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CHAPTER - I

RESEARCH DESIGN AND METHODOLOGY

1.1 INTRODUCTION :

In the developing economy like India, production planning and control has much importance. Production control is factory's nervous system. It serves to co-ordinate the activities of a plant just as the nervous system regulates muscular movements. Production Planning and Control is a must for intermittent process. An intermittent process industry of the special order type, where products are made only to customers order type, and where repetition of such orders is unusual the case is very difficult. It requires proper control, Production Planning and Control is an effective instrument of cost control. It rationalizes the production activities. Due to proper production and control process the customers get improved production in time and with better values. Employees can get adequate wages, stable employment, improved working conditions and increased personal satisfaction. Due to better profitability and increased production investors can get security of investment and adequate returns. Such type of units are essential for economic stability and prosperity.

1.2 OBJECTIVES OF THE STUDY :

The present study is taken up to probe into the following objectives.

- . To study the intensity of Production Planning.
- . To study the adoption of Sales Forecasting.
- . To study the intensity of Product Design and Development.
- . To study the Manufacturing Methods and Processes.
- . To study the layout of plant.
- . To study the Purchase Function.
- . To study the Organisation of Store.
- . To study the Inventory Control and Material Handling.
- . To study the Adoption of Time and Motion Study, and Production Control.

1.3 METHODOLOGY ADOPTED :

In order to accomplish the above objectives it was necessary to collect the required data from various sources. The primary data is collected through discussions, personal interviews, attending meetings, observation and questionnaire. The Secondary Data was readily available through published and unpublished materials.

a. SECONDARY DATA :

Regarding the theoretical analysis and scope of production planning and control, secondary sources are made use of for this purpose the following libraries were visited.

- . Chhatrapati Shahu Central Institute of Business Education and Research, Kolhapur.
- . Shivaji University, Kolhapur.
- . D.R.Mane College, Kagal.
- . Venutai Chavan College, Karad.

The District Industries Centre was visited to collect the literature about the setup and growth of Industries in Kolhapur City. The researcher has collected the published record of selected units in Kolhapur. It includes Kolhapur Udhyaam Varta Fortnightly Bulletin of Gokul Shirgaon Manufacturers' Association and its annual report, Annual Reports of Kolhapur Engineering Association, Shirolu Manufacturers Association. The Kolhapur Steel Limited, The Ghatage Patil Industries Limited, Machinen Fabrics Polygraph (India) Private Limited etc.

b) PRIMARY DATA :

Primary data is collected through following sources.

I) DISCUSSIONS AND INTERVIEWS :

The information pertaining to the existing problems of production planning and control was elicited through informal discussions as well as structured interviews. Various dignitaries were called upon, such as, The Secretary and Chairman of Kolhapur Engineering Association, Chairman, Kolhapur Chamber of Commerce; Public Relation Officer, Kolhapur Engineering Association

Director, Small Scale Industries Extension Service Centre, Kolhapur; Chief Officer, District Industries Centre; Chief Officer District Statistical Bureau ; Secretary and Chairman, Shirol Manufacturing Association; Chairman, Kolhapur Productivity Council; Managers/Entrepreneurs of the selected units. These dignitaries provided useful information and data for the study.

II) MEETINGS :

The researcher has attended various meetings of Kolhapur Engineering Association to have an insight in the problems of plant layout system, problems of purchasing of raw material, etc.

III QUESTIONNAIRE :

A detailed and comprehensive questionnaire was prepared and pilot study was made to test the questionnaire. With the help of pretested questionnaire necessary information was collected by administering the same. (Questionnaire is given in Appendix-I).

1.4. SAMPLE SIZE :

Basically the data was collected from a sample size of 25 units by personally visiting the organisations and administering the questionnaire as well as adopting observation technique.

This sample was selected on purposive sampling basis representing the various nature of units such as foundaries, oil engine assembly, forging, casting, jobbing, manufacturing etc.

1.5 SCOPE OF THE STUDY :

There is a great need for inducting better production planning and control in all types and size of industries. The critical importance of efficiency in use of resources and of improving productivity in all spheres of the economy is included for the first time as one of the objectives of the seventh five year plan. There is also a great need on the part of the State Government to maintain strict discipline and observe financial prudence to keep inflation under control. For this purpose, the proper Production Planning and Control is necessary in all types and size of industries.

At present the various types of units in Kolhapur Stands out as a significant part of the social economy, not only in terms of production but also in terms of employment and value added. Now-a-days the technology in various industries are changing rapidly. Accordingly they have to adopt new technique quickly for their survival and growth. The study of such a crucial aspect of all these selected units in Kolhapur City is important. The present study is confined to the production

planning and control aspect.

1.6 SCHEME OF THE STUDY :

A brief outline of the chapters in which the present study is divided is as follows. :

CHAPTER : I : RESEARCH DESIGN AND METHODOLOGY :

In this chapter a detailed note on the research design, general methodology adopted to collect data and information is explained.

CHAPTER : II : INTRODUCTION TO THE THEORITICAL CONCEPTS :

In this chapter the care of theoritical analysis regarding scope of Production Planning and Control taking into account Sales Forecasting, Product Design and Development, Production Budget, Manufacturing Methods and Processes, Plant Layout, Organisation of Purchase, Organisation of Store, Inventory Management, Internal Transport. Time and Motion Study, Routing, Scheduling, Despatching, Follow-up is high lighted on the basis of critical review of the relevant literature.

CHAPTER : III : PROFILE OF KOLHAPUR CITY SET UP OF INDUSTRIES

IN KOLHAPUR :

A broad profile and historical perspective of industries in Kolhapur is presented in this chapter.

CHAPTER : IV : FINDINGS AND ANALYSIS :

In this chapter the emperical findings of the survey have been presented regarding the reality of Production Planning and Control problems faced by selected units regarding Sales Forecasting Product Design Development, Production Budget, Manufacturing Methods and Processes, Plant Layout, Organisation of Purchase, (Organisation of Store, Inventory Management,, Internal Transport, Time and Motion Study, Routing, Scheduling, Despatching and Follow up. The analysis and interpretation is made in respect of above areas of Production Planning and Control. An attempt is made to study Production Planning and Control system of selected units and also tried to suggest solution for making Production Planning and Control function efficient one.

CHAPTER : V : CONCLUSIONS AND SUGGESTIONS :

In the light of major findings of the work and conclusions reached, an attempt is made to provide a suggestions.