**Aims and Objective**

Indian major carp (*Labeo rohita*) being the prime cultured species in poly culture practices in India, occupy a prominent position in the aquatic system, hence the impact of heavy metal on the cellular level of this candidate species was chosen for the study. The present study is designed to assess the toxic effect of heavy metals on the fish (*Labeo rohita*). In order to achieve the aim, following objectives have been identified that lead to a logical progression through the proposed research work.

1. To assess the toxic effect of metals like copper, zinc, cadmium, nickel and cobalt in the blood and muscles of fish (*Labeo rohita*).
2. To prove that the fish (*Labeo rohita*) subjected to heavy metals show biochemical and hematological alterations in different target sites like blood and muscles.
3. To find out the percentage mortality in fresh water fish via treatment with various concentration of heavy metal compounds.
4. To carry out hematological studies on fish (*Labeo rohita*) to understand the structural alterations that occurs in blood cells due to pollutants in the environment.
5. To study energy loss in the fish (*Labeo rohita*) due to toxic effect of metals.