

SECTION AIMS AND OBJECTIVES

- 1) Characterization of study area habitat**
 - a) Evaluate vertical zonation of study area**
 - b) Evaluate water quality status of study area**
 - c) Analyse sediment quality of different zones of study area**
- 2) Study distribution and population structure of Brachyuran crabs**
 - a) Study diversity of brachyuran crab and planktonic forms**
 - b) Study density and distribution pattern of of Macrobenthic assemblages**
 - c) Study the impact of lunar cycle and seasons on density and distribution pattern of brachyuran crabs**
- 3) Study the behaviour patterns of Brachyuran crabs**
 - a) Study Intraspecific interaction in *U. annulipes* and *I. sayajiraoi***
 - b) Study Interspecific interaction in *U. annulipes* and *I. sayajiraoi***
 - c) Study Impact of body size, tide and availability of food on the Cheliped waving frequency of *U. annulipes***
 - d) Study mating behaviour of *U. annulipes* and *I. sayajiraoi***
 - e) Study Chimney building activity and mass movement of *Dotilla sp.***
- 4) Ecotoxicologic evaluation of the study area**
 - a) Analyse pollutants in water sample**
 - b) Analyse pollutants in Sediments samples**
 - c) Analyse heavy metals in crab muscle tissue and vegetation**