profit before	7718	8290	(3575)	(34733)	(36078) (18858)
56	Net Profit after tux	77.13	2 15	14694	(34733)	(36078) (18858)
37	Ordinary eamings					*
38	.Cash :low	(9916)	10183	(1933)	(57872)	(34111) (16210
39	Cost of sales	9131.1	102017	119406	166970	246958 186575

	(cor	1966	1983	1984	1985	1986 1987
Ref	Accounts Items	OOO	000	000	000	000 000
			ļ			
50	Land & Eld.(at cost)				 	
51	Plant & Hachinery(at cost)		ļ			
52	Vehicler (at cost)					
53	Interest in other companies (associated with the trade).			\$		
54	Long-term investment (not associated with thrus)					
55	Depreciation to date					
56	TOTAL FIXED TANGIBLE ASSETS (50 to 54-55)	15058	14323	14467	15965	22075 24614
57	Stock(raw materials)		1 2 2 2 2 2	What 15	4.07.659	108000 = 10=
58	Stock(MITT)	200/16	19592	34404	116986	108090 7480
59 60	Stock(finished goods) Trade debtors(less	261:1-	11000	17410	13496	28696 33618
	provision for bad debts)	16430	14019	13147		
61	Cash	488	2877	1357	555	5728 690 0
62	Other easily realisable assets	16313	16796	15658	22869	20143 20249
53	TOTAL CURRENT ASSETS (57 to 62)	83278	3 32 85	114566	155616	162657 13556
J.4	Tax due					
55	Interest due on loan					
56	Bank Overdraft	61009	41062	68384	129277	135253 10514 4
57	Other current liabilities	48865	37964	26923	27731	68603 82525
82	Trade Creditors	4374	5663	8775	9693	9439 12333
59	TOTAL CUR CENT LIABILITIES (64 to (8)	114250	84694	104082	166700	213295 19880
70	Issue Ordinary Shares	9900	9900	9900	9900	9900 9900
71	Other Limbilities	148.11	51585	144822	56356	56686 67128
10	Long term loan, deben res	14.1.19	1:022	20578	23527	58370 6638
73	Retained eamings and	(2555)	1024		(25419)	(26765)(260)
74	TOTAL LONG TERM FUNDS (70-to 73)	36435	60531	81038	64364	98191 11777
75	Outside monority interests in subsidiary companies.					
76	Goodwill, patents, trade marks, etc.					
77	No. of ordinary shares issu	ed				
50	DERIVED FIGURES Net worth	Set Class	42509	60460	40837	39830 5098c
311	Working Capital	21596	(1409)	10484	(11034)	(50638)(16244)
82	Equity shareholders funds	7565	10924	15638	(15519)	(16855) (16:4
33	Total asset(Tangible)	96336	97608	129033	171581	184732 160182
34	Capital employed	(15914)	1:214	24951	4881	(28563)(38782
35	Operating seets	98336	976.08	129033	171581	184732 :160 8
36	Liquid assets	33231	35698	50162	30947	54507 60717

FARM JUNE MILLS LID.

T	Ref	Derivation	Ratlon			nds <mark>ove</mark> i)	
				1982	1983	1984	1985	1986	198
	Л	35 84	Het I rofit Lefore tax 100% Capital employed		% 164	% 59	% (73)	-	-
!	В	10 9);	Sules Capital amployed						
	C	10	Het profit active to x100%	;6 6.54	14.17	9.59	(1.85)	6.36	Ne
	D	- 34 85	Operating Profit 100%	% 6.72	2.03	10.17	(3.15)	6.90	% -1
	E	32 85	Added value Operating asset	∂.89	1.11	0.87	0.64	0.85	0.
	F	39 57+58+59	Cost of Gales	1.82	2.17	1.41	1.43	1.59	2.4
• [G	32/56	Added value/fixed asmot	5.80	7.58	7.31	6.92	7.07	5.5
	Н	37 3	Added value No. employees	NA	NA	NA	NA	NA	NA
	1	56 3	Fixed asset No. employees	NA	NA	NA	NA	NA	NA
+	J	10 81	Sales Working Capital	N A	NA .	10.68	NA	NA	NA
	К	57+ 58 +5 9 81	Stock - Working Capital	NA	NΛ	8.05	NA	NA	NA -
-	L	60 31	Trade bebtors Av. daily sales	50.86 days	34.27 days	31.15 days	25.70 days	46.96 days	55
	М	63 69	Current assets Current Liabilities	0.73	0.98	1,10	0.93	0.76	0.6
1	N	86 69	Liquid asset Current Liabilities	0.29	0.40	0.29	0.22	0.25	0.3
1)	33 34	Contribution Operating Profit	NA	NA	NA	NA	NA	NA
I		71+72 84	Fixed intrest capital Capital employed						
	}	37 24	Ordinary earning(net) Gross Ordy. dividend						
	₹	36 85	Net profit after tax Net worth						

ANNEXURE-11

KARIM JUTE MILL LTD.

			Kukim 201	- •					
-				Value	(& tr	ends ov	er 5 yrs	i)	1
	Ref	Derivation	Ratios	1982	1983	1984	1985	1986 198	Þ
	S	13 10±(11x3/2)	Milerial x 100% Siles	34.25	34.22	37.74	54.98	35.95 3 9	35
	T	14 10+(11x3/2)	Labour x 100%	31.43	25.38	29.21	26.11	32.37 45	88
	U	15 10+(11x3/2)	Production (workends Siles	14.20	15.46	11.84	8.91	10.57 14	78
Ereskdown	٧	16 10+(11x3/2)	Sales , x100%	-	-	-	-		
Cost B	W	17 10+(11×3/2)	Selling, dist. overhead x100	% 5.26	4.21	3.25	2.52	3.28 3.7	6
	х	18 10+(11x3/2)	General admn.overhead x100%	2.19	1.80	1.69	1.97	2 .3 9 3.	22
1						4	L	L	L

ANNEXURE-111

FINANCIAL AMALYSTS CONSULTANCY TECHNIQUES-CALCULATION SHEET

NAPARUN JUTP KILLS LTD.

	Pr	ofit & Lo	an Account	Informati		in thousands
	Year ended	1982	1983	1984	1985	1986 1987
ico f	Accounts Item.	CO	OCO	000	()()()	UOO 000
10	Sales	65702	61287	67797	80918	107211 9#8
11	Inventory Increase + or decrease	7656	12703	13986	31978	12676 120
12	Other Income	1054	1054	235	201	120 780
13	Materials	25094	13175	26215	27859	39519 374
14	Labour	18411	c2275	24876	22773	34922 3790
15	Production Overheads	8508	4985	17633	18961	12054 1464
16	R&D Overheads	-	- 5-	-	-	
17	Selling & Distribution Overheads	2328	1911	1885	1411	2127 2256
18	General Admir. Overheads	2162	4310	-	- 1	2484
19	Depreciation	2271	2397	2197	2397	1906 649
20						
21	Interust	2703	2603	6346	2603	7049 4489
22	Corporation Tax	1323	1042	-	1042	~
23	Preference dividend					
24	Ordinary dividend					
25	Increase in retained eamings and reserves	(820)	(855)	956	(6421)	(24200)(2413
70	DERTVED FIGURES	((n)	62333	6803	81119	107331 9858
30 31	Total Revenue Average daily sales	66757	204	226	270	294 268
32	Added value	219 48204	50808	73558	85036	Now M
33	Contribution		23048	31050	43301	724
34		22425		44600		726875 '65
	Operating Profit	14582	14920		39492	
35	Net Profit before	15637	6765	2084	(9378)	(8579) o 62
36	Net Profit after tux	11610	6765	2084	O:	19946 0131
37 .	Ordinary eamings	11610	12330	38489	36048	19946 31
36	Cash flow	1450	2232	3.153	(4024)	22244)(23504
39	Cost of sales	4431/7	19310	14738	37616	73019 1020

	NALA (U bhak					219
	Ţ	មិនស្រាប់ មិន	neet Info		·	
	Actor.	1907	1983	1984	1985	1986 1987
Ref	Accounts Items	()()()	000	000	000	000 000
50	Land E mld. (at cont)					
51	Plant & Machinery(st cost)					
52	Vehicled (at cost)					
53	Interest in other companies (associated with the trade).					
54	Long-term investment (not masserinted with the visco)					
55	Depreciation to date					
56	TOTAL FIXED TANGT LE ASSUTS (50 to 54-55)	15287	13602	11 6 8≥	9846	8123 69744
57	Stock(raw materials)					
58	Stock(MTP)	32174	26620	39767	(84,8)	GG174 51779
59 60	Stock(finished goods) Trade debtors(less		35677	14700	16556	2.77
	provision for bad debts)	12/4/51	8500			17356 26888
61	Cash	195/	1304	1493	3017	1099 3370
62	Other easily realisable assets	130	6576	610571	212081	15972 10715
63	TOTAL CULLEMT ASSLES (57 to de)	-40%	52309	66532	100487	100603 9275
64	Tax due					
65	Interest due on loan					
66	Bunk Overdraft	9921	-	10971	46629	51117 51348
67	Other current limbilities	1948	25742	29909	34372	47368 41531
68	Trade Creditors	1423	223	340	408	2575 323
69	TOTAL CULENT LIABILITIES	30827	25966	41221	81292	100599 93402
70	Issue Ordinary Shares	16332	18794	18794	18794	18860 18860
71	Other Liabilities		_	_	_	_ 31
72	Long term loan, debentures	25615	21237	17242	16669	13468 11615
73	Retained eamings and reserves	(34(8)	(85)	956	(6421)	(24200)(24215
74	TOTAL LONG TERM FUNDS (70-to 73)	38479	39945	36992	29042	8128 63524
75	Outside monority interesta in subsidiary companies.					-
76	Goodwill, patents, trade marks, etc.					
77	No. of ordinary shares issu	ed				
x o	DERIVED FIGURES Net worth	1,2305	18708	19750	18151	(5340) 25243
31	Working (Apital	1,256/1	76708	25310	19195	
1,2	Equity shareholders funds		1870%	19750	18.151	(5340) (52 54)
73	Total asset(Tangible)	1, 100	(5)12	78214	110334	108726 99787
4	Capilai employed	3°1100	40045	36992	29042	8127 6324
15	Operating assets	59315	(5912	78214	110334	108726 99734
36	Liquid assets	21904	10631	26764	31654	34427 1097

MARABIN JUBS WILLS IND.

	Ref	Derivation	Ration	Ville		nds ove	r 5 yrs	
	11.01	Del 144 closs	N. C. I S.	1982	1983	1984	1985	1986 1987
	11	35 84	Ret Profit before tax 100; Charles employed	40.63	% 39 . 99	121.20	% 136.67	245.42 0.78
THE	В	10 श्री	ಸುವಿತ Capital employed	1.70	1.53	1.83	2.79	1519.20 15
General	С	35 ·	Files Sales Sales	% 29.80	% 26.06	66.13	42.05	13.60 0.03
	D	- 54 85	Operating Profit 100%	21. 13	.2. 7	· •0/·	35.	4.720.06
90'	E	32 75	Added value Oporating asset	0.70	0.77	0.94	0.77	0.74 0.72
erfor	F	57+58+59	Cost of Enles	1.37	4.58	1.37	0.54	0.521.97
174	G	32/56	Added value/fixed asset	3.17	2.73	6.29	8.63	9.89 10
Managerial	И	32	Rdied value No. employees					
Y.e.	I	56 3	Fixed asset No. employees					
	J	10 81	Salen Wocking Capital	2.82	2.53	2.67	4.22	4.61 Net-
e .	К	5 7+58+59 31	Stock Working Capital	1.38	1.35	1.57	3.96	16544 do.
erformance	L	60 31	Trade beltors Av. daily sales	57days	42days	65days	61days	59 100days
ρ.	М	63 69 -	Current essets Current Lincilities	1.75	2.01	1.61	1.23	1.00 0.19
Firmoial	И	86 69	Liquid asset Current Liabilities	0.71	0.64	0.65	8ر.0	0.34 0.43
investment	0	3.5 34	Contribution Operating Profit	1.54	1.54	-	1.10	- 30.2
	P	71+72 84	Fixed introduced copied					3
ae an	Q	37 24	Ordinary earning (net) Gross Ordy. dividend					
Jura C	R	36 8ō	Net profit after tax Net worth	90.25	65.90	194.87	198.60	- 0.01

ANNEXURE: III

FINARCIAL ANALYSIS CO. MOST ROY TECHNIQUE-SURRARY LIBERT

NAPAREH JUT. PILLS LTD.

