**Research methodology**

The researcher has adopted exploratory and descriptive research methodology for the research and title A critical study of agricultural productivity of selected crops in Sindhudurg district of Maharashtra state.

**Methodology and work plan**

For the present study the secondary data was collected for the nearly three decades i.e. the period from 2005 to 2015. For the clear cut picture of the study of patterns of production and yield is made with the help of secondary data obtained from Socio-Economic Abstracts, District Census Handbooks, Season and Crop Reports, District Gazetteers, Agricultural Statistical Information from Agricultural Department of Maharashtra, Periodicals, some published and unpublished reports and records maintained by Zillah Parishads, Panchayat Samitis, Talathi offices. These involve the description and interpretation of the regional pattern revealed through choropleth method. To get a clear picture of productivity and spatial imbalances in the productivity the crop yield and concentration indices ranking co-efficient techniques are used in order to assess the regional differences in the level of food production and to delimit the weaker areas from the point of view of agricultural productivity the relative crop yield and concentration indices in ranking order and computed into average ranking coefficient. It may be called as the crop yield and concentration indices ranking coefficient.
The study has been carried out to completed by acquiring data through primary as well as secondary data source. Required information collected from the concerned area. **Secondary Data**: Secondary data collected from related books, government agencies, research articles, University library, reports of fruit processing industries is as follows:

i. District Statistical Abstract

ii. District Census Handbook

iii. Agricultural Bulletin

iv. Fruit Processing Reports

v. Map of Sindhudurg District from authentic source like SOI.

The data will be collected from the above mentioned source to understand:

i. The growth of agriculture production from 2005 to 2015

ii. To identify tehasils of high production of agriculture

**Primary Data**: Using questionnaire method the data regarding following parameters, Cost Structure of production, processing, transportation, marketing. For understanding problems and prospects of the agriculture t production, processing, marketing knowledgeable persons will be interviewed. For the data collection survey method, structured interview and observation method was adopted.
7. OUT LINE OF THE RESEARCH WORK
The entire study has been arranged into seven chapters.
The first chapter deals with statement of the problem, study region, significance of the research work, hypothesis, objectives, data base and sources, methodology, review of literature, and the organization of the work.

In the second chapter, physical setting of the study region is carried out. It includes geographical settings, geology, relief, drainage pattern, soil, vegetation, climatic conditions, agro-climatic zones and water resources in the view of suitability of cashew cultivation in the study region.

The third chapter is related to socio-economic determinants of farmers. It includes demographic status and infrastructural services in the study region.

The fourth chapter deals with the changes in general land use pattern, cropping pattern and changes in cropping pattern in Sindhudurg district.

The fifth chapter is related to nature of agriculture growth and development in study region for the years 2005 to 2015 and levels of agricultural productivity.

The six chapter deals with the economics of agriculture and marketing.

The last chapter includes the findings and viable recommendations.