Methodology:-

General Limnological studies of Bhima river water flowing in jurisdiction of Khed Tahasil. Experimental methodology for sampling & physico–chemical analysis water from different sites of river various techniques in field work & laboratory condition of Bhima river water from the specified parameters carried out.

S.Gupta 2003, R.J. Kolo 19961996, SV.M. Prabhakar 2008, and K. A. Moser 1998 For the physico–chemical, biological parameters spots were selected for collection & the water sampling was done by following parameters:-

1) Atmospheric Temperature
2) Water Temperature
3) Topography
4) Water volume.
5) pH

Chemical parameter:-

1) Electrical conductivity (EC)
2) Total dissolved solid (TDS)
3) Biological Oxygen Demand (BOD)
4) COD
5) Carbon dioxide. (CO)
6) Dissolve Oxygen (DO)
7) Chorine(Cl)
8) Sulphate(S)
9) Nitrates (N)
10) Phosphates(P)
11) Total hardness.

As per the norms of the standard APHA1995, CWPRS. 2002 the water samples were collected in plastic bottles and partially tested in the field as well as in the laboratories. For sampling and data collection were fixed by their latitude and longitude readings using GPS machine.

**Phytoplankton and Zooplankton:-**

Sarah Toupin 2009 reviewed; The plankton was collect using a std. method. The collection of specimens was made almost regularly once in a month.

The samples were preserved this sample were analyzed in the laboratory and the percentage of each group at different sampling stations were calculated.

For sampling and data collection were fixed by their latitude and longitude readings with help of GPS.

**Work Plan:-**

The data and sample collection for plankton and water during study period. The data obtained from below mentioned aspect of the year wise studies of research work.

**First Year:-**

- To survey of Bhima River.
- Selection of study sites.
- Collection of Plankton- phytoplankton and zooplankton.
- Identification of Plankton.
- Analysis of water parameter.
Second Year:-

- Identification highly polluted river water area.
- Identification and analysis of collecting river water samples.
- Identification plankton and statistical analysis of collecting from Bhima River in jurisdiction of Khed Tahasil.