1			40000	T	Value (& trends over 5 yrs)							
li	ter	Derivation	Ratios	1.0	1982	1983	1984	1985	1986 198	7		
	s	13	Material x 100%		25	%	%	%	% %			
	J	10+(11x3/2)	Sales		38.19	37.81	38.66	34.42	36.86 38	.3		
	Т	14 10+(11x3/2)	Labour x 100%		28.02	3 7.16	36.69	28.14	32.57 38.	75		
Ereakdown.	1	15 10+(11x3/2)	Production (washe of Sales	s ×100%	12.95	8.13	26.00	23.43	11.24.14.	-8		
	ν	16 10+(11x3/2)	R&D Overhead Sales		-	-	-	-		-		
Cost	W	17 10+(11×3/2)	Selling, dist. overl.	e:id x100%	5.54	2.30	2.78	1.74	1.98 2.3	1		
	х	18 10+(11x3/2)	General admin.overhe	ad x100%	3.29	7.04	-	-	2.32 NA			

ARNEXURE-IV

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

Monao (CLD) TEXTILE HILLS

TALA IN LAKE

	Year ended		1983	1984	1985	1986	1987
Re		19	000	000	eee	980	966
-	Sales		658.87	643.88	696.31	626.94	662.29
11	Inventory Increase + or	decrease -	12.26	(3.83)	(110.96)	48.92)	(31.91
12.	Other Income		6.69	2.38	2.82	2.08	5.72
13	Materials & B.O. larts		420.43	403.43	518.91	350.71	276.01
14	Lobour		88.43	108.19	139.23	175.96	181.01
15	Froduction Overheads		66.34	69.32	81.63	64.63	69.91
16	R J D Overhends		-	-	-	-	-
17	Selling # Distribution	Overheads	-	-	_	-	_
n,	General Admn. Overhead	3	21.31	21.64	29.80	49.03	40.35
1.3	Depreciation		1.03	3.29	4000	7.83	5.03
20			-	-	-	-	-
21	Interest		6.68	2.27	-	22.79	2.06
2.2	Corporation Tax		-	-	-		_' _
23	Traference dividend			-	-	-	-
24	Ordinary dividend		-	-	0.1	-	-
25	Increase in retained or reserves.	15.91	34.09	12.13	(50.90	21.8	
	DERIVED FIGURES	Derivation					
30	Total Revenue	10 + 12	665.16	646.26	 699 .13	029 . 02	668.01
31	Average daily sales	10 💠 365	1.20	1.76	1.90	1.72	1.81
32	Added value	10 - 13 [±] 11	295.48	236.62	66.44	2.7.	1 35/1.3
33	Contribution	10- 11-(13+1/	15)71.66	59.11	67.50	(16.08)	96.3
34	Operating Profit/Loss	10±11-(1) to	19.)50.35	45.13	71.10	(14.00)	55.56
35	Net profit before tax	34+12	57.04	47.51	73.92	(67.03)	61.68
36	Net profit after tax and_interest.			73.92	(63.03)	61.68	
37	Owdinary eamings	36-23	-	-	-	-	-
3°	Cash flow	25+19	6.24	37.98		47.07)	26.87
30	Cont of color	42 . 15 . 15 4	1502 21	577 11	628,81	643.02	565.98

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	ancial Year ing date		Name	of Comp	pany Mo	NHO (OLD) TI	Ex. MILLS	
		e Spect	Information					
		Year	1983	1084	1985	19 26	1 19 87	
Ref //cc	ounts Items	Noves,	11.0	000	000	000	000	
50 Land & Bid. (a	t cost)	(_i)						
51 Flant & Hachi		(i)					 	
52 Vehicles(at c							-	
53 Interest in o								
5h Long term inv	estment(not				121 1	i ș		
55 Depreciation	to date							
	EL TANGIBLE ASS (50 to 54-55		57 .71	71.56	111.67	95.71	103.71	
57 Stock (raw mat		(k)	52.42	185.62	70.54	47.89	8.61	
58 Stock (JIF)		(k)		13.02		11.95	-	
59 Stock(finishe	d goods)		4.11	6006	115.26	66.34	34.43	
60 Trede-lebtors	(less profision	o Stores & Spar		56.26 62.25	348.52 217.88	150.55 133.93	84.11 166. 7 7	
51 Cash				32.58		0.52	01.0	
8: Other easily	realisable asse	ets	85.60	78.50	99.23	149.82	152.37	
60 POTAL CURIE	ENT ASSETS (57	tc 62)	333.3	434.	4 867.87	561.00	451.19	
54 Tax due				-	93.07	92.57		
65 Interest due	on loan							
66 Bank overdraf	t			-	71.66	17.96	76.38	
67 Dividends due	анцииминова	other limbalit	ies		467.62	217.08	173.91	
68 Trade credito	rs			******	231.01	274.40	169.35	
69 TOTAL CURREN	T LIABILITIES (6	64 to 68)	313.4	5 387.	71 863. <i>3</i> 6	602.01	419.64	
70 Issue ordinar	y shares		39.26	39.26	39.26	39.26	39.26	
71 Issued prefer	ence shares							
72 Long term lon	n, debeitures, et	ic.	-	44.20	64.80	86.54	99.71	
73 Retained eami	ngs and reserv	В	. 55.17	34.09	12.13	(50.90)	21.84	
74 TOTAL LONG	TEAM FUNDS (70 to	o 73)	94.43	118.1	5 116.19	74.90	160.82	
Outside miner subsidiary co	ity interes¤ i mponbes.	n						
76 Grociili, pate	nts, tradusriks,	etc.						
77 Number of ord	inary shiros is:	nued		1				
DERIVED	FI GUIGE!	Derivatio				r)		
80 Net worth	-	70+71+73		73-35	51.39	(11.64)	61.10	
B1 Working Capita		63-69	14.87	46.58	4.51	(41.01)	31.55	
82 Equity shareho		70+73	94.43	73.35	51.39	(11.64)	61.10	
73 Total asset(ta		56+63	391,0		5 979.54		554.90	
84 Capital employ		83-69	THE RESERVE AND DESCRIPTION OF THE PARTY OF		5 116.19		160.99	
85 Operating asso	ts	83-(53+94)	Carried Statement and		5 979.54		554.90	
86 Liquid assets		60+61+62	199.54	173.47	318 .7 7	284.27	319.24	

MINERURE -

ANNEXURE-IV

about 2

101.

144

Shows profitability

shareholders capital
earlings power from shareholders point of view

MONNO (OLD) TEX. MILLS Nme of the company value(trends over 5 yrs explanation of ratios 183 84 85 86 87 Hatios Derivation Lidaf 78.52 63.72(83.06) 38,31 35 85 ٨ not profit before to 40.26 canital employed mouta turnover of carital - number of time 10 84 Genera 73 sales 9.029.45 6.0 8.36 4 capital employed net profit hefore tax x 100% % profit margin 35 10 C .37 10.66 (10.04) sales 9.31 Guide to managerial peroperating profit 7/1 C x 100% 25 7.25(2.13) 8.89 Tomance in using asset operating assets 12. available to management added value per c a. added value 32 85 Generating asset-use sales 0.75 0.46 0.05 0.34 0 operating asset if added value not available. Ind. gation of assot utilisation. Incidates turnover of Cost of soles E 1 stocks: high late poords atocks 11 +59 against obsolonce(note 4.38 2 21 1.14 2.32 To La 365 + F denotes days of 4.28 stocks. č. Utilisation of fixed • 32/56 added value, fixed asset assets. Manageri Utilisation of staff & added value labour no. employees 3 Indicates whether capital 56 fixed asset intensive. 3 no. employees dich rate indicates. J !C sal es 20.9 overtrading-low rate 11 working capital 44.3113.70 indicates pror use of 154.32 working capital high rate indicates K <u>57+58+59</u> stock vulnerability to trade working capital fluctuations and cash shortage. trade dehtersak. performance Collection period days L 31 av.duily sales credita allowed to 2.735.0 debtors:indicates capital 77.92 14.7 tied up.Use sales on 92. credit if available. current assets Cur. ratio Cur.liabilities "inancial current liabilities 1 051 12 1.00 0.1 must be paid from current assets. .C7 -ratio 2 + satisfactory. 06 69 liquid asset .. shows whether sufficient current liabilities 0.31 0.17 cash etc. to pay creditors. 0.12 0.45 Rati . 1 + satisfactory. sales vulnerability-- avectment contribution $\frac{33}{34}$ 0 shows extend of commitoperating profit ment to fixed overhead & hence vulnerability to fall in sale 71+72 fixed interest capital "Financial cearing" 8 canital employeed e; Rating ordinary earning (net) Ord. dividend cover-shows gross ordinary dividend how company can maintain dividend noid- should be

100%

met profit after tax

net worth

R

60

		i.	valus(t t	ıa ds	ovar	5 y r	g)	Name of company
Ref	Derivation	Entios		83	() () () () () () () ()	19 85	19 86	19' 87	Explanation of ratios
152	13 10+(11x3/2)	material 8 B.O. parts sales + se	100%	63,82	62.67	24.45	55.91	44.37	
<u> </u>	14 J+(11x3/2)	labour sales + se*x 100%		13.37	62-91	19.97	28.05	27.34	Cost break down
	15)+((x 3/2)	production overheads x sales + se	100%	10.03	10.73	11.72	1C.31	11.63	Note: se'is the sales value equivalent of the increase/decrease
v	16 1C±(11x3/2)	R D Overhead x 100%							In stocks, esti- mated by adding 50% to item II to cover on-cost (Increase+decr-
W	17 10+(11x3/2)	selling, dist. overhead sales + se	x 100%						case)
х	18 10+ (11x3/2)	ocheral admn.overhead soles + se	s ice 3	3.19	3.36	7.28	7.82	80.0	

ANNEXURE-V

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

QUADERIA TEXTILE MILLS

TAKA IN LAKH

	V		1983	19 84	19 85	1086	19 87
	Year ended		and the same of th	1			
Re	f Accounts Item	3	(4)()	000	-000	1	900- 5 ¹ ₁ ε.17
10	Sales		573.77	614.56	526.67		
11	Inventory Increase + or	decreose	(0.62)	(1.96)	(82.91)		P3.5
12	Other Income		19.62	13.43	21.37	1.43	6.28
13	Materials & B.O. larts		424.36	415.81	374.11		257.35
14	Labour		64.61	81.07	95 . 86	127.58	
15	Production Overheads		63.50	68.70	66.45	79.73	75.86
16	R & D Overheads					1	
17	Selling & Distribution C)verheads		1			
18.	General Admn. Overheads		22.70	30.08	160.16	9/1.19	91.98
19	Depreciation		1.79	3.30	2.64	4.35	4.77
20							
21	Interest	pari er adamentalma, etten ert verilleten ill til si		1.92		51.10	3,.74
22	Corporation Tax						
23	Irnference dividend						
24	Ordinary dividend						
25	Increase in retained can reserves.	una egnin	(85.16)	(72.52)	(107.93)	(186.0)) (188.
	DERIVED FIGURES	Derivation		-11.			
30	Total Revenue		193.79	627•99	51:3.01:	609 . 28	554.45
31	Average daily males	10 + 365	1.56	1.68	1.44	1.72	1.50
32	Added volue	10 - 13 + 11	149.53	196.79	69.65		304.36
33	Contribution	10- 11-(13+1/1+	15)21.42	50.94	73.14	22.84	79-71
34	Operating Profit /Loss	10+11-(13 to 1	9) (1.28)	20.06	(27.02)	71.35)	(12.27
35	Net profit before tax and interest.	(34-12(1)	18.3h	33.49	(5.65)	(69.92)	(5.99)
36	Net profit after tax and interest.	35-24-22	10.34	33.49	(5.65)	(69.72)	(5.99
37,	Ordinary enmings	36-23					,
35	Cash fidw	25419	(81.)2)	(6).22)	(105.31)	(65.67	(183.4

Dhaka University Institutional Repository

Financial Year one of Company ending date The daformation 1 0... 10 04 Year 195 19:16 1987 (Notes) 000 15 000 000 000 Accounts Items Ref (1)50 Land & Bld. (at cost) (i) 51 Plant & Machinery(at cost) Vehicles(at cost) Interest in other companies (associated with the trade) liong term investment(not 0.35 8.52 6.03 6.03 0.35 associated with the trade) 55 Depreciation to date 56 TOTAL FIXED TANGIBLE ASSETS 45.26 61.39 93.69 36.49 42.39 (50 to 54-55) 33.22 69.22 34.42 (k) 67.39 14.57 57 Stock (raw materials) 15.26 15.62 11.53 10.74 7.91 (k) 58 Stock (IIF) 17-02 30.56 3.30 6.28 93.28 59 Stock (finished goods) 60 Trade debtors(1000 profinion Stores & sparres 79.56 149.6; 214.01 74.66 131.09 18.27 32.38 14.43 16.25 15.93 for bed debta) Trade debtors 61.43 64.35 152.40 90.21 49.32 61 Cash 179.28 171.91 62 Other easily realisable assets 157.94 163.91 168,18 423.42 511.12 619.64 455.17 \$56.77 63 TOTAL CURRENT ASSETS (57 to 62) 156.98 175.07 64 Tax due 146.69 164.75 138.07 65 Interest due on loan 66 Bunk overdraft 56.14 55.56 55.4 67 Dividends due and marinions Other lineilities 248. 519,89 140.49 381.09 68 Trade creditors 22.15 13.69 0.08 49.10 38.39 69 TOTAL CURRENT LIABILITIES (64 to 68) 523.62 607.18 449.40589.15 734.18 20.00 20.00 70 Issue ordinary shares 20.00 20.00 20.00 12.22 17.22 27.22 63.24 71 Lucia profession divres Govt. Advance Equity 45.95 72 Long term lonn, debentures, etc. 73 Retained eamings and reserves 83.16)(72.52)(107.98) (186.03) (188.24)74 TOTAL LONG TEAM FUNDS (70 to 73) 50.94)(35.30)(60.76) (102.79) (112.29)Outside minority interests in subsidiary companhes. Goodwill, patents, trademorks, etc. 77 Number of ordinary shares issued: DELIVED FIGURES 80 Net worth 7/1+71+7 (50.94)(35.3d)(60.76) (102.79) (112.29)81 Working Capital 61-60 (87.78)(78.04)(114.54)(168.45) (183.76)82 Equity shareholders funds 70+13 (63.16)(52.52)(60.76) (166.03) (168.24)83 Total asset(tangible) 50+63 593.20 553.51 664.90 516.56 517.11 84 Capital employed (50.94)(35.3d)(60.76) (101.03) 87-09 115.09) 392.85 553.16 656.38 Operating assets 83-(53+54) 510.53 511.08 224.78 270.37 255.89 261.94 265.72 Licuid Assets 60+61+62

