3.0 AIMS & OBJECTIVES
3.0 AIMS AND OBJECTIVES

Autoecological studies with respect to mosquito is very much limited. In the present study the primary aim is to examine the habitat preference and population dynamics of *Anopheles stephensi* and its subsequent impact on the malaria epidemiology of Calcutta. Thus the prime objectives of the study are listed as follows:

- Assessment of Anopheles mosquito distribution with special reference to *Anopheles stephensi* in different parts of Calcutta;
- Study the breeding and resting sites of *Anopheles stephensi*;
- Assessment of nocturnal man biting anophelines;
- Study the infection and infectivity rates of *Anopheles stephensi* and other suspected anopheline vectors;
- Study the seasonal prevalence of the incidence of *Plasmodium vivax* and *Plasmodium falciparum* malaria cases; with reference to age and sex in a malaria prone ward;
- Study the fish as a biocontrol agent in order to control vector population.