WORKING CAPITAL MANAGEMENT MODEL FOR PUBLIC ENTERPRISE IN BANGLADESH

A STUDY OF JUTE AND COTTON TEXTILE INDUSTRIES



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Ph. D. THESIS

BMDC





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A study of Jute and Cotton Textiles
Industries.

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- 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.

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- xi. Cost accounting and cost control system is found inadequate in public enterprises to control over expenditures.
- 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 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

ABSTRACT

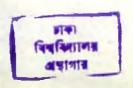
Working capital plays an important role in day to day operations a business enterprise. The success or failure of enterprises is very much dependent on its efficient management of working capital. After the liberation of Bangladesh, most of industries were taken over by the Government by a Nationalisation 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 to 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 major problem. It appears from the annual reports of Bangladesh Mills Corporation(BJMC) and Bangladesh Textile 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.

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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.



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- 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.
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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 comparatiuve 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(EOO) or Miller or Model for Cash management and other models suggested by western scholar are not practically applicable in the environmental 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 requirements, the maximum permissible limit of bank 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. 2229 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 in to model, jute mills compared our public sector

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. 622.45 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 enterprises. the development of such public be handful of reasons for negative or There may 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 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 guidance 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 Ashraf Ali, General Manager, Banking Control Department, Bangladesh Bank for going through the draft thesis and making valuable suggestions.

I am also thankful to Dr. Golam Mostafa Khan, Assistant Professor, Department of Management, Dhaka University for his constructive suggestions, continued encouragement and support in writing the thesis. I am also grateful to the management of the selected jute and cotton textile mills and corporations for providing me with necessary informations and filling up the questionnative.

I am also thankful to Mr. Mohammad Hossain, Director General, Bangladesh Management Development Centre(BMDC) for his sincere co-operation and encouragement in carrying out the study. I also thank Mr. K.M. Mizanur Rahman, my Personal Assistant, who have taken all pains for typing the manuscript. The officers and staff of BMDC, especiallty the Computer Unit also deserves thanks for their patience and co-operations.

Finally, I must remember my parents(deceased) whose love and endeavour helped me to reach this stage. It was my loving daughter Ruma and beloved son Arif and wife Lutfa who always provided me essential support and encouragement in conducting this study, and I am thankful to all of them.

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

Bangladesh plays an important role in the economy of Bangladesh. About 40 percent of the total foreign exchange of the country is a learned 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 in 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.

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 3 health of the industry.

The total quantity of jute goods exported was 285 thousands

4
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 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 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.
- 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
- 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

Presently 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 of management Bangladesh and brought under the 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. 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 pt (Calculation of percentage have been made by us.)

^{9.} The Planning Commission, Govt. of Bangladesh, The Two Year Plan, 1979-80.

^{10.} The Planning Commission, Govt. of Bangladesh, The Two 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 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

Liqiidity 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 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 Profitability of the jute industry of Bangladesh in Postliberation period " BIDS. Vol 10, p4.
- 17. M. Habibullah,(1974) Industrial efficiency and profitability of jute mills in Bangladesh. Bureau of Economics Research, Dhaka University, pl.

22 19 21 18 20. Hasan, Raquib, Awal, Mandal Zaman. Khan, Mozaffar. 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 iute industry. The requires a specific indepth analysis.

Muzaffar Ahmed, Industrial Finance in Bangladesh, Dhaka University, 1976 p31.

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

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.

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.

- PRM
- 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.
- 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. Cotton Textle has been historically the pathblazer 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 Post-World War II period started with the Cotton Textile The Cotton textile industry provides clothing, which industry. 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

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

^{31.} Ibid, p 241.

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 from February, 1982.

Ibid, p 241.

32.

^{33.} BTMC, Annual Report 1984-85, p4

^{34.} Ibid, p4

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. But 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 1987-89 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 cloth had been lying as unsold stock in the stores of 36 Textile mills of BTMC. During the field survey, it has come to 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 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:

 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;
- 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-hypothesis:

- i. 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.

Rehman Subhan & Muzzafar Ahmed(1978) Public Enterprises in an Intermediate Regime-BIDS/496-498, Table 22.5.

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 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 available. There was a liquidity 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.

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 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.

M. Habibullah (1974) Some aspects of industrial efficiency and profitability of the jute mills in Bangladesh. (Bureau of Economic Research, Dhaka University, p1.

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.1, 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 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 16 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.

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.

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 Publishers 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:-

 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.
- Studies have rarely been carried out with an objective to prepare a profile on finance managers competence.
- 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 those 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 user which decision is best. Rather it allows the For example, suppose the decision being to specify a decision. 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 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 & DRR(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 (E00) for finished goods and raw material inventory and so on. Similarly, various models are used for managing cash, such as operating cycle model; E00 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, into and finished goods classification for purposes of inventory control. Herbert 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

In Bry by my

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 E00 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 (EQQ) 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.

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:
- (g) Fund flow statement model.

3.5.2 Miller-orr-Model:

If the failure is not known with certainly, application of EOQ 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

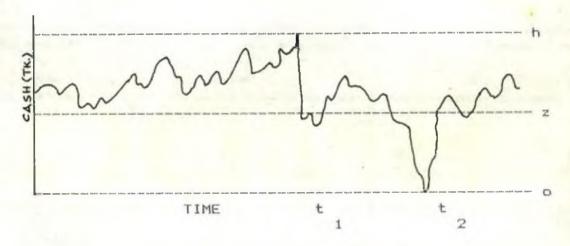


Fig. 2 Miller-orr-Model.

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 12 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:

where b = fixed costs associated with security transactions

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:

- 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 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
- (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
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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.
- 16. J.C.Van Horne(1985) Financial Management & Policy, Prentice Hall of India pvt. Ltd., p700..
 - 17. E.R.Walker & W.H. Baughn(1761) 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 the 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 debt to net worth, cost breakdown ratio, inventory current 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 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.

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 management as

- (i) a selection of the appropriate 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.

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^{23.} 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 Planing 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

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	No. 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	1 1	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 Frofit & 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

P. p. 94-99

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			No. of Spindles operable capacity	*/.
1. a. Monno Textiles	15744		10615	
(old) b. Monno Textile	12500		7191	
(new)				
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 Mills	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 Publication, 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.

- i. 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. An 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, EQQ 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 presessioned 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 Eank of India.

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

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

Years	JUTE MILLS			Average of three mills	
	LBJM	BJM KJM		NEJM	
1981-82	84.90	84.69	78.02	82.54	
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	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

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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		JUTE MILLS		Average of three mills
soudd dellan yngon wyddi whodd ddiad bddid ddilli'' ''ngo	LBJM	KJM	MEJM	
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
198485	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 1.29 times as against a turnover of 2.54 times in the mills of India during 1977-88. The average turnover of Working Capital should be 1.81 on the basis of reasonable current 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		JUTE MILLS		Average - of three
LBJM	LBJM	KJM	NBJM	mills
1981-82	65.94	60.10	59,50	61.83
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
1785-86	75,63	66,45	<i>45.78</i>	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 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 all the mills was 65.32. Thus we find that in all the cases the percentages of inventories to Working Capital are very high naturally it could be infurred that, because of the high percentage of investment in inventories, a considerable fund 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	кам	ИВЈМ	mills
				1
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	12.0	14.88	17.76	14.91
of six yr	·s.			

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).

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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
many years make additional thirty pages were many pages	LBJM	KJM	NEJM	mills
1981-82	32.90	39,32	36.88	36.37
1982-83	31.61	36.99	29.30	32.63
1983-84	30.31	25.17	37.98	31.15
1984-85	23.51	23.37	28.50	25.13
1985-86	24.09	30.03	33.13	29.08
1986-87	29.37	39.73	40.54	36.55
Average	28.63	32.26	34.39	31.82 /
of six yr	-6.			

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

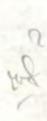
the Government for pressure of union and social leaders, some of them have become political leaders. Sometimes, management are helpless to realise advances. The indiscipline in case of strong action, means gheraow of the senior enterprise executives.

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	ery over takk tikk tikk filsk filse plin plin man dept pen nam nem pan .	Average
	BJM	KJM	MECH M	mills
981-82	1.16	0.59	3.62	1.79
982-83	1.25	3.45	2.49	2.40
983-84	0.77	1.18	2.24	1.40
984-85	0.66	0.36	3.00	1.34
985-86	0.83	3.52	1.09	1.81
986-87	0.76	5.09	3.63	3.16
Average	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 dost of Production in the Jute mills during 1981-82 to 1986-87.

Years		JUTE MILLS		Average of three
	LBJM	KIM	NEGM	mills
1981-82	6.61	4.58	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
of six y	rs.			

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

N. /		JUTE MILLS	3	Average of three
Years	LBJM	KJM	мвам	mills
	olli velisi ilisel 1900 ilisel essa sitti prop even pult perili sa	a angan sepan paman kaman malah masan dilalah perdik lalah sepan yanya masan pelap angan se	and these purps there have been some think them had been some over the state of	re have place promo meda dedd blake halls with 1979 1980
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
198485	1.41	1.43	0.54	1.13
1985-86	1.40	1.59	0.52	1.17
1986-87	1.73	2.49	1.97	2.06
Average	1.91	1.82	1.73	1.82
of six y	"5.			

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

Years	JUTE MILLS			Average - of three
	LBJM	KJM	МЕДМ	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	0.68	0.99	0.85
Average	1.37	0.86	1.43	1.22
of six y	rs.			

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, 3 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		JUTE MILLS	The state was also and and add that the state the true are also also also	Average - of three
	LBJM	KJM	NEAM	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 yr	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 // Mat. cost	%	Lab. cost	% Prod. overhead	% Admn. Expn.	% Selling Expn.	Total
1982-83	39.34	27.80	14.80	1.63	2.71	To be the state of
1983-84		30.98	12.92	1.55	2.38	
1984-85		29.15	11.27	1.15	1.76	\
1985-86	39.00	36.00	6.20	2.26	1.75	1
1986-87	39.58	39.66	15.36	1.39	1.79	5
Average	46.45	32.78	12.11	1.87	1.87	

Years	polit signi film what avent have been some some these have been some some these have been some some these have been some the hard th							
	Mat. cost	% Lab. cost	% Prod. overhead	% Admn. Expn.	% Selling Expn.	My.		
1982-83	34.22	25.30	15.46	1.80	4-21			
1983-84	37.74	29.21	11.84	1.69	3.25			
1984-85	54.98	26.11	8.91	2,52	1.97			
1985-86	35.95	32.37	10.57	3.28	2.35			
1986-87	39.35	45.88	14.78	3.22	3.76			
Average of 5 vrs.		31.78	12.31	2.50	3.10			

Years					ALL THE THE PERSON NAMED AND ADDRESS OF THE	
	7.	1/4	%	%	7.	100
	Mat. cost	Lab. cost	Prod. overhead	Admn. Expn.	Selling Expn.	C.0124
1982-83	37.81	37.16	8.13	7.07	2.30	
1983-84	38.66	36.69	26.00	NA	2.78	
1984-85	34.42	28.14	23.43	NA	1.74	
1785-86	36.86	32.57	11.24	2.32	1.98	
1984-87	38.30	38.75	14.98	MA	2.31	
Average	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 questionnaire 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 Rangladesh 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 exeucitves, 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 40-50 " 50-60 "	3 8 1
60 yrs. over	None
Total	7 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	Fercentage
1. Agree	9	75.00
2. Strongly agree	sun, Scir	17.00
3. Disagree	1	8.00
4. Strongly disagree	None	-
5. Undecided	None	
Total		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
1. Agree 2. Strongly agree 3. Disagree 4. Strongly disagree 5. Undecided	9 1 2 None None	75.00 8.00 17.00

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	2	16.66
3.Disagree	any.	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 Re	spondents	Total frequency	Percentage
1. Agree		7	58.33
2. Strongly A	gree	1	8.33
3. Disagree		4	33.34
4. Strongly o	lisagree	None	None
5. Undecided	744	None	None
Total	us de de la marier y de la partira present space unique à l'étile décide une	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.

The findings show that majority of the respondents 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.

6	50.00
3	25.00
1	8.00
None	None
200	17.00
the party state that the party to see and the party party to the party of the party	many provide played bearing that the trippy about the state provide states desired from more married which
	Total Frequency 6 3 1 None 2

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
 Agree Strongly agree Disagree Stronghly disagree Undecided 	6 5 1 None None	50.00 41.66 8.34 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.

Take in lake

Year	Total debt	Total equity	Debt equity ratio
would believe section from compact than twee young about hance	THE TARK MAIN WHILE ARE AND A THE PERSON WHEN WHEN MINN MANY WHEN ASSESS AND ASSESS AND	many alphile affect hands that there are reprint which first their mean some state and well	p secure \$14.56 holds holds below two street street street street street street secure secure densire densire densire black black street black and black served
1982-83	11759.41	7438.23	61:39
1983-84	11075.43	7026.93	61:39
1984-85	16295.99	(3895.21)	Negative
1985-86	15122.47	(12613.32)	Negative
1986-87	16057.24	(29649.17)	Negative
puris more work still were able to be very own were state.	ARREST SANSON SANSON NAMED AND ADDRESS OF THE PARTY SANSON	there will build \$165 \$746 divid think may ame and apply apply there are a good to the same of the sam	who said and area and have also have also have also area and and also area and also area and also area.

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	7	58.33
2. Strongly agree	3	25.00
3. Disagree	1	8.33
4. Strongly disagree		_
5. Undecided	1	8.34
Total	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	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 poltical 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	6	50.00
2. Strongly agree	1	8.33
3. Disagree	4	33,34
4. Strongly disagree	1	8.33
5. Undecided		THE PART THE WAS STORY THE STORY STORY STORY SAME AND AND ADDRESS OF THE PART AND
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	-	-
4.Strongly disagree	-	-
5.Undecided	-	-
don't filled belok town byne land twee from print print print print man total wing done done town from from twee from twee toke their spin pays [8] [7] [7].	along under admit which helps I have been never nearly added have been been been under which which which	a most which have some more total and is under assist for his blood back. While there were
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.

Op	inion of respondents	Frequency	Percentage
1.	Minimum level	4	19.08
21	Maximum level	2	9.52
3.	Re-order level	8	23.80
4.	Economic order quantity	1.	4.76
	Perpectual inventory system	n 2	9.52
	ABC analysis	3	14.28
7.	Inventory Audit	3	14.28
	Standardisation and variety	/ 1	4.76
9.	Others	Hame	-
To	tal	and which were some state that we will be some some some state 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)

Maximum period	Raw	Materi		dork-in- proces		insihed pods	1	Stores		
							L	ocal	Imp ted	or-
tage type transmiss some season about balls being their	req.	7.	Freq	the restrict warm street block track before	Freq.	1 (1) (1) man	Fr	eq. %	Freq	. %
0-10 days			6	60.00	40-1	-	-	_		PROFE .
10-15 "	2	20.00	4	_	_	Ad PMI	19 016	-	44	-
15- 1 mont	h -	_		_	6	_	_	-	•	_
1- 2 month	5 3	30.00	_	40.00	4	60	9	90.00		10.100
2-3 "	4	40.00		_	_	40	1	10.00	3	-
3 -4 "	Phillip	_	_	****	-	a banda				_
4 - 5 "	*****		-	*****	_	-	*****	******	-	-
5-6"	1	10.00	_	no plie	-	_	-	1400	7	_
Over 6 "	5.	-	-	den.	-	-	-	-	-	-
Total	10	100	10	100	i0	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.

Opinion of respondents	Frequency	Percentage
1. Affirmative		75.00 25.00
2. Negative		taken data tapa yang tana dalah kalah kalah kalah dalah birah birah birah kata sarah maga maja dalah birah b
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	which field which filled (FPM SEER Speer prive prive short since swife world around high yield with filled (FM SPM SPE	60.00
1 - 2 months	2	20.00
2 - 3 months	2	20.00
3 - 4 months	-	-
4 - 5 months		-
5 - 6 months	med .	-
Mind both from white white agent to set of since that have rather much white where where where where the since	to be now about another besides the state of the control better the control better the control of the control o	AND MANUAL SERVICE SERVICE STORMS STORMS STORMS STORMS AND ADMINISTRATION ARROWS ARROWS AND ADMINISTRATION OF THE PERSON AND ADMINISTRATION ADMINISTR
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 2. Negative	8	100.00
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 respondnets 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

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.

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

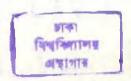


Table 5.28 Percentage of Working Capital to total capital employed in the selected public sector cotton textile mills during 1982-83 to 1986-87

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
1785-86	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 1982-8% to 1986-87

Years	Monno(old)	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	54.45	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 5.32 Percentage of Stores & Spares inventory to aggregate inventory in the selected textile mills during 1982-83 to 1986-87

		and the property of the same state and the same page and the same state after the	t their many hand make haber with many have tamps myng propin	that their close takes have have don't wond more more representing their speed many party with
Years	Monno(old)	Quaderia	Satrang	Average of three mills
1982-83	49.44	60.30	54.03 33.70	54.59 39.12
1983-84 1984-85	21.55	62.15 55.41	26.16	48.35
1985-86 1986-87	54.40 63.74	67.83 47.34	49.74 59.06	57.32 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. In 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 P's of sound procurement policy. An industrial enterprise shoold purchase right quantity, at right quality, right time, at the right price and from the right source. On 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

Category

of Items

Δ

B

C

Total 13.7

From the T
spares inve
covers an am
lakh consti
percentages
textile mil
percentages

				ca in la	
1.	Monno(old) Textile mills interest on Tk.91.73	s @ 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	
		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 1982-83 to 1986-87

And the last test test test test test test test t	the same time that the same time to the same time time time time time time time ti		NAME AND POST OFFI ADDRESS OF THE PARTY AND POST OFFI ADDRESS OF THE PARTY AND PARTY.
Monno (old)	Quaderia	Satrang	Average of three mills
48.34	48.41	23.86	40.20
32.43	35.22	28.12	31.92
36.57	29.72	20.96	29.08
50.57	43.29	31.04	41.63
70.76	48.29	36.22	50,03
47.73	40.98	28.04	38, 57
		and the same will also seen to see the same and the same also	of training pages proper security district states about physical security country of the country
	48.34 32.43 36.57 50.57 70.76	48.34 48.41 32.43 35.22 36.57 29.72 50.57 43.29 70.76 48.29	48.34 48.41 23.86 32.43 35.22 28.12 36.57 29.72 20.96 50.57 43.29 31.04 70.76 48.29 36.22

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

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	Monno(old)	Quaderia	Satrang	Average of three mills
1982-83 1983-84 1984-85 1985-86 1986-87	23.08 14.28 25.13 23.87 36.80	4.05 3.13 2.57 3.95 12.21	4.46 8.31 7.32 14.57 16.52	10.53 7.57 11.67 14.13 21.84
Average of 5 yrs.	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 Percentage of Cash to Working Capital (current assets) in the selected public sector cotton textile mills during 1982-83 to 1986-87.

Years	Monno(old)	Quaderia	Satrang	Average of
				three mills
1992-83	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 Percentage of net 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
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	21.51	(15.57)	(82.90)	(25.65)
Average	15.03	(7.12)	(53.31)	(14.88)
of 5 yrs				

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

Years

Mat

1982-83 63.1 1983-84 62.4 1984-85 74.1 1985-86 55.1 1986-87 44.1

Average 60.3 of 5 yrs.

The above to in the select administrat: period. Thought 11.: percentage of

in seclected over expend:

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

Opinion of respondents	Frequency	Percentage
1. Agree	ES CONTRACTOR CONTRACT	50.00
2. Strongly agree	3	18.75
3. Disagree	4	25.00
4. Strongly disagree		-
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.

The state that the first state and the state and the state and the state that the state that the state and the state and		was park and along your part state from home were made triple than how some than ones were made
Opinion of respondents	Frequency	Percentage
1. Agree 2. Strongly agree 3. Disagree 4. Strongly disagree	6 6 4 -	37.50 37.50 25.00
5. Undecided Total	alone and the same and the sam	100.00
the same and that the same sale and the control of the sale and the control of th		

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

Opinion of respondents	Frequency	Percentage
. Affirmative ?. Negative	10 2	83.33 16.66
Total	s after some error setter spring error state state state state error error error, error, error, error, error, LL	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 management were critical about the procurement by the 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 operation with different relevant ministries.

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		Fin <mark>sihed goods</mark>		Stores & spares	
	Frequency	Percentage	Frequency	Percentage	Frequency	Percentage	Frequency	Percentage
0- 15 days		para papag alijah papa dajad gamb liam ajadi kabat zambi ibida ilian-	477	95.71	THE WHI SHE HAS been place and the paper dust proper past over	many space driven arms grant ways arms make space grown which draw while		
Ø - 1 month	2	20.00	1	14,29	8	87.00	4	33.33
1 - 2 months	2	20.00					2	16.67
2 - 3 months 3 - 4 months	6	60.00			1	11.00	6	50.00
4 - 5 months 5 - 6 months Over 6 months								
Total	1.0	100.00	-y	100.00	9	100.00	The state and th	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-inprocess 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 respondnets 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	12	100.00

In a reply to a question, whether the centralised buying of raw cotton by RTMC 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. 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 by the management 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 operation 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 2. Negative	6 2	2 6	75.00 25.00	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. the national context, such a comparison between public and 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 81.57 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.

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 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 study during the respectively 28.92 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 mills during 1982-83 to 1986-87.

design all till comme report formed delical process follows function or	FUELIC	SECTOR JUTE MI	LLS	
Years	LEJM (big mill)	KJM (medium mill)	NBJM (small mill)	Average of three mills
1982-83 1983-84 1984-85 1985-86 1986-87	86.37 81.25 87.12 92.45 90.97	85.33 88.79 90.70 88.05 84.63	79.36 85.06 91.08 92.53 93.00	83.49 85.03 89.43 91.01 89.53
Aveage of 5 yrs.	87.63	97.50	88.20	87,79

	PRIVAT	VATE SECTOR JUTE MILLS		
Years	CJMC Ltd. (big mill)	VJF 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	95.59
1986-87	90.36	79.40	90.10	86.62
Aveage of 5 yrs.	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		C SECTOR JUTE MI	LLO	
	LEGM (big mill)	KJM (medium mill)	NBJM (small mill)	Average of three mills
1982-83	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
1986-87	1.70	2.49	1.97	2.06
Aveage	1,91	the date Card course and the course of the c	1.73	1.82 7

	PRIVAT	E SECTOR JUTE M	IILLS	
Years	CJMC Ltd.	VJP Ltd.	NJM Ltd.	Average of
	(big mill)	(medium mill)	(small mill)	three mills
1782-83	2.55	0.61	2.33	1.83
1783-84	2.09	0.48	1.59	1.38
1784-85	2.49	3.37	2.46	2.77
1785-86	2.23	4.29	1.71	2.74
1786-87	2.40	2.19	2.95	2.51
Aveage of 5 yrs.	2.35	2.18	2.21	2.25

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				
1.13.	LBJM	KJM	MEJM	Average of
	(big mill)	(medium mill)	(small mill)	three mills
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	66.45	65.78	69.29
1986-87	69.88	55.18	55.82	60.29
Aveage	71.64	62.86	63.53	65.95

Years	CJMC Ltd. (big mill)	VJP Ltd. (medium mill)	NJM Ltd. (small mill)	Average of three mills
1982-83	30.97	65.33	67.61	54.63
1983-84	70.49	72.12	63.61	68.74
1984-85	73.44	73.20	63.84	70.16
1985-86	75.58	64.86	61.30	67.24
1984-87	68.33	75.40	49.05	64.26
Aveade of 5 yrs.	63.76	71.16	61.08	65.0 9

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	migdy about paids named bearing pasted speed (Speed Smith MESS 1819) 1979 FETT 18	C SECTOR JUTE MI	to \$4544 \$1554 MINIS Miles Street broad water mean water proce mean season makes	or process makes about Alling Allin Autor (Mad 2210) TITLS FITTS TOTAL TOTAL		
	LBJM (big mill)	KJM (medium mill)	NBJM (small mill)	Average of three mills		
982-83	31.61	36.99	29.30	32.63		
783-84	30.31	25.17	37.98	31.15		
984-85	23.51	23.57	28.50	25.13		
985-86	24.09	30.03	33.13	29.08		
986-87	29.37	39.73	40.54	36.55		
Aveage of 5 yrs.	27.77	31.09	33.89	30.90		

Years				
	CJMC Ltd.	VJP Ltd.	NJM Ltd.	Average of
	(big mill)	(medium mill)	(small mill)	tutee wills
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
1984-87	27.48	19.32	43.28	30.02
Aveage of 5 vrs.	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	Miles Adda Adril Agric repris very what terms array arise after Adda 2006 2006	Total group around record study, budgle banded warmen record warmen warmen warmen warmen banded studied group to the principle of the studied warmen banded		
	LEJM (big mill)	KJM (medium mill)	NBJM (small mill)	Average of three mills
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	14.91
Aveage of 5 vrs.	11.92	13, 91	16.72	14.63

Years	PRIV	VATE SECTOR JUTE MILLS			
	CJMC Ltd. (big mill)	VJP Ltd. (medium mill)	NJM Ltd. (small mill)	Average of three mills	
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	16.90	6.16	11.82	11.62	
Aveage	16.60	8.02	\$ 55 9	9.67	
of 5 yrs.				9	
	name and another many points delice delice and ready point point point.		me some block black start start years made made to be some made plant blim	. MAIN AND DAY THE THE THE THE THE THE THE	

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	rusti	C SECTOR JUTE MI	, Same Barre Gard 10 april 1984 paper paren sangan anna anna anta-anjar anna 2004 pagan anna 2004	og har hand storm norm make ment spine proof sinke bet in 1868 1897
	LBJM (big mill)	KJM (medium mill)		Average of three mills
1982-83	1.25	3.45	2.49	2.40
983-84	0.77	1.18	2.24	1.40
984-85	0.66	0.36	3.00	1.34
1985-86	0.83	3 32	1.09	1.81
1986-87	0.76	5.09	3.63	3.16
	0.85	2.72	2 , 49	2.02/

V	PRIVA	RIVATE SECTOR JUTE MILLS			
Years	CJMC Ltd. (big mill)	VJP Ltd. (medium mill)	NJM Ltd. (small mill)	Average of three mills	
1982-83	1.00	4.26	0.72	1.99	
1983-84	2.60	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	
Aveage of 5 yrs.	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.

/ears		and fields become doors whose steam bloom return return terror traver traver more above above above and probabilities.	all access hatter represent the separat applied a small height number of the action where we had	
	LEJM (big mill)	KJM (medium mill)	NBJM (small mill)	Average of three mills
1982-83	(14.18)	12.02	12.01	3.28
983-84	(6.32)	(1.85)	18.59	3.47
984-85	(2.47)	(19.71)	13.66	(2.84)
985-86	(6.64)	(15,99)	(6.63)	(9.75)
1986-87	1.15	(8.18)	(18.25)	(8.43)
Aveage of 5 yrs.	(5.69)	(6.74)	3.87	(2.85)

Years	nemy about money beans seeme purchy money \$1000 from \$1000 pilot harts of	and over over the later time to be stopped to the s	a plane comp name more time over your group group value when other some	
akees man on you program blogs, amad 18005 (mile)	CJMC Ltd. (big mill)	VJP Ltd. (medium mill)	NJM Ltd. (small mill)	Average of three mills
1982-83	(10,41)	(32.74)	(128,58)	(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 of 5 yrs.	(38.03)	(53.23)	(83,31)	(55.55)

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

rs.		L.E.	JM					KJM					NBJM			
	1/.	1/2	%	7/4	7/2	2/11	7.	1/4	7.		%	7.	1/.	%	1/4	%
	Mat.	Lab.	Over	Admn	Sell	Mat.	Lab	Ove	er Ad	m. S	e11.	Mat.	Lab.	Over	Adm.	Sell
	cost	cost	head	ехр.	exp.	cost	cost	hea	ad ex	9 6	жр.	cost	cost	head	ехр	ехр.
			cost					CC	ost					cost		
1982-83	39.34	27.80	14.80	1.63	2.71	34.	22 25	. 38	15,46	1.80	4.21	37.81	37.16	8.13	7.04	2.0
983-84	78.92	30.98	12.92	1.55	2,38	37.	72 29	.21	11.84	1.69	3.25	38.66	36.69	26.00	duqua	2.78
784-85	35.43	29.15	11.27	1.15	1.76	54.	98 26	11.	8.91	2.52	1.97	34.42	28.14	23.43		1.74
785-86	39.00	36.00	6.20	2.26	1.76	35.	95 32	.37	10.57	3.28	2,35	36.86	32.57	11.24	2.32	1.98
985-87	39.58	39.46	15.36	1.39	1.79	39.	35 45	. 88	14.78	3.22	3.76	38.30	38.75	14.98	1486	2.3

Yrs.		CJ	MC LTD.			VTF	LTD.				N.	IM LTD.			
	% Mat. cost	% Lab. cost	% Over head cost	% Admn exp.			Lab 0 cost h	ver A		% Sell. exp.		% Lab. cost	% Over head cost	% Adm. exp	% Sell. exp.
1982-83 1983-84 1984-85 1985-86 1986-87	51.90 86.68 33.82	35.87 28.37 36.23	19.45 25.27 17.18 24.23 25.27	0.66 0.31 4.24	0.81 0.55 0.72	49.33 77.63	31.28 28.78 35.53	32.44 12.68 16.30	5.99 3.66 4.95	0.58 0.62 0.71	49.51 63.35 46.37	17.54 33.61	38.36 27.85 27.37 37.77 32.99	3.Ø4 2.45 3.57	1.26

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.

		<u>HESSIAN</u>		
	Cost	Export earning	Gap(Tk.)	%
BJMC BJMA	25720 29209	21329 21788	4391 7421	17.1 25.4
Average	27465	21558	5906	21.5
		SACKING		
BJMC BJMA	14802 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

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 Cost	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		
BJMC BJMA	14772 14861	14623 14168	149 693	1.0
Average	14817	14395	422	2.8
		C.B.C.		
BJMC BJMA	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		Sacking	CI	BC
	BJMC	BJMA	BJMC	BJMA	BJMC	BJMA
Raw jute	7118	7911	5196	5480	8395	10653
Other Mat.	701	525	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
Power	1446	1112	631	416	1677	1231
Interest	1063	1415	437	694	1565	1932
Others	1443	1519	698	736	2223	2346
	21748	21886	13830	13114	25526	25440

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

Table 6.9 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

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 picture between the selected public vs private sector cotton spinning mills disinvested to private sector from public sector after the new Industrial policy of 1982. Table 6.12 to 6.24 highlights the comparative findings of both public private sector cotton textile mills during the period from 1982-83 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 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 1782-83 to 1986-87.

	Monno (old)	Quaderia	Satrang	Average of three mills
982-83	4.38	4.18	1.75	3,44
783-84	2.21	2.34	1.32	1.96
984-85	1.14	1.17	3.31	1.87
985-86	2.32	3.13	1.95	2.47
986-87	4.28	2.96	1.95	2.83
 lverade	3.74	2.77	1.92	2.51

Years		PRIVATE SECTOR TO	EXTILE MILLS	6
1 6, 611	Ashraf	Chand (spinning)	Raz	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 of 5 yrs	1.66	1 67 1	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.

Years				
	Monne(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
198485	63.32	62.55	50.81	58.79
1985-84	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	48.44	47.44

	PRIVATE SECTOR TEXTILE MILLS						
Years	Ashraf	Chand (spinning)	Raz	Average of three mills			
1982-83 1983-84 1984-85 1985-86 1986-87	80.55 87.82 62.13 70.91 59.21	48.74 49.76 51.69 59.21 55.62	67.58 77.99 78.72 84.80 58.70	65.62 71.85 64.18 71.64 57.84			
Average of 5 yrs	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
1994-95	36.57	29.72	20.96	29.08
1985-86	50.57	43.29	31.04	41.63
1986-87	70.76	48.27	36.22	50.03
Average of 5 yrs	47.73	40.98	28,04	38.57

M		PRIVATE SECTOR TEXTILE MILLS								
Years	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						
1986-87	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 1782-83 to 1786-87.

-bible plane Spring larger space comes shown against eq.	PUBLIC SECTOR TEXTILE MILLS								
	Monno(old)	Quaderia	Satrang	Average of three mills					
1982-83 1983-84	23.08 14.28	4.05 3.13	4.46 8.31	10.58 7.57					
1984-85 1985-86	25.13 23.87	2.57 3.95	7.32	11.67					
1986-87	36.80	12.21 	16.52	21.84					
Average of 5 yrs.		0.10	IV. J£	A to 8 d. T					

anne pront autor delle delle pièce alles anne				
	Ashraf	Chand (spinning)	Raz	Average of 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	5.75
Average	3.52	15.09	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.

	PUBLIC SECTOR TEXTILE MILLS							
Years	Monno(old)	Quaderia	Satrang	Average of three mills				
1982-83	11.11	14.71	34.11	19.97				
1983-84	7.50	17.61	17.00	14.33				
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				

		PRIVATE SECTOR TEXTILE MILLS								
Years	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	PUBLIC SECTOR TEXTILE MILLS								
	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)	(53,04)	(22.22)					
1986-87	21,51	(15.57)	(82.90)	(25.65)					
Average of 5 yrs	15.08	(7.12)	(53.31)	(14.88)					

Years	and the time and the time to be been also been		payer purply player and make their man come profit which falled man	the state of the same and the same and the same same same same same same same sam
	Ashraf	Chand (spinning)	Raz	Average of three mills
1982-83	1.14	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 of 5 yrs	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.

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.

				PUBLIC	SEC	TOR CE	TTON I	MILLS_							
Yrs.		MONI	NO				QUA	DERIA			Si	ATRANG			
	% Mat. cost	% Lab, cost	% Over head cost	% Admn exp.			% Lab cost	% Over head cost	% Adm. exp	% Sell. exp.	% Mat. cost	% Lab. cost	% Over head cost	Z Adm. exp	% Sell. exp.
1982-83 1983-84 1984-85 1985-86 1986-87	62.67 74.72 55.91	16.77 19.97 28.05	10.03 10.73 11.72 10.31 11.63	3.36 4.28 7.82	-	67.58 71.10 51.03	11.07 18.22 20.25	11, 16 24, 26 12, 63 12, 71 15, 14	5.02 19.00 14.99	MARIE PETER PLANE ARREST MANAGE ARREST ARRES	75.73 62.14 52.38	14.39 16.03 18.87	20.63 11.64 11.09 9.75 13.67	17.57 18.34 17.68	7 - 1 - 3 -
Average of 5 yrs		21.10	10.88	4.94		62.16	17.30	15.18	11.95	The state of the s	50.78	17.18	3.35	14.61	51110

			1	PRIVA	TE SEC	TOR CO	TTON I	1ILLS							
Yrs.	ding rotal billion listing bland stripy return	ASHR	AF				CHA	AND	(0000 Air Air 2000 Million A	diddin philips driving 5 Spiris British philips while	Ri	AZ			
	% Mat. cost	% Lab. cost	% Over head cost	% Admn exp.	% Sell exp.	Mat. cost	% Lab (cost H		% Adm. exp	% Sell. exp.	% Mat. cost	% Lab. cost	% Over head cost	% Adm. exp	% Sell. exp.
1982-83 1983-84 1984-85 1985-86 1986-87	59.56 47.87 30.00		10.32 9.20 7.30	8.59	0.05 0.03	57.32 63.99 56.01	12.78	3 15.9 7 14.2 8 10.7	3 2.5° 3 3.5° 7 3.5°		63.49 62.99 68.85	10.71 11.43 15.11 21.44 20.42	12.96 12.49 11.96	10.75 11.75 12.68	5 0.05 5 0.08 5 0.14
Average of 5 yr		13.38	9.81	2.71	0.01	58.55	15.98	3 14.1	7 2.8	5 0.02	62.89	15.78	12.31	11.72	2 Ø. 11

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 Comparative efficiency test trhough X between 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.

6.19 Lack of Inventory Management Policy

Table 6.24 showing observed and expected frequency

Jute mills	Agır	EE	Disagr	Total	
	Observed	Expected	Observed	Expected	
public	10	10.11	apply total house about some house house and the state some state and the state some some some some some some some som	1,89	12
Private	= 6	5.89	1	1.11	7
Total	16	16	about finder to cold belook distant survey bloom filled plate 1954 blook filtred town	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		

 χ = 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 mills	Agree		Disagree		Total
	Observed	Expected	Observed	Expected	
Public	10	10.00	2	2.00	12
Privato	e 5	5.00	1	1.00	6
Total	1 100	1 KJ	magness agreemed School School School Statistic Statistic Statistic Statistic Statistics	and the state of t	18

In this case, $\frac{0}{---}$ table will be the same as the above one. So X=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 mills	Agree		Disagree		Total
	Observed	Expected	Observed	Expected	
Public	£3.		4	which there is a single prior and a single and approximate the single and $rac{1}{4}$	1.2
Private	4	4	2	2	6
Total	12	A Address to the state of the s	6	5	18

2 0 Table showing --- same as above. So X = 0 E

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		Total
	Observed	Expected	Observed	Expected	
Public	10	9.43	i	1.57	11
Frivate	2	2.57	1	0.43	3
Total	12	12	2	2	14

Cotton mills	3 months	6 months	Total
Public	10.60	0.64	11.24
Private	1.56	2.33	3.87
Total	12.16	2.97	15 . 15

$$Z$$
 $X = 15.13 - 14 = 1.13$ 3.84

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
	Observed	Expected	Observed	Expected	
Public	6	6.15	4	3.85	10
Private	2	1.85	1	1.15	ؿ
Total	fig.	page page maps death about high street grown many moves street death or	Law, Server	Finds Card	13

2 0 showing calculation of -E

Cotton mills	1 month	6 months	Total
Public	5.65	4.16	10.01
Private	2.16	0.87	3.03
Total	8.01	5.03	13.04
and with the state of the state			high dance & make another species and a second make a second and a second make a secon

$$\begin{array}{rcl}
2 \\
X &=& 13.04 - 13 &=& 0.04 & 3.84
\end{array}$$

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	Upto 10 days		Upto 20 days		Total
	Observed	Expected	Observed	Expected	
Public	5	5. 33	3	2.67	8
Private	3	2.67	1	1.33	4
Total	1919 - Amerika derika d	E)	4	A A A A A A A A A A A A A A A A A A A	12

Cotton mills	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
arment amount highly highly bloom by party bloom before the minist have a bings step of	g should believe before 1999s proper gat in 1995, oppin part moves sensor extent stand finder modes in	daga mpuny mbuun ebusin didahi. Midik didah didah kadide pengan pengan yegitan yegara apuman yanadi sasun musuk dumum didahi d	Held Staff (1974 hits) Mayy proms never sized SM-** OF LH SORM SHIPS Appear by May Mark 13484

$$Z$$
 $X = 12.19 - 12 = 0.19$ 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 everage 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 public 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 immeddate 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 nbe 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.

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- (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

 Personnel 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 mangement 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.
 and
- (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

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:

Table 7.1 Suggested Model for Inventory Recievables and Cash.

INDUSTRY	mme vand kleid klein bild weep at an over over more self from a	may and may find the first	Receivab maximum period	165	Cash for maxi. period.			
the real plant long like at the Last land	Raw mat. holding for maxi. period	Work-in- process for maxi. period	Finished goods for maxi.period			Local (xport sales	
Jute	9 months	1/3 rd month or 10 days	2 months	2 months	6 months		2 month	1/3rd month or 10 days
Cotton Textiles	4 months	1/2 month or 15 dats	1 month	3 months	6 months	1 mont	No n export sales	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 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. 829 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. 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 jute 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 Take 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 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 respecitively 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 shortage 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
(j)	Inventories	Tk. 2229	at	14%	 312.06
(ii)	Receivables	Tk.1866	at	14%	 261.24
	Total	1 11			.578.30

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)
- (iii) Net profit/(loss) of Nabarun jute
 mills during 1982-83 to 1986-87 = (90.46)

 Total accumulated Net loss as per actual =(Tk.1155.92)

Less: Savings out of interest income + 573.30 out of excess inventories & receivables

Accomulated Net loss as per model (582.6%)

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

	Tk. in lakh
(i) Total cash flows of Latif Bawany Jute mills (big mills) during 1982-83 to 1986-87	(4.96)
(ii) Total cash flows of Karim jute mills	(747,42)
(iii) Total cash flows of Nabarun Jute mills	(443.37)
Actual Total accumulated cash flows	(1195.75)
Add: Savings out of interest income on excess inventories, receivables	57-3.30
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
		paggar demaga. Makadi kapalif amagidi bibada (n-pagy phoping mangga ngadan (gettin magidi.
(i)	Net profit/(loss) of Monno(old) Tex. Mills during 1982-83 to 1986-87	= 177.12
(11)	Net profit/(loss) of Quaderia Tex. mills during 1982-83 to 1986-87	= (29.51)
(iii)	Net profit/(loss) of Satrang Tex. mills during 1982-83 to 1986-87	= (31,56)
	accumulated Net profit/(loss) ee mills as per actual	= Tk.116.05
Lessi	Savings out of interest income on	119-29
excess	s inventories, receivables and cash	
Tk. 23	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
	and a state a stree dead of the 1949 from the state deads \$10.0 from a
(i) Total cash flows of Monno(eld) Tex. mills during 1982-83 to 1986-87	40.17
(ii) Total cash flows of Quaderia Tex. mills	(505.60)
(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. 2227 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 pilferage 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. 621.33 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.

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ELLIR 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.

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Table 7.2.1 Estimated required inventories as per Model ane excess inventoires actually held during 1992–83 to 1986–87.

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KARIM JUTE MILLS (MEDIUM MILLS)

Table 7.3 Showing the estimated maximum inventories requirement as per the suggested planning 1986–87.

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

Tk. in lakh

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

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Table 7.4.1 Estimated required inventories as per Model ane exc<mark>ess inventoires actually</mark> held during 1982-83 to 1984-87.

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

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

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	(I (sm2) Mt	NB	(mulbed) Mt>	1	,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,	Big) Mcs	[7]	THE PART NAME OF STATE STATE	Xears

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 1986-87.

New Services		AA92		STORE	(\I)	SCOOR	SHED 6	FINIS	(F F		SSEC	IN -PRC	MOEK-	(33)	noore nyspe mumo peakli filiali filiali filiali		JAIRBTA	M WAA	(I)
				1983	1987	9861	1985	1984	1882	Z86 T	9861	9861	1984	1983	1987	9861	S86 I	7861 £	861
z	Z	Z	Z	Z	۷t	₩S.	25	84	6tz	12	ØZ	18	SI	ΣĪ	22	Σ8	Στ	ŧΩ	4v. mon- 35 thly req-
wyx	7 ×	m9 x	wy n	w9x	İx	1.4	£ 36	1 %	ľ×	1	1.	1	1	}	₩ † 7 ×	77	x wbx	wyn	irement Yax.
mex	m w	NICA V	ы⇔к	11165 34	T 12	7.0	F 14	* 0	# V	2.	2	2	2	2	Uldo V	Ш 17	V 1114s V	Wex	po pe
21	12	12	21	21	Z#	₩S.	7.5	84	6 1	2 . Q I	Øī	6	G*Z	5*9	26	91	I ZZI	921	qezid 32 bek = 140 Gred on
																			pa Japou

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

=Tk.373.5 lakhs	(((Dhaka University Institutional Repository	G ⁿ Z6		Excess/(shortage) of Inventories
	125	<u> </u>	6 7 9	192	421	scrnally held
was and and the same why they they was and bing him and	5°1/1	Z61		5*291		Total I nventories as per model
	21	Zī	21	21	Zī	sameds & samods (vi)
	Z S	₹7 <u>E3</u>	ZG	84	6t	sbood badainia (iii)
	2.01	81	6	<u> </u>	<u>s</u> • 9	esepon4-ni-AhoW (ii)
	26	911	772	921	Ø+1	Leimetem wsp (i)
	Z861	9861	. 9861	4861	1982	INVENTORIES
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BUSHA TEXTILE MILLS

Table 7.8 Showing the estimated maximum inventories requirement as per the suggested planning .85-87. and the excess inventories held(through backward projection) during 1982-83 to 1986-87.

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																			-6;sap
SI	12	12	12	12	62	ØS	38	74	96	6	9 '8		2.9	9.8	t8	86	72	1 041	Obje Jad se
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ш9к	9 x	max.	W9x	ш9к	7 X	TX	1.8	Ix	IX	P-4-	p.4-	D	p.4	P-L-	mA	x m4	x 而争	K Wyx	max borrac
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Z	Z	Z	2	2	.62	ØS	28	14	917	81	41	41	21	11	12	22	12	Ta &	25 -non .v4
7891	9861	9861	1984	1983	4861	9861	9861			1861	9861	1985	1984	1982	Z861	9861	9861	4861 Σ	861
4- d- p- g- g- 1001 1			GNA S						(iii)			IN -PR	MORK-	(;;)	a mappy and of their state above starry	may also place hills made the	TERIAL	AM WAR	(I)

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

excess stock held						of Inventories
=Tk.206.5 lakhs	# I	G*₩Z	502	5 * 9 £		(agetrode)\esabx3
	128	261	982	\$ 4 \$	132	Stack sctually held
The gold then then should been about been then been been place passed shift these retain retain retain retain retain retain.	7 ††	198°2	181	S*SØZ	2,203.5	- Total Inventories as per model
	21	27	7.3	21	7.1	(iv) Stokes & spares
	26	ØS	82	Ltν	94	abooð badainia (iii)
	6	G*8		5.4	F. M (mg	(II) MORK-IN-Process
	48	86	4Σ Ι	Øbī	ØbT.	feireteM was (t)
	Z861	984 T	1882	1884	1983	INVENTORIES
plant West bloom plant plant filled plant filled plant from page (Span Roug Spyry Josep sour) source source West Head of	mark and other rane were rane more man man rane) built built built	. 1846 - 1846 - 1846 - 1846 - 1846 - 1846 - 1846 - 1846 - 1846 - 1846 - 1846 - 1846 - 1846 - 1846 - 1846 - 1846	And place these divine hand would make some which make some some more more more and	anne anne anne men sero sero sero sero (mis limi) divid libid libid divid bisto bisto libid libi		willis dates grove grove grove grove grove grove store which water same regist object bales william was sprete spread stades which shall be supply spread stades within Open

SATRANG TEXTILE MILLS

Table 7.9 Showing the estimated maximum inventories requirement as per the suggested planning 1986–87.

			GMA 23					EINIE			SSEC	IN -PRC		(;;)			ія і язта	M WAA	(I)
7891	9861	1985	1884	1682	Z861	9861	9861	1881			9861	9861	1984	1882	1881	9861	386T	τ861 <u>Σ</u>	861
I	Ŧ	Z	North	Ţ	22	94	22	ZΣ	26	91	ъī	12	r r	21	22	92	<u> </u>	92	DS -non -vA
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107-771	7 1	2017/13	mr 7 %	W1-7 11	F.U.	F. C.	1,1	10	F-15	I	1:	Ī	Ţ.	Ţ	- 17	(, -	LF CF		, ×&M
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	.78–5891 od 782–881 painub biad
	Table 7.9.1 Estimated required inventories as per Model and excess inventoires actually

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	G *851	651		621	FFSS Slame Ange
9	21	12	9	9	
62	ΖΣ	Read Reads Air Albas	97	- 	
5*9	G*5	9	4	8	
QQI	401	801	tØI	88	
-					
9 62 5 9 ØØI 2861		5.851 72 7.5 401	691 5.851 21	291 691 5*891 9	128 128

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

Tk. in lakh

al average lakh.		(21)	rst	(82)	ØF	Ø8	seesx3 [stoT
12 14	99	92	891	61	211	134	neq as letoT sctual
where have made assess speed saids from dense worse series flow on	5Z	Στ		<u> </u>		To Co	Total as per Isbom
	7.2	Zb	242	St	St	7 9	Z8-986I
	ψ£	t3	St	25	79	25	98-5861
	22	£4	29	Σŧ	Z 8	ZS	28-4861
		t7 t7	15	ØS	≨tr	ΣΞ	t8- <u>2</u> 861
	42	S. S.	9€	74	5.5	τ <u>c</u>	28-2841
danda yanga dalah libbar dalah bahir menganya anan-men mengan dalah	eadnevbA er	ojdab aberī	Advances	Tade debtors	29JnsvbA	exolded absat	to them strong fields hold if he were though power thanks made made hands rapid because the strong heavy for the strong heavy for the strong field and strong field for the strong field f
Latol	SNAS	TA2	AIABGAUQ	, many performance green right rights many politic states, should below the states about the states and states the states about the states abo	(d	JO) ONNOM	Years

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

TK. in lakh

Total m yed se	19bo	12"27	Z (46,191)	92	912	Ø8	741	242	961
<u> </u>	St	10.0	(66,44)	2t	19	ST	 ZZ		(ØI)
98-5861	95	S 1 Ø	(5*55)	St	79	61	24	66	5 9
58-486T	48	2	(82)	2 9	6t	(21)	22	102	9
1983-84	ΣÞ	ΣΩ	(01)	15	Ø	6 £	92	45	<u> </u>
ZB-S891	22	45	tr	92	25	91	24	82	49
remove melow kirikil nirihak kilonah masar dilatah dilatah	.paA	, JDA			. 42A	Excess/Shortage	.paA	.35A	Excess/Shortage
Years	doll and mak som	DW	NNO(OFD)			AIRBOANG	5	anaara:	epin quing man man ima limit datah sakan sakan sakan gaya pama pada bibbi 1999 1999.

Total excess cash held by the Mills: Tk.84.06 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 1982-93 to 1986-87.

Tk. in lakh

lotal ss per m		15,57	Z (44°161)	92	912	Ø8	741	242	961
Z8-9861	St	10.0	(66 "44)	₹b	19	61	72	Z T	(ØI)
98-586	75	G * Ø		St	79	16	1 7 €	66	\$ 9
68-486	48	Z	(98)	29	6 tz	(51)	Z S.	ZØI	29
78-286	£ħ	allows when	(81)	10	Ø6	45	SZ	Zt	۷۱.
28-286	22	ΖΣ	t	92	29	91	42	28	69
Amid 1888 by 5-75 per have bee weekline derivate 4-65-85 All	-paa		epstronk\zeesx3			Excess/Shortage			
ests	M mars from the	DM	MAG(GTD))	AIABGAUG		DNASTA:	anno meny speciji padan sama sama sunin milita milita amna dilako sama menga militah beliah dadan kapida dabah

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 relation to production requirements, the maximum permissibly 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.

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

(iii) Same as (ii) above, but excluding core current assets on the theory and the core current assets should be financed.

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180

.Si. V aides ni noisestnasary auo raq borrowings has not to be made according to companies Act, but and current liabilities for calculating permissible level of bank projected balance sheet, and the classification of current assets sheets as on 30th June, 1987. But, the model should be based UO. select of the control as a sellim alited of the control betaeles current liabilities of one of our selected jute mills and model, we have used the actual figures of current assets brine more meaningful and considering the practical operation example of borrower's financial position. To make the analysis three alternatives have been illustrated by taking the following bank borrowing will not exceed 80 percent of current assets. based on our suggested norms and current liabilities inclusive c assets, i.e. inventory receivables and cash should be worked It should be brone in mind that the projected curry

TRI

Analysis of proposed three methods.

borrower's contribution from long term funds will be to the strengthen the current ratio from 1st Method. In the 111, term sources and the gap will be provided by the bank. This will provide a minimum of 20 percent of total current assets from long financed by the bank. In Method II, the borrower will have 97 from the long term sources and the balance 80 per cent will 90 contribute a minimum of 20 percent of the working capital deb aved [[iw arsworrod edf (1.21.7 eldet) i [aboff al 04

extent of the entire 'core' current assets, and a minimum of 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 of 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 permissible limit of bank borrowings. Inspite of low 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 guideline.

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

forward and borrowers in the third or second category should not revert to first or second category respecitively 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.

		Taka in la	kh	
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	THE STATE OF THE S	Mar, Mare part part very start year part years were press over a start start order a see. The chief deli-	2728.00	v Pakra

Table 7.12.1 Methods of Determining Bank borrowing.

anner .				
\$ 75	0.73	in	1	kh
1 (5)	P. 65	4 1 1	1 63	25 1 1

Ist Method	Tk.	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 .		20% of the above from long- term sources	586 2342 1244	less core current assets(; illustrative figure from lon- term sources	25%)
Working capital gap	1684	lib. other than bank borrowings	1078	Real current assets)	2196
20% of the above from equity/ loan (i.e. long-term sources)		Working capital gap.	1684	20% of above from long-term sources	439 1757
ESTABLIST'S CO.	1347	Maximum bank borrowings permissible	1078	Less current lib. other than bank borrowings	1244
					513
				Working capital gap	1684
				Maximum bank borrowing permis	
Excess bank & borrowings	547	Excess bank 58 borrowings	as de la companya de	Excess borrowin	gs 1171
Current ratio 1.0	37:1	Current ratio 1.2	1:1	Current ratio	1.60:1

Monno(old) Cotton textile Mills

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

THE PERSON NAMED IN COLUMN TWO IS NOT THE OWN		many many paper suppression many super while most bank table with most state that the many source most office.	A major arms parits mand ward rabid rated mixed gailst leaded water observe
Current liabilities	Taka in lakh	Current assets	Taka in lakh
Creditors for goods	169	Inventories	1 T.C.
Other current liab.	1 7 600	Receivables	167
Bank borrowings (cash credit)	76	Other current assets	152
The first one and the season for the season of the season for the season of the season	420	i Pilot Pilot 1810 1810 Pilot Pilot Pilot 1810 Nilot Pilot Nilot P	The first state state that the like the the state of the

Table 7.13.1

Ist Method

Total current assets

less current liabilities other than cat credit

Working capit

20% of the ab from equity/ loan (i.e. lo term sources)

Maximum permissible borrowing

Shortage of bank borrowin

Current rati

borrowing permissible

Table 7.13.1 Methods of Determining Bank borrowing.

				Taka in lakh	
Ist Method	Tk.	2rd Method	Tk,	3rd Method	Tie
Total current assets	451	Total current assets	451	Total current assets	451
less current liabilities other than cash credit	175	20% of the above from long- term sources	90 361 175	less core current assets(25%) illustrative figure from long- term sources	
Working capital gap	276	lib. other than bank borrowings	106		338
20% of the above from equity/ loan (i.e. long-		Working capital	276	20% of above from long-term sources	68
term sources)	55		4 00 1		270
Maximum permissible borrowing -	221	Maximum bank borrowings permissible	106	Less current lib. other than bank borrowings	175
DOST DWXTIG					95
Shortage of bank borrowings	145	Shortage of Bank borrowings	110	Working capital gap	276
				Maximum bank	95

Current ratio 0.79:1 Current ratio 0.85:1 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 comparing 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 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.

In cotton textile mills there was over investment of Tk. 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. 117.27 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) lakhs compared to actual of (Tk.1573.68) lakhs. The high inflationary rate (12%) in the economy is partially responsible due to excess bank 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) of inventories, receivables and cash instead of maximum period as taken.

CHAPTER- EIGHT

SUMMARY OF CONCLUSIONS AND POLICY IMPLICATIONS

- 8.1 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 mills 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. 54 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 taka one lakh per month as gratification out of the share of raw jute purchase. It was also reported by a

Report 1984-87 P30). However, raw cotton procurement is a work which should be done centrally and with constant cooperation with different relevant Ministries.

I iv. Dur 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 lakhs on 30th June, 1986 (see p 100) out of which Tk.21.0 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 "P'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 wooden Almirah is supposed to be made of "Shel Koroi" of Sylhet 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.261 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.

2 ii. 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 year 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 managment 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 gheraps 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 if any to be kept in short term deposit(STD) account which yields some gain. Examination of records has shown monthly cash budget is not prepared. The necessity of weekly cash budget is not felt at all. It is revealed that average percentage 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 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 (BJMC) respectively during 1987-88. Similarly the lowest average interst cost per ton of hessian, sacking and CRC of five private jute mills was found to be Tk.1415. Tk. 694 and Tk.1932 compared to Tk.1063. Tk.434 Tk.1565 of five public sector jute mills respectively during same period. The findings show that raw jute cost was shown much higher in private jute mills compared to similar jute mills in public sector. It is also revealed from the interest cost that private jute mills enjoyed bigger amount of bank loan compared to similar 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 people of the disinvested mills and some workers especially union leaders do not work at all,w hich 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 speech 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 FOLICY 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.
- 8.2.7 Managerial competence is an important factor in the efficiency of operations, reflected in profitability and working captial 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, financial 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 customers.
- 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.

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 interviewving key personnel of the selected mills and BJMC and BTMC 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.

There are also limitations in regard to the memory and knowledge of the respondents.

(iii)

(iv)

The absence of some of the relevant official data and internal audit reports for our purpose have also limited the scope of our study.

(w)

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.
- (iii) 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 jute 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 envioramental 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.

PINALCIAL ALALYSIS CONSISTANCY PECHNIQUES-CALCULATION SHEET

LATTE BAWAMY JUTE MILLS

Takha in thousand

				Information	1985	1986	1987
	Year ended	1982	1983				
Ref	Accounts Items	000	000	000	000	000	000
10	Sales	220558	2851 51	313163	359095	388752	
11	Inventory Increase + or decrease	35117	42284	41121	35267	N4463	5297
12	Other Income	1146	1218	1850	1879	989	711
13	Materials	89580	112179	247179	127236	151692	
14	Labour	79985	79296	97034	104697	139998	1428
15	Production Overheads	33193	42219	40469	40496	35490	5534
16	R&D Overheads		-	-	-	-	-
17	Selling & Distribution Overheads	5807	7743	7466	6333	6798	6459
13	General Admin. Overheads	677%	11618	- 13456	7163	8779	5003
10	Depreciation	4548	4659	4863	4160	3584	3830
:0		_	-	- '			
21	Interest	15044	13148	13393	19971	30125	17934
22	Corporation Tax		-	-	Rep	-	-
25	Preference dividend	~	NA.	-	_	-	
24	Ordinary dividend	-	_	-	-	-	=
25	Increase in retained emmings and reserves	(6724)	20442	10221	(24162)	(27529)	(64)
	DERIVED FIGURES		206.160	245042	360974	38874	3609
30	Total Revenue	221704	286369	315013		1065	1200
31	Average daily sales	604	781	857	983		
52	Anded value	166095	215256	107105	317121	28152	
33	Contribution	52517	93741	30397	171932	11745	-
34	Operating Profit	35836	69719	8882	151275	98108	775
35	Net Profit before	-	20442	10221	(24662)	(27529)	(64
36	Net Profit after	(6724)	20442	102:21	(24662)	(27529	164
37	Ordinary eamings	-	and		-	-	
38	Cash flow	(2176)	25101	15084	(20502)	(23945	
30	Cost of sales	202758	233694	384683	272437	410473	3545

Taka in blocksand LATIF BAWANY JUTE MILLS Dhaka University Institutional Reposito Bal ace Sheet Information 1986 1987 Year COO 0.00 Accounts Thems Ref -Land & Bld. (at cost) Plant & Machinery(at cost -Vehicles (at cost) Interest in other compa-nies(associated with the trade). Long-term investment (not associated with the trude) Depreciation to date 3 8 29030 TOTAL FIXED TANGIBLE ASSETS (50 to 54-55) Stock(raw materials) 257845 2044 54 Stock(WIP) Stock(finished goods) Trade debtors(less provision for bad debts) 2:08 Cash 37457 33585 Other easily realisable assets 340950 292599 TOTAL CURRENT ASSETS (57 Lo 62) Tax due Interest due on Loan 229032 199429 Bank Overdraft 123542 1244 21 Other current limbilities Trade Creditors **3309 16** TOTAL CURRENT LIABILITIES 1.0140 8723(h Issue Ordinary Shares 72176 :1553 37 554 other Liabilities 6.2083 iong term low acherdyrus 122834) (115406 (37028)(20478)Retained eamings and (25067)(4511) reserves 178749 2778 TOTAL LONG TERM FUNDS (70-to 73) Outside monority interests in subsidiary componies. Goodwill, patents, trade & marks, etc. Ho. of ordinary shares issued 1650 69241 (1263 DERIVED FIGURES 1560C Net worth (19635)(38487 gorking Calibas Equity shoreholders funds 368759 321629 Total asset(Tangible) 8172 (93357) 368759 321629 Capital employed Operating assets 84962 8816

Liquid assets

FIRATOIAL ANALYSIS CORSUDNAKA OMVERSING HISTINGHIBBOTRE FOR BUNARY SHEET

LATIF RAMARY JUTE MILLS

	Ref	Derivation	Ratios	1982	(& trend 1983	1984	1985	1986 1987
+	A	35 84	Net Profit to form tax 100% Comital castayed	(8.48)	20.72	26%,	65%	(337) _{Neg.}
-	В	10 , 84	1 (111) 1 (d. Cla)	2.78	2.39	7.96	9.52	48 Neg
General	C	35 10	Eet Profit Lefore tax Sales	(3.04)	% 7.16	% 3.26	(6.86)	(7) - 0.01
	D	-34 85	Operating Profit 100%	% 17.97	% 33.21	% 4.23	% 52.7	'NA %
9	E	32 85	Added value Operating asset	.83	1.02	.51	1.08	NA -024
Ferformance	F	39 57+58+59	Cost of sales Stocks	1.82	1.92	3.22	1,41	NA 0.58
	G	32/56	Added value/(Inca asset	5.52	7.53	2.19.	8.41	10,120,
Managerial	li	32	Added value No. employees					
Man	I	<u>56</u> 3	Pixed asset No. employees					
	J	10 7/1	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
1	L	60 31	Trade beliero Av. daily sales	36days	29days	25days	25days	42 + 44
ial Perfe	И	63	Current Assets Current Liabilities	1.40	1.62	2,00	1.34	0.950.8
Financia	N	86 69	Liquid asset Current Liabilities	0.47	0.53	0.62	0.32	0.240.2
thent	0	33 34	Contribution Operating Profit	1.47	1.34	3.42	1.11	Neg. Ne
investment	P	71+72 84	Fixed intrest capital Capital employed					
as an	Q	37 24	Ordinary earning(net) Gross Ordy. dividend					
Rating	R	36 8ō	Het profit after tax			1		441

SPHEXURE-I

LATIF BAWANY JUTE MILLS

,				Valu	e (& tr	ends ov	er 5 yrs	s)	
	Ref	Derivation	Ratios	1982	1983	1984	1985	1986 19	
	s	13 10+(11x3/2)	Muterial x 100%	% 40.61	% 39.34	% 78.92	% 35.43	% % 3939	- 1
	72	14 10+(11x3/3)	Labour x 100.5	36.26	27 . 80	30.98	29.15	36 39	.66
	U	15 10+(11x3/2)	Production Overheads	15.04	14.86	12.97	11.27	6,20 15	5436
Breakdown	V	16 10+(11x3/2)	R&D Overhead x100% Sales	10-	34.41		-		1
Cost B	W	17 10+(11x3/2)	Selling, dist. overhead 100 sales	2.63	2.71	2,38	1.76	1.75 1.7	79
	х	18 10+(11x3/2)	General admin.overhead x100%	2.06	1.63	1.55	1.15	2.26 1,	1/39

FINANCIAL ADALYSTS CORDERSADER PECHNIQUES-CALCULATION SHEET KARIM SUPER MILLS LED.

Taka in Thousands

	Pr			Information		1986 1987
	Year ended	1982	1983	1984	1985	
,ef	Administra Leist	000	()(k)	000	000	000 000
10	Sales	15.047	150393	153953	191554	223158 17914
11	Inventory increase +	14770	1979	31176	53882	.:0629_ 28071
12	Other Income	1113	1501	1566	1854	1452 1187
13	Materials	45087	56534	72130	134902	87643 70501
14	Labour	41747	41929	55820	64086	78916, 82200
15	Production Overheads	18557	.:5528	22632	21864	25766 26485
16	R&D GVerheads	-			-	
17	Selling & Distribution Overheads	6984	6953	6208	6175	8000 6748
18	General Admn. Overheads	2915	2969	3225	4830	5731 5782
17)	Depreciation	1933	1893	1642	1861	1968 2648
20						
.≥1	Interest	8, 80	9515	10344	17176	23011 12183
22	Corporation Tax					
23	Preference dividend					
24	Ordinary dividend					
25	Increme in retained equinger and reserves	(3) (4)	8, 90	(3975)	(3/1733)	(36079) 18858
	DERIVED FIGURES			150378	156821	187079 180528
30	Total Revenue	106198	15/483			611 601
31	Average daily sales	3.25	$t_{l(Y)}$	422	525	156144/ 136711
32	Added value	87370	108638	112999	110534	51462 28026
33	Contribution	267.6	41181	34547	24584	
34	Operating Profit	* 6605	19851	13128	(5/108)	12752 (19965)
35	Net Profit before	7718	8290	(3575)	(34733)	(36078) (18851)
36	Net Profit after tux	7713	21152	14694	(34733)	(36078) (18853)
37	Ordinary eamings					(1)(001)
38	.Cash :low	(9916)	10183	(1933)	(32872)	(34111) (1621
39	Cost of sales	91312	168012	119406	166970	246958 18657

	Year	1967	1963	1984	1985	1986 1987
Ref	Accounts Items	000	000	000	000	000 000
			-			
50	Land & Bld.(at cost)					-
51	Plant & Hachinery(at cost) 				
52	Vehicles (at cost)					
53	Interest in other compa- nies(associated with the trade).			4		
54	Long-term invostment (not resociated with the truce)					
55	Depreciation to date					
56	TOTAL FIXED TANGIBLE ASSITS (50 to 54-55)	15058	14323	14467.	15965	22075 24614
7	Stock(raw materials)					
8	Stock(mitte)	2007-6	19592	34404	116986	108090 7480
9	Stock(finished goods) Trade debtors(less	06420	alman	13147	13496	28696 33618
	provision for bad debts)	16430	14019			
1	Cash	488	2877	1357	555	5728 6900
2	Other easily realisable assets	16313	16796	15658	22869	20143 2024
3	TOTAL CURRENT ASSLTS (57 to G2)	83278	83285	114566	155616	162657 1355 6
I ₁	Tax due					
5	Interest due on loan					
6	Bank Overdraft	61009	41062	68384	129277	135253 10314
7	Other current liabilities	48865	37964	26923	27731	68603 82525
8	Trade Creditors	4374	5663	8775	9693	9439 12333
9	TOTAL CUI CHT LIABILITIES 64 to 68)	114250	84694	104082	166700	213295 1988 6
0	Issue Ordinary Shares	9900	9900	9900	9900	9900 - 9900
1	Other Limbilities	14231	. 31585	44822	56356	56686 67128
2	Long term loan, deben res	14139	1:022	20578	23927	58370 6638
3	Retained eamings and	(2535)	1024	5738	(25419)	(26765)(2609)
4	TOTAL LONG TERM FUNDS (70-to 73)	36435	60531	81038	64364	98191 11777
5	Outside monority interests in subsidiary companies.		- 4/4/-			
5	Goodwill patents, trade marks, etc.					
	No. of ordinary shares issu	ed				
).	DEWIVED FIGURES Net worth	material for	1 62.5	(6176	100913	20870 5000
-	Working Capital	21554	42509	60460	40837 (11084)	39830 5098 6 (50638) (1624 4
2	Equity Shureholders funds	(30)72)	(1409) 10924	1048h 15638	(15519)	(16855) (161
5	Total asset(Tangible)	7565 98336	97608	129033	171581	184732 16018
	Capital employed	(15914)	17014	24951	4881	(28563)(38762
5	Operating assets	98336	977.08	120033	171581	184732 :16018
6	Liquid assets	33231	35692	30162	36947	54507 60767

FARIN JUNE MILLS LTD.

	Ref	Derivation	kati oa	1982	(& tren 1983	ds over 1984	5 yrs) 1985	1986	198
	А	35	Het Irofit tefore tozz 100%	-	% 164	% 59	% (75)	-	
.1	B	10 70	Sales "apital amployed						
General	С	10	Met tradit miler tas	% 6.54	14.17	9.59	(1.85)	6.36	Neg.
	D	-34 85	Operating Profit 100%	% 6.72	2.03	10.17	(3.15)	6.90	% -12.
ن ه ن	E	32 85 .	Added value Operating asset	0.89	1.11	0.87	0.64	0.85	0.85
or ance	F	39 57+58+59	Cost of sales Stocks	1.82	2.17	1.41	1.43	1.59	2.49
Fier Fier	G	32/56	Added value/fixed asset	5.80	7.58	7.31	6.92	7.07	5-55
Managerial	il	37	Added value No. employees	NA.	NA	NA	NA	NA	NA
Yan	I	<u>56</u> 3	Fixed asset No. employees	NA	NA	NA	NA	NA	NA
	J	10 81	Salos Working Capital	NA	NA	10.68	NA	NA	NA
ace	К	57+58+59 81	Stock - Working Capital	NA	NA	8.05	NA	NA	NA :
Perfor ance	L	60 31	Trade bebtors Av. daily sales	50.86 days	54.27 days	31.15 days	25.70 days	46.96 days	55 9
	М	63 69	Current assets Current Liabilities	0.73	0.98	1.10	0.93	0.76	0.6
Financ's]	N	86 69	Liquid asset Current Liabilities	0.29	0.40	0.29	0.22	0.25	0,3
Livestrent	0	33 34	Contribution Operating Profit	NA	NA	NA	NA	NA	NA
	P	<u> 71+72</u> 8ग	Fixed intrest capital Capital capital						
as an	Q	37 24	Ordinary earning(net) Gross Ordy. dividend						
Reting	Ŋ	36 85	Net profit after tax Net worth	-2					

ANMEXURE-11

KARIM JUTE MILL LTD.

			KAKIM JULE	1						
1-				Value			er 5 yrı			ĺ
	Ref	Derivation	katios	1982	1983	1984	1985	1986 1	1981	ľ
	s	13 10 ₁ (11x3/2)	Material x 100%	34.25	34.22	37.74	54.98	35.95	39	35
	T	14 10+(11×3/2)	Labour x 100%	31.43	25.38	29,21	26.11	32.37	45	88
	U	15 10+(17x5/2)	Production Overheads Siles	14.20	15.46	11.84	8.91	10.57	14	78
Ereskdowr.	V	16 10+(11x3/2)	Rab Overhead x100%	-	-	-	-	-	-	
Cost E	W	17 10±(11x3/2)	Selling, dist. overlend sales	% 5.26	4.21	3.25	2.52	3.28 3	3:7	
	х	18 10+(11x3/2)	General admi.overhead x100%	2.19	1.80	1.69	1.97	2.35	3.	22
	1		·				Acres 1	A		-

ANNEXURE-III

FINANCIAL AMALYSIS CONSULTANCY TECHNIQUES-CALCULATION SHEET

NAFARUR JUTE MILLS LTD.

Taka	in	theusands
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	Pr	ofit & Lo:	s Account	Informatio	XI.	
	Year ended	1982	1983	1984	1985	1986 1987
le:1	Accounts Item:	OOO	OOO	000	000	000 000
10	Sales	65702	61287	67797	80918	107211 9880
11	Inventory Increase +	7656	12703	13986	31978	12676 120 6
12	or decreuse Other Income	1054	1054	235	201	120 780
13	Materials	25094	:3175	26215	27859	39519 374
14	Labour	18411	12773	24876	22773	34922 379
15	Production Overheads	8508	4985	17633	18961	12054 1464
16	R&D Overheads	-		-	-	
17	Selling & Distribution Overheads	2328	1414	1885	1411	2127 2256
18	General Admir. Overheads	2162	4510			2484
19	Depreciation	2271	2397	2197	2397	1906 649
20						
21	Interest	2703	2603	6346	2603	7049 4489
22	Corporation Tux	1323	1/5/12	-	1042	~
2,3	Preference dividend					
24	Ordinary dividend					
25	Increase in retained eamings and reserves	(820)	(855)	956	(6421)	(24200)(241
	DERIVED FIGURES	66757	62333	6803	81119	107331 989
30	Total Revenue		204	226	270	294 26
31	Average daily sales	219	1,0808	73558	\$5036	80368 724
32	Added value Contribution	48264	23048	31050	43301	33392 198
33	Cartifolis	22425		44600	39492	726875 '6
34	Operating Profit	14582	14920			10-10
35	Net Profit before	15637	6765	2084	(9378)	19946 0
36	Net Profit after tax	11610	6765	2084	36	
37 .	Ordinary eamings	1 1610	12330	38489	36048	19946
38	Cash :low	1450	2232	3.153	(4024)	(22244)(235
39	Cost of sales	44357	39310	54738	37616	73019 10

	P.		met Info		10000000	
	Accep.	1964	1983	1984	1985	1986 1987
Ref	Accounts Items	OOO	000	000	000	000 000
50	Land 8 Bld.(at cost)					
51	Plant & Machinery(at cost)					
52	Vehicles (at cost)					
53	Interest in other companies (ascociated with the trade).			i		
54	Long-term involument (not associated with the trace)					64
55	Depreciation to date					
56	TOTAL FIXED TANGED LE ASSUTS (50 to 54-55)	15287	13602	11682	9846	8123 69744
57	Stock(raw materials)					
58	Stock(MIP) Stock(Finished goods)	32174	35677	39767	68429	66174 51779
59 60	Trade debtors(less	12/131	9500	14700	16556	17356 26888
61	provision for bad debts) Cash	1957	1304	1493	3017	1099 3370
62	Other easily realisable	7502	62.36	610571	212081	15972 10715
63	TOTAL CULLENT ASSETS (57 to (2)	- (40 7 %	52309	66532	100487	100603 92753
64	Tax due					
65	Interest due on loan			177		
66	Bank Overdraft	9921	-	10971	46629	51117 51348
67	Other current liabilities	19489	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 Limilities	_	-	-	-	_ 31
72	Long term loan, debentures	25615	21237	17242	16669	13468 11615
73	Retained eamings and	(34(8)	(85)	956	(6421)	(24200)(24215
74	TOTAL LONG TERM FUNDS (70-to 73)	38470	39945	36992	29042	8128 63524
15	Outside monority interests in subsidiary companies.					
75	Goodwill patents, trade marks, etc. No. of ordinary shares issu	ed				
-	DERIVED FIGURES					
50.	Net worth	12864	16708	19750	18151	(5340) 25243
31	Working Capital	3.0	,4,343	25310	19195	4 (650)
3,2	Equity shareholders funds	Philip	18708	19750	18151	(5340) (524)
33	Total asset(Tangible)	J-511	5)12	78214	110334	108726 99727
74	Capital employed	33486	59945	36992	29042	8127 6324
35	Operating addets	59315	(5912	78214	110334	108726 99774
86	Liquid assets	. 21904	16631	26764	31654	34427 4097

FIRESTAL ARALYMAN COMMERCANCY TECHNIQUE = SUMMARY SHEET Dhaka University Institutional Repository

BALAREN JUTE WILLS LTD.

	Ref	Derivation	Ratios	Vilu		nds ove		
				1982	1983	1984	1985	1906 1987
	А	35 84	Ret Profit before taxx 100	40.63	% 39 . 99	121.20	% 136.67	245.42 0/7
reī.	В	10 197	Gales Capital employed	1.70	1.53	1.83	2.79	1519.20
General.	С	35 ·	Het Profit Lefore tax Sales	% 25.80	% 26.06	9 66.13	⅓ 40.05	13.60 0.03
	D	- 54 85	Operating profit 100%	.21,03	.2.3	4.00	31.0	4.720.06
95::	E	32 85	Added value Operating asset	0.70	0.77	0.94	0.77	0.74 0.2
erfor	F	57+58+59	Cost of rades	1.37	4.58	1.37	0.54	0.521.97
114	G	32/56	Added value/fixed asset	3.17	2.73	6.29	8.63	9.89 70
Wenurerial	H	32	noted value No. employees					i j
Y.er	1	<u>56</u> 3	Fixed asset No. employees					
	J	.10 .81	Salon Working Capital	¿.82	2.53	2.67	4.22	4.61 Net
ornance	K	5 7+58+59 31	Stock Working Capital	1.38	1.55	1.57	3.56	16544 do.
perform	L	60 31	Trade bettors Av. daily sales	57 days	42d≇ys	65days	61days	59 100days
	М	63 69 :	Current assets Current Lincilities	1.75	2.01	1.61	1.23	1.00 0.
Firmcial	N	86 69	Liquid asset Current Liabilities	071	0.64	0.65	0.58	0.34 0.13
TIMES TO	0	33 34	Contribution Contribution Profit	1.54	1.54	-	1.10	- 50 2
	P	71+72	Fixed intrest copifed Capital employed					4
1	Q	37 24	Ordinary earning (net) Gross Ordy. dividend					
3 7	R	36 8ō	Net profit after tax Net worth	90,25	65.90	194.87	198.60	- 0,01

ANNEXURE: III

FINARCIAL ANALYSIS CO. MISSINGY TECHNIQUE-SURRARY SHRET

1-7			NAPARIN JUT. MILL	Value	(& tre	nds ove	r 5 угв)
	∃e1'	Derivation	Ration	1982	1983	1984	1985	1986 1987
-	s	13 10+(11x3/2)	Material x 100%	25	%	% 38.66	% 34.42	36.86 38.3
	Т	14 10+(11x3/2)	Labour x 100%	38.19 28.02	37.81 37.16	36.69		32.57 38.75
2	1·	15 10+(11x3/2)	Production (workends Sales	12.95	8.13	26.00	23.43	11.24 14.98
Preakdown.	٧	16 10+(11x3/2)	R&D Overhead x100%	-	-	-	-	
Cost E	W	17 10+(11x3/2)	Selling, dist. overhead x100	% 5.5h	2.30	2.78	1.74	1.98 2.31
	х	18 10+(11x3/2)	General admi.overhead x100%	3.29	7.04	-	-	2.32 NA

AHNEXTRE-IV

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

Notato (OLD) TEXTILS HILLS

	V		1983	1984	1985	198	1987
Year ended			000	000	986	860	988
Ref Accounts Items			658.87	643.88	696.31	626.94	662.29
-	Sales	1	12.26	(3.83)	(110.96)	48.92	(31.91)
-	Inventory Increase + or decrease-		6.69	2.38	2.82	2.08	5.72
-	Other Income		420.43	403.43	518.91	350.7	276.01
-	Materials & H.O. larts		88.43	108.19	139.23	175.96	181.01
+	Labour		66.34	69.32	81.63	64,63	69.91
	Production Overheads		-	-	-	-	-
	R & D Overheads			-	-	-	-
17	Selling & Distribution C	verhonds	24 74	21.64	29.80	49.03	40.35
15.	General James, Overheads		21.31	3.89	1/005	3.83	5.03
1.9	Depreciation		1.03		-	-	
20			-	-		32.79	2.06
21	Interest		6.68	7.27	-	32.79	2.00
2.2	Corporation Tax		-	-	-		
23	Fraforence dividend		-	-	-	-	-
24	Ordinary dividend		-	-		-	-
25	Increase in retained car reserves.	mings and 👝 -	15.91	31.09	12.13	(50.90	21.8
	DERIVED FIGURES	Derivatio	n				
30	Total Revenue	10 + 12	665.56	646.56	699.13	029.02	
31	Average daily sales	10 🕹 365	1.00	1.76	1.90		1.81
32	added value	10 - 13 - 11	395.48	236.62	66.44	227.	1 35/1.
33	Contribution	10- 11-(13+1	4115)71.66	59.11	67.50	(16.08	
34	Operating Profit/Loss	10+11-(1) to	19)50.35	45.13	71.10	(14.00	55.90
35	Net profit before tax			47.51	73.92	(67.03	61.68
36	Net profit after tax	35-21-22	57.04	47.51	73.92	(63.03	61.6
37	Dedinary eamings	36-23	-	-	-	-	-
3°	Cash flow	25÷19	6.24	37.98		447.07	26.8
20	Cost of sales	13+11+15+ 1	587.21	577.1	1 628.81	645.0	1 70747

	Financial Year ending date					o (old) TEX	
		dalance	Sheet	nformat			40
_		Your	1983	1984	1985	19 8G	19 87
te f	Accounts Items	(Novem)	10	000	000	000	000
O I	Land & Bld. (at cost)	(<u>i</u>)					
	Flant & Machinery(at cost)	(i)					
_1	Vehicles(at cost)						
2 1	Interest in other companies (associated with the trade)					191	
54	Long term investment(not associated with the trade)						
55	Depreciation to date			1			
56		ets)		71.56	111.67	95.71	103.71
57	Stock(raw materials)	(k)		185.6	70.54	47.89	8.61
-	Stock(VIF)	(k)		13.02	14.78	11.95	34.43
	Stock(finished goods)		4.11	6006	115.26	66.34	
60	Tancia debtors (less profision	Stores & Spare		56.26	348.52 217.88	150.55 133.93	84.11 166. 7 7
	Corli	1170 000	37.08	32.58	1.66	0.52	01.0
51	Other easily realisable mass	ts	85.60	78.50	99.23	149.82	152.37
60			333.	3 434.	4 867.87	561.00	451.19
63					93.07	92.57	- 14
- 1	Tax due Interest due on loan						1
66				1 1 1 1	71.66	17.96	76.38
67		other limbalit	ies		467.62	.217.08	173.91
68					231.01	274.40	169.35
		54 to 68)	313.	45 387.	71 863.34	602.01	419.64
69			39.2	26 39.26	39.26	39.26	39.26
	O Issue ordinary shares 1 Issued preference shares						
	2 Long term lean debettures,e	tc.	-	44.20	64.80	86.54	99.71
	3 Retained eamings and reserv		. 55.	17 34.09	12.13	(50.90)	21.84
			200	43 118.		74.90	160.82
71	5 Outside minority interests						
-/	submidiary companies. 6 Gooddill, potents, tradisrrks	otc.		-			
_	7 Number of ordinary phres i			- 1			
	DERIVED FIGURES	Dorivati	on			9-	
80	O Net worth	70+71+73		3 73.35	51.39	(11,64)	61.10
	1 Versing Capital	61-69	14.	87 46.58	4.51	(41.01)	
-	2 Equity shareholders funds	70+73	34.	43 73.3	51.39	(11.64)	
	7 Total asset(tangible)	56+63	391	0 505	35 979 5	4 656.71	554.90
l	24 Capital employed	83-69	72	.59 118	. 5 116.	19 75.04	160.99
J	35 Operating Assets	83-153+963	391	.03 505	.\$5 979.	656.71	554.90
-	Operating masters	60+61+62	199.5	4 123.	45 318.7	7 284.27	319.2

MONHO (OLD) TEX. MILLS

unline twenty aver 5 year

ANNEXURE-IV

	Λ	35 85	not profit before to	78.	52 6	3.72		82 (06)	8,31
	· 9.	10 84	enpital employed	2	-	l	-		
			canital employed	-	25.45				carital - number of time
ļ	С	<u>35</u> 10	net profit before to sales	100% 8.64	7.37	10.6	5(10	.04)	% profit margin
	פ	2h 85	operating assets	12.87					Guide to managerial per- communes in using asset available to management
	4	32 85	ndded value operating asset	0,75	4.46	0.0	5 0.	34 0	added value per f o. Momenting asset-use sale if added value not available. Indication of asseutilisation.
-	1	39 +5?	Cost of soles stocks	4.38	2.21	1.1	2.	4.28	Indicates turnaver of stocks: high rate pards against obsolonce(note 365 + F denotes days of stocks.
	n	32/56	added value, fixed as	,iot					Utilisation of fixed assets.
	2	3	no. employees					3	Utilisation of staff & labour
	I	<u>56</u> 3	fixed asset no. employees						Indicates whether capita intensive.
	J	E1	sales working capital	14 4 = 3	3713.	70 154.	- 32	20.9	High rate indicates: overtrading-low rate indicates pror use of working espital
	K	57+58+59 81	stock working capital			*			high rate indicates volnerability to trade fluctuations and cash
	L	31	nv.duily sales	12.	7.5.8	14.7	77.9	2 92.	shortage. Collection period days credita allowed to debtors:indicates capital tied up.Use sales on credit if available.
	М	69	current assets	1,05	1,12	1.00		3 2.C7	Cur. ratio Cur. Habilitie must be paid from current assetsratio 2 + satisfactory.
	11	36 69	liquid asset current lish(lities	0.12	q.45	0.3	0.	0 7	shows whether sufficient cash atc. to pay creditor Ratio 1 + satisfactory.
	0	334	contribution operating profit				-		sales valuerability- shows extend of commit- ment to fixed overhead & hence valuerability to
	P	71+72	fixed interest capital capital employees						fall in sale "Financial gearing"
	4	36	ordinary enrning(net) gross ordinary divide	and					Ord.dividend cover-shows how company can maintain dividend anic- should be about 2
	R	36 80	net profit after tax net worth	× 100%	3 64.	144		01.	Shows profitability shareholders capital canings power from share-

function IV

Name value (). trands over 5 yrs) of company 19 86 Explanation 10 19 Entios Ref Derivation 87 [1,3]85 of ratios 54.45 55-91 44.37 material & B.O. parts x 100% 10+(11×3/2) seles + se* Comt break down 6.6 4 14 1 (11x3/2) labour x 100% Note: se'is the anles value production overheads x 100% equivalent of the sales + sa* increase/decrease in stocks, estimated by adding R ? D Overhend x 100% sales + se* 16 10+(11x3/2) 50% to item II to cover on-cost (increase+decroase) melling, dist. overhead x 100% 17 10+(11x3/2) sales + se* general admn.overhead = 100 % 18 10+ (11x3/2) 60 cales + se*

ANNEXURE_V

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

QUADERIA TEXTILE MILLS

		Frofit and	Loss Acce	ount Info	rmation		_
_	Year end		1983	19 8	. 1	85	1986 1987
1	Ref . Accounts	Itom:	660	000	-00		000 000-
10	O Sales		573.77	614.		,	.85 5/18.17
1	1 Inventory Increase	or decrease	(0.62)	(1.9			.26) P3.5
12	Other Income		19.62	13.4			
13	Materials & B.O. lar	ts	424.36	415.0			.65 257.35
14	Labour		64.61	81.0	24.54		
15	Production Overheads		63.50	68.70			
16	R & D Overhends	7		00.70	00.45	79.	73 76.06
17		on Overheads		-			
18.	the state of the latest and the state of the latest and the state of t						
19	Depreciation		22.70	30.88		6 9/1.	19 91.98
20			1.79	3.30	2.64	4.33	4.77
1	Interest		+				
2	Corporation Tax			1.92		51.1	10 35.74
3	Iroference dividend						1
							†
	Ordinary dividend						
-	Increase in rotained e	Erob 1.2 V.	(33.16)	(72.52	(107.93)	186.0	(188.24
1	DERIVED FIGURES	Derivation	to corbinal	l ar	-		-
,	Total Revenue	3(10.01)		1	-		
1	Total Ruyanue		593.39	627.95	548.04	529.28	554.45
-	added value	10 + 365	1.561	1.68	1.44	1.72	1.50
-	ontribution	10 - 13 - 11	149.53	196.79	69.65	230.94	304.36
-		10- 11-(13+14+15		50.94	73.14	22.84	79.71
2.0	perating Profit /Loss	10+11-(13 to 19)	(1.28)	20.06	(27.02)	71.35)	(12.27)
N.	et profit before tax	34+12(1)	18.34	33.49	(5.65)		(5.99)
Ne ar	et profit after tax	35-24-22	10.34	33.49	(5.65)	(69.72)	(5.99)
-	dinary entings	36-23					
Ca	sh flow	25419	(81.92)	(69.22)			-

Financial Year

Tame of Company

		Year	1373	10.04	1985	1956	1987
				1			
Ref	Accounts Items	(Notice)	3.0	DOO	ouo.	000	000
50 L	and & Bld. (at cost)	(1)		į			
51 i	lant & Machinery(at cost)	(i)					
52 V	ehicles(at cost)						
53 I	nterest in other companies associated with the trade)						
51 L a	ong term investment(not speciated with the trade)		0.35	0.35	8.52	6.03	6.03
55 D	eprociation to date						
56	TOTAL FIXED TANGIBLE ASS (50 to 54-55		36.49	42.39	45.26	61.39	93.69
57 S	tock(raw materials)	(k)	33.22	69.22	67.39	311:12	14.57
-	tock(UIF)	(k)		15,62		10.74	7.91
-	tock(finished goods)		3.30	6.28	93.20	17.02	30.56
60 T	rade debtors(1-ven profinent	Stores & sph	2006 79.56 14.43	149.63	214.01	131.09 18.27	74.66 32.38
61 C			52.40	90.21	49.32	64.35	61.43
_	ther easily realisable assu	ta	157.94	163.9	168.18	179.28	171.91
63	TOTAL CURRENT ASSETS (57 to	62)	\$56.71	511.1	2 619.64	455.17	423.42
-	Pax due			-	138.07	175.07	156.98
	intorest due on loan						
	Bank overdraft				56.14	55.56	55.48
	vidende due and movimone	Other limbili	ties J.C	\$86.02		140.49	381.09
68	Irade creditora			38.39		22.15	13.69
69	TOTAL CURRENT LIABILITIES (6	(0)		-			
	Baue ordinary shares	1 65 007		20.00	5 734.16 20.00	623.62 20.00	607.18 20.00
_	Hame profesones dures Gev	t Advance Eou				63.24	45.95
STREET, ST.	ong term lann, debentures, et		203 12.022	1	LYGEL	0,021	.,,,,
	letained enmings and reserve		83.16	(72.5	2)(107.98) (186.03	(188,24
74	POTAL LONG TEAM FUNDS (7) to	73)	(50.94)(35.3)(60.76)	(102.79)	(112.29
	nutside minority interests in	1					
76 G	oodwill, potents, trades rks,	ote.					
	umbor of ordinary shares isn						
	DETIVED FIGURES	Derica	21				_
80 N	et worth	71+71+71	(50.94)	(35.30	(60.76)	(102.79)	(113.29)
81 W	orking Capital	63-60		1000		(168.45)	(183.76)
82 E	quity shareholders funds	70473	- destrict			(166.03)	(168.24)
83 T	otal asset(tang:ble)	56+63	and the same			516.56	517.11
84 C	apital employed	83-69			(60.76)	(101,03)	115.09)
	perating assets	83-(53+5½)	192.85	553.16	656.38	510.53	511.08
	cuid assets	60+61+62	204.78	270.37	255.89	261.94	265.72

INFORCANT Check that 74=56+01-75

ANNEX URE-V

values trum and byru

Hime of the company

i	٨	35 85	not profit before tex capital employed	Neg	ativ	ree We	orki	g Ce	•
deliera.	, D,	10 84	unles capital employed		-0	0-	~		onoula tammover of carital - number of time
	С	35 10	net meril before tax 100%	6.33	5.4	3.02	11.1	1.09	% profit margin
	2	94 85	operating profit x 100%	0.33	3.63	4.12)	13.77	2.40)	Guide to managerial per- formance in using asset available to management
	R	<u>32</u> 85	ndded value operating asset	0.38	0.35	0.11	0.45	09*0	added value per 2 of operating asset-use sales if added value not available. Indication of assetutilisation.
	3	39 57+58 +5 9	Cost of sales stacks	4.18	2.34	1.17	3.13	2.96	Indicates turnover of stocks: high rate purels against obsolence(note 365 + F denotes days of stocks.
	0	32/56	added value/fixed asset	-	-	-	-		Utilisation of fixed nasets.
	X	37	naied value no. employeos	-	-	-	-	-	Utilisation of staff & labour
ingrature performance	I	56 3	fixed nesot	-	-	-	-	-	Indicates shether capital
	J	10 81	salan working capital						dich rate indicates: overtrading-lew rate indicates poor use of working capital
	K	57+58+59 81	stock working copital						high rate indicates vulnerability to trade fluctuations and cash shortage.
	L	31	trade dubtorsex. nv.daily sales	9.25	29.67	11.06	10,62	21.58	Collection period days credita allowed to debtors:indicates capital tied up.Use sales on credit if available.
	М	69	current assets corrent limbilities	08.0	0.87	₩.0	0.73	69*0	Cur. ratio Cur.liabilitie must be paid from current assetsratio 2 + satisfactory.
15		60	liquid asset current limbilities	0.50	94.0	0.32	0,42	0.43	shows whether sufficient cash etc. to pay creditor Ratio 1 + satisfactory. sales vulnerability-
as an investment	,	37	contribution operating profif						shows extend of commit- ment to fixed overhead & hence vulnerability to
	P	71+72	fixed interest capital capital employeed						fall in solo "Financial gearing"
Rating	+4	37 24	gross ordinary dividend		1				Ord.dividend cover-shows how company can maintain dividend maid- should be should?
	R	36 BO	net worth 100%	7					Shows profitability shareholders capital canings power from share- holders point of view,

Annexione-Ty

lief	Derivation	Entios	19 85	19 84	19 85	19 86	87	Explanation of ratios
s	1') 10+(11x3/2)	meterial & B.O. marts x 100%	t	67.58	21.10	51.03	96.94	
T	1/i 10+(11x3/2)	labour, cales 4 se x 160%	9	11.07	18.22	20.25	25.83	Cost break down
U j	15 10±(1 ×3/2)	production overheads x 100%	11.16	24.28	12,63	12.71	15.14	Note: se'is the sales value equivalent of the increase/decrease
v	16 iC+(11x3/2)	R D Overhead 100%		•	•	•		in stocks, esti- mated by adding 50% to item II to cover on-cost (increase+decr-
W	17 10+(11×3/2)	selling dist. overhead sales + se"	*			,		anse)
x	18 10+ (11x3/2)	queral admn.overhead x 3	3.96	5005	10.61	14.99	84.91	

ANNEXURE VI

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

SATRANG TEXTILE

		Profit and Los	ss Account	Informati	on		
	Year ended		19 83	1984	19 85	1986	19 87
Re	f Accounts Items	,(OCIC	000	000	000	000
10	Sales		475.28	530.96	523.56	588.25	512.79
11	Inventory Increase + or de	- 08/09/20	(2.77)	3.22	(73.04)	(80.74	7.54
12	Other Income	4.7	4.05	13.79	*. 74	1.71	2.89
13	Materials & B.O. larts		304.01	309.60	325.86	508.72	260.33
14	Libour	U 1 . J	58.22	71.68	83.87	111.29	125.19
15	I roduction Overheads	No.	95.56	57.50	57.88	57-37	68.83
16	R & D Overhands	15. 3			, 11 - 11		
17	Selling f. Distribution Ove	erheaden -			10 mil 1 mil 2		~ No 149
8.	General Admn. Overheads	da et	22.98	87.54	95.96	104.75	75.26
19			4.26	3.43	3.33	4.46	8.45
XO	er; 71.48 0. 84.45		1			-	
r	Interest	1 10 pm	46.42			57.22	20.68
22	Corporation Tax	1.00	*				
2)	Proference dividend	r J t mini	HATE TOUT				1.01
24	Ordinary dividend	SI PT./S					
25	Increase in 'retained' damin	igs and	(332.93)	(331.94)	(320,08)	(392.6) (411.6
	DERIVED FIGURES	Derivation		. 7-1	91,722.	Y	2
30	Total Revenue	10 + 12	479-33	544.75	528.30	589.94	515.68
31	Average daily (sales	10 + 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	34+12.5 %	(8.77)	15.21	37.71	(67.82)	(7.89)
36	Net profit after tax	35+21+22	(8.77)	15.21	37.77	(67.82)	(7.89),
37	Sedinary earnings	36-23					
3°		25+19	(328.67)	328.51	(316.75)		
29	Cost of soles mayor	13+14+15 11	465.12	442.00	394.57	553,01	448.31

Financial Year anding date

Name of Company

		Anlance				1007	1987
		Yenr	19 83	1984	19 85	1986	1907
of	Accounts Items	(Notes)	000	000	000	000	000
50 1	Land C. Bld. (at cost)	(i)					
	Plant [Machinery(at cost)	(i)					
	Vehicles(at cost)					. *	
53	Interast in other companies (associated with the trade)	100					
54	Long term investment(not associated with the trade)	10.30	6.27	5.2/	6.27	6.27	6.27
	Depreciation to date	1000				17.11	4.
		TS .	58.86	54.59	53.25	58.71	67.97
	Stock(raw materials)	(k)	26.57	78.32	52.75	57.05	47.07
-		(10)		4.80	3.09	8.20	8-24 6.8
-	Stock(finished goods)			6.89	81.64	0.90	8.24
59	Trade debiers (less profision	Stores & spare	8 55.49	45.75	48.70	65.46	88.59
60	for bed debte Trade c	aht	1000	20.55		29.59	43.79
61	Cash		82.89	42.21	102.97	99.18	17.49
	Other casily realisable asset	8	47.0	48,91	49.79	75.07	52.94
	100		243.	47 247.	+3 365.66	335.45	265.01
	Tax due		74.9	46.83	100.46	100.63	100.41
765	Interest due on loan		1			_	
_	Bonk overdraft		10/02	0.02	0.02		
66	WILL OF CALLET						263-81
67	Dividends due and movi-ions	other liabilit	ie 377	21331.	26 374.9	381.14	263.81
67	Dividende des andamovi-rans (other liabilit				381.14 21.44	20.47
68	Dividende due amberovi-1988 (Trade creditors		104 377 24. 2 4	.21 ₃₃₁ . 33.63	26 374.9	381.14 21.44 483.21	20.47 384.69
67 68 69	Trade creditors TOTAL CURRENT LIABILITES(6)		104 377 24. 2 4	.21 ₃₃₁ . 33.63	26 374.94 1.85 477.27	381.14 21.44	20.47 384.69 38.76
67 68 69 70	Trade creditors TOTAL CURRENT LIABILITES(6) Issue ordinary shares		104 377 24. 24 476.37 38.76	.21 ₃₃₁ . 33.63 412.24 38.76	1.85 477.27 38.76	381.14 21.44 483.21	20.47 384.69
67 68 69 70	Dividends due and a language de la l	to 68)	104 377 24. 24 476.37 38.76	.21 ₃₃₁ . 33.63 412.24 38.76	1.85 477.27 38.76	381.14 21.44 483.21 38.76	20.47 384.69 38.76 302.59
67 68 69 70 71 72	Trade creditors TOTAL CURRENT LIABILITES(6) Issue ordinary shares	to 68)	24.R4 476.37 38.76 113.45	33.63 412.24 38.76 176.28	26 374.94 1.85 477.27 38.76 216.28	381.14 21.44 483.21 38.76	20.47 384.69 38.76 302.59
67 68 69 70 71 72 73	Trade creditors Total Cuident LiabiliTes(6) Issue ordinary shares Sort Advances Long term loan, debentures, etc. Retained camings and reserves	to 68)	100 377 24.24 476.37 38.76 113.45 (31).98)	21 ₃₃₁ 53.63 412.24 38.76 176.28	1.85 477.27 38.76 216.28	381.14 21.44 483.21 38.76 246.28	20.47 384.69 38.76 302.59
67 68 69 70 71 72 73	Trade creditors Total Cuident Liabilities(6) Issue ordinary shares Son All District Long term loan, debentures, etc Retained camings and reserved Total Long TEAM FUNDS(7) to	to 68)	100 377 24.24 476.37 38.76 113.45 (31).98)	21 ₃₃₁ 53.63 412.24 38.76 176.28	1.85 477.27 38.76 216.28	381.14 21.44 483.21 38.76 246.28	20.47 384.69 38.76 302.59
67 68 69 70 71 72 73 74 75	Trade creditors Total Cuident Liabilities(6) Issue ordinary shares Cong term loan, debentures, etc. Retained camings and reserver Total LONG TERM FUNDS(7 to subsidiary componies.	to 68)	100 377 24.24 476.37 38.76 113.45 (31).98)	21 ₃₃₁ 53.63 412.24 38.76 176.28	1.85 477.27 38.76 216.28	381.14 21.44 483.21 38.76 246.28	20.47 384.69 38.76 302.59
67 68 69 70 71 72 73 74 75	Trade creditors Total CURENT LIABILITES(6) Issue ordinary shares Set Adverse 19 99 Long term loan, debentures, etc. Retained comings and reserved Total Long Term Funds(7 to Outside miserity interests in subsidiary companies.	to 68)	100 377 24.24 476.37 38.76 113.45 (31).98)	21 ₃₃₁ 53.63 412.24 38.76 176.28	1.85 477.27 38.76 216.28	381.14 21.44 483.21 38.76 246.28	20.47 384.69 38.76 302.59
67 68 69 70 71 72 73 74 75	Trade creditors Total Cuident Liabilities (6) Issue ordinary shares Cong term loan, debentures, etc. Retained camings and reserved Total LONG TEAM FUNDS (7 to Outside misority interests in subsidiary companies. Goodwill, patents, trades rike, Mumber of ordinary shares issue	to 68)	100 377 24.24 476.37 38.76 113.45 (319.98)	21 ₃₃₁ , 33.63 412.24 38.76 176.28	1.85 477.27 38.76 216.28 ()(307.13	381.14 21.44 483.21 38.76 246.28 (371.21) (86.17)	20.47 384.69 38.76 302.59 (411.61) (48.83)
67 68 69 70 71 72 73 74 75 76 77	Trade creditors Total Cuident Liabilities(6) Issue ordinary shares Sext Advances to square Long term loan, debentures, etc. Retained comings and reserved Total Long Term Funds(7 to Outside miserity interests in subsidiary companies. Goodwill, patents, trades rike, Mumber of ordinary shares lisa Dialvid Figures.	to 68) 73) - 1 (otc.	100 377 24.24 476.37 38.76 113.45 (31).98; (167.77)	21 ₃₃₁ 33.63 412.24 38.76 176.28 (329.99	216.28 216.28 216.28 216.28 216.28	381.14 21.44 483.21 38.76 246.28 (371.21) (86.17)	20.47 384.69 38.76 302.59 (411.61) (48.83)
67 68 69 70 71 72 73 74 75 76 77	Trade creditors Total Cuident Liabilities(6) Issue ordinary shares Cong term loan, debentures, etc. Retained camings and reserved Total Long Term Funds(7) Cutside miscrity interests in subsidiary companies. Goodwill, patents, trades rks, Number of ordinary shares issue the control ordinary shares is the control of the control ordinary shares is the control of the control ordinary shares is the control of the control ordinary shares in the control of the control ordinary shares in the control of the control of the control ordinary shares in the control of the control	to 68) 73) - 1 (otc.	100 377 24.24 476.37 38.76 113.45 (313.98) (167.77)	21331 33.63 412.24 38.76 3176.28 0(329.99 0(114.6)	1.85 477.27 38.76 216.28 1)(307.13 2)(52.09) (2)(52.09)	381.14 21.44 483.21 38.76 246.28 (371.21) (86.17)	20.47 384.69 38.76 302.59 (411.61) (48.83)
67 68 69 70 71 72 73 74 75 76 77 80 81	Trade creditors Total Cuident Liabilities (6) Issue ordinary shares Cong term loan, debentures, etc. Retained camings and reserved Total Long Term Funds (7 to Outside miserity interests in subsidiary companies. Goodwill, patents, trades riks, Number of ordinary shares its Divide Figures. Not worth Working Copital.	otc. Dorivation 70+71+73 63-69	100 377 24.24 476.37 38.76 113.45 (313.98) (167.77)	21331 33.63 412.24 38.76 3176.28 0(329.99 0(114.6)	1.85 477.27 38.76 216.28 1)(307.13 2)(52.09) (2)(52.09)	381.14 21.44 483.21 38.76 246.28 (371.21) (86.17)	20.47 384.69 38.76 302.59 (411.61) (48.83)
67 68 69 70 71 72 73 74 75 76 80 81 82	Trade creditors Total Cuident Liabilities (6) Issue ordinary shares Set Attrasted 9 Long term loan, debentures, etc. Retained camings and reserved Total Long Term Funds or Subsidiary companies. Goodwill, patents, trades risk, Number of ordinary shares issued or ordinary shares issued ordinary shares issued to the control ordinary shares is the control of the control ordinary shares is the control of the contr	etc. Dorivation 70+71+73 63-69 70+73	100 377 24.24 476.37 38.76 113.45 (31).98; (167.77).	21 ₃₃₁ 33.63 412.24 38.76 176.28 (329.99 (114.6)	216.28 (2)(52.09) (2)(52.09)	381.14 21.44 483.21 38.76 246.28 (371.21) (86.17)	20.47 384.69 38.76 302.59 (411.61) (48.83)
67 68 69 70 71 72 73 74 75 76 77 80 81 82	Trade creditors Total Cuident Liabilities (6) Issue ordinary shares Cong term loan, debentures, etc. Retained camings and reserved Total Long Term Funds (7 to Outside misority interests in subsidiary companies. Goodwill, patents, trades rks. Mumber of ordinary shares ilsa Dislived Figures. Not worth Working Copital. Equity shareholders funds Total as et (tangible)	etc. otc. Dorivation 7()+71+73 63-69 70+73 56+63	100 377 24.24 476.37 38.76 113.45 (313.98) (167.77) (167.77) (167.77) (281.2	21 ₃₃₁ 33.63 412.24 38.76 176.25 0(329.99 0(114.6)	1.85 477.27 38.76 216.28 2)(307.13 2)(52.09) (2)(52.09) (2)(52.00 (3)(52.00) (4)(111.13 (2)(52.00)	381.14 21.44 483.21 38.76 246.28 (371.21) (86.17) (36.17) (147.76 9)(86.17) 394.16	20.47 384.69 38.76 302.59 (411.61) (48.83) (48.83) (119.68) (70.26)
67 68 69 70 71 72 73 74 75 76 77 80 81 82	Trade creditors Total Cuident Liabilities (6) Issue ordinary shares Set Attrasted 9 Long term loan, debentures, etc. Retained camings and reserved Total Long Term Funds or Subsidiary companies. Goodwill, patents, trades risk, Number of ordinary shares issued or ordinary shares issued ordinary shares issued to the control ordinary shares is the control of the control ordinary shares is the control of the contr	etc. Dorivation 70+71+73 63-69 70+73	100 377 24.24 476.37 38.76 113.45 (31).98) (167.77) (167.77) (167.77) (281.2 302.33 (167.3	21 ₃₃₁ 33.63 412.24 38.76 176.28 0(329.99 0(114.6) 7 (114.6) 10 (164. 22 (291. 3 503.02 77) (103	1.85 477.27 38.76 216.28 2)(307.13 2)(52.09) (2)(52.09) (2)(52.00 (3)(52.00) (4)(111.13 (2)(52.00)	381.14 21.44 483.21 38.76 246.28 (371.21) (86.17) (86.17) (86.17) (9)(86.17) 394.16 9)(89.05)	20.47 384.69 38.76 302.59 (411.61) (48.83) (48.83) (119.68) (70.26) 332.98