ANNEXURE-V

Hime of the company

	٨	35 85	not profit before tox	Neg	ativ	e W	rki	ng Ce	pital tum on capital
delle la	'n	10 84	sales capital employed		-0	0-			angula turnover of capital - number of time
,	С	<u>35</u>	net profit before the 100%	6.39	5.4	3.02	11.1	8	% profit margin
	.)	3/4 8:5	operating profit x 100%	0.33	3.63	_	13.77	5.40)	Guide to managerial per- formance in using asset
	É	32 85	ndded value operating asset	85.0	0.35	0.11	54.0	09.0	available to management added value per f of operating asset-use sales if added value not avai- lable. Indication of asset utilisation.
puriorial ve		39 57+58+59	Cost of soles stocks	4.18	2.4	1.17	3.13	2.96	Indicates turnover of stocks: high rate yourds against obsolence(note 365 + F denotes days of stocks.
1	G	32/56	added value/fixed asset	-	-	-	-	-	Utilisation of fixed assets.
FANAGETTI		32	adred value no. employees	-	-	-	-	-	Utilisation of staff & labour
	ī	<u>56</u> 3	fixed nesot no. remployees	-	-	-	-	-	Indicates whether capital intensive.
	J	₹ <u>0</u>	sales working capital	lii					dich rate indicates overtrading-low rate indicates pror use of working capital
0	К	57+58+59 81	stock working capital						high rate indicates vulnerability to trade fluctuations and cash shortage.
perfo mance	L	3!	trade dehtorsam. av.daily sales	9.25	29.6	11.06	10,62	21.58	Collection period days credita allowed to debtors: indicates capital tied up. Use sales on credit if available.
in and a	М	63	current assets current liabilities	0.80	0.87	98.0	0.73	69*0	Cur. ratio Cur.limbilitie must be paid from current assetsratio 2 + satisfactory.
14		69	liquid asset current liabilities	0.50	94.0	0.32	0,42	0.43	shows whether sufficient cash etc. to pay creditor Ratio 1 + satisfactory. sales vulnerability-
finestment.	-	33 34	contribution operating profit fixed interest capital						shows extend of commit- ment to fixed overhead & honce vulnerability to fall in scle
50	-	71+72	capital employeed						"Financial goaring"
Rating		37 24	gross ordinary dividend						Ord.dividend cover-shows how company can maintain dividend haid-should be about 2
	R	50	net worth 100%	5					Shows profitability shareholders capital canings power from share-

Annexage -

lef	Derivation	Ratios value	10 85	19 84	19 85	19 86		Explanation of ratios
s	13 10+(11x3/2)	meterial 8 B.O. parts x 100%	7. T.	67.58	71.10	51.03	96.94	
Т	10+(11 x 3/2)	lebour x 100%	11.16	11.07	18.22	20.25	25.83	Cost break down
υ	15 10+(1 x3/2)	production overheads x 100%	11.16	24.26	12.63	12.71	15,14	Note: se is the sales value equivalent of thincroase/decrease
v	16 1C+(11x3/2)	R D Overhead & 100%	8	•		•	•	in stocks,esti- mated by adding 50% to item II to cover on-cos (increase+decr-
W	17 10±(11×3/2)	selling, dist. overhead sales + se*		ı	•	•		ease)
x	10+ (11x3/2)	general admn.overhead x	3.%	5005	19.01	14.99	16.78	

ANNEXURE VI

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

SATRANG TEXTILE

Taka in lakh

		rofit and Lo				1	
	Year ended		19 83	1984	19 85	1986	19 87
Rei	f Accounts Items		000	000	000	000	000
10	Sales		475.28	530.96	523.56	588.25	512.79
11	Inventory Increase + or dec	ะ เรอก สด -	(2.77)	3.22	(73.04)	(80.74	7.54
12	Other Income		4.05	13.79	9.74	1.71	2.89
13	Materials & B.O. larts		304.01	309.60	325.86	508.72	260.33
14	Labour	+ .	58.22	71.68	83.87	111.29	125.19
15	Production Overheads	.52	95.56	57.50	57.88	57-37	68.83
16	R F D Overheads	. 1					
17	Selling f. Distribution Ove	rhends,	roir.		10 000 00 000		
18.	General Admn. Overheads		22.98° to	87.54	95.96	104.75	75.26
19	Depreciation		4.26	3.43	3.33	4.46	8.45
20:	er 13. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15						
21	Interest	5,00	46.42			57.22	20.68
22	Corporation Tax	TALL					
23	Traference dividend	at the order	This was			10. 100	
24	Ordinary dividend						
25	Increase in retained caming	and) /	(332.93)	(331.94)	(320.08)	(392.6) (411.
+	DERIVED FIGURES	, Derivation		. 75%	9 t. 1322.	_Y	2
30	Total Revenue) + 12	479•33	544.75	528.30	589.94	515.68
31	Average daily males	+ 365	1.30	1.45	1.43	1.61	1.40
32	Added value 10) - 13 - 11	168.50	224.58	124.66	198.77	259.80
33	Contribution 10) * 11-(13+14+	15) 10.16	88.96	128.99	35.22	64.48
34	Operating Profit 10	+11-(13 to 1	9) (12.82)	1.42	33.03	(69.53)	64.48
35	Net profit before tax	+12.	(8.77)	15.21	37.71	(67.82)	(7.89)
36	Net profit efter tax	6-2 1-2 2	(8.77)	15.21	37.77	(67.82)	(7.89)
37		5-23					`
	Cash flow	+19	(528.67)	328,51	(316.75)	(388.18) (403.1
3,	GIST ILOW	4.4	1 720001 /	Jeury.			

Financial Year ending date

Name of Company

		Year	198	1984	19 85	1986	1987
	f Accounts Items	(Notes)	000	000	000	òoo	000
-	Land & Bld. (at cost)	(i)					
2.7		(i)				 -	
52	Plant & Machinery(at cout)	(1/			 		-
_	Vehicles(at cost)			-			 -
53	Interest in other companies (associated with the trade)						
54	Long term investment (not associated with the trade)	1	6.27	5.2/	6.27	6.27	6.27
55	Deprociation to date	f.					
56			58.8	6 54.59	53.25	58.71	67.97
57	Stock(raw materials)	(k)	26.5	7 78.3	52.75	57.05	47.07
58	Stock (MF)	(k)	13.9	7 4.80	3.09	8.20	8-24 6.8
59	Stock(finished goods)			6.89		0.90	8.24
	Trade Jobie - (its profision	Stores & spa				65.46	88.59
	1	debtors	10.8	5 20.5	26.72	29.59	43.79
61	Cash	• •	82.8	9 42.2	1 102.97	99.18	17.49
62	Other easily realisable asse	ts	47.0	2 48.9	1 49.79	75.07	52.94
6	TOTAL CURIENT ASSETS (57 to	o 62)	243.	47 247	13 365.6	355.45	265.01
61.	Tax duo		74.9	7 46.8	100.46	100.63	100.41
65	Interest due on loan			-			-
66	Bank overdraft		0,602	0.02	0.02	-	-
67	Dividends due amb movi - 1000	other liabili	ties 377	.21331	16 374.9	381.14	263.81
	Trade creditors	and the state of t	24.24			21.44	20.47
69	TOTAL CUITIENT LIABILITIES (6)	4 to 68)	476.37	412.2	477.27	483.21	384.69
70	Issue ordinary shares		38.76	38.76	38.76	38.76	38.76
71	The second secon		113.45	176.2	216.28	246.28	302.59
72	Long term loan, debestures, etc	C.		 	l		
	Retained eamings and reserves		(313.98)	(329.9	9)(307.13	(371.21	(411.61)
74	TOTAL LONG TERM FUNDS (7 to	73) - 「			2)(52.09)	L	(48.83)
75	Outside mimority interests in subsidiary companies.			1			
76	Goodwill, patents, tradewrks,	etc.		-	 		
	Number of ordinary shares ilss						
	DELIVED FIGURES	Derivati	lon	-			
80	The state of the s	70+71+73	(167.7)	7)(114.	(2)(52.09	1486-17)	(48.83)
81		63-69				1)(147.76	Ĺ
82	Equity shareholders funds	70+73	min term		23)(52.09		(70.26)
	Total agget(tangible)	56+63	- 1			394.16	332.98
	Capital employed	83-69			15)(52.09		(51.71)
	Operating assets	83-(53+54)		 	412.64	387.89	326.71
	r varing GDDUVD	マラートフラキブブノ	L70.00	7-7-01	1	7-1/	

IM. J. ANT: Check that 7/1=56-01-75

			vetue(* ti	rends	OVC	r 5	yrs		Nme of the company
1	wi	Derivatio	n Antios	83	84	183	8 6	187	Explanation of ratios
,	Α	35 85	not profit before the x 100%	6				1	% return on capital
oenera.	В	10 84	sales chpital employed	^			0		annula tumnover of capital - number of time
	.с	<u>35</u> 10	net profit before tax 100 sales	(1.24	2.86	7.21	11.5	1.53	% profit margin
	D	3/ ₁ 85	operating profit x 100%	4.33)	(84.0	8.8	17.52	30	Guide to managerial per- formance in using asset quallable to management
0	E	3 <u>2</u> 85	added value operating assot	1.75 (1.32 (3.31	1.95	1.25	added value per g of operating asset-use sale if added value not available. Indication of asseutilisation.
periorange	F	39 57+5! ⁹ +59	Cost of sales stocks	451.57	325.00	212.13	46.814	296.89	Indicates turnover of stocks: high rate and angulast obsolunce(note 365 + F dunotes days of stocks.
ı	r	32/56	added value/fixed asset						Utilisation of fixed assets.
ranageri : I	-	<u>32</u> 3	added value no. employees						Utilisation of staff & labour
	I	<u>56</u> 3	fixed asset no. employees						Indicates whether capita intensive.
	3	1C 81	sales working capital						digh rate indicates: overtrading-low rate indicates paor use of working capital
•	Y.	57+58+59 81	stock working capital						high rate indicates vulnerability to trade fluctuations and cash shortage.
rerformance	L	3!	av.d.ily sales	45.8	14.17	18.68	18.37	31.28	Collection period days credita allowed to debtors:indicates canital tied up.Use sales on credit if available.
Vinancial	М	69	current assets current limbilities	0.78	98.0	22.0	69.0	69.0	Cur. ratio Cur.liabilitie must be paid from current assetsratio 2 + satisfactory.
	1	86 60	liquid asset current limbilities Contribution	0.30	0.27	0.38	24.0	0.29	shows whether sufficient cash etc. to pay creditor that is 1 + satisfactory. sales vulnerability-
Type thent		71+72	operating profit						shows extend of commit- ment to fixed overhead & hence vulnarability to fall in sale
25 25		7 <u>1+72</u> \ 8 <i>l</i> :	capital employeed						"Financial gearing"
Rating		37 24	ordinary earning(net) gross ordinary dividend						Ord.dividend cover-shows how company can maintain dividend paid-should be about 2
	R	80 ·	net worth 100	, a					Shows profitability shareholders capital comings power from share-

				ation((f t	mands	over	5 y r	s)	Name of company
	Ref	Derivation	Ratios		10 83	10 84	19 85	19 86	19 ⁻ 87	Explanation of ratios
	s	13 17+(11x3/2)	material 8 B.O. parts x 1 sales + se	00%	8.49	75.73	62.14	52.38	\$0.78	*,
	Ŧ	14 10±(11x3/2)	labour sales + se x 100%		12.21	14 38	16.03	18.87	24.4	Cost break down
Patrick	υ	15 10+ü1 x3/2)	production overheads x 10 sales + se	00%	20.63	11.64	11.09	9.75	13.67	Note: se'is the sales value equivalent of the increase/decrease
4	v	16 10+(11x3/2)	a D Overhead x 100%				-			in stocks,esti- mated by adding 50% to item II to cover on-cost (increase+decr-
12.6	W	17 10+(11x3/2)	selling, dist. overhead x	100%						ея se)
2	x	18 10+ (11x3/2)	goneral admin.overhead x coles + so	100%	4.83	17.57	18.34	17.68	14.64	111

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

CHITTAGONG JUTE MFG. COMPANY LIMITED

	Year ended		1983	1984	1985	1986	1987
Re:	f Accounts Items		000	000	000	000	000
10	Sales	·	346573	303505	458545	462081	443678
11	Inventory Increase + or	decrease.	33300	37594	61407	57888	60462
12	Other Income		656	1440	2208	1314	1302
13	Materials & B.O. larts		133538	157420	397499	15632	179129
14	Labour		102464	108806	130155	16742	193183
15	I roduction Overheads		69168	76656	78823	11985	112134
16	R & D Overheads			-	-	-	-
17	Selling & Distribution	overheads	3432	2467	2530	3310	6221
16.	General Admn. Overheads		8783	2031	1425 -	15891	8041
19	Depreciation		3192	3479	3423	3724	4016
20			-	-	-	375 9 5	32457
21	Interest		13457	16649	52039	-	-
22	Corporation Tax	- 14	-	-	-	•	•
23	Freference dividend		-	-	-	-	
24	Ordinary dividend		-	-		-	-
25	Increase in retained can reserves.	nings and	(15477)	(50186)	(178698)	(25606))(2850
	DERIVED FIGURES	Derivation	.1				
30	Total Revenue	10 + 12	347229	304743	460733	463395	448980
31	Average daily sales	10 ÷ 365	949	830	1256	1269	1215
32.	Added value	10 - 13 + 11	246335	183477	122453	363647	325011
33	Contribution	10\$ 11-(13+14	+1 ⁵ 25601	24145)	(123390)	(70873)	(15387
34	Operating I rofit	10+11-(13 to	19)22168	(26608)	(125920)	(74185)	(21608
35	Net profit before tax and interest.	34+12	35725	(25167)	(123712)	(72870	(20306)
36	Net profit after tax and interest.	35-21-22	22268	(41816)	(155751)	(77362	(32427)
37	Owdinary camings	36-23	22268	(41816)	(155751)		
("	Cash flow	25+19	(12285)	(46437)	(175275)	(25233)(28446

