

Feeding Both Pond and Prawn

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Theme: Circular Food

Abstract:

The demand of healthy food items is increasing in order to meet the growing demand of the world's huge population. In this regard, aquaculture is considered as one suitable source which is also currently a fast-growing sector. Almost 50% of the fish and shellfish consumed globally is being provided by the aquaculture sector. In Bangladesh, freshwater prawn (*Macrobrachium rosenbergii*) farming is one of the most important sectors contributing significantly to the national economy of this country. It has attracted considerable attention for its export potential. But with the increasing demand for food there is an extra pressure on this sector to increase productivity. To mitigate this extra demand, reliance on the supplementary feed is getting increased in aquaculture besides using natural food. With the vulnerability of the cost of these supplemented products the overall production cost gets unpredictable. The nutritious pond concept is comparatively a new approach which will enable the pond itself to contribute significantly to the diet of the farmed prawn. The carbon-to-nitrogen ratio can be balanced through feeding the prawns in pond that will in turn, promote naturally occurring food in the pond food web. It will not only reduce the production cost, (which is the main concern of the local farmers of Bangladesh) but also it will limit the imbalance of nutrient dynamics in the pond ecosystem.

Pictorial Abstract:

