RESEARCH METHODOLOGY

The present research study is based on the analysis and interpretation of primary and secondary data:

1) Primary Data

Primary data is first hand data fresh and authentic for the purpose of research study. The collect the required primary data, the following techniques of data collection were used.

a. Selection of Sample
b. Questionnaires
c. Field visit
d. Interviews
e. Attending the meetings
f. Data processing

a. Selection of Sample

There are 12 cooperative sugar factories in Pune District. All 12 sugar factories are selected for the sample. The sample size is 100 percent.

1. 12 Managing Directors.
2. 300 Sugarcane producers / Farmers from Pune District.
3. 300 Sugarcane workers from Pune District.

Respondents interviewed by the researcher are as follows:

Table 1 : Sample size of the respondents.

<table>
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<tr>
<th>Sr. No.</th>
<th>Nature of Respondents</th>
<th>No. of cooperative sugar factories</th>
<th>No. of Respondents</th>
<th>Total No. of Respondents</th>
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b. Questionnaires

Three set of questionnaires will be prepared to collect detailed information for research work.

The questionnaires will have been prepared in Marathi language for convenience of members, directors and Sugarcane workers. In order to obtain reliable and correct information, the questionnaires will have been prepared in Marathi language. All these questionnaires will be pre-tested and then finalized of respondents.

The questionnaires are prepared for following respondents -

1. Managing Director
2. Sugarcane Producers
3. Sugarcane workers

Set 1 – The questionnaire for member-farmers of the Sugar Factories

The first set of questionnaire will be prepared for the member/farmers of the Sugar Factories for finding out the services supplied by the Cooperative sugar factories.

These questionnaires will be personally handed over to the selected members of the Cooperative sugar factories. This questionnaire contained information regarding name, address, annual income, benefits received by becoming a member of the Cooperative sugar factories, services rendered by the Cooperative sugar factories to its member/farmers. It also contains working and problems of the Cooperative sugar factories.
Set 2 – The questionnaire for management of the Cooperative sugar factories

The second set is prepared for managing directors of Cooperative sugar factories. For collecting the data regarding the working and management of Cooperative sugar factories. These questionnaires were personally handed over to managing directors of the Cooperative sugar factories.

Questionnaires contained information regarding name, date of registration of Cooperative sugar factories, total number of members, capital and reserve funds, dividend, deposit of the Cooperative sugar factories, and management of the Cooperative sugar factories. It also includes working and functioning of the Cooperative sugar factories.

Set 3 – The questionnaire for Sugarcane workers of the Cooperative sugar factories

The third set is prepared for sugarcane workers of Cooperative sugar factories for collecting the information regarding overall problems of sugarcane workers. The problems like salary they are getting, problems of their health, problems of the education of their Childs, problems regarding the services they are getting from the factories.

C. Field visits

The field survey will be conducted from January 2013 to June 2013

The field visits will also arranged to know the actual functions and various services rendered by the sample Cooperative sugar factories and to know the problems of sugarcane workers.

d. Interviews

In order to know working, functions and problems of Cooperative sugar factories the interview technique was adopted. The executive of Pune District Central Co-operative Banks, Executives related to taluka level co-operative
offices, commissioner of sugar factories will be interviewed.

The researcher personally visited to the selected Cooperative sugar factories and collect the information by filling the questionnaire. The researcher will observe the office records of these Cooperative sugar factories to get the additional information which will not covered by the questionnaire.

The researcher will personally talk with the chairmen, managing director and sugarcane workers of the Cooperative sugar factories and also the authorities of Pune District Central Co-operative Bank, NABARD, Authorities of cooperative department and experts in the field of co-operation and agriculture.

e. Attending the Meetings

The researcher will attend the meetings of board of directors of the Cooperative sugar factories, annual general meetings of the members of Cooperative sugar factories and will observe the proceedings of the meetings.

f. Data Processing

The data collected through questionnaire will be analyze by using different statistical tools i.e. percentages, geographical mapping and averages. Those tools are useful to draw conclusions.

2) Secondary Data

In secondary sources existing records published and unpublished will be used. It will includes following records.

1. Published data by various authors, committees appointed by government and various publications of government departments.
2. Audit reports of Cooperative sugar factories.
4. Standard reference books and international, national and state level journals on Geography, Environment, co-operation, communication, banking, insurance, rural development.

5. Research papers and conference papers in Geography, Environment, co-operation, communication information technology, commerce & management.

6. Various article published in daily news papers on Geography, Environment, co-operation, communication, rural development, trade, commerce, industry and management.

7. Published materials such as government periodicals, Materials from Deccan Geography periodicals, RBI bulletin, professional journals, magazines, official and statistic published by the bureau of statistics will have been used for the study.

8. Various articles on internet will also reviewed.

To collect secondary data the researcher will use the following library facilities available at BM College of Commerce, Pune, Jaikar Library University of Pune, Vaikunth Mehta National Institute of Co-operative Management of Pune, Gokhale Institute of Economics Pune, Shri.Shiv Chhatrapati College Junnar, Maharashtra Rajya Sahakari Sangh Pune, Arts, Commerce & Science College, Narayangaon, B.D. Kale College, Ghodegaon, Pune and J.J.T. University Rajasthan.
WORK PLAN

The present research work will be planed as under

**First year:** The field survey will be conducted.

The field visits will also arranged to know the actual functions and various services rendered by the sample Cooperative sugar factories. Secondary data as well as primary data will be collected.

**Second Year:** With the help of primary & secondary data analysis and interpretation will be made. According to tentative chapter scheme chapters will be written. Finally thesis will be prepared as per the University norms.