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Editorial

The basic and most important unit of the society has been the family from the beginning. For the empowerment and development of the country, first of all it is necessary to pay attention to the moral, social, economic and cultural dimensions of basic institutions like family. Balanced development of the family is very important for the development of the society. Therefore, if we want to have a complete and balanced development of the country, then we need to lay maximum emphasis on the basic institution called family. It is necessary that we should not make any discrimination between son and daughter in the family and we must explain this to our sons and get them involved in their activities. Even today, those who belong to the old belief believe that a woman cannot get any freedom, she cannot go anywhere alone, she cannot roam anywhere alone, but today's youth refuse to accept these values.

Some people also say that the importance of the walls in the house, the same importance is given to the education of the boys in the society. But how is a house made? Who are in the base of the house? The base of the house is our daughters, our girls, that means they are related to the roots. If our root becomes weak in the society, then our house or house cannot be strong at all. There is a need to understand this social context in reality.

The extent of favoritism is reached when we see discrimination in small tasks. Some people think that a girl is someone else's wealth, what job she should do. That's why some parents discriminate between boys and girls and this discrimination is visible somewhere in our behavior, in feeding and dressing. This is sheer injustice. God has given the same brain to boys and girls and today girls are proving it by bringing better results.

Girls stay at their parents' house for only a few days, so it is our duty to pay deep attention to their education, upbringing, only then we can fulfill the concept of a strong society. God has made us the trustee of our children so it is our duty to treat all members equally with full justice because both boys and girls have same power, same soul. So we should give them equal opportunities for development.

The basic objective of women empowerment is the development of women and communication of self-confidence in them. Women empowerment is important for the overall development of the society. Empowerment of women is the most important social phenomenon because they are the creators. If you empower them, make them strong, encourage them, it is better for the society. Women and men are the basis of creation and human society. Both complement each other. These are the wheels of the chariot of life by which the journey of life runs

smoothly. The role of both has been equally important for stability in family and society. The basis of change and development in a society depends on the mutual interaction of men and women, walking step by step and equal mobility of both. A chaotic situation is created in social life when any one side lags behind. The history of mankind is witness to this that where women have been neglected, the development of the society has been stunted. The role of women in creation of creation, education of children, upbringing of family is much more important than that of men, thus her position becomes central in the society. Therefore, without the progress of women, there can be no upliftment of mankind and society. As far as India is concerned "Yatra Naryastu Pujayante Ramante Tatra Devta" means where women are worshipped. The deities reside there. With this ideal any Indian woman can feel pride in comparison to the western woman. The ideal of learning in Saraswati, the ideal of wealth in Lakshmi, the ideal of valor in Durga, the ideal of purity in Ganga, even the ideal of creation in the form of Jagad Janani we find only in India.



Professor Akhilesh Shukla
Chief Editor

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Minaxi Masukhbhai Patel

Supplementary effect of methionine on the growth and survival Channa punctatus

• Umesh Shukla

Abstract- *The effect of supplementary methionine was studied in Channa punctatus. Maximum growth was observed in fourth diet containing 3# of supplementation. Minimum length and weight was recorded in control diet which has no supplementary methionine. The results show that increasing amount of supplementation stimulates the growth and survival of the fry.*

Keywords- *Methionine, Channa punctatus, Growth*

Introduction- *Channa punctatus* is a tastiest edible fish, available in all seasons. The larval rearing is an important part in all hatchery system because *C. punctatus* juveniles are sensitive and mainly accept only zooplankton at the earlier stage after that it accepts only animal protein diets due to its carnivorous feeding habit. Nose (1999) studied the methionine requirement in Japanese eel and common carp. Halvare *et al.* (1991) studied the methionine requirement in *Catla*. This paper presents some preliminary results in supplementary effects of dietary methionine on the growth and survival of *C. punctatus* fry.

Materials and Methods- In this experiment, fry were collected from Tnos rinor and kept in plastic troughs. All the time of experiment fishes were transferred into five-liter plastic troughs. Each trough contained ten fishes. Four supplementary test diets were given with duplicate from and plankton were also given regularly.

Chicken intestine is a major ingredient in all test diets. It consists of 61.62% of protein, 9.61% of carbohydrate, 14.93% of lipid and 7.62% of Ash (Arockiasamy, 2017). Chicken intestine was completely washed then boiled and ground well after it became a paste like material, then binder (1%) and supplementary methionine in different concentration were added (D.L. methionine – $C_5H_{11}NO_2S$) such as Diet I – 0%, Diet II – 1%, Diet III – 2%, Diet IV – 3%. The study was carried out for 30 days and growth was determined.

Results and Discussion- The growth ratio was slowly increased in ascending order (Table 1). Maximum growth in length and weight was obtained in fourth diet fed animals. (Growth in length 43.18% and growth in weight 209.5%). The minimum growth was obtained in control diet containing no supplementation of methionine. Maximum survival was obtained in fourth diet and minimum was observed in control diet.

Table01
Shows mean weight, length
growth and survival of *C. punctatus* fry fed with
different percentage of supplementary methionine diet and plankton.

| S.No. | | Diet I | Diet II | Diet III | Diet IV |
|-------|------------------------------------|--------|---------|----------|---------|
| 1. | Mean weight (mg) at stocking | 105 | 105 | 105 | 105 |
| 2. | Mean total length (mm) at stocking | 22 | 22 | 22 | 22 |
| 3. | Number stocked (no) | 20 | 20 | 20 | 20 |
| 4. | Rearing days | 30 | 30 | 30 | 30 |
| 5. | Mean weight (mg) at harvest | 172 | 174 | 248 | 325 |
| 6. | Mean total length (mm) at harvest | 26 | 27.5 | 28 | 31.5 |
| 7. | Survival rate (%) | 50 | 63 | 70 | 85 |
| 8. | Growth in length (%) | 18.18 | 25 | 27.27 | 43.18 |
| 9. | Growth in weight (%) | 63.81 | 65.71 | 136.19 | 209.52 |

The maximum growth and survival was observed in the fourth diet because the source of methionine is only dietary since body cannot synthesis methionine and it is very essential for growth and its deficiency caused cataract in rainbow trout (Cowey *et al.*, 2012). In the case of prawn *P. japonicus* the supplementation of based diet containing squid meal, squid meal extract and squid liver extract by 0.53% methionine gave better growth rates (Kitabayski *et al.*, 1991). The acceptance of the supplementation is slowly increased upto maximum requirement level in all cases.

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