

RESEARCH DESIGN.

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1.1 INTRODUCTION

Information has become an important resource in the walk of life today. Whether it is industry, commerce, defence, economics or politics, information is needed everywhere for planning and control and decision making. In a small business firm the owner-manager can monitor business activities largely on the basis of visual and personal contact. As the size of business grows and the complexity of operations, increases, managers have to rely more and more on a formal information and reporting system. In a large size industrial undertaking, efficient operation depends considerably on a systematic flow of information regarding the sales forecast, material planning, production schedule costs, profitability, customers, competitors, dealers and their sales-data.

Manager is a decision maker. Manager needs information in order to perform the following task

- 1) To set objectives.
- 2) To establish the plan for achieving the objectives.
- 3) To execute the plan.
- 4) To evaluate the performance of the organisation.
- 5) To have the feedback of the plans.

Thus, managements number one task is to get the right information in right form, at the right place and at the right time. MIS is a powerful tool available to every management to deal with data explosion and information needs right in front of it.

The concept MIS itself is a systematic and scientific approach to compile internal and external data into integrated and effective information. MIS is not new to business, only it's computerisation is new.

A computerised MIS is taken to a mean system that reacts instantly to top management's request pouring out data that show the status of the company at 60 second intervals in graphic form on television screen.

1.2 OBJECTIVES OF THE STUDY

The present study has been undertaken in order to achieve the following objectives.

- 1) To study the profile of the Barshi Textile Mills.
- 2) To design the theoretical framework of MIS.
- 3) To apply the theory of MIS in Barshi Textile Mills.
- 4) To design computerbased MIS for Barshi Textile Mill.
- 5) To summerise the study and provide the suggestions.

1.3 STATEMENT OF PROBLEMS

For the study purpose the following questions are raised and discussed.

1. What is Management Information System ?
2. What is the need and importance of MIS ?
3. How to analysis the existing manual system ?
4. How to design and implement the Computerbased MIS ?

1.3 METHODOLOGY OF THE STUDY

At this stage it is essential to explain in detail the research procedure employed in the study. Research means search again and again about the specific field of knowledge to find the facts. Research problem arises out of the field knowledge to find the facts. Research problem arises out of the field need and develops from a situation in which there is a recognition that something is wrong that conventional methods are not reliable. This is true in the area of Management Information Systems also. Therefore, the present study is undertaken for the research purpose.

The methodology adopted for this study is as follows.

Initial activities of MIS and its related departments are studied by discussing with general manager and senior officers of concerned departments. While discussion it is found that MIS has various activities (has to be prepared reports) those can broadly categorised into-

1. Daily Reports,
2. Weekly Reports,
3. Monthly Reports,
4. Quarterly Reports,
5. Half yearly Reports and
6. Annual Reports.

After this various formats of reports have been collected, 4
studied requisite information from concerned departments are
collected. Accordingly formats of reports are prepared and shown
to concerned authorities and got approved. Initially software is
tested with test data and after getting required output in
required format actually data is collected. Reports are
reprocessed which is outcome of software development.

The purpose of design and development of Computerbased MIS
model, data regarding daily production, machine efficiency, daily
sales and permanent employees salary calculations are collected
from respective departments.

The following tools of research are used.

1. Applied type of research is used.
2. Inductive and deductive of methods of research are used.
3. Qualitative techniques i.e. case study technique is used.

The main technique used for the study of MIS in Barshi
Textile mill, through seeking the top management (general Manager)
functions, problems, decisions, information gathering and reporting
practices.

1.3.1 SIGNIFICANCE OF THE STUDY

In small units there is lack of formal communication
information system. This is because the owner of the firm is in
close contact with all departments. So he has an intimate
knowledge of all happenings in the firm. But in large
organisations, size of the organisation is so large that the owners
as well as the top management people are not in position to keep
contact with activities of the firm.

In the present world particularly after the industrial
revolution both men and machines requires information to
complete the work.

Proper system of information saves time in searching the required information and also avoids duplicative efforts.

In today's competitive age there is a need for optimum utilisation of scarce resources. This calls for effective decision making. To make the decisions effective one has to have elicited information regarding the fast changing business environment. Thus up-to-date information has to be collected and stored properly so as to make it available as and when required at various management levels and times.

1.3.2 SOURCE OF DATA

The data relating to the working of the Barshi Textile Mill be collected from the annual reports & other documents such as office records, files are useful. The actual working of the Mills will be studied through provisional visits, interview with General Manager, Assistant Manager and the office and departmental members. For getting the first hand information personal contacts which were very difficult and observations were conducted. In addition to the above subject's reference books, handbooks, encyclopedias, Journals and Periodicals related to the subject and area of specialisation.

In brief, the primary and secondary sources of data are used for the purpose of the study.

1.3.3 SCOPE OF THE STUDY

MIS plays an important role in decision making for any organisation. In the present study Computerbased MIS reporting concerning various departments.

The study is computerised as computer can store house information in minimum space. Information can be accessed quickly and accurately as and when required. Most of the human errors in manipulation can be estimated using this software.

This computerbased MIS software package can be used to generate :

- Machine efficiency report (daily),
- Technical data report/Production reports,
(daily, weekly, monthly)
- Marketing information reports (daily, weekly, monthly),
- Payroll (monthly)

The reports of above developed software packages is useful to management to take decision from time to time. It also used to provide better service to cotton suppliers as well as agents of Textile Mills.

This study covers information system and reporting procedures to management in respect of production and it's related factors. It is implied that control is proceeded with the planning. Therefore, the scope of the problem, can be stated in the following manner.

1. It generates the reports required for the management regarding daily efficiency report for speed frame and ring frame.
2. It includes study of input documents used for process of planning and control of production.
3. Almost all the reports are internal. Some of them are to be submitted to Government or Head-office of National Textile Cooperation (NTC).

4. To development suitable model it is very essential to study the existing manual system in detail. It involves study of

- a) Present reports generated
- b) Frequency of each report
- c) Record maintained by MIS department
- d) How MIS department collects information from various other sections.

1.3.4 Limitations of the study :

Though we have studied 100 % units of Barshi Textile Mill Barshi, there are many limitations regarding the development of computerbased MIS. Following are the limitations of our study.

1. We have studied only one organisation i.e. Barshi Textile Mill, Barshi Dist. Solapur.
2. Financial Information System already developed and implemented, so financial reports not studied.
3. In Production Information System, we have not studied inventory control system and store stock ledger, ABC Analysis, physical stock variance report etc.
4. In Marketing Information System, we have not studied marketing research report, sales promotion report, advertising reports etc.
5. In Personnel Information System, we have not developed Computerbased recruitment, training, confidential reports etc.

With all the above limitations which are expressed and unexpressed the researcher has tried his level best to collect the information and data and implement this system for any organisation.

1.3.5 Utility of the study:

Inspite of its limitations, the study generally seems to be useful for the improvement of the organisational effectiveness with the increased accuracy and speed, lower clerical cost and mistake and errors, more accurate and comprehensive faster availability of information. Therefore, we feel that our humble efforts will be useful those organisation who are concerned with computerbased management information system.

1.4 Nature of presentation or Chapter Scheme:

For the purpose of presentation the whole study is divided into five chapter which are as follows.

1. Research Design.
2. Profile of the organisation.
3. Theoretical framework of management information system.
4. Application and development of the MIS in Barshi Textile Mill Barshi Dist. Solapur.
 - A study of existing mannual system
 - Design and implementation of computerbased MIS
5. Summary, conclusion and suggetions.