Annexture VIII

	Financial Year ending date			- mau	o_ Con	pany CJM	Taka in	thousand
_		dalan	or i	Hagren t	n to mi	tion		
		Your		83	10 84	19 85	19 86	19 8
Ref	Accounts Items	(Notes,		17	ဝ၁	000	000	000
50	Lanc 2 Bid. (at cost)	(_i)		-				
51	Plant & Machinery(at cost)	(i)			ETT. TOWN			
2	Vehicles(at cost)							
53	Interest in other companies (associated with the trade)							
	Long term investment(not associated with the trade)			686	686	686	754	864
55	Depreciation to date			70949	74429	77848	81475	84434
56	TOTAL FIXEL TANGIBLE ASSE (50 to 54-55)			19765	21421	21524	20738	2/000
57	Stock(raw materials)	(k)			5 4 4 L	2001014	La La	4 14 144
50	Stock(UIF)	(k)		İ				
59	Stec':(finished goods)			33 3 32	156269	237 9 48	168804	173040
(i)	Train-debters(Less-preficion	stores & spe	res	-	-	37419	-	-
_	for had debts Bad debts				2 84 08 57 80	37416 1316	24721	42807 10585
	Cosh							-
62	Other easily realisable asset	.9		15831		21858	27417	26777
63	TOTAL CURRENT ASSETS (57 to	62)		107624	221685	325984	223342	253211
34	Tax due			4124	3896	34 6 1	10206	10206
65	Interest due on loan			-	-	-	-	-
	Bank overdraft			-		310946	19993	382896
67	Dividends due emperant como	ther liabilit	tles	10749	41471	733328	84581	97723
68	Trade creditors			4593	7366	42452	17299	14369
69	TOTAL CURRENT LIABILITIES (64	to 68)		117939	19865	2 430372	42/543	50215
70	Issue ordinary shares	2 2 2 2 2		25000	25000	25000	25000	25000
	Lucius Defe	rred liabili	t 10 6			1343	-	-
72	Long term loan debettures, etc			13099	13460	12460	13460	2 6611
73	Retained eamings and reserves			(2160)	(5018)(178698	(242743)	(27516
7	COLL LONG TEAM FUNDS (7 to	73)	37	282	10385	(139895)	(204283)	(223550)
13	Outside manority interest in sabsidiary companies.			~	-	-	-	-
75	Goodbill.patents, tradesrks, c	tc.	250	0000	2500000	2500000	2500000	2500000
77	Number of ordinary gives ism	ied			12			
	DE IVED FIGURE	Derivati	ion					
'n	Ret with	70+71+73	á	4283	(23843	(139895)	(217743)	(250161)
3.	Working Capital	61-69	(-	0315)	23033	(106388)	(204201)	(248946)
	Equity shareholders funds	70+73	22	840 (25186)	(114895)	(179283)	250161)
22	Total asset(tang blo)	56+63	12',	439 2	+3106	345508	44080	280211
24	Carital employed	83-69	959	00 4	+454 (84864) (*	83463)	(221946)
85	Operating assets	83-(53+54)	126	753 2	42 5 20	344822	43346	279347
86	Liquid assets	60+61+62	490	158 4	1510	50590	54542	80169

0

Nme of the company CJMC valuaf trend over 5 yrs Emplonation of ratios 1083 184 85 87 Ratios Derivation .61 Negative 35 85 capital employed eturn on capital not profit before tax 100% 1(26.98)22.2 capital employed General annula turnover of 10 sales 84 carital - number of time (9) 740 capital empl yed (7.30) (15. net profit before tax 1000 % profit margin 35 10 C sales 10.970 35.870° 30.480 17.48 34 operating profit Guide to managerial per-D formance in using asset operating assets available to management add d value per c of added value 32 85 E operating asset-use sales operating haset if added value not avai-1.94 0.75 lable. Ind. wation of asset utilisation. performance Incicates turnover of Cost of sales 39 57+5: +59 stockst high race guards stocks 2.55 5.49 against obsolence(note 5.8 53 2 365 + F denotes days of stocks. 7.53 28 Utilisation of fixed 4 32/56 added value/fixed asset C Yana geriu 8 assets. Utilisation of staff & added value 3 no. employees Indicates whether capital 56 fixed asset intensive. 3 no, employees High rate indicates: sales 13 overtrading-low rate working capital liega ti v indicates pror use of working capital high rate indicates 57+58+59 stock Negative vulnerability to trade working capital fluctuations and cash shortage. 60 trade debtersom. Collection period days 3: avadaily sales credita allowed to debtors:indicates capital 35 5 2 tied up. Use sales on credit if available. 63 69 M current assets Cur. ratio Cur.liabilities Financis1 current liabilities .75 152 .9 must be paid from current ascets. -ratio 2 + motisfactory. <u>06</u> 14 liquid asset shows whether sufficient current liabilities cash etc. to pay creditors. 2 Ratin 1 + satisfactory. sales vulnerability--Types tmont contribution 33 0 shows extend of commitoperating profit Negative balanceent to fixed overhead & hence vulnerability to fall in sale 71+72 fixed interest capital 1.41 "Financial gearing" Negative 84: capital employeed apital employed o Rating ordinary warning (net) Ord.dividend cover-shows gross ordinary dividend how company can maintain . dividend haid- should be 36 FO nat profit after tax profitshows profitability Neghtive net worth shareholders capital & networth earlings power from shareholders paint of view.

					wg.	of Oth	5 yr	٤١)	Name of compa ny
Re f	Derivation	Ratios		he 83	1C 84	85	19 86	19 ⁻ 87	Explanation of ratios
s	13 17+(11x3/2)	material > B.O.	parts x 100	_% 38.53	51.90	86.6	33.4	40.3	7
'P	14 1-(1x3/2)	labour x 100	%	29.56	35.87		4	3.54	Cost break down
	15 +0 x3/2)	production overh	ends x 100%	(1 9. 95	25.27	17.1	2.5	.27	Note: se is the sales value equivalent of t increase/decrea
v	16 10±(11x3/2)	R D Overhead sales + se	G.	••	•	-	-	_	in stocks,esti- mated by adding 50% to item II to cover on-cos (increase+decr-
W	17 10+(11x3/2)	sales + se.*	erhead x 10	0.99	0.81	0.55	0.72	1.40	ense)
x ·	18 10+ (11x3/2)	general admm.ove	rhead x	# 3.45	0.66	0.31	4.24	2.72	

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

VICTORY JUTE PRODUCTS LTD.

Taka in thousand

	V		10 0=	19 84	19 85	4004	19 87
	Year ended		19 83	19 84		1900	
Re	f Accounts Item	8	,000	000	000	000	000
10	Sales		98373	86054	140292	135710	123039
11	Inventory Increase + or	decrease -	4565	14665	43381	16685	20442
12.	'Other Income)c,	191	27	755	18	122
13	Materials & B.O. larts	11 P 11 P	36052	42456	108911	49706	44701
1/+	Labour		24816	26 92 5	40374	48225	56881
15		0.1	26819	27923	17797	22133	19648
16	R ' D Overhends	60 .					-
17	Selling & Distribution	Overheads	680	506	866	-970 -	1187
13.	General Admn. Overheads	17 185	2978	5156	3872	5287	3754
19	Pepreciation	10 A	1348	1224	1264	1440	1298
20							
21	Interest	- I Edward II	6127	7772	12868	14056	13361
22	Corporation Tax		ا ا				
23	Proference dividend	1 (2 m)		***			
24	Ordinary dividend	parents.	Ì				
35	Increase in retained car reserves.	nings and	(25728)	(76184)	(72578)	93396)	(98 211)
	DERIVED FIGURES	Derivation					
30	Total Revenue	16 ¥ 112	93564	86081	141047	13572	8 12316
31	Average daily sales	10 + 365	255	235	384	572	357
32	Added value	1 0 - 13 - 11	61886	58263	35719	1026	9 73455
33	Contribution	40± 11-(13+1/4)	-:5) 10251	3590	(16063)	(26541	(12848
34	Operating Profit	10+11-(13 to	57 464	(9843)	(33670)	(27512	(14036
35	Net profit before tax	34+12	640	(985)	(32914)	(21290	(5223)
36	Net profit after tax	7 (*35-5) 35-31-22	640	(985)	(32914)	(21290	(5223)
37	Ordinary earlings	36-23					
3°	Cash flow	25+19	(24380)	(68412)	(71314)	91956)	
		the first terms of the last terms of		82639	210468	103597	100788

" "COT ISTY Financial Year ending date Short Information dala ic. 19 85 19 86 Year 19 83 19 84 19 87 000 " 000 000 000 Ref Accounts Items (Notes) CKO 50 Land & Bld. (ht cost) (1) 51 Plant & Hachinery(at cost) (i) Vehicles(at cost) 53 Interest in other companies (associated with the trade) Long term investment (not 7 7 7 7 associated with the trade) 20090 10591 24047 33508 55 Depreciation to date TOTAL FIXED TANGIBLE ASSETS 56 12176 11446 10644 10496 33508 (50 to 54-55) 57 Stock(raw materials) (k) 8111 15337 19744 10895 1035 9294 13840 58 Stock (JII) (IC)43400 Stock (finished goots) 38647 16685 20442 59 9924 14501 15883 60 Truck abbandance are similar tores & spares 8384 for had debte. Trade debters 6885 5925 5297 5716 61 Cash 1705 1180 2525 131 6860 62 Other easily realisable assets :12052 | 10075 | 11213 13817 12204 59153 70763 98806 86052 92/16 63 POTAL CURRENT ASSETS (57 to 62) 64 Tax due 65 Interest due on loan 66 Bank overdraft 32267 42692 85381 104971 132376 Dividendo the and manifest liabilities 40516 18892 27322 36057 43201 68 Trade creditors 20252 46593 8568 1667 10350 69 TOTAL CURIONY LIABILITIES (64 to 68) 74953 81836 159299 170821 189019 70 Issue ordinary shares 12014 12013 12014 12014 12014 Isamon preference shres 1853 1853 1853 1853 72 Long term loan. deportures, etc. 3480 3606 3606 3603 3603 73 Retained eamings and reserves 18686)(32569)(65536) (89957) (93396) (3197) (15097) (48063) 74 (72984)75925) TOTAL LONG THAN FUNDS (74 to 73) 15 Outside misority interes in subsidiary companies. 76 Goodwill, patents, traductks, etc. 77 Number of ordinary stares issued DECIVED FIGURE 1047 80 Net worth (6672)(18703)(51669)(58617) (1/9529) B1 Working Capital 51-60 (15300)(11294)(60493) (84769) (28105) 82 Equity shareholders funds (81382) (6672) (20556)(53522) 70+73 77943) P3 Total asset(tancible) 71329 81988 109450 50+63 10099 116763 84 Carital employed (5624) 152 (49849) 60722) (54058)83-69 85 Operating assets 71 322 1981 83-(53+5/:) 109443 110092 116756

INDOK ANT Check that 74=56+81-75

60+61+62

20502 13638

26468

30627

17085

86 Liquid assets

Dhaka University Institutional Repository ANNEXURE-VIII

ille of the company

1,

ie f	Derivatio	n Ratios		170	-	-		7 Explemation of ratios
٨	35 85	not profit before tax x 100%						% return on capital
D.	10 84	soles capital employed			^	,		Annula tumnover of carital - number of time
С	<u>35</u> 10	net profit before tax 100%			23.46	15.68	4.24	% profit margin
)	3/4 15	operating profit x 100%			(30.76)	.)(66*	2.02)	Gnide to managerial per- formance in using asset available to management
-	3 <u>2</u> 8 <u>5</u>	added value operating asset-			.33 (3	£) 56.	-) £9*	added value per f of operating asset-use sale if added value not avairable. Indigation of asset
F	39 57+58+59	Cost of sales stocks			2.91	1.85	4.	utilisation. Indicates turnover of stocks: high rate guards against obsolence(note 365 + F denotes days of stocks.
C	32/56	added Value/fixed asset			3.37	4.27	2.19	Utilisation of fixed
H	32	ndded value no. employees		ĺ				Utilisation of staff & labour
I	<u>56</u> 3	fixed asset no. employees		1				Indicates thether capital intensive.
J	10 81	sales working capital						digh rate indicates: overtrading-low rate indicates pror use of working capital
15	57+58+59 81	stock working capital trade debtersax.						high rate indicates vulnorability to trade fluctuations and cash shortage.
L	3:	av.daily sales	23	2:	22	18	16	Collection period days credita allowed to debtors:indicates capital tied up.Use sales on credit if available.
Y.	69	current hasets current liabilities		8.	.62	.50	ま・	Cur. ratio Cur.limbilitie must be paid from current assetsratio 2 + satisfactory.
	<u>66</u>	liquid asset current liabilities		45.	.17	.18	۲.	shows whether sufficient cash etc. to pay creditor Ratio 1 + satisfactory.
0	34	contribution operating profit						shows extend of commit- ment to fixed overhead & hence vulnerability to
F	71+72	fixed interest capital capital employeed						fall in solo "Financial goaring"
	36	gross ordinary dividend						Ord.dividend cover-shows how company can maintain dividend said- should be about 2
R	Ro	net worth x 100%	Ó					Shows profitability shareholders capital eamings power from share- holders point of view,

		value	(ε ₊	rands	over	5 y r	·s)	Name of company
Ross	20 -lvation	Ration	10 83	1º 84	19 85	19 86	19 87	Explanation of ratios
s	13 12+(11x3/2)	material * B.O. parts x 100% sales.+ so	38.6	49.33	.0 63	36.62	36.34	
T	$\frac{14}{10+(11x)/2}$	labour ac 1: 100%	28.57	31.28	28.72	35.53	16.23	Cost break down
υ	15 10+(1 x3/2)	production overheads x 100%	28.72	32.14	12.68	16.30	15.97	Note: se is the sales value equivalent of the increase/decrease
v	16 IC+(11x3/2)	R? D Overhead x 100%						in stocks,esti- mated by adding 50% to item II to cover on-cost (increase+decr-
W	17 10+(11x 3/2)	sales. + se sales. + se sales.	0.72	0.58	.62	12.	8	case)
х	10+ (11x3/2)	scles + se*	3.18	5.99	3.66	4.95	4.10	