ANNEXURE-VI

1	001	Derivation	Antios	83	84	183	16	粉	Explanation of ratios
	Α	35 85	not profit before tox x 100%						% return on capital
1	В	10 84	mnles chpital employed	^	1		~		annuls turnover of carital - number of time
	С	<u>35</u>	net profit before tox, 100%	(1.24	2.86	7.21	11.52)	1.53	% profit margin
	D	85	operating profit x 100%	4.33)	(84.0		17.52	3.30)	Guide to managerial per- formance in using asset available to management
	Е	32 85	ndded 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. Indigation of asseutilisation.
	F	39 57+5 ^P +59	Cost of soles stocks	451.57	325.00	212,13	418.94	296-89	Indicates turnover of stocks: high rate gains ngainst obsolonce(note 365 + F denotes days of stocks.
	P	32/56	added value/fixed asset						Utilisation of fixed assets.
		32	no. employees						Utilisation of staff & labour
	I	56	fixed namet no. employees						Indicates whether capita intensive.
	3	2 <u>C</u>	sales working capital					-	digh rate indicates: overtrading-low rate indicates poor use of working capital
	E	57+58+59 81	<u>stock</u> working capital						high rate indicates valuerability to trade fluctuations and cash shortage.
	L	31.	trade debtorset. av.daily sales	8.34	14.17	18.68	18.37	31.28	Collection period days credita allowed to debtors:inficates capital tied up.Use sales on credit if available.
THENCE	М	69	current limbilities	84.0	98.0	0.77	69.0	69.0	Cur. ratio Cur.liabilitie must be paid from current assetsratio 2 + satisfactory.
	11	86 69	liquid asset current liabilities	0.30	0.27	0.38	0.42	0.29	shows whether sufficient cash etc. to pay creditor Ratio 1 + satisfactory.
Tres then	C	37	contribution operating profit						shows extend of commit- ment to fixed everyhead & hance vulnerability to
35 CH	14	71+72	fixed interest capital capital employeed						fall in sale "Financial gearing"
Rating	Ψį	177 24	ordinary earning(not) gross ordinary dividend						Ord.dividend cover-shows how company can maintain dividend paid-should be about 2
	R	80	net worth x 100%						Shows profitability shareholders capital

			1000	valor	(8 1	t ran da	over	5 y r	e)	Name of company
	Re!	Derivation	Ratios		10 83	19 84	19 85	19 86	19 ⁻ 87	Explanation of ratios
	s	13 12+(11x3/2)	material & B.O	parts, x 100%	64.00	75.73	62.14	52.38	82 05	
-	T	14 10+(11x3/2)	labour sales + se * 1	00%	12.21	14.38	16.03	18.87	24.41	Cost break down
Parten	U	15 10+ú1 ×3/2)	production ove	rheada x 100%	20.63	11.64	8	9:75	13.67	Note: se'is the sales value equivalent of the increase/decrease
14.	V	16 10±(11x3/2)	R f D Overhead	× 100%	-			= 1		in stocks, esti- mated by adding 50% to item II to cover on-cost (increase+decr-
-220-	W	17 10+(11x3/2)	selling, dist.	overhead x 100%						ease)
1503	x -	18 10+ (11x3/2)	general admin.ov coles + se	verhead x 100%	4.83	17.57	18.34	17.68	14.64	

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

CHITTAGONG JUTE MFG. COMPANY LIMITED

	Year onde	1	1983	1984	mation	0-	-1 -
	Ref Accounts I	toma			19	85 1	986 1987
10	0 Sales	· · · · ·	000	000	000	0	00 000
11			346575	30350	3 45854	5 462	081 44367
_	The same of	or decrease.	33300	37594	61407	578	88 60462
12	t and another	3.3	656	1440	2208	1314	1302
13	The state of the s	5	133538	15742	39749	9 1563	17912
14	Lobour	T	102464	108806	13015	3 1674	29 193183
15	I roduction Overhoads		69168	76656	78823	1198	5 112134
16	R f D Overhends		-	-	-	-	11213
17	Selling & Distribution	Overhends	3432	2467	2530		-
18.	General Admn. Overhead	8	8783	2031		3310	
19	Depreciation		3192			1589	
20			3192	3479	3423	3/24	
21	Interest		+	-	-	37595	32457
22	Corporation Tax		13457	16649	32039	-	-
23	1-	-	-	-	-	-	
-	Proference dividend		-	•	-	-	
_	Ordinary dividend		-	-	-	-	-
35	Increase in retained on reserves.	mings and	(15477)	(50186)	(178698)	(25606)(285078
4	DERIVED FIGURES	Derivation	1 allows				
-	Total Revenue	10 + 12	547229	304743	460733	463399	448980
-	Average daily sales	10 💠 365	949	830	1256	1269	1215
-	Added value	10 - 13 - 11	246335	183477	122453	363647	325011
-	Contribution	104 11-(13+14+1	15) 5601	(24145)		(70873)	
_	Operating I rofit	10+11-(1) to 19		(26608)	(125920)		(15387)
N	et profit before tax and interest.	34+12 /	35725	(25167)	(123712)		(21608)
N O	et profit after tax nd interest.	35-21-22	22268	(41816)	(155751)	(77362)	32427)-
	dinary eamings	36-23	22268	(41816)	(155751)	(7/362)(32427
	nsh flow	25+19	+	46437)	175275)	252774	(284462)

Annexture VIII

	Financial Year ending date					any CJW	Táka in	thousanda
		Balance	Sh. m	, J	o Co min			
_		Your	8	33	10 84	19 85	19 86	19 87
le f	Accounts Items	(Notes,	35	-	00	000	000	000
50	Land C Bld. (Wt cost)	(<u>i</u>)		1				
	Plant & Machinery(at cost)	(i)						
	Vehicles(at cost)							
	Interest in other companies (associated with the trade)							-
54	Long term investment(not associated with the trade)	÷	686		86	686	754	864
-			7094	9	74429	77848	81475	84434
56	Depreciation to date TOTAL FIXED TANGIBLE ASSET (50 to 54-55)	S	1976	55	21421	21524	20738	27/000
20.00	Stock(row materials)	(k)				****		
_	Stock(JIF)	(k)				-1 1 0		
-	Stock(Jir)		3333	32	156269	237948	168804	173040
	Tynia dobtan (lass periate) for had debtal Bed debta	stores & spar	5304	46	28408	37419 37416	24721	42807
61	Cash		10	81	5780	1316	2404	10585
60	Other easily realisable assets	1	158	31	7322	21858	27417	26771
					221685	325984	223342	253211
63		(1.17			3896	3491	10206	10206
	Tax dub		-1-		7070		-	-
	Interest due on loan Bank overdraft		687	40	145766	310946	19993	302096
٥٥	Dividende due mar mani-rum ot	her liabilit:	108407	49	41471	73322#	84581	97723
	B Trade creditors		459	3	7366	42452	17299	14369
	The second second	to 68)	117	939	1986	2 430372	42/543	502157
69		10 007	250	000	25000	25000	25000	25000
	D Issue erdinary shares	red liabilit		-	1	1343	-	-
	Long term Joan depostures, etc.		130	99	13460	12460	13460	2 6611
	Retained eamings and reserves		(21	160	(5018	(178698	(242743)	(275161
i.		73)	37282		1		(204283)	(223550)
-	Outside manority interes in	· · · · · · · · · · · · · · · · · · ·	-		-	-		-
-	Goodwill patents, tradescrks, o	tc.	250000	00	:50000	250000	2500000	2500000
	7 Number of ordinary stres issu				1			
	DELIVED FIGURE	Derivati	on					
19	Net with	70+71+73		83	23843	(139895	(217743)	(250161)
-	Working Capital	63-69					(204201)	(248946)
		70+73					(179283)	(250161)
	2 Equity shareholders funds 2 Total asset(tangable)	56+63				345508	₹44080	280211
		83-69	9500			(84864) ((221946)
_	4 Capital employed	83-(53+54)				344822	243346	279347
	5 Operating assets 6 Liquid assets	60+61+62				60590	54542	80169

INS On ANT: Cheef that The State State

holders point of view.

	12.	Der!vati	n Ratios	1083	18	14 85	12	82	Explanation of ratios
	7	, <u>35</u> 85	not profit before tex capital employed x 100%		6.61	Ne	est1	**	fed eturn on capital
		10	soles capital capi yed		175				Annula turnover of carital - number of time
	С	<u>35</u>	net profit before tax 1008	10.30	26.9	(15.76)	16.74)	(7.30)	% profit margin
	D	35 10 34 85	operating profit x 100%	17.48 1	10.979(26.	35.87)	_	7.73) (Guide to managerial per formance in using asset
	E	32 85	nddud value operating haset	1.94				1.16 7.	available to management added value per g of operating asset-use sal if added value not avai lable. Indigation of asset
	F	39 57+50+59	Cost of sales stocks	2.55	2.89	2.49	2.23	2.40	365 + F denotes days of
	C	32/56	added value/fixed asset	12.46	8.5	5.68	7.53	2.03	stocks. Utilisation of fixed assets.
		32	noded volue no. employees						Utilisation of staff & labour
	:	56	fixed asset no, employees				- 1	-	Indicates whether capit intensive.
		2 <u>C</u> 21	sales working capital		lleg	stive			High rate indicates: evertrading-low rate indicates poor use of working cepital
	15 5	81 81	stock working copital		Ne	gati		.4	high rate indicates vulnerability to trade fluctuations and cash
	L	3!	trade debter sec.	34	35	30	19	35	shortage. Collection period days creditm allowed to debtorsimicates capita tied up.Use sales on
	М	69	current assets current liabilities	16.	1.12	-75	152	720	Cur. ratio Cur.liabiliti must be paid from curren ascota.
	H	36 69	liquid Asset current limbilities	24.	.21	+1.	.13		-ratio 2 + matisfactory. shows whether sufficient cash etc. to pay credito Natio 1 + satisfactory.
	0	37	contribution operating profit	1.15	Ne	goti	re b	lan:	sales vulnerability- shows extend of commit- ment to fixed everhead & hence vulnerability to
1	P	7 <u>1+72</u> 84	fixed interest capital capital employeed	1.41	0.37	Neg	tiv		fall in sale "Financial gearing" yed
D		36	gross ordinary dividend						Ord.dividend cover-shows how company can maintain dividend maid- should be
	1	Ro	net worth x 100%			ktive etwc		rofit	Shows profitability shareholders capital canings power from share-

				93	war	c yr	g)	Name of company
Ref	Derivation	Entios	83	1¢ 84	*() 85	19 86		Explanation of ratios
s	13 17+(11x3/2)	material * H.O. parts x 10	_{0%} 38 • 53	51 .9 0	86.6	33.4	e 40. j	7
in !	14 :0+(11x3/2)	1nbour sales + se* x 100%	29.56	35.87	28.3	43	-54	Cost break down
	15 0+((1 x3/2)	production overheads x 100 sales + se*	e6 19. 95	25.27		4.2	.27	Note: se is the sales value equivalent of the increase/decreas
v	16 10±(11x3/2)	N " 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 + so. x 1	0.99	0.81	0.55	0.72	1.40	enso)
х -	18 10+ (11x3/2)	cales + se*	CF 3.45	0.66	0.31	4.24	2.72	

ANNEXURE VIII

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

VICTORY JUTE PRODUCTS LTD.

Taka in thousand

			1.0 -				40 45
	Year onded		19 85	19 84	19 85	1906	19 87
Ro	Accounts Item	15	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 form	YN,	191	27	755	18	122
13	Katerials & B.O. lerts	Katerials & B.O. lerts		42456	108911	49706	44701
1/4	Labour		24816	26925	40374	48225	56881
15		98.1	26819	27923	17797	22133	19648
16	R / D Overhends	610.					
17.	Selling & Distribution	Overheads	680	505	866	-970 -	- 1187
18.	General Admn. Overheads	FP . 415	2978	5156	3872	5287	3754
19.	Depreciation		1348	1224	1264	1440	1298
20							
21	Interest		6127	7772	12868	14056	13361
22	Corporation Tax		1113-11				
23	Froference dividend	1 12 14					7 11
24	Ordinory dividend	1.800.17			-		
25	Increase in rutained na reserves.	ក្រុងនិងក្នុងស្ន	(2572\$)	(76184)	(72578)	93396)	(98211)
,	DERIVED FIGURES	Durivation					
30	Total Revenue	146 4 42	93564	86081	141047	13572	8 12316
31	Average daily sales	10 🕂 365	255	235	584	572	337
32	Added value	10 - 13 - 11	61886	58263	35719	1026	9 73455
33	Contribution	40± 11-(13+14+	15) 10251	3590	(16063)	(26541)	(12848
34	Operating Profit	10+11-(15 to 1	9) 464	(9843)	(33670)	(27512	(14036
35	Net profit before tax and interest or 1 34-12		640	(985)	(32914)	(21290)	(5225)
36	Net profit after tax		(985)	(32914)	(21290	(5223)	
37	Ordinary samings	16-25)					
3°	Cosh flow	25+19	(24380)	(68412)	(71314)		(96915)
39	Cost of anles	13+1/1+48- 19	83122	82639	210468	103597	

	Financial Year ending date		14(1)	- Car	ntiv		
		da ta a	. She et	afema	tian		
_		Year	19 83	10 H4	19 85	19 8	19 87
kef	Accounts I tems	(Nates)	000	000	000 '	000	000
50	Land 2 Bld. (At cost)	(1)					
51	Flant & Machinery(at cost)	(i)					
	Vehicles(at cost)						
53	Interest in other companies (associated with the trade)	7 6					
36	Long term investment(not associated with the trade)	9.	7	7	7	7	7
as:	Depreciation to date			20090	10591	24047	33508
56			12176	11446	10644	10496	33508
57	Stock(raw materials)	(k)		****	8111	15337	19744
-	Stock (JIV)	(1c)		1035	10895	9294	13840
anna N	Stock(finished goods)		38647		43400	16685	20442
60		Stores & spar	1		9924	14501	15883
00	for had debte.) Trade debters		5925	5297	8384	6885	5716
61	Cash		2525	131	1705	6860	1180
62	Other eneity realisable asse	ts	12052	10075	11213	15817	12204
63	TOTAL CURICINT ASSETS (57 to	62)	59153	70763	98806	86052	92/16
	Tax due						
65	Interest due on lonn						
-	D to the standard of the stand		32267	42692	85381	104971	132376
67	Other	liabilities		18892		36057	45201
68			1667			10350	8568
,		(0)		-			-
69		4 to 68)	where the party		159299	170821	189019 12014
_	Issue ordinary shares		1201	1	12014		
71	Is med preference shares			1853	1853	1853	1853
72	Long term loan. deportures, et	C.	3480	3606	3606	3603	5603
73	Retained eamings and reserve	5	18686	\$2569	(65536)	(89957)	(93396)
74	YCT/L LONG TEAM FUNDS (70 or	73)	(3197)	(15097	(48063)	(72484)	75925)
15	**************************************						
76	Goodelli, patents, tradecrks,	etc.					
	Number of ordinary shires iss			1			
	DELIVED FIGURE	Der	-				
80	Not worth	704734	(6672)(18703)(51669)(5	617)	(/9529)
	Working Capital	53-69		man on all	(60495)		(78105)
	Equity shareholders funds	70+73	en la facilitation		(53522)	77943)	(81582)
	Total asset(tangible)	50+63	71529	81988	109450	10099	116763
	1.00	83-69	(8624)		(49849)	(60722)	(54058)
-	Operating nasots	83-(53+54)	71522		109445	110092	116756
낃	Operating Assots	60+61+62		19638	26468	30627	17085

IMPORCANT: Check that 74=56+81-75

Dhaka University Institutional Repository

ANNEXURE-VIII

the company

) î	ief	Derivation	Ratios	1907	707	190,	1,00	.,,	7 Explonation of ratios .
1	٨	35 85	mt profit before tax						% return on capital
	D.	10 84	soles capital employed -			^	0		Annula tummover of corital - number of time
-	c	<u>35</u>	net profit before tax x 100%			23.46	15.68	4.24	% profit margin
-)	2/4 85	operating profit x 100%			(30.76)(23.	(66*42)	2.02)	Guide to managerial per- formance in using asset available to management
		3 <u>2</u> 85	operating asset-			.33 (3	6) 66.	1) £9.	added value per f of operating asset-use sales if added value not avai- lable. Indigation of asset utilisation.
pertorement	F	39 57+5°+59	Cost of sales stocks			2.91	1.85	1.44	Indicates turnover of stocks: high rate guards against obsolence(note 365 + F denotes days of stocks.
	G	32/56	added value/fixed asset			3.37	4.27	2.19	Utilisetion of fixed assets.
Sanagera !!	H	32 3	ndded value no. employees		ı				Utilisation of staff & labour
Z	1	<u>56</u>	fixed asset no. employees						Indicates whether capital intensive.
	J	10 81	sales working capital						digh rate indicates: overtrading-low rate indicates pror use of working copital
	15	57+58+59 81	stock werking capital						high rate indicates volnerability to trade fluctuations and cash shortage.
norfo whee	L	3:	trade debtorgar. av.daily sales	23	25	22	18	16	Collection period days
innetwort : innectel	1.	60	current assets current limbilities		88	-62	•50	*	Cur. ratio Cur. liabilitie must be paid from current assetsratio 2 + satisfactory.
	"	69 69	liquid asset current liabilities		42.	.17	18	1.	shows whether sufficient cash etc. to pay creditor Ratio 1 + satisfactory. sales vulnerability-
	0	34	contribution operating profit						shows extend of commit- ment to fixed overhead & hence vulnerability to
	1	71+72	fixed interest capital capital employeed						fall in sole "Financial goaring"
0-41	Maring as	1 37 24	ordinary earning(net) gmss ordinary dividend						Ord.dividend cover-shows how company can maintain dividend maid-should be about 2
	i	80	net worth 100	0%					Shows profitability shareholders capital eamings power from whare- holders point of view.

		vo.1	uc(f	tr	ands	over	5 y rı	g)	of company
Res	be divation	Matter	90	1	19 84	10 85	19 86	19	Explanation of ratios
s	13 12+(11x3/2)	motorial * B.O. parts x 100	76 2	2	19.33	7.63	36.62	36.34	
T	1/4 (11x3/2) 14 (11x3/2)	labour x 100%		20.57	31.28	28.72	35.53	46.23	Cost break down
U	15 10+(1 x3/2)	production overheads x 100 sales + se*	n.c	28.72	32.44	12.68	16.30	15.97	Note: se is the sales value equivalent of th incrnase/ducreas in stocks, esti-
v	16 IC+(11x3/2)	R f D Overhead x 100%							mated by adding 50% to item II to cover on-cos (increase+decr-
W	17 10+(11x3/2)	selling, dist. overhead x	1CO%	0.72	0.58	.62	.21	8.	case)
x	10+ (11x3/2)	general admn.overhead x	100%	3.18	5.99	3.66	4.95	4.10	

ANHEXURE-IX

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

NOAPARA JUTE MILLS LTD

30	-2 F4	17.1	5.1*

	Profit and Lo	oss Accour	it Informat	tion		
	Year onded	19 83	1984	1985	198	61987
Re	ef Accounts Items	000	000	000	000	000
10	Sales	75512	89348	134475	96537	121899
11	Inventory Increase + or decrease-	1985	9404	2209	3906	(11550)
12	Other Income	r Income 8		75	258	160
1.3	Materials & N.O. larts	265565	44241	85193	447/1	36514
14	Labour	16857	19215	23587	32454	24638
15	1 roduction Overheads	28968	24484	34070	36461	40218
16 520	R P D Overheads					
:7	Selling & Distribution Overheads		1127	1749	1772	943
行	General Admn. Overheads	1352	2/23	3295	3452	3916
,9	Depresiation 1008 8504 783	3828	3820	4080	1828	4075
20	1 6630 6 2056 24 6 1 1024,					
21	Interest					
22	Corporation Tax					1 44
-	Profesence di vidend car a oper		1			
4	Ordinary dividend					
13	Increded in rothined comings and creary	(59913)	(38209)	(55173)	(65042)	(58974
	DERIVED FIGURES Derivation		1			
0	Total Revenue 10 + 12	75520	89359	134550	96795	122059
	Waverngt Willy settes 15 at 10 10 15 265	206	244	368	264	333
2	#dded value 10 - 13 - 11	50932	54511	51491	55672	73855
	Contribution 10 [±] 11-(13+1/4+)		10412	(15290)	9184)	4933
-	Operating 196716 2017 104114(13 to 19	(3573)	(2162)	(17039)	(19128)	3161
	Net profit before tax	(3565)	(2151)	(16963)	(9869)	3321
1	Net profit after tax 0.3	(3565)	(2151)	(16963)	(9869)	3321
6	Oudinary enmines 36-23					
	Cosh Mawry Search 3 25+19	(36085)	(34389)	(51093)	(63214)	(54039)
air	Cost of sales of the San of 13+1/1+15 11	70405	78936	149766	105722	116965

