

2. AIMS AND OBJECTIVES

This proposed research work based on “Industrial Prospect of Fresh Water Mollusc, *Bellamyia bengalensis*” which was designed with these following objectives:

1. Study about the market potentiality of *Bellamyia bengalensis*, where every day it was selling in a huge quantity. Special emphasis was given, to study about the marketing transaction, on the selected market places of South-Western part of West Bengal such as, Midnapore town and its nearby market places (West Midnapore), Bankura Town and its nearby market places (Bankura) and Purulia town and its nearby market places (Purulia). Beside this study, a parallel experiment was proposed to conduct regarding, observation on seasonal selling pattern of *B. bengalensis*. Side by side, livelihood study was done on the people who are actively involved with the market transaction of *B. bengalensis*.
2. Study on the nutritional (biochemical) composition, in the flesh of *B. bengalensis* such as, analysis of carbohydrate, protein and amino acid, lipid and fatty acid, vitamins (fat soluble vitamin A and D and water soluble vitamins vitamin B₅ and B₁₂), moisture and ash contents. Beside these estimations, a parallel study was carried out on the seasonal availability or changes of nutritional parameters like protein, fat and carbohydrate in the flesh of *B. bengalensis*.
3. Study on the behavioral pattern of *B. bengalensis*, special emphasis was given on its breeding behavior, such as: type of breeding, production rate and sexual maturity level by keeping them within the laboratory based captive condition.
4. Development of value added ready to cook edible food product, such as. “Snail Soup Powder” (Nutritious health drinks) using *B. bengalensis* as well as evaluation of its self-life under the storage condition for a specific period of time.