

13. SUMMERY

Aquaculture developed an effective tool, in providing additional food resources for the increasing human population in our country and that leded in improvement of several sectors beside the finfish and shell fishes. Molluscan group are not so far lagging behind in this concern. It was observed that fresh water Mollusc, *Bellamyia bengalensis* have potential bio-economic significance.

Keeping that point the present study was conducted with a view point :-

- Economic potentiality of *B. bengalensis* was evaluated by studying market survey at the southern west part of West Bengal.
- Regarding the ethno-medicinal importance of this snail, evaluations of nutritional parameters (biochemical) were carried out.
- Beside these study, evaluation of behavioral aspect (mainly breeding behavior) was done by keeping this snail within captive condition. This study was done to observe the survivility and maturation process of *B. bengalensis* under captive environmental condition.
- Not only that, to utilize this snail as the value added edible food product, snail soup power was developed, along with its shelf-life estimations. This activity was done with a concept to utilize this snail (*B. bengalensis*) in the edible value added industry.

Through this present study, it was observed many people especially south-western part of the West Bengal, can able to earn their daily livelihood, through the market transaction of this snail. People also observed to take this snail as a one of the main source of edible items. It was noticed that this snail conceived great nutritional

significance. It can provide required level of qualitative and quantitative amount of nutritional parameters (protein and amino acid, lipid and fatty acid, vitamins etc) which were recommended by several international organizations (FAO,WHO). Beside this present study, it was also observed people depends on *Bellamya bengalensis* not only their edible source but also its novel ethno-medicinal importance. Which can able to cure several diseases such as, controlling conjunctivitis, night blindness, diarrhea, stomach upset and chronic gastric disorders, arthritis, joint pain rheumatism, cardiac diseases, controlling blood pressure, asthma, rickets, calcium metabolism, nervousness, giddiness etc.

As globally, food security problem as well as demands : resource ratio is increasing day by day, snail fisheries, related with *Bellamya bengalensis* can make a solution against these difficulties. That is why, this resources need to be turn into commercial utilization by producing several value added edible products, medicinal products etc. By forming small scale or large scale industries, a marketing process can be developed, where more monetary transaction can be occurred. Which will lead towards a social growth and help to generate socioeconomic development and enhancement the income of rural people.

Side by side, it can be stated that, conservation and management of this snail is necessary for the sustenance of local people also. That is why commercial culture is utmost necessary to get sustainable production. Up till now, no scientific culture of *B. bengalensis* has been initiated, like fish and prawn culture, in this state as well as in our country. Not only that at present *B. bengalensis* are harvested from nature like, fresh water ponds, beels, rives, canals, bheries etc, but in coming future due to aggression of urbanization, this natural resources once become limited. Therefore, to make the solution

against the mentioned problems, sustainable aquaculture culture of *B.bengalensis* should be a compulsory part. This will help to make availability of *B. bengalensis* for poverty sticken people as well as consumers.

This present study can be attributed as original work. No any previous studies in this regards were carried out. Along with, this study also open the door to judicially and scientifically utilize this fresh water mollusc ,*Bellamya bengalensis*.

Industrial prospect of any biological organism consist, which have a good biological/organic values. From these ideas, the present research study was executed, with the judicially scientific utilization of *B. bengalensis*. This concept leded towards the industrialization, regarding economic development which may lead to create, advancement and improvement of our society.