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

NOAPARA JUTE MILLS LTD

	I rofit and	Loss Account	t Informat	ion	_	
	Year ended	1983	1984	1985	198	1987
Re	f Accounts Items	000	000	000	000	000
10	Sales	75512	89548	134475	96537	121899
11	Inventory Increase + or decrease-	1985	9404	2209	3906	(11550
12	Other Income	8	11	75	258	160
1.3	Materials & B.O. larts	265565	44241	85193	44771	36514
14	Labour	16857	19215	23587	32454	24638
15	Production Overheads	28968	24884	34070	36468	40218
16	R / D Overhends					
17	Sciling Distribution Overhands		1127	1749	1772	943
400	General Admn. Overheads	1352	2/23	3295	3452	3916
59		3828	3820	4080	1828	4075
20	1 26-20 11 1, July 6 1, 10-20, 1					
21	Interest					
22	Corporation Tax					
-	Iraforance dividend Con in Occasion	+				
24	Ordinary dividend out					
25	Incredied in rotained comings and reservos.	(99913)	(38209)	(55173)	(65042	(5897
	DERIVED FIGURES Derivation	n	1			
30	Total Revenue 10 + 12	75 520	89359	134550	96795	122059
31	Waverngt deily sales read 10 1365	206	244	368	264	333
32	Added value 10 - 13 ⁺ 11	50932	54511	51491	55672	73855
33	Contribution 10 ⁺ 11-(13+1)	1+15)5107	10412	(15290)	9184)	(4933
34	Operating Profit Des 10411-(13 to	¹⁹⁾ (3573)	(2162)	(17039)	(19128)	3161
35	Net profit before tax	(3565)	(2151)	(16963)	(9869)	3321
36	Net profit after tax 1 and 1 a	(3565)	(2151)	(16963)	(9869)	3321
36	Oudinary enmings 36-23			!		
3,7,1	Cash Mow: 37 11 25+19		(34389)		(63214)	(54039
اندود	Important: Choice first	70405	78936	149766	105722	11696

****	ncial Year ng dote			7:0	ny		
		Pale	F 15- 1-4	inferra	ntion		
		Year	85	10 84	1985	1986	1 19 87
Ref Acco	unts Items	(Notes)		(GCO)	000	000	000
50 Land Bld. (ht	cost)	(1)					
51 Plant & Machin		(1)	-	-			-
52 Vehicles(at co		And the second				 	
53 Interest in ot (associated wi	her companies		1				
Dong term inve							
5 Depreciation t	o date						
207AL FIXE	D PANGLBLE ASS (50 to 54-55						
57 Stock (raw mate	rials)	(k)	17/66		U 18 <i>5</i> 65	14877	6847
58 Stock(III)		(k)	220))	20,	10,00	140//	0347
59 Stock (finished	oords)		31063	44643	60827	61669	59533
60 Trade debtors(7981	2922	2051	7958	9529
61 Cash	many is assessed. In sub-stage, and a constable series		352	813	2325	3922	6176
62 Other casily r	catisable ass.	CA .	6567	24023	30064	27048	25355
63 TOTAL CURREN	IT ASSUTS (57 to	n 62)	45943	78042	95267	100597	€0593
64 Tax duo							
65 Interest due o	n lo-m						
66 Bont verdinft		And a best of health and a second	13995	38314	38656	65384	41055
67 Dividends due	and provi tons			16137		24036	28845
68 frace creditor	'B		149		1407	1730	153
69 TOTAL CURBUSHT	LIABILITES (6)	1 to (4)	28063	54451	64660	91150	70651
70 Issue ordinary			44158	44158	44158	44158	44398
7t Ismus prefere				- g	-		
70 Long term Iban	the second of the second of the second	C.	35567	38082	39848	45067	33232
73 Retained camin	gs rad reserves	3	39915)(3820	9)(55173	(64909)	(58841)
A TOTAL LONG T	SIM FUNDS (70 co	73)		44031		24316	18788
Outside manorit	ty interes in						
76 Good 111, patent	ts, tred ricks.	etc.					
77 Number of ordin	ากษา 🖒 เรษต์ รู้ คร	severitories into a pr	425000	42500	0 425000	425000	425000
DETIVED F	GULE!	· la ra		need out to			
Net with		70,774	4245	5949	(11015).	20751)	(14443)
1 Working Capital	Company of the Person of the P	63.12		255.91		9447	9942
32 Equity sharehol	ders funds	70 %	4245	5949	(11015)	(20751)	(14443)
Total asset(the	ig:01e)	50+60		- 1	113632	115474	89440
a Capital employe	1	83-69	39935	44 15 1	48972	24324	18789
Operating asset	S	83-(53+51)			113632	11544	85440
6 Liquid assets		60+61+62	14880	27758	34440	38928	41060

INFOR .NT Check that 74=56 811.75

ANNEXURE-IX

1	def	Derivatio	n Hatios	83	84	819	1 9	819	Explanation of ratios
	٨	35 85	not profit before the conital employed	_	(4.87)	(五.6%	(40.578	18.67)8	% return on capital
	'n	10 84	gales capital empl-yed	8			3.96	6.4.8	Annula tomnover of carital - number of time
	С	<u>35</u> 10	net profit before tax x 100%	14.72	2.08	2.74	3.96	84.9	% profit margin
	D	31· 1:5	operating assets x 100%	(5.25)	(2.19	14.99	8.77)	5.53	Guide to managerial per- formance in using asset available to management
	E	32 85	added value operating asset	+7.	.55	54.	84.	-82	added value per state and added value per state and asset-use sale if added value not available. Indication of assetutilisation.
	F	39 57+5 ⁸ +59	Cost of soles stocks	2,33	1.59	2.46	1.71	2.95	Indicates turnover of stocks; high rate guards against obsolonce(note 365 + F denotes days of stocks.
	r	32/56	added value/fixed asset	2.3	2.65	2.80	3.74	8.¥	Utilisation of fixed nasets.
	12	32	added value no. employees		i		1		Utilisation of staff & labour
	1	<u>56</u> 3	fixed asset . no. employees		!			4	Indicates whether capital intensive.
	J	10 81	soles working capital	4.22	3.78	4.35	10.21	12.26	With rate indicatest evertrading-low rate indicates prorruse of working capital
	К	57+58+59 B1	stock werking capital	1.73	2,10	1.98	6.52	3.96	high rate indicates vulnerability to trade fluctuations and cash shortage.
Let to mine	L	3:	trade debtorsax. av.daily sales	裻	12	5	24	82	Collection period days credita allowed to debtors:indicates capital tiod up.Use sales on credit if oveilable.
INCOUNTY.	М	66-	current assets current liabilities	1.63	1.43	1.47	1.10	1.14	Cur. ratio Cur.liabilities must be paid from current assetsratio 2 + satisfactory.
		<u>86</u> 69	liquid asset current liabilities	.53	8.	-53	0.42	0.58	shows whether sufficient cash etc. to pay creditor Ratio 1 + satisfactory. sales vulnerability-
-ryestmon-	0	334	contribution operating profit						shows extend of commit- ment to fixed overhead & hence vulnerability to fall in sale
1000	F	71+72	fixed interest capital capital employeed	88	-11	23	0.45	0.26	"Financial goaring"
Rating a		37 24	gmss ordinary dividend net prefit after tax 1000						Ord.dividend cover-shows how company con maintain dividend wid-should be about 2
	R	7.0	net worth 100%						Shows profitability shareholders capital camings power from share-holders point of view.

		value(({ t	rands.	over	5 y r	E1)	Name of company
Rei	Derivation	Ratijos	83	10 84	19 85	19 86	19 87	Explanation of ratios
S	13 17±(11x3/2)	material 8 B.O. parts x 100% sales + se	55-17	49.51	63.35	46.37	29.95	
Ţ	$\frac{1^{l_1}}{10+(11x3/2)}$	labour sales + se*x 100%	22,32	21.50	7 7	33.61	20.21	Cost break down
IJ	15 10+31 x3/2)	production overheads x 100% sales + se*	38.36	27.85	27.37	37.77	32.99	Note: se'is the sales value equivalent of the increase/decreas
v	16 10 _± (i1x3/2)	R D Overhead x 100%						in stocks,esti- mated by adding 50% to item II to cover on-cost (increase+decr-
W	17 10+(11x3/2)	sales + se*		82	1.30	1.83	0.77	ease)
х	18 10+ (11x3/2)	ceneral admn.overhead x 100%	82	3.04	2.45	3.57	3.21	

FINANCIAL ANALYSIS CONSULTANCY TOU NIQUOS - CALCULATION SHEET.

ASHRAF TEXTILE MILLS LTD.

Taka in thousand

		Frofit and L	JAS ACCIO	111111111111111111111111111111111111111			
	Year undud		19 83	19 84	19 85	1986	19 87
Rei	f Accounts Items	3	000	000	000	000	000
10	Sales			104703	150296	220219	238018
11	Inventory Increase + or	decrease-		1146	1521	1654	2098
12	Other Income			2082	1305	944	1047
13	Materials & B.O. larts			62371	71947	66085	62017
14	Labour			15700	13205	27652	31058
15	iroduction Overheads	ar.		12806	13855	16071	7678
16	R f D Overheads	C. P.	 		·····	1	
17	Selling E. Distribution	Qverhonda	:" ()	- 57		. 81	-
19	General Admn. Overheads				6665	7271	7678
19	Depreciation			402	417	511	942
20	4-7-	= 4		102			
21	Interest		<u> </u>	38/	52/	491	215
22	Corporation Tak'	1	100			4442	2/02
23	1 reference dividend			5976	8751	7772	
24	Ordinary dividend	4		3600	5400	7200	8100
25	Increase in retained on	nings and			-		
	reserves.	7411(13 11110		2	5353	17188	25479
	DERIVED FIGURES	Durivation					
50	Total Revenue	10 + 12		106785	151601	22116	3 2 <i>5</i> 812
31	average daily sales	10 ÷ 365		349	500	734	1933
32.	added value	10 - 13 - 11		43478	79870	15568	8 17610
33	Contribution	10- 11-(13+14-	+15)	14972	31927	44853	54810
34	Operating Profit	10+11-(13 to	19)	9871	22137	25165	34913
35	Net profit before tax and interest.	3/1+12		11955	25442	<i>2</i> 6109	3596
36	Net profit after tax and interest.	35-21-22		5590	14164	21176	33046
37	Owdinary eamings	36-23		5590	14164	21176	33046
3	Cash flow	25+19		402	5770	1769	
20	Cost of sales Important	\$31_1:10 ⁴ (4	1	89731	102466	10825	98655