Fina	nc i	t n	Yerra
endi	ng	dn	to

ending date	Pale : c	to well Ir	ilr mat	ion			
	Year	83	0 84	1985	1986	19 87	
Accounts Items	(Notes)		000	OCO	000	000	
Land & Bld. (Kt cost)	(i)			'			
((i)						
and the same of							
2 Vehicles(at cost)							
Interest in other companies (associated with the trade)	14						
Lorg term investment(not associated with the trade)		77					
Deprociation to date							
(50 to 54-55)	S						
i/ Stock(raw materials)	(k)		2056	18365	14877	8847	
58 Stock(/IF)	(k)	22055	20,70	.0,00			
59 Stock (finished goods)		31063	44643	60827	61669	59553	
50 Trade debtors(less profision		7981	2922	2051	7958	9529	
for bad debis)		332	813	2325	3922	6176	
61 Cash 62 Other easily realisable ess.t	я	6567	24025	30064	27048	25355	
The second secon		4	78042	95267	100597	80593	
63 TOTAL CURRENT ASSUTS (57 to	611)	1.00.0					
64 Tax due		1					
65 Interest due on loan			-07.4h	79464	65384	41653	
66 Bank everdraft			38314 16137		24036	28845	
67 Dividends due mu provi ions			10137	1407	1730	153	
68 Trade creditors		149	-				
69 TOTAL CURBERT LIABILITIES (64	to (B)		54451		91150	70651	
70 Issue ordinary shares		44158	44158	44158	44158	44598	
71 Indus preference shras							
72 Long term Inan. depositures, etc		3556	38082	39848	45067	33232	
73 Retained eamings and reserves				9)(55173	(64909)	(58841)	
			44031		24316	18788	
74 NO. L LONG TEAM FUNDS (70 co							
subsidiary companies.	4						
76 Goodwill, patents, trad. rrks.	etc.				Lorono	425000	
77 Number of ordinary chromisa		42500	d 4250	0 425000	425000	425000	
DECIVED FIGURE	Detri	70				4 1 1 1 2	
80 Not wirth	70+7-4	4245	5949	(11015)		(14443)	
31 Working Capital	63-69		23591		9447	9942	
82 Equity shareholders funds	7047 -	424	5 5949	(11015)	(20751)	(14443)	
P3 Total assor(tangable)	56+63		Acres a second	113652	115474	89440	
	83-69	3993	5 44151	48972	24324	18789	
84 Capital employet	83-(53+5/)			113632	1154	89440	
85 Operating assets	60+61+62			34440	38928	41060	

ANNEXURE-IX

		1)	vation	Matios	83	84	18	3	19	879	Explanation of ratios
	ef A	Deri		not profit before the capital employed	2	(4.87)		1. D. A. D. D. A. D. D. A. D.	(40.5785s	18.67)	% return on capital
	D.	8	5	soles capital employed	8				3.8	6.48	Annula turnover of capital - number of time
-	С	3	5	net profit before tax 100%	-	2.08	2.74		3.96	6.48	% profit margin
-	D	3	5	operating profit x 100%	(5.25)	(2.19)		66.4	8.77)	3.53	Gnide to managerial per- formance in using asset available to management
	E	1	12 15	added value operating asset	47.	.55		54.	84	.82	added value per d a. operating asset-use sales if added value not available. Indication of asset utilisation.
TO LOUGH	F	57-	39 50+50	Cost of soles stocks	2.33		7	2.46	1.71	2.95	Indicates turnover of stocks; high rate quards against obsolence(note 365 + F denotes days of stocks.
at be	-6	3	2/56	added value/fixed asset	2.30		2.65	2.80	5.74	8.34	Utilisation of fixed nasets.
Manageria	V	3	2 3	no. employees		-			1		Utilisation of staff & labour
Mar	I	_	3	fixed asset no. employees		1			1	3	Indicates whether capital intensive.
	J	1 8	0 1	sales working capital	. 22	-10	3.78	4.39	10.21	12.26	digh rate indicates; overtrading-lew rate indicates pror use of working capital
	E	57+	58+ <u>59</u>	stock working cppital	10	01:	2.10	1.98	6.52	3.8	fluctuations and cash shortage.
rer formance	1		0 31	av.daily sales		*	12	5	S	8 8	Collection period days credita allowed to debtors:indicates capital tiod up.Use sales on credit if available.
Tinancial re		M	69	current assets current liabilities		1.63	1.43	1.47	1.10	1.14	Cur. ratio Cur.liabilitie must be paid from current assetsratio 2 + satisfactory.
1	-		<u>6</u> 9	liquid Asset current liabilities		.53	.50	.53	0 40	83.0	Ratio 1 + satisfactory.
	vestmon-	0	334	contribution operating profit							shows extend of commit- ment to fixed overhead & hence vulnerability to fall in sale
	0	P	21+'72 8/i	fixed interest capital capital capital employeed		80.		11.	23	0.45	"Financial gearing"
	Rating as	4	37 24	ordinary earning(net) gross ordinary dividend							Ord.dividend cover-shows how company can maintain dividend heid- should be about 2
		R	Ro Ro	net profit after tax net worth	100%						Shows profitability shareholders capital enmings power from share-

		- va tur	a(€ t	rands	over	5 y r	H)	Name of company
Ref	Derivation	Batios	83	10 84	19 85	19 86	19 87	Explanation of ratios
s	13 12+(11x3/2)	material 8. B.O. parts x 100%	35.17	49.51	63.35	46.37	56.62	
T	$\frac{1^{l_1}}{10+(11x3/2)}$	labour sales + se x 100%	22.32	21.50	7.5	13.61	20.21	Cost break down
ŋ	15 10+1 (×3/2)	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/decrease
v	16 10±(11x3/2)	R F D Overhead x 100% sales + so*						in stocks,esti- mated by adding 50% to item II to cover on-cost (increase+decr-
W	17 10+(11x3/2)	sales + so*	%	1.26	1.30	1.83	0.77	onse)
x	18 10+ (11x3/2)	coneral adminoverhead x 100	1.3	3.04	2.45	3.57	3.21	

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

ASHRAF TEXTILE MILLS LTD.

Take in thousand

		Frofit and L	THE PLOCETO	1			
-	Year ended	12 1	19 83	19 84	19 85	1986	19 87
Re	f Accounts Items		000	000	000	000	000
10	Soles			104703	150296	220219	238018
11	Inventory Increase + or	decrease.		1146	1521	1654	2098
12	Other Income			2082	1305	944	1047
13	Materials & B.O. Farts			62371	71947	66085	62017
1/t	Labour	1			13205	27652	31058
15	I roduction Overheads	dl.		12806	13835	16071	7678
16	R & D Overhends	èr					
17	Selling F. Distribution	Qverhends	- 17 d	57		. 81	
18	General Admn. Overheads	14		3864	6665	7271	7678
19	Depreciation	* 10-		402	417	511	9342
20		**					
21	Interest		1	387	52/	491	213
22	Corporation Tak'	il .		5976	8751	4442	2/02
23	l reference dividend					7.00	0
24	Ordinary dividend	10		5600	5400	7200	8100
25	Increase in retained em	mings and		2	5353	17188	25479
	DERIVED FIGURES	Derivation					
50	Total Revenue	10 + 12		106785	151601	22116	25812
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	51927	44833	54810
34	Operating Profit	10+11-(13 to	19)	9871	22137	25165	3491
35	Net profit before tax and interest. Net profit after tax and interest. 34+12			11953	23442	26109	3596
36				5590	5590 14164		33046
37	Ordinary earlings	36-23		5590	14164	21176	33046
3°	Cash flow	25+19		402	57/0	17699	42388
20	Cost of sales	134.1:35 ² 11		89731	102466	1082	4 9865

Financial Year

ending date	i		179.00				
	BA PIG	di 1975	ilo ma	tion		10.0	
	Year	1983	1984	1485	1986	19.87	
Ref Accounts Items	(Notes)			670	000	000	
50 Land & Bld. (at cost)	(i)	al same	<			in,	
51 Plant & Machinery(at cost)	(i)		1	9.			
Wenicles(at cost)							
3 Interest in other companies (associated with the trade)				585	585	438	
Long term investment(not associated with the trade)		l.		2889	2889	2189	
55 Depreciation to date				18451	28779		
50 COTAL FIXED TANGIBLE ASS (50 to 54-55	ets)		9385	12283	94902	100768	
571S oction materials)	(k)		34231	25012	49690	31813	
5d Stock (AF)	(k)		1592	1808	2146	3344	
59 Steck(finished goods)			1146	1521	1545	2098	
60 Trade is berediene profision	Stores & spares		19984	16586	25782	32660	
for her slotter	Trade debtors		2603	1401	3461	3624	
51 Cash			71	97	1996	714	
62 Other easily realisable assu	rt q	1	7816	7819	18244	40476	
63 TOTAL CURRENT ASSETS (57	5 62)	1	64846	72294	111640	118076	
64 Tax duo		9496	7772	10735	9158		
65 laterest due - less other		10901	12121	29422	5906		
66 Bank overdraft		m 40 mm	14555	3938	29260	51736	
67 Dividends due and provi ions		10.10	19600	17224	14643	11522	
68 Trade creditors			2491	2163	235	1 327	
69 TOTAL CURRENT LIABILITIES (6	94 to 68)		57048		84300	78453	
70 Issue ordinary shares		-	36000		36000	36000	
71 Issue ordinary shares		1					
7 Long term loan, dejentures, et	ic.	-					
7 Retained camings and reserve			2	5355	25917	16750	
COLL LONG TERM FUNDS (7)	o 73)		36000	41355	61917	52750	
subsidiary companies.	n						
. 6 Cook . II . patents, tradeserks,	otc.						
.7 und w of ordinary notice is							
25. VED FIGURE	Derivation			1 1			
Spirit wett.	70+71+73		36002	41355	61917	52/50	
Camital	63-69		7798	290/2	27340	59623	
t and the finds	70+73		36002			52750	
and the same of th	56463	+	74231	84577	606542	21884	
e ble)		-	1/183		122242	140391	
	83-69	-	1718		113502	1377/64	
	83-(53+56)	-			23701	44816	
	60-61+62		10490	9317	27/01	1	

ANNEXURE-X

		Derivation	Valuo tren		19	19	19	7	19.	Explonation of ratios
140	rest A	35 85	not profit before tax 100%	•	95.69	\$6.58	21.35		10	% return on capital
	3	10 10	soles capital caployed		60.9	593.63	8	1.	1.6	Annula tumnover of carital - number of time
-		<u>15</u>	net profit before tox		11.4	15.55	.85		5.11	% profit morgin
		7½ P:5	operating profit x, 300%	•	13.29	36.17	12.18	1	15:95	Guide to managerial per- formance in using asset available to management added value per f of
	E	32 85	ndded value operating asset	,	0.58	\$0.0	30.0	0.73	0.80	operating asset-use sales if added value not avai- lable. Indirection of asset utilisation.
1	F	<u>39</u> 57+5 ⁰ +59	Cost of soles stocks		1.57	2.28	4 20	1001	1.41	Indicates turniver of stocks: high rate pords against obsolence(note 365 * F denotes days of stocks.
	C	32/56	added value/fixed asset							Utilisation of fixed assets.
MANAGETTET	H	32.	added value no. employees							Utilisation of staff & labour
MAI	I	<u>56</u>	fixed asset no. omployees							Indicates whether capital intensive.
	J	*C 81	gnles working capital	,	C4 X4		2.1/	8.05	00*9	iligh rate indicatoss overtrading-low rate indicates poor use of working capital
_	13	57+58+59 81	stock working capital	•			*	2.90	1.76	high rate indicates volnerability to trade fluctuations and cash shortage.
Perfe moe):	trade debtersax.		24 0			3.35 "	1.87	Collection period days credita allowed to debtors indicates capital tied up. Use sales on credit if available.
Financial T		09	current Assets current liabilities			1.14	70.1	1.32	1.50	Cur. ratio Cur. Habilitie must be paid from current assetsratio 2 + satisfactory.
		1 <u>86</u>	liquid asset current liabilities	,	0	0.10	0.22	0.28	0.57	shows whether sufficient cash etc. to pay creditor Natio 1 + satisfactory. sales vulnerability-
metment	Avestment	0 33	contribution operating profif				1.44	1.78	1.57	shows extend of commit- ment to fixe overhead & hence vulnerability to fall in sale
1	11	F \(\frac{71+72}{8l}\):	fixed interest capital capital employeed			223	M2	8	8	OFinancial goaring"
	Ruting as	4 37	ordinary carning(net) grass ordinary dividend					•		Ord.dividend cover-shows how company can maintain dividend mid-should be about 2
		R 36 80	nat profit after tax x 100 net worth	0%		15.52	34.24	34.20	62.65	Shows profitability shareholders capital

				7. 16	$\mu \mathbf{v}, \Omega^{\bullet}$	5 yr:	a)	flame of company
lac!	<i>Verivation</i>	Ention	100	84	85	19 86	19° 87	Explanation of ratios
s	13 12+(11x3/2)	material 8 B.C. parts grave	•	59.56	47.87	8.00	26.00	
т	14 10+(11x3/2)	1ebour x 100%		14.99	12.1	12.55	13.05	Cost break down
Ų	15 10+41 ×3/2)	production overheads x 100%		10.32	9.30	7.30	3.22	Note: se is the sales value equivalent of the increase/decrease
v	16 0+(i1x3/2)	ales + se*	,					in stocks, esti- mated by adding 50% to item II to cover on-cest (increase+decr-
V	17 D+(11x3/2)	selling, dist. overhead x 100%	1	05	1	50.	1	ease)
у.	18 O± (11x3/2)	colos + so x 100%		3 69	4.43	3.30	3.22	

ANNEXURE-XI

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

CHAND TEXTILE (SPINNING) MILLS LTD, DRAKA,

		Frofit and L	31111				-
	Year onded		1983	19 84	1985	1986	19 87
Re	f Accounts Item		000	999	999	000	999
0	Sales		59023	110220	109136 1140		11629
1	Inventory Increase + or	decrease -	(4602)	(8754)	1039	(749)	(176)
2	Other Income		283	378	270	2492	2868
3.	Materials & B.O. larts		35861	63185	69846	63879	63851
4	Labour	6841	14087	16036	22964	24126	
5	Production Overheads	7710	17561	15589	12517	19661	
6	R f- D Overheads	-	-	-	-	-	
7	Selling V. Distribution	3	73	27	22	15.	
9.	General Adam. Overheads		666	2819	3919	3999	4008
9	Depreciation	787	712	626	642	1237	
5	Activities to		•	-	-	11-2	+
1	Interest		2528	5130	5571	8584	10789
2:	Corporation Tax		1653	2094	2378	2094	2160
3	Proference dividend				1	-	-
4	Ordinary dividend	rdinary dividend	-	-		-	-
5	Increase in rotained car reserves.	nings and	142093	16173	18298	20267	22374
	DERIVED FIGURES	Derivation			7		
0	Total'Révenue	10 + 12	59306	110598	109506	116557	11916
1	Average daily sales	10 🕂 365	161	503	299	312	518
2	Added value	10 - 13 - 14	18560	38281	40329	49437	52288
3	Contribution	10 [±] 11-(13+3/.	445 4009	6634	8792	14102	5474
4	Operating Profit	10+11-(1) to	2723	5816	4586	1697	1452
5	Net profit before tax	34+12	3006	4194	4756	4189	4520
5	Net profit after tax and interest.	35-21-22	1353	2097	2378	2094	2160
7	"Sedinary อละกักดูง ,	36-23	-	-	-	-	*
	Cash flow	25+19	14690	16885	18589	20909	23611
9	Cost of anles	13+1/1+15+ 11	55014	103587	100432	99909	10644

Financial Year ending date

	inancial Year nding date		Naum	e of	Соприну		
		ปล1กก	co Shee	t Info	rmation		
i		Усаг	198	3 19	84 198	5 19	86! 19 85
Ref Ac	counts Itoms	(Notes)	ص	000	990	990	999
50 Land & Bld. (Ht cost)	(i)					
51 Plant & Mach	inerv(at cost)	(i)			_		
32 Vehicles(at	cost)	1100		+			
53 Interest in (associated	other companies with the trade)						
5h Long term in associated w	vestment(not ith the trade)		150	150	150	150	150
55 Deprociation	to date		1539	1 1596	16474	1/282	18600
56 TOTAL FI	XED TANGEBLE ASSE (50 to 54–55)	76	918	8 854	7 6029	10182	15772
57 Stock (raw ma	terials)	(_k)	-				
58 Stock (MIF)		(k)					
59 Stock (finish			4058	508	4 57881	92544	82577
60 Trade debtors for bad debts	s(less profision a)		2345	1959	4 12548	11676	14055
C1 Cash			5810	1257	0 21084	28846	25110
62 Other ensily	realisable assets	Ref.	13190	1915	6 20663	230/1	26610
3 TOTAL CURIC	ENT ASSETS (57 to	62)	82848	1021	54 111976	155939	148352
64 lax Gue	. A		13549	1564		20119	22280
Interest due	on loan		1	-	-		2200
66 Bank averdrat			5070	1638	1 15481	47140	32418
	tige(curent)		51509	5506	0 79029	70906	79429
Trade credito	rs -		3769	1421	1545	1335	1416
	T LIABLETTES (6h	to 68)	71897	8850	8 99853	159500	135543
O Issue ordinar		Charles	6000	600	6000	6000	6000
1 Issued prefer				1			
	a.desertures, et .						
Retained camin	ogs and reserves		14242	1632	1 18298	20267	22692
4 TOTAL LONG T	TENN FUNDS (70 to 7	3) ^y	20242	2232	1 24298	26267	28692
5 Outside minori mubaldinry com	ty interces in						
6 Goodwill, pater	ts, tradesrks, et	C.					
	nary chires issued		60069	600	694 60069	600694	600694
DZTIVED F	I GUIVE:	Derivation				00007.	000071
Not worth		70+71+73	20242	22521	24298	26267	26692
Working Capita		3-60			12123		2809
Equity shareho	lders funds 7	0+73	20242	22321	242298	26267	28692
Total asset(tar		6+63	91672	11068	118005	166121	164124
Capital employe		3-69	19775	22173	18152	26621	28581
Operating asset	.a 8	3-(53+54)	11522	11053	117855	165971	163974
Liquid Assets	6	0+61+62	12460	51320	66443	63593	65/75

١.

ANNEXURE-XI

					ue (tren		di.	19	19	19 2 7		Explanation of ratios
j.	cc1	Derivat	1	Ratios		15.20	18.91	26.20	15.73	5.11		return on capital
. 1	٨	3 <u>5</u>	1	capital employed	x xxx	-	_		-			turmover of
eer ee		10		capital caployed		9 2.98	16.97	6.01	74.28	4.06	_	% profit margin
٥	0	<u>35</u>		net profit before to		5.09	3.80	4.35	3.67	+	+	Contacto monagerial per-
	ה	3/4 E5		operating assets	100% ?	2.97	3.45	5.89	1,02	0.88		formance in using asset
	E	32 85		added value operating asset	,	0.20	P.0	*0	0.29		16.0	added value per f of operating asset-use sales if added value not available. Indication of asset utilisation. Indicates turnaver of
perferrance	y	39 57+50+	59	Cost of soles		1.36	2 04	1.75	80	3	1.33	stocks: high rate marks against obsolonce(note 365 + F denotes days of
	-	32/5	6	added value/fixed	nyset	2.02	4 48	6. 68	200	4.07	3-31	Utilisation of fixed assets.
Managerill	10	35	1	no templayees	5							Utilisation of staff & Inbour
MAR	1	11		fixed asset	•							Indicates whether capital intensive.
	-	1 <u>C</u>		sales working capital		2.2	200	1000	8.60	6.93	20.6	fligh rate indicates avertrading-low rate indicates poor use of working capital
	+	2 <u>7+58</u>	+59	stock working capital		0,	2.00	3.72	4.77	5.61	4.9	high rate indicates vulnerability to trade fluctuations and cash shortage.
	To-nonco	L 3:	-	trade debtersex.			140	49	14	37	4	Collection period days credita allowed to
	Financial perfor	M 60		current assets current limbiliti	es		1.15	1.15	1.12	1.11	1.09	-ratio 2 + satisfactory.
		# <u>56</u>	5	liquid asset current liabiliti	ies		£.	.57	39.	.45	a.	shows whether sufficient cash etc. to may creditor this 1 + satisfactory. sales vulnarability- shows extend of commit-
	Typestmont	0 3	3	contribution operating profit								ment to fixed overhead & hence vulnarability to fall in sale
	VE. 27V	F 7	72	fixed interest c	apital nyeed		.12	.63	8.	.31	2	"Financial goaring"
	0014-0	5	37 24	ordinary carning	(net) Mividend							Ord.dividend cover-shows how company can maintain dividend anid-should be about 2
			36	net profit afte net worth	r tax x	1009	6.68	9.59	200	0 00	16	Shows profitability shareholders capital eamings power from share-

Ref	Derivation	Ention 1983		198	198	51986	198	7 Explanation Of ratios
S	1) 10+(11×3/2)	material & B.O. parts x 100%	60.75	57.32	65.59	56.01	¥.88	9
Т	14 10+(11x3/2)	labour x 100%	11.59	12.78	69*+1	20.13	#Z.00	Cost break down
U	15 ; 10±(1 ×3/2)	production overheads x 100% sales + se ja	15.06	15.95	14,28	10.79	16.90	Note: se is the sales value equivalent of the increase/decrease
٧	16 + 11x3/23	H f D Overhead x 100%						in stocks,esti- mated by adding 50% to item II to cover on-cos (increase+decr-
W	17 0-(11x3/2)	sales + se* x 100/	•005	8	• 02	.0	10.	оаве)
y.	i8 10+ (11x3/2)	pries + se* K LCCF	1-12	2.55	3.3	5.50	5-44	

FINANCIAL ANALYSIS CONSULTANCY TECHNIQUES - CALCULATION SHEET.

