

S Y N O P S I S

Application of Quantitative Techniques in a selected SUGAR FACTORY

In Maharashtra, there are number of Sugar Factories running on Co-Operative basis, which manufacture various grades of sugar. These factories are also engaged in producing some by-products like alcohol, chemical products and raw material required for paper industries etc.

Quantitative techniques a branch of management science plays an important role in these type of factories. These techniques can be used for maximisation of profit, minimisation of production cost and to suggest a suitable transportation system etc.

In this study a Co-Operative sugar factory is be selected. The data required for production process profits etc. is collected from the records and by actual observation methods. All the data collected is analyse in detail and a suitable optimisation model is developed.

The main objective of the study is the role of quantitative techniques in sugar factory. The other objectives are,

1. To perform the sales analyses of sugar .
2. To study and analyses quality control procedures adopted by the sugar factory.
3. To study the present system adopted by the sugar factory for transporting the sugar cane and to suggest optimal transportation plan.
4. To develop the regression model for forecasting certain key variables on which important decisions are depending . Such as, profits, total sales of sugar (in quantity) Zonal area under cultivation of sugarcane etc.

THE CHAPTER SCHEME WILL BE AS FOLLOWS :-

Chapter I - Introduction.

Chapter II - Objectives & methodology of the present study.

Chapter III - Introduction to Quantitative Techniques

Chapter IV - Profile of selected sugar factory.

Chapter V - Analyses and Interpretation of the collected data.

Chapter VI - Development of suitable Optimization model with the aid of Quantitative techniques.

Chapter VII - Conclusions and Suggestions.

The study will enable to establish relationship between theoretical models in professional management and the actual performance of the Sugar Industry.