Financial Year ending date

	inancial lear nding date		1						
		Ba Pinci	J	OTER	ition		-		
		Year	1983	1984	1985	1986	19.8		
Ref A	ccounts Items	(Notes)			0.0	000	000		
50 Land & Bld.	(at cost)	(i)							
51 Plant & Hack	hinery(at cost)	(i) ·	-	1	:, :		-		
? Vehicles(at	cost)								
	other companies with the trade)				585	585	438		
hh Long term is associated	nvestment(not with the trade)				2889	2889	2189		
55 Depreciation	n to date				18451	28779			
	IXEL TANGIBLE ASS (50 to 54-5)		1	9385	12283	94902	100768		
5/1S oc': (raw me		(k)		34231	25012	49690	31813		
5 Stock(III)		(k)	1	7592,	1808	2146	3344		
59 Stock(finish	hed goods)			1146	1521	1545	2098		
		Stores & spares	1	19984	16586	25782	32660		
Ing-in- electric		Trade debtors	i	72603	1401	3461	3624		
51 Cash				71	97	1996	714		
62 Other easil	y realisable ass	ivt q	-	7816	7819	18244	40478		
63 TOTAL CUR	RENT ASSETS (57	to 60)	1	64846	72294	111640	118076		
64 Tax due				9496	7772	10735	9158		
65 Interest. du	o on lean other	Liabilities		10901	12121	29422	5906		
66 Bank overdr	ni t	Blook Starte (Brown e. e. e.)	i in ma	14555		29260	51736		
67 Dividends d	ue and provi ions			19600	17224	14643	11322		
68 Trade credi	tors			2491	2163	235	327		
69 TOTAL CUIUC	ENT LIAB LE TTES(4 to 68)		57048	45222	84300	78453		
70 Issue ordina	ary shares			36000	36000	56000	36000		
Indust prefe	erence shares			*					
70 Leng to em le	onn, debeitures, et	ic.	_						
73 Hetained ear	mings and reserve	8		2	5355	25917	16750		
2077.L LONG	G TEAM FUNDS (7) t	n 7 3)	11	36000	41355	61917	52750		
sabstainry o	ority intererali companies	ti.							
Cook : 1 . pat	tents, te. der eks,	etc.							
7 mb c of or	dinary accessa	sued							
75. LV.51	FIGURE	Derivation							
Transit.		70+71+73		36002	41355	61917	52/50		
Free Con	(4)	63-60		7798	290/2	27340	39623		
3 F. A.	abldes funds	70+73		36002	41355	61917	52750		
	n ble)	56+63		74251	84577	206542	218844		
		83-69		17183	41355	122242	140391		
-	and the second	83-(53+55)		17185	38466	113502	137764		
	the second secon	60 rC 1+62	101	10/190		23701	44816		

ANNEXURE-X

ì	.wf	perivation	Ratios	* .	1983	19	19	19	19	Explanation of ratios
	4	35 85	not profit before	tax ed = 100%	٠	95.69	56.68	21.35	25.61	% return on capital
	3	10	sales capital employed			60.9	-	8	69	Annula tumnover of carital - number of time
		35 10	net projet before	tox 100%		11.4.6	15.593.63	1.85	5.11	% profit margin
	-	35 10 34 15	operating profit operating assats	x 100%		13.29	26.17	12,18	15.95	Gnide to managerial per- formance in using asset available to management
	E	32 85	added value operating asset	1	,	0.58	\$.0	0.75	0.80	add d value per f of operating asset-use sale if added value not available. Indication of asseutilisation.
	F	39 57+58+59	Cost of soles stocks			1.57	2.28	1.37	1.41	Indicates terrover of stocks; night rate (mards against cosolonce(note 365 ÷ F denotes days of stocks.
	C	32/56	added value/fixed	l nsset						Utilisation of fixed assets.
	22	32.	no. employees					i		Utilisation of staff & labour
	1	<u>56</u> 3	no. employees	J.					-	Indicates whether capita intensive.
	J	10 81	sales working capital		,	13.42	5.17	8.05	8.9	High rate indicates avertrading-low rate indicates poor use of working capital
_		57+58+59 81	stock working capital		•	7.30	7.7	2.90	1.76	high rate indicates vulnerability to trade fluctuations and cash shortage.
	. L	3:	av.duily sales			7.46days	2.80 "	3,35 "	1.87	Collection period days credita allowed to debtors:incicates capital tied up.Use sales on credit if available.
FINANCE ST	М	69	current assets current liabiliti	es		1.14	1.67	1.32	1.50	Cur. ratio Cur.limbilitie must be paid from current assets. -ratio 2 + satisfactory.
	.1	86 69	liquid espet current liabiliti	e s		0.18	0.22	0.28	0.57	shows whether sufficient cash etc. to pay creditor Ratio 1 + satisfactory. sales vulnerability-
- avestment	0	34	contribution operating profit			1.52	1.4	1.78	1.57	shows extend of commit- ment to fixed overhead & hence vulnerability to fall in sale
35 22	F	(14 (2) (B);	fixed interest ca	pital yeed		C223	·012	₹00.	8	"Financial goaring"
Rating		37 24	ordinary earning(sgrass ordinary di	vidend	,	•	1			Ord.dividend cover-shows how company can maintain dividend paid- should be about 2
	R	80	net worth	tax x 1000		15.52	34.24	34.20	62.65	Shows profitability shareholders capital camings power from share-

			1	្រាស់ បាន	(, v , r*	5 gr	д)	Name of compa ny
Let	Derivation	Entios		84	85	86 86	19 87	Explanation of ratios
s	13 10+(11x3/2)	material 8 B.C. parts x 10 %	•	59.56	47.87	8.00	26.00	
Т	14 10+(11x3/2)	labour sales + se x 100%	1	14.99	12.1	12.55	15.05	Cost break down
υ	15 10+11 x3/2)	production overheads x 100% sales + se*		10.32	8.8	7.30	3.52	Note: se is the sales value equivalent of the increase/decrease
v	16 6±((1x3/2)	R^D Overhead x 100%					-	in stocks,esti- mated by adding 50% to item II to cover on-cost (increase+decr-
٧	17 U+(11x3/2)	solling, dist. overhead x 100 soles + se*	6	•05		.03		case)
х	(11x3/2)	cheral admn.overhead x 100	4.	3.69	4-43	3.30	3.22	

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ANNEXURE-XI

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

CHAND TEXTILE (SPINNING) MILLS LTD, DHAKA.

	Year ended		1983	19 84	1985	1986	19 87
Rei	f Accounts Items		000	600	999	999	900
0	Sales		59023	110220	109136	114065	11629
1	Inventory Increase + or	de cr ease -	(4602)	(8754)	1039	(749)	(176)
2	Other Income		283	378	2 70	2492	2868
3.	Materials & B.O. larts		35861	63185	69846	63879	63831
4	Labour		6841	14087	16036	22964	24126
5	Production Overheads		7710	17561	15589	12517	19661
6	R f D Overhends	ŗ	-	-		-	-
7	Selling E Distribution O	verliends	3	73	27	22	15.
3.	General Admn. Overheads		666	2819	3919	3999	4008
9'	Depreciation	- 10 10	787	712	626	642	1237
0	the water	9	-	-	•	 	-
1	Interest		2528	5130	5571	8584	10789
2:	Corporation Tax		1653	2094	2578	2094	2160
3	Preférence dividend		-	:/	Ī		-
l _k	Ordinary dividend		-	-		-	-
15	Increase in retained cam reserves.	ings and	142093	16173	18298	20267	22574
1	DERIVED FIGURES	Durivation					
0	Total Revenue	16 + 12	59306	110598	109306	116557	11916
1	Average daily sales	10 + 365	161	505	299	312	318
2	Added value	10 - 13 - :	18560	38281	40329	49437	5228
3	Contribution	10- 11-(\3+7	4009	6634	8792	14102	5474
4	Operating Profit	10+11-(1) to	2723	3816	4586	1697	1452
5	Net profit before tax and interest.	34+12	3006	4194	4756	4189	4520
6	Net profit after tax and interest.	35-21-22	1353	2097	2378	2094	2160
	"Swdinary eamings	36-23	-	-	-	-	-
77		1					

4.5

Name of Company Financial Year ending date dalance Sheet Information 1983 1985 19 86 1 19 87 Year 19 84 000 000 990 999 Ref Accounts Itoms (Notes) 000 (i-) 50 Land & Bld. (At cost) (i) Sililant & Machinery(at cost) Vehicles(at cost) Interest in other companies (associated with the trade) 5 Long term investment(not 150 150 150 150 150 associated with the trade) 17282 18600 15964 16474 15391 55 Depreciation to date TOTAL FIXED TANGEBLE ASSETS 56 9188 8527 6029 10182 15772 (50 to 54-55) 57 Stock(raw materials) (k) 58 Stock (/IF) (k) 50834 57881 82571 40488 92544 59 Steck (finished goods) 60 Trade debtors(less profision 23454 14055 19594 12348 11676 for bad debts) 12570 21084 5816 28846 25110 C1 Cash 62 Other easily realisable assets 230/1 26610 13190 19156 20663 84858 102154 111976 155939 148352 [3] TOTAL CURRENT ASSETS (57 to 62) en lax due 22280 13549 15646 18024 20119 Interest due on loan 60 Bank overdraft 3070 16381 13481 47140 32418 Ohter liabilities (cuurent) 51509 55060 70906 79429 79029 Trade creditors 1545 1416 3769 1421 1335 88508 99853 135543 TOTAL CURRENT LIABELITES (64 (68) 71897 139500 69 6000 6000 6000 6000 6000 70 Issue ordinary shares 21 Issued preference shour 72 Long term loan. desetures, etc. 73 Retained camings and reserve 20267 14242 16321 18298 22692 20242 22321 24298 26267 28692 74 TOTAL LONG TEAM FUNDS (70 to 73) Outside mimority interest in subsidiary compandes. 76 Good will, patents, trade works, etc. Number of ordinary glures issued 600694 600694 600694 600694 DELIVED FIGURE! Derry vacion 80 Not worth 20242 22321 24298 28692 70+71+73 26267 81 Working Canital 2809 16439 63-60 10951 13646 12123 82 Equity shareholders funds 70+73 20242 |22321 |242298 26267 28692 Total asset(tangable) 1672 110681 118005 164124 56+63 166121 Capital employed 19775 22173 18152 26621 28581 83-69 85 Operating assets 91522 11053 117855 165971 163974 83-(53+51)

42460 51320 66443

60+61+62

63593

65775

Liquid hasets

ANNEXURE-XI

	wef	Derivatio	on Ratios	83	10 84	19 85	19 86	19 82	Explanation of ratios
-	-	13.2							1
ė	^	3 <u>5</u> 85	hot facilit before tax room	-	18.91	28.30	15.73	15 11	% return on capital
bene ra.		10 84	capital employed	2.98	4.97	6.01	.28	4.06	Annula tumnover of capital - number of time
	2	<u>35</u>	net profit before the x 1008	5.09	3.80	.35	3.67	3.71	% profit margin
	J.	34 E5	operating assets x 100%	2.97	3.45	5.89	1.02	88.0	Guide to managerial per- formance in using asset
9	E	<u>32</u> 85	added value operating asset	0.20	¥.0	**0	0.29	0.51	available to management added value per for operating asset-use sale if added value not avai- lable. Indication of asse- utilisation.
periorrange	F	39 57+5: +59	Cost of sales stocks	1.36	2.03	1.73	1.08	1.33	Indicates turnover of stocks: high race guards
100	C	32/56	adddd vnlue/fixod agset	20.2	4.48	89*9	4.85	3.31	Utilisation of fixed assets.
Anna geri I	а	32	no.comployees						Utilisation of staff & labour
2.	I	56	fixed asset no. employeus						Indicates whether capital intensive.
		<u>£0</u>	soles working capital	5.38	8.07	8.00	6.93	20.6	High rate indicates: overtracing-low rate indicates pror use of working capital
-	i.	57+58+59 21	stock werking capital	3.68	3.72	4.77	5.61	6.44	high rate indicates vulnerability to trade fluctuations and cash shortage.
perfo_nance	L	3: 6)	trade debterses. av.daily sales	941	49	14	57	\$	Collection period days credita allowed to debtors:indicates capital tied up.Use sales on credit if available.
Financial			current assets current liabilities	1.15	1.15	1.12	1.11	1.09	Cur. ratio Cor.liabilities must be paid from current manetsratio 2 + satisfactory.
	0	33	liquid asset current lishilities contribution	8.	.57	99.	54.	82	shows whether sufficient cash etc. to pay creditors likitin 1 + satisfactory. sales yellorobility-
: avestment		33/4	operating profit						shows extend of commit- ment to fixed overhead & hence vulnerability to
2.5 CH .	F	71+72	fixed interest capital capital employeed	.12	÷	8.	.31	.57	fall in sale "Financial goaring"
Rating	4	36	gross ordinary dividend						Ord.dividend cover-shows how company can maintain dividend maid-should be shout 2
		36 60	net worth x 100%	89*9	6.9	9.78	7.97	7.52	Shows profitability shareholders capital camings power from shareholders wint of view.

		x 24 H		1 7	var	5 yre	J	Name of company
Ref	Derivation	Mation 1984		3 1985				7 Explanation of ratios
s	13 13+(i1x3/2)	m terial 8 B.O. parts x 100% sales # se*	60.75	51.32	65:39	56.01	7.88	
T	$\frac{1^{l_1}}{10+(11x3/2)}$	sales + se x 1(x)%	3.5	12.78	14.69	51.05	.2.7.	Cost break down
υ	10 / 10+(+ x3/2)	production overheads x 100%	15.06	15.93	14,28	10.79	16.90	Note: se is the sales value equivalent of the increase/decrease
v	1(.v.±.(1x3/2)	Notes + se x 100%						in stocks,esti- mated by adding 50% to item II to cover on-cost (increase+decr-
W	0-(11x3/2)	sales, + se*	•005	8.	05	٠٥٠	٥.	OASE)
×	10+ (11x3/2)	cheral folian overhead x 105	1.12	,2.55	\$	3.50	3.4	

FINANCIAL ANALYSIS CONSULTABLY THE INTIGUES - CALCULATION SHEET.

RAZ TEXTILE MILLS LTD.