RAZ TEXTILE MILLS LTD.

	Year ended		19 83	19 85	19 85	19/16	19 87
D 4			000	000	000	000	000
Ref			50623	57689	62819	7964	65290
-	Inventory Increase + or c	lec rease -	(652)	695	574	135	(7/1)
-			176	77 56630	40	79	156
-	Other Income		32 726		59573	35276	40798
-	Materials & B.O. larts		5425	6594	9497	12430	13334
	,labour	u 95 - 58	6592	7479	7849	6934	7265
15 Production Overheads 16 R F D Overheads							
OT.			EC	36	51	83	135
7	Selling & Distribution O General Admn. Overheads	Company and a company	55	6204	7384	7344	8528
5.	101		5268	2299	2110	1557	1712
9		re poetd	2529	2277	2		
21	Interest		1				
22	Corporation Tax		521	1722	551	-	-
23	Preference dividend						
24		10 m	1				
25	Increase in retained can		(4537)	(3243)	(4835)	(\$822)	(17582
,	DERIVED FIGURES	Derivation	1	I			
30	Total Revenue	10 + 12	50799	57766	62859	58043	65446
31	Average daily sales	10 + 365	158	158	172	158	179
32	added value	10 - 13 - 11	17245	21754	25820	22823	23/21
33		10 ⁺ 11-(13+1	(+15) 5790	9608	8499	2619	165
34		10+11-(13 to	19) 466	3367	1063	(4808)	(8496)
35		34+12	643	3444	1103	(4729	(8496)
36		1,5,6	521	1722	551	(4729)	
37	Oudinary enminds		321	1722	551	(4729)	
3/3/	Const flow	1 2(419	321	1722	551	(4729	(8 33 9)

St. 1 Water is

Financial Year

Namu of Company

ending data				,		
	dalance	Sheot	Inform	ntion		
	Year	1983	19 84	1985	1986	1 1987
Ref Accounts Items	(Notes)	0230	000	000	000	000
50 Land (f. Bld. (St cost)	(i)					
51 lant & Hachinery(at cost)	(i)	-				
5% Vehicles(at cost)		-	1			- 4
53 Interest in other companies	100	1	-	-	1	
(associated with the trade)			1			
51 Long term investment(not						
associated with the tradm)			1			-
55 Depreciation to date ;					_	
56 TOTAL FIXED TANGIBLE ASS (50 to 54-55	ETS	27523	27721	25747	25009	21305
57 Stock(raw materials)	(j;)	10238	30182	9644	8346	9432
58 Stock(FF)	(k)			_		
59 Stock(finished goods)		4280	6454	24742	39859	7997
60 Trade debtors(less profision for bad debts)		43	45	1745	1647	1397
61 Cash		336	8822	4045	872	279
62 Other ensily mealisable ass	CH .	6581	1364	3503	6115	10583
63 TOTAL CURRENT ASSETS (57 t	. 62)	21481	46971	43681	56841	29690
64 Tax due			7	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
65 Interest due on lonn		1				
66 Bank overdraft		1.00		18524	16767	9828
67 Dividends due and provi cons		24160	29084	29958	31466	41133
68 Trade creditors		419	5	5	3	3
69 TOTAL CURRENT LIABILITES (64	4 + 69)	-	-		50805	51489
7 Issue ordinary shares	1 10 007	24160 10936	51132 11026		9773	97/3
71 Issued preference shares		10936	11020			3115
72 Long term loan, debentures, etc		4(4(2	74.74.7	151	6284	5777
		+	34242			
		(2999)			(8284)	(16044)
MY YOTAL LONG TEAM FUNDS (70 to		24099	43563	18343	28985	(494)
subsidiary companies.	. Aw					
Cooc ill.patents, tradowrks,			-			<u> </u>
			1			
7 Number of ordinary alares iss	100		-			
O Not worth	Derivation	+	1200	D.EE	22404	(6271)
	70+71+73		320	7/55	22/01	
	63-60	(3422)	15839	(7402)	6036	(21799)
2 Equity shareholders funds 3 Total suscettangule)	F0+73		320	7604	1489	(6271)
EFF U	56+63	9004	74692	69428	79850	(404)
	83-69	1844		18345	29045	(494)
5 Operating assets	B3- (53+5')	29004	-	69428		50995
6 Liquid assets	60+61+6::	6960	10331	9295	8634	12259

IIC Cheal that " he has a

shareholders capital

comings power from shareholders point of view.

Nme of the company teends out r 5 yrs values Explanation of ratios Untion 100 Der vation 83 16.28) 13.27 8 6.01 35 Neg not profit before tax 100% % return on capital capital employed 10.45 General Annula turnover of 10 1.32 66. enles capital - number of time 17 capital employed 6.0248.15)1 2.8 .75 net profit before thx 100% 3 % profit margin 35. 10 saleś 666 Guide to managerial peroperating profit 1.53 x 100% 1.60 8.4 75 formance in using asset operating assets available to management added velue per a of added value 115 operating asset-use sales operating asset if added value not avai-28 33 末 \$ 8 Inble. Indication of asset utilisation. Luicatus timover of perfermente Cost of soles stocks: night rate goods etacks 57+50+59 3.8 1.15 1.31 1.57 ngninst obsolunce(note 333 365 + F denetes days of stacks. Utilisation of fixed added value/fixed asset 8 32/56 .62 Manageri 1 assets. Utilisation of staff & added value labour no. employees Indicates whether capital I 56 fixed asset intensive. no, employees ligh rate indicatos Neg.WC sales Neg.WG 9.60 3.64 overtrading-low rate P.1 working capital indicates per use of working capital high rate indicates 57+58+59 Neg.WC stock Neg. WC 7.94 2.31 vulnerability to trade working capital fluctuations and cash shortage. trade debtersax Collection period days Shree avically sales 10.42 credita allowed to 88 7 debtors:indicates capital 6 3 ė cerfo tied up.Use sales on credit if available. H current assets Cur. ratio Cur. Habilities 60 Financial current liabilities 1.11 must be paid from current 8 8 22 8 assets. -ratio 2 + satisfactory. 800 600 liquid ramet 14 shows whether sufficient surrent liabilities cash etc. to pay creditors. .16 -28 Ratio 1 + satisfactory. sales vulnerability-Tycstment contribution shows extend of commit-0 Neg. WC 12.42 operating profit ment to fixed overhead & 2.85 2.99 hence vulnerability to fall in sele 71+72 fixed interest capital "Financial gearing" capital employeed 61 67 Ordadividend cover-shows \$ 1BG pedinary earning (net) 2/1 gmss ordinary dividend how company can maintain ed blunds -binc bnebivib \$ nat profit after tax x 100% Shows profitability 10 20.83) 18.47 7.10 net worth

1.0

Ref	Derivation	Ratios	10 83	84	19 85	19 86	19° 87	Explanation of ratios
s	13 12+(11x3/2)	meterial 8 B.O. parts x 100% seles # so	49*49	45.146	65.99	60.85	62,48	
T	14 10+(11x3/2)	lebour' x 100%	12.0	11.43	15.11	21.4	20.42	Cost break down
U	15 10+(1 x3/2)	production overheads x 100% sales t se		12.36	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)	sales + se*		0.60	0.08	41.0	0.20	ease)
х .	18 10+ (11x3/2)	general admm.overhead	10.40	10.75	11.75	2.66	13.06	

ANNEXURE-XIII

REPORT OF THE

STUDY GROUP TO FRAME GUIDELINES
FOR
FOLLOW-UP OF TANK CREDIT

RESERVE BANK OF INDIA BOMBAY 1975

NORMS FOR INVENTORY AND RECEIVEDLES

- 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.
- 5.2 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 should be an understanding of the total problem and a firm but helpful approach built into the suggested norms and their implementation.

- 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 sommeth production, depending upon the availability of the materials, seasonality, etc. and
 - (vi) reactions and feed-back on Interim Report.
- Suggested Norms

 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:

85 10
W
AND RECEIVAN
AND
TORY
INVENTORY
ORD
MS P
NORMS
STED
SUCCEST
SU

Receivables

Finished

Stocks-in-process

Industry

SUGGESTED NORMS FOR INVENTORY AND RECEIVABLES

1										
Receivables and bills purchased and discounted	(3)			*	6	**		#		#1
Pinished goods	(4)	7	11	1 (For donestic donestic sala) and sud exports)		(Where stocks are in plant site)		1 (Where stocks are in plant alte)	14 (Where stocks are also to up- country centres)	7
Stocks-in- process	(0)	# (Compo- site textile mills) # (other mills)		rée		Negli-		Negligible		
Raw materials (including stores and other items used in the process of manufacture)	(2)	Cotton (Bombay and Ahmedabad areas) (Eastern areas Bihar, Orissa, West Bengal and Assam) (Other than the above areas) Other raw materials	edia e-d	24	7	# (Units near refinery)	from refinery)	2 (Units in port areas)	3 (Usits away from port areas)	21 1
Tirapul.	(1)	(i) Cotton and Synthetic Textiles	(ii) Man-made Fibre	(III) Jute Textiles	(19) Rubber Products	(a) Fertiliser (a) For nitm- genous plants		(b) For phosphatic glagts		(w) Pharma- ceuticals

Notes: (1) Raw materials are expressed as so many months' consumptiod. They includ stores and other items used in the process of manufacture.

12

(m) Dyes and Dyestuffa

2

Dhaka University Institutional Repository purchased dixcounted (3) (For con-trolled stales) and (For free sales) £ 6 200 : 2-6 Barrboo and
Wood
(To be built
up to attages
from November to Nay
and thereaffer to be Raw Materials (including stores and other items used in the process of manufacture) Gypum Limentons Coal Chemicals materials Scought down (2) (14) Engineering—Andilures (ether lina Automobile Andiluries) and Component Suppliers 75 (xv) Engineeria—
Mantheery 21
Mantheery 23
and other
Capital Equipment Suppliers (rtl) Roguschog- 2 Autoro-biles and Hydrogenated Outs Cother than Heavy Engi-(all) Engineering-Constant Durables (viii) Basic Industrial Chemicals Vc. e'able Apoilland (xt) Cement (x) Paper E

CIRCULAR OF BANGLADSH BANK

Estimate of working capital for jute mills of 250 narrow looms during jute season for the year 1988-89

For 2nd shift

Capacity utilisation : Hessian - 7.5 pound/looms/hours
 Saking - 20 pound/looms/hours

(Taka in lakh)

	Tied up period	(125 looms) 2 shifts	(125 looms) 2 Shifts
		(16 hrs.)	(16 hrs.)
2.(a) i. Raw jute ii. Finished goods iii. Work-in-process	90 days	149.81 34.96	240.25 236.61 55.21
Total stock(i+:	ix+iii)	342.65	532.07
(b) Stores and Sapres			
i. Local purchase		4.95	4.95
ii. Imported	Actual	39.62	39.62
(i + ii)		44.57	44.57
and the same of th			
3. Value of total stock (k stores	387.22	575.64

		period	Hession (125 looms) 2 shifts (16 brs.)	Sacking (125 looms) 2 shifts (16 hrs.)
4.	Total loan required for stocks and stores		348.90	518.97
	excluding 10% margin		SECRE	

5. Loan required per loom on the basis of two shirts.

Tk. 2,79,120.00 Tk.15,176.00

Notes: Raw jute price is estimated as follows:

Hessian - Tk. 300 per maund Sacking - Tk. 214 "

Average selling price: Hessian -Tk.24,465 per

Work-in-process as per valuation:

Sacking - Tk.14,490 M.T.

Hession Tk.24,465 per M.T. Sacking Tk.14,490 per M.T.

CIRCULAR OF BANGLADESH BANK

Estimate of working capital for jute mills of 250 narrow looms during jute season for the year 1988-89

For 2nd shift (7.5 hrs.)

Capacity utilisation : Hessian - 7.5 pound/looms/hours
 Saking - 20 pound/looms/hours

(Taka in lakh)

	Period period	Hession (125 looms) 3 shifts	Sacking (125 looms 3 shifts
2.(a) i. Raw jute	y month	74.00	112.61
ii. Finished goods iii. Work-in-process	90 days 3 weeks	70.22 16.39	110.916 25.88
Total stock(i+	eri (di)	160.61	249.40
		******	edeumen
(3) Stores and Sapres			
i. Local purchase ii. Imported	3 months Actual	2.32 18.57	2.32 18.57
(a + ii)		20.89	20.89
3. Value of tobal stock	& stores	189.50	270.29

(2a + 2b)

Dhaka University Institutional Repository

Tied up Hession Sacking
period (125 looms) (125 looms)
2 shifts 2 shifts
(16 hrs.) (16 hrs.)

4. Total loan required for stocks and stores excluding 10% margin

100.00 x70.x0

 Loan required pir loom on the basis of two shirts

Tk.1,30.680.00 Tk.1,94,608.00

Notes: Raw jute price is estimated as follows:

Hessian - Tk. 300 per maund Sacking - Tk. 214 "

Average selling price: Hessian -Tk.24,465 per

Work-in-process as per valuation: Sacking - Tk.14,490 M.T.

Hession Tk.24 465 per M.T. Sacking Tk.14,490 per M.T.

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
7.	Problems of working capital management in the public sector Enterprises in Bangladesh may be use to following reasons:-
	a) Lack of proper working capital policy(please tick one).
	Agree Stron- Dis- Stron- Un- gly agree gly decided
	agree

Undecided

41 :

	2	3	4	5
Agree	Strongly Agree	Disagree	Strongly disagree	Undecided
ii) Lack of prop	per Accounts R		gement.	5
Agree	Strongly Agree	Disagree	Strongly Disagree	Undedided
iii) Cash Managon	ment.			5
Agree	Strongly Agree	Disagree	Strongly Disagree	Undecided
iv) Short Term :	Investments &	Advances Manay	gement.	
Agree	Strongly Agree	Jisagree	Strongly Disagree	5 Undecided
Inherited liqu	idity gap on t	he day of nat:	ionalisation.	
Agree	Strongly Agree	Disagree	Strongly Disagree	Undecided
Problems owed	to poor cash f	low indegeneou	us to the indus	try itself.
TIOOTOND ONCO				

Too much dependence on Cash Credit of the Commercial Banks as a

Disagree

Strongly Disagree

major source of Working Capital.

Strongly Agree

e)

Undeci-ded

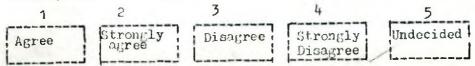
Strongly Disagree

Disagree

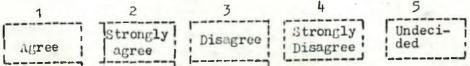
f)	Too much der for the long	endence on the -term Project	development by Financing.	idget of the G	overnment
	Agree	Strongly Agree	Disagree	Strongly Disagree	Undecided
g)	Lack of prop	per Capital Str		i.	-
	Agree	Strongly Agree	Disagree	Strongly Disagree	Undeci- ded
h)	environmenta	itical pressur al constraints of working capi	are also respon	nalisation) ar nsible for the	nd other e proper
	Agree	Strongly agree	J Disagree	Strongly Disagree	Undeci-
i)		per cost accoun	le for the poor		
	Agree	Strongly agree	Disagree	Strongly Disagree	Undeci- ded
j)	Lack of co-c	ordination betw	cen sales and	production pla	nning.
	Agree	Strongly agree	Disagree	Strongly Disagree	Undeci- ded
k)		cing policies/			es is also
	responsible	for poor manag	ement of working	4	5
	Agree	Strongly agree	Disagree	Strongly Disagree	Undeci- ded
1)	Lack of prop public enter of working of	per organisatio prises is also apital.	n structure of responsible f	finance depar or inefficient	t management
	1	2	3	4	5

Strongly

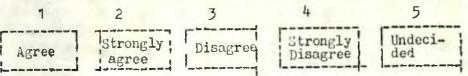
m) In competency and lack of modern financial management knowledge on the part of the financial executives are also responsible for poor working capital management of Public enterprises in Bangladesh.



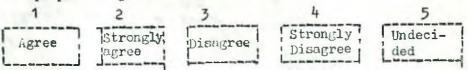
n) Absence of written guideline by the corporation bosses is also responsible for poor management of working capital.



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.



QUESTIONNAISE ON INVENTORY MANAGEMENT SCHEDULE-II

(Ple	ease tick in box)		
1.	a) Do you have seperate "Inventory Hanag	rement Depar	tment ⁿ ?
	Yes		
	b) If yes, how is it consituted?		
	*		
2.	Do you classify and codify stores	Yes	No.
3.	How do you estimate the requirements of dif Inventory? (please state the facts)	fferent grou	ps of
	a) Raw Material		
	b) Work-in-Process		
	c) Finished Goods		
	d) Stores & Spares		
4.	Do you have any standard norms or guideline		ining the

No

If yes, please state it clearly

5. a) Do you face any administrative difficulty while Planning for inventory?

Yes

No

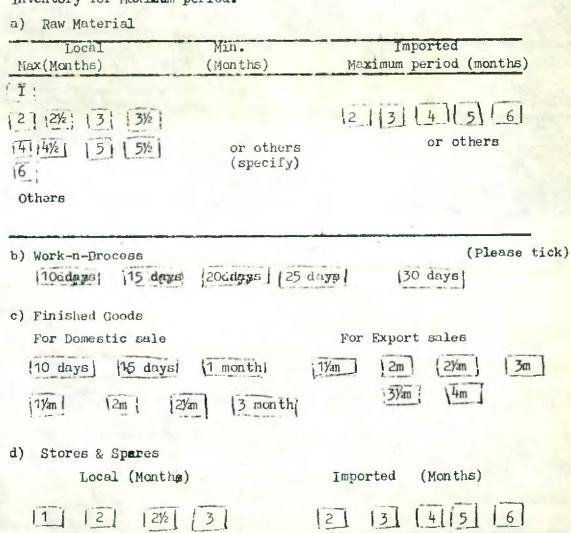
- b) If yes, please state these
- 6. What are the factors influencing the size of inventory?
 - i) Production Cycle
 - ii) Terms of Puchase
 - iii) Cost of Purchase
 - iv) Safety Stock
 - v) Lead Time
 - vi) Availability of materials
 - vii) Cost of Carrying
 - viii) Forecast of Demand
 - ix) Others(specify)
- 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 Quantity
 - 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 ? i.e. i) Process period; ii) Need for smooth production; iii) Availability of raw materials; v) Availability of Stores and Spares; v) Demand of goods.

If not, please state the reasons ...

131/2

9. Please tick which should be the appropriate norms for holding Inventory for Maximum period.



7 1 8 9 10 11

10. Does the centralised buying of raw cotton complicate the working capital management problem of BTMC enterprises ?

_ 1	2
Yes	No.

If yes, state reasons.

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?

1	2
Yes	No
	LJ

If yos, state it clearly.

QUESTIONNAIRE ON ACCOUNTS RECEIVABLES MANAGEMENT SCHEDULE-III

(please tick where applicable)

1.	a) Do you have Accounts Receivables management policy
1.	Yes No.
	b) If yes, how it is constituted?
2)	a) What factors are considered while formulating credit & collection policy?
	b) 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)	What are the sources of Information to assess the credit worthniness of the prospective debtors?
	i) Trade Reference ii) Bank Reference
	iii) Purchase accounts iv) Direct Information by sales executive & salesman.
	*
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).

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) Half 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 Good					
	(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?

QUESTIONNAIRE ON C.SH MANAGEMENT SCHEDULE-IV

1.	a)	Is there seperate Cosh Management department Yes No					
	b)	If yes, what are its functions.					
2)	a)	How do you forcasts cash inflows and outflow?					
	b)	What factors influence Cash forecasting ?					
3.	a)	Do you prepare Cash Budget Yes No					
	b)	If yes, when & how such budget is prepared ?					
	c)	What period is covered by Cash 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 No					
	h)	Tf ves. when					

5•	a)	How do you asses	s the adequacy	of Cash	balance
		to kept ?			

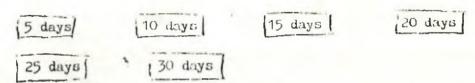
- b) What are the factors that influence the above policy?
- 6. a) Do you invest excess cash in short-term securities ?

Yes No

- b) If yes, what factors are considered while purchasing different of securities?
 - i) Profitability ii) Liquidity iii) Safety
 - c) How is such excess determined ?

iv) others.

7. Please tick which should be the appropriate norms for holding eash for maximum period of time.



How much cash credit your organisation was granted by the bank 8. during the last six years as follows:

Tk.(lakh)

1981-82

1982-83

1983-84

1984-85

1985-86

1986-87

How much interest you have paid during the last six years on 9. cash credit?

Tk' (lakh)

1981-82

1982-83

1983-84

1984-85

1985-86

1986-87

What are your overall suggestion to increase the efficiency 10. of Cash Management ?

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