			HE HOLDUN		-	1400/	
	Year ended		19 83	19 85	19 85	1986	19 87
Re	f Accounts Items	3	000	000	000	000	000
10	Sales	1	50623	57689	62819	7964	65290
11	Inventory Increase + or	decrease -	(652)	695	574	135	(7/1)
12	Other Income		176	71	40	79	156
1.3	Materials & B.O. larts	• • • • • • • • • • • • • • • • • • • •	32 726	56630	<i>5</i> 957 3	35276	40798
14,	Labour		5425	6594	9497	12430	1333
15			6592	7479	7849	6934	7265
16	R f D Overhends	er er					
17	Selling & Distribution	Overheads	55	36	51	83	135
15.	General Admn. Overheads	5;	5268	6204	7384	7344	8528
19	Depreciation	-	2329	2299	2110	1557	1712
20			1	1			
2.1	Interest	I Personal Print Print Co.	1	Ī			
22	Corporation Tak		321	1722	551	-	-
23	reference dividend						-
24	Ordinary, dividend	A sa	1				
25	Increase in retained car reserves.		(4537)	(3243)	(4835)	(\$822)	(17582
	DERIVED FIGURES	Derivation					
30	Total Revenue	10 + 12	50799	57766	62859	58043	65446
31	Average daily sales	10 + 365	138	158	172	158	179
32	Added vnlue	10 - 13 + 11	17245	21754	23820	22823	23/21
33	Contribution	10- 11-(13+1/+	15) 5790	9608	8499	2619	165
34	Operating Profit	10+11-(13 to 1	9) 466	3367	1063	(4808)	(8496)
35	Net profit before tax 13	34+12	643	3444	1103	(4729)	(8496)
36	Net profit afthr tax (5)		321	1722	551	(4729)	(8339)
37	Owdinary earlings		321	1722	551	4729)	(8559)
-		110	321	1722	551		(8339)
39	Cost of sales	14.14 48	44832	48081	54320	55344	53124

Dhaka University Institutional Repository

Financial Year unclay data

Name of Company

		dalance	-			10.07	10.00
		Yenr	1983	19 84	1985	1986	1 1987
Ref	f Accounts Items	(Notes)	0110	000	000	000	000
50	Lanc (E: Bid. (at cost)	(i)					
51	ilant & Hachinery(at cost)	(₁)					-
52	Vehicles(at cost)						
5 3	Interest in other companies (associated with the trade)			4			
54	Long term investment(not associated with the trads)	4					
55	Depreciation to date						
56	TOTAL FIXED TANGIBLE ABSETS (50 to 54-55)		27523	27721	25747	25009	21305
57	Stock(raw materials)	(k)	10238	50182	9644	8346	9432
58	Stock(MF)	(k)					
59	Stock(finished goods)		4280	6454	24742	39859	7997
60	Trado debtors(less profision for bad debts)		43	45	1745	1647	1397
61	Cash		336	8822	4045	872	279
62	Other ensity mentionable assets		6581	1364	3503	6115	10583
63	TOTAL CURRENT ASSETS (57 t. f	.2)	21481	46971	43681	56841	29690
64	Tax duo		,				
65	Interest due on loan		1 -	-			
66	Bank overdraft	Line and a	-	ATTACE	18524	16767	9828
67	Dividends due and provi tons		24160	29084	29958	31466	41133
68	Trade creditors		419	5	5	3	3
69	TOTAL CUMENT LIABLE TES(64 t	o 68)	24160	51132	51083	50805	51489
70	Issue ordinary shares		10936		10901	9773	97/3
-	lssued preference shares			1	151	21212	_
	Long term loan, desentures, etc.		16162	34242		6284	5777
73	Retained eamings and reserves		+		(3297)	(8284)	(16044)
74	TOTAL LONG TEAN FUNDS (70 to 7	3)	24099	43563	18343	28985	(494)
15	Cutside minority interests in subsidiary companies.	11					
1	Cood : 11. patents, trademrks, at						
	Number of ordinary shires issued		<u> </u>				
	DELIVED FIGURES	Derivation		-			
Co	Net worth	70+71+73	937	9320	7/55	22701	(6271)
31	Working Capital	53-60	(3422)			6036	(21799)
32 1	Equity shareholders funds	O+73	7937	9320	7604	1489	(6271)
		56+63	29004	74692	69428	79850	50995
- 1	7.4	3-60	*844		18345	29045	(494)
		3- (53+51)	29004		69428	79850	50995
		я)+61+6::		10331	9295	8634	12259

Dhaka University Institutional Repository

			value(t	cente	1979	r 5	yrs		Nome of the company
-		Dea! vatio	n Untins	83	HL	19 85	19 86	19 87	Explanation of ratios
. 1		3 <u>5</u> 85	not profit before tax x 100	~	2 90	6.01	16.28	Neg.	% return on capital
	5	10	sales capital employed	10.45	1.32	3,42	1.99	-op42	Annula turnover of carital - number of time
		3 <u>5</u> 10	net mit before tax x 100	13	2.36	1.75	8.15)	16.66\$12.77}do-	% profit margin
1		15	operating profit x 100%	1.60	4.5	1.53	6.0248.15)1.99	16.66	Guide to managerial per- formance in using asset available to management
0	2	32 85	added value operating asset	.59	83.	杰	.28	94.	added value per f of operating asset-use sale if added value not available. Indication of assetutilisation.
perioriange	F	39 57+5 ⁸ +59	Cost of sales stocks	3.08	1.31	1.57	1.15	373	Indicates to have of stocks: night rate gameds against obsolunce (note 365 + F denotes days of stocks.
	a	32/56	added value/fixed asset	.62	.72	-95	8.	1.11	Utilisation of fixed assets.
Managerid	25	39 3	ndded vnlue no. employees						Utilisation of staff & labour
-	I	<u>56</u>	no. employees						Indicates whether capita intensive.
	J	10	sales working capital	Neg.wc	3.64	Neg.we	09.6	Neg.WC	digh rate indicates: evertrading-low rate indicates poor use of working capital
	*:	57+58+59 81	stock working copital	Neg.WC	2.31	Neg.WC	7.94	Neg.WC	high rate indicates vulnerability to trade fluctuations and cash shortage.
perfo annes	L	3:	nv.dily sales	.31	16.	10.41	10.42	7.80	Collection period days credita allowed to debtors: indicates capital tied up. Use sales on credit if available.
Financial	Н	60	current assets	8.	1.50	85	1.11	.57	Cur. ratio Cur.liabilities must be paid from current assetsratio 2 + satisfactory.
	ii	<u>60</u>	liquid asset current liabilities	•28	•33	81.	91.	.23	shows whether sufficient cash etc. to pay creditor Ratio 1 + satisfactory.
- nostment	0	31/3/1	operating profit	12,42	2.85	7.99	Neg. WC	-do-	sales vulnerability- shows extend of commit- ment to fixed overhead & hence vulnerability to fall in sale
000	D.	71+/2	fixed interest capital capital employeed				- 1		"Financial gearing"
Rating	-	24	ordinary earning(net) gross ordinary dividend net profit after tax 100						Ord.dividend cover-shows how company can maintain dividend paid- should be about 2
		F FG	net vorth	3.	18.47	7.10	(20.83)	8	Shows profitability shareholders capital camings power from shareholders point of view.

Ref	Derivation	Eatios .	10 83	10 84	1') 85	19 86	19 [°] 87	Explanation of ratios
s	13 12+(11x3/2)	material N β.O. parts x 100% seles # se	49*49	€5 €5 63.49	65.99	60.85	62.48	
T	14 10+(11x3/2)	lebour x 100%	12.71	43	15.11	21.44	24.05	Cost break down
บ	15 10+(1 x3/2)	production overheads x 100		₹.	12.49	11.96	11.12	Note: se is the sales value equivalent of the increase/decrease
v	16 IC±(11x3/2)	R ^ D Overhead x 100%						in stocks,esti- mated by adding 50% to item II to cover on-cos (increase+decr-
W	17 10+(11x3/2)	sellind, dist. overhead sales + se*	1	0.00	0.08	0.14	8	case)
х	18 10 <u>+</u> (11x3/2)	general adminoverhead siles + se*	10,40	10.75	11.75	12.66	3.06	

ANNEXURE-XIII

REPORT OF THE

STUDY GROUP TO FRAME GUIDELINES

FOR

FOLLOW-UP OF BANK CREDIT

RESERVE BANK OF INDIA BOMBAY 1975

NORMS FOR INVENTORY AND RECEIVABLES

- The rationale of norms and the need to link credit with production requirements is to us was fairly clear; and we envisage that eventually Need of Norms the entire system of credit planning will be devetailed with production planning, both to make good use of bank credit and also to create botter management of cash, materials and receivables.
- Industry representatives in their discussions with us generally agreed that it was necessary to prescribe some norms but they were doubtful about our ability to fit the wide spectrum of industry adequately into what we lay down. Their solution was that the norms should be applied flexibly.
- 5.3 While we realise that norms will have to be applied flexibly and not regidly, responsive to any major change in environment and within the industry, we are unable to accept that uncertainties can be regarded as a reason for not laying down norms, an argument that some, happily not many, placed before us. In fact, the greater the uncertainties, the more is the need for planning.
- Our first attempt at norms was in our Interim Report to the Reserve Bank. We suggested norms for inventory and receivables for ten major industries. The objective was to introduce a discipline and improvement in the maintenance of reasonable inventory and receivables levels consistent with encouragement of production on the basis of a helpful relationship between the banker and the customer.
- The Reserve Bank accepted the suggested norms and advised all scheduled commercial banks to apply the norms in respect of these ten industries, both to the existing and new borrowers, on an experimental basis, and to furnish it with a feed-back of the experience. A copy of the Interim Report and the Reserve Bank circular letter are furnished in Annexures—III and IV.
- 5.6 The approach for prescribing norms for inventory and receivables bristles with a variety of problems. We are, therefore, anxious that Approach to Norms should be an understanding of the total problem and a firm but helpful approach built into the suggested norms and their implementation.

13"

- 5.7 We have now suggested norms taking into account the following:
 - (i) company finance studies made by the Reserve Bank,
 - (ii) process period in the different industries,
 - (iii) discussions with experts in the industries concerned,
 - (iv) general discussions with the industry interests,
 - (v) need for ensuring sommoth production, depending upon the availability of the materials, seasonality, etc. and
 - (vi) reactions and feed-back on Interim Report.
- 5.8 We have extended our exercise to a total of 15 major industries, covering about one half of industrial advances of banks, and certain norms earlier suggested have been revised in the light of the feed-back received. The norms represent the maximum levels for holding inventory and receivables in each industry. Borrowers are not expected to hold more than these levels. Neither is the norm an entitlement to hold inventories or receivable upto this level. If a borrower has managed with less in the past, he should continue to do so. The suggested norms are as follows:

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2
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Industry	S S S S S S S S S S S S S S S S S S S	Raw materials (including stores and other items used in the process of manufacture)	Stocks-in- process	Finished goods	Receivables and bills purchased and discounted
(:)		(2)	(0)	(+)	(2)
Cotton and Synthetic Textiles	n n 17 n	Cotton (Bombay and Ahmedabad Areas) (Eastern areas—Bihar, Crissa, West Bengal and Assam) (Other than the above the above areas) Other raw materials	(Composite textile mills) (other mulls)		
(ii) Man-made Fibre	-				
Jute	7			(For domestic sales) and the (For exports)	-ta
Rubber Products	н		.44		
Fertilisers (a) For nitro- genous plants		(Units near refinery) (Units away from refinery)	Neg III	1 (Where stocks are site) 14 (Where site) 15 (Where site) 16 (Where site) 170 (Mark and are site) 180 (Mark and are site)	#
(b) For phosphatic plants	64 m	(Units in port areas) (Units away from port areas)	Negligibio	1 (Where stocks are in plant site.) 14 (Where stocks are also to up-country country country country country country)	: :
Pharma- ceuticals	7.7	•		7	=
Dyes and Dvestuffs	2.	-		+	#

Receivables and bills purchased and discounted SUGGESTED NORMS FOR INVENTORY AND RECEIVABLES 261 Finished 800ds Stocks-in-process

t

الطسادي	Pro oth	Raw Materials (including scores and other items used in the process of manufacture)	S. G.	Stocks-in- process	Finished 800 ds	.	Roceivables and bills purchased and discounted
(1)		(2)		6	(4)		(5)
(viii) Basic Industrial Chemicals	77		-40		-		#
(ix) V able Hydrogenated Ods			N. D.	4.			
poded (r)	2	Barntoo and Wood (To be built up in states from Novem ber to May and there- and there- and there- ber to be brought down)	:		(For con- trolled sales) and For free sales)	8 7 2	□ Dhaka
	13	Chemicals					Univ
(H) Cement	-tr. ush	Gyptum Cross Packing materials	-			Ī	versity Instituti
Automotive bytes and Aucillanes	::					7	
(xiii) Eaglacering— Consumer Durables	**					7	
Application Application Automobile And Component Automobile And Component Suppliers							
Machinery Manufacturers Manufacturers and other Capital Equipment Suppliers (other than	ri . in . r		#				
Heavy Engi-			•				

Notes: (1) Raw materials are expressed as so many months' encoumption. They include stores and other items used in the process of manufacture.

4

20

13

CITICULAR DE BANGLADSH BANK

Estimate of working capital for jute mills of 200 narrow looms during our eleason for the year 1988-89

For 2nd shift

1. Capacity utilization : Hessian - 7.5 pound/looms/hours
Saking - 20 pound/looms/hours

(Taka in lakh)

	fred up period	Hessian (125 looms) 2 shifts (16 prs.)	Sacking (125 looms) 2 Ehlete (16 hrs.)	
2.(a) i. Raw jule ii. Fireshed goods iii. Work-in-process	7 months 90 cays 3 weeks	157.88 149.81 34.96	240.25 235.61 55.21	
foral stort (. +	(3 1 F2 i i)	342.65	532.07 	
(b) Stores and Samuel				
i. I heal purchase ii. Imported	= months Actual	4.95 39.62	4.95 39.62	
(a = 3 :)		44.57	44.57	
3. Value of total scoon	& Stores	387.22	576.64	
(2a + 2m)				

Sacking

period (125 looms) (125 looms)
2 shifts 2 shifts
(16 hrs.) (16 hrs.)

4. Total loan required 348.90 516.97
for stocks and stocks
excluding 10% margin

Taec up

5. Loan required per loom or the basis or two shiets. TL. 2,79,120.00 Tk.15,176.00

Hession

Notes: Raw jute price 26 estimated as follows:

Hessian - IE. 200 per maund Average selling price: Sacking - IE. 214 " Hessian - Tk. 24,465 per M.T.

Work-in-process we per valuation.

Sacking - Tk. 14,490 M.T.

Hescion (k.24 %) p. M. (. Sacking (k.14 %) per M. (.

CIRCULAR OF BANGLADESH BANK

Estimate of working capital for ute mills of 250 narrow looms during jule season for the year 1988-69

For 2nd shift(7.5 hrs.)

1. Capacity utilitation : Hessian - 7.5 pound/looms/hours
Sating - 20 pound/looms/hours

(Taka in takh)

		t to a second and a	A Common Accordance
	fild up period	Hessian (125 looms) 3 shifts	Sacking (125 looms 3 thirts
2.(a) i. Raw jute	v month	74.00	112.61
ii. Finished goods iii. Work-in-process	90 days 3 weeks	70.22 16.39	110.916 25.88
Toted Second	(-3. ; -1 i 3.)	160.61	249.40
		and had but the one two and the	track shirt of the act code and help and track and track
(a) Stores and Sagre			
i. local purchase ii. Imported	Accual	2.32 18.57	2.32 18.5/
(3 3 3)		20.89	20.89
3. Value of tokal stock	s stores	189.50	270.29

	Dhaka University Institut	ional Repository	Hession (125 looms) 2 shifts (16 hrs.)	Sacking (125 looms) 2 shifts (16 hrs.)
4.	Total loan require: for stocks and ito es		163.35	243.25
	excluding 10% margin			the state of the s
15	terms of conjugations	Tr. 1 30 930	00 Tk 1 94	March 1313

5. Loan required our FR.1,30.680.00 Tk.1,94,608.00 loom on the basis amount management of two shifts

Notes: Raw jute prime is estimated as follows:

Hessian - Tk. 30 per maund Average selling price: Saching - Tk. 24,465 per M.T.

Work-in-process as Sacking - Tk. 14,470 M.T.

per valuation:

Hessian Tk.24 46 per M.I. Saching Tk.14 49 per M.I.

ANNEXURE-XVD

QUESTIONNAIRE

1.	Name
2.	Age Year of Experience
3.	Academic qualification(Please mention Degrees only)
	••••••••••••••••
4.	Professional qualification(if any)
5.	Please mention your present designation with the name of your Enterprise/Corporation.
	••••••••••••••••
6.	Is there problems of working capital management in the Enterprise/Corporation in which you are working?
	Yes No
7.	Problems of working capital management in the public sector Enterprises in Bangladesh may be wate to following reasons:-
	a) Lack of proper working capital policy(please tick one).
	Agree Stron- Dis- Stron- Un- gly agree dis-
	agree

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b) In	efficiency in t	the managemen	t of the comp	onents of working	ng capital i.o.
i)	Lack of proper	r inventory m	unagement.		
	1 Agree	Strongly Agree	Disagree	Strongly disagree	Undecided
ii)	Lack of proper	r Accounts Re	ceivable Mana	gement.	
ŕ	1	2	3	4	5
	Agree	Strongly Agree	Disagree	Strongly Disagree	Und edi ded
iii)	Cash Managemen	nt.			
	1	2	3	4	5
	Agree	Strongly Agree	Disagree	Strongly Disagree	Undecided
iv)	Short Term Inv	vestments & A	dvances Manag	ement.	
	1	2	3	4	5
	Agree	Strongly Agree	Disagree	Strongly Disagree	Undecided
c) In	herited liquid	ity gap on th	e day of nati	onalisation.	
	1	2	3	L ₊	5 ,
	Agree	Strongly Agree	Disagree	Strongly Disagree	Undecided
d) Pr	oblems owed to	poor cash fl	ow indegeneou	s to the indust:	ry itself.
-	1	2	3	L _t	5
	Agree	Strongly Agree	Disagree	Strongly Disagree	Undecided

Too much dependence on Cash Credit of the Commercial Banks as a

Disagree

Strongly Disagree

Undecided

major source of Working Capital.

Strongly

e)

	pendence on the g-term Project	development by	adget of the C	overnment
1	2	3	4	5
Agree	Strongly Agree	Disagree	Strongly Disagree	Undecided
Lack of prop	per Capital Str	ucture.	i.	c
		2	7	5
Agree	Strongly Agree	Disagree	Strongly Disagree	Undeci-
1				ded
Too much pol	itical pressur	e (since nation	nalisation) ar	nd, other
		are also respon	sible for the	e proper
management o	of working capi	tal.		_
1	2	3	4	5
Agree	Strongly	Disagree	Strongly	Undeci-
THE TOTAL	agree		Disagree	ded
		iting, cost cont ble for the poor		
1	2	3	4	5
Agree	Strongly	Disagree	Strongly	Undeci-
	agree		Disagree	ded
Lack of co-c	ordination betw	reen sales and p	production pla	nning.
1	2	3	4	5
Agree	Strongly	Disagree	Strongly	Undeci-
	agree		Disagree	ded
Improper pri	cing policies/	administered pr	ricing policie	es is a lso
responsible	for poor manag	ement of working	ng capital.	
1	2 4	3	4	5
Agree	Strongly	Disagran	[Strongly]	Undeci-
1	agree	Disagree	Strongly Disagree	ded
[mmmmmmmm]		1		
Lack of pron	er organisatio	n structure of	finance depar	tment of
4 1	G			

public enterprises is also responsible for inefficient management of working capital.

1 2 3 4 5

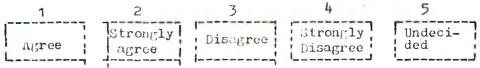
Agree Strongly Disagree Disagree ded

m) In competency and lack of modern financial management knowledge on the part of the financial executives are also responsible for poor working capital management of Public enterprises in Bangladesh.

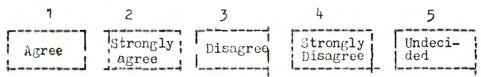
:

1	2	3	4	5
,	,	,		
Agree	Strongly	Disagree	Strongly	Undecided
	100		Disagree	

n) Absence of written guideline by the corporation bosses is also responsible for poor management of working capital.



o) Stress on production rather than sales due to the faulty policy of the Govt., also responsible for poor working capital management.

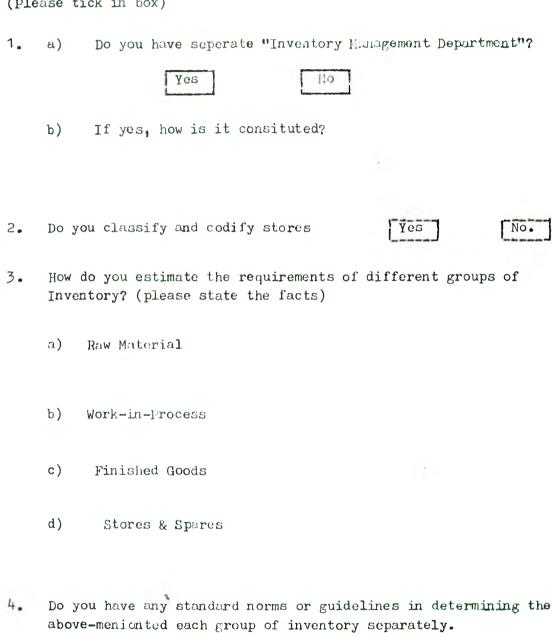


p) Lack of sales planning and demand analysis is also responsible for proper management of working capital.



QUESTIONNAIME ON INVENTORY MANAGEMENT SCHEDULE-II

(Please tick in box)



No

If yes, please state it clearly

5. a) Do you face any administrative difficulty while Planning for inventory?

Yes

No

- b) If yes, please state these
- 6. What are the factors influencing the size of inventory?
 - i) Production Cycle
 - ii) Terms of Puchase
 - iii) Cost of Purchase
 - iv) Safety Stock
 - v) Lead Time
 - vi) Availability of materials
 - vii) Cost of Carrying
 - viii) Forecast of Demand
 - ix) Others(specify)
- 7. Do you follow which of the following modern techniques of Inventory Management? (Please tick)
 - i) Minimum level
 - ii) Maximum level
 - iii) Re-order level
 - iv) Economic Order Quanitity
 - v) Perpetual Inventory System
 - vi) ABC analysis for Stores Items
 - vii) Inventory Audit
 - viii) Standardisation and variely reduction
 - ix) Others

8.	Do you follow the Inventory norms on the following basis 7 i.e. i) Process period; ii) Need for smooth production;
	ili) Availability of raw materials; v) Availability of
	Stores and Spares; v) Demand of goods.

If not, please state the reasons...

9. Please tick which should be the appropriate norms for holding Inventory for Maximum period.

Raw Material Min. Imported Local Maximum period (months) Max (Months) (Months) [I : 12 | 3 | 4 | 5 | 6 | 2 1 2/2 13 31/2 or others 141/4/21 15 1 5% or others (specify) 16: Others

(Please tick) b) Work-n-Drocess 200 days | 25 days | (30 days 10adays c) Finished Goods For Export sales For Domestic sale (10 days) 15 days! [1 month] 11/an 12m 21/am | 3m \4m 37am (11/m 12m 3 month 12/am d) Stores & Spares Local (Months) Imported (Months)

121/2 3 7 1 18 1 9 10 11

10.	Does the centralised buying	of	raw cotton	complicate	
	the working capital managemen	it	problem of	BTMC enterprises	•



If yes, state reasons.

11. Does the low purchasing power of the poorer section of population and clamour for foreign goods by richer section of customers, a huge of finished goods accumulate in cotton textile mills?



If yes, state it clearly.

QUESTIONNAIRE ON ACCOUNTS RECEIVABLES MANAGEMENT SCHEDULE-III

(please tick where	e applicalbe)
--------------------	---------------

(p.	Cabc	tion who o application
1.	a)	Do you have Accounts Receivables management policy
	b)	If yes, how it is constituted?
2)	a)	What factors are considered while formulating credit & collection policy?
	ხ)	Who are the executives entrusted with the task of implementing the policy ?
	c)	What is the policy of the concern regarding accounts receivables?
		i) Strict, ii) Soft iii) flexible
	d)	What is the effect of such policy ?
3)		at are the sources of Information to assess the credit worthnines, the prospective debtors?
	i)	Trade Reference ii) Bank Reference
	ii i) Purchase accounts iv) Direct Information by sales executive & salesmen.
4.	Do	you allow discount for prompt payment Yes No
	a)	If yes, what are the terms of discount ?
	b)	What is the effect of such policy?

5.	Do you	charge any	penal interest	for non-payment	of receivables
	within	stipulated	time ?		

Yes No

If yes, what is the effect of such policy.

6. Please tick, which should be the appropriate norms for collection of receivables (Maximum period).

For Domestic Sales (months)

For Export Sales (Months)

1 1/2 2 1 1/2 2 2½

2½ 3 3 3½ 4

5 6

7. What are your overall suggestions to increase the efficiency of accounts receivables management.

10.	Whether there is any verification of stores
	(a) Monthly (b) Walf yearly (c) Yearly (d) others.
11.	What is the policy of your organisation about the value of stock limit of -
	(a) Raw material (b) Work-in-Progress (c) Finished Goods
	(d) Stores & Spares.
12.	How does you will fix the norm of different types of inventory holding?
13.	What are the problems of Inventory Management in your mill or organisation?
14.	What are your overall suggestion for the better management of your inventory in your mill or organisation ?

QUINSTIONNAIRE ON CASH MANAGEMENT SCHUDULE-IV

	1.	a) b)	Is there seperate Cash Management department Yes No.
>	2)	a)	How do you forcasts cash inflows and outflow?
		b)	What factors influence Cash forecasting?
	3.	a) b)	Do you prepare Cash Budget Yes No
		c)	What period is covered by Caph budget ?
		d⊋	Do you have monthly Cash Budget: Yes No
		e)	Do you have internal control system for Cash ?
			Yes No
	4.	a)	Do you require to submit cash budget/report to the Corporation and the Ministry of finance ?
			Yes
		b)	If yes, when

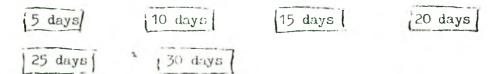
5.	a)	How do you	assess	the	adequacy	of	Cash	balance
		to kept ?						

- b) What are the factors that influence the above policy?
- 6. a) Do you invest excess cash in short-term securities ?

Yes No

- b) If yes, what factors are considered while purchasing different of securities?
 - i) Profitability ii) Liquidity iii) Safety
 - iv) others.
- c) How is such excess determined ?

7. Please tick which should be the appropriate norms for holding cash for maximum period of time.



8. How much cash credit your organisation was granted by the bank during the last six years as follows:

Tk.(lakh)

1981-82

1982-83

1983-84

1984-85

1985-86

1986-87

9. How much interest you have paid during the last six years on cash credit?

Tk', (lakh)

1981-82

1982-83

1983-84

1984-85

1985-86

1986-87

10. What are your overall suggestion to increase the efficiency of Cash Management ?

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