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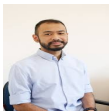
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## ADVANCED FARMING SYSTEMS IN AQUACULTURE: STRATEGIES TO ENHANCE THE PRODUCTION

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**Introduction**  
The world's appetite for fish is steadily growing. The aquaculture industry has greatly improved performance over the past 20 years, producing more farmed fish per unit of land and water, lowering the share of farmed and fish oil in many aquaculture feeds. However, doubling aquaculture production without further increasing the industry's efficiency could lead to a doubling of environmental impacts. Unless the aquaculture industry is able to boost productivity, the limited availability of land, water, and feed may constrain its growth. The present aquaculture system faces many challenges, mainly, water-quality management, harmful diseases and parasites, development of appropriate feeds and feeding practices, hatchery as well as grow-out technologies. These all provide considerable scope for the development of new aquaculture systems or technologies to face these challenges. It has wide range of approaches that can improve substance and commercial aquaculture production and management. Some of the new development in aquaculture systems for enhancing the

**ABSTRACT**  
Aquaculture is one of the most emerging sectors growing the industries, providing an ultimate livelihood option to a millions of people of India. The current aquaculture production is not able to meet the growing demand for fish due to intensification of human population. Aquaculture must have to move towards intensification to meet the rising demand, to contribute more effectively to the reduction of poverty and malnutrition, and to become ecologically more sustainable. New technologies will make it possible for sustainable aquaculture to become the new global standard. In order to improve the socio-economic condition of the farmers, this expansion of aquaculture production needs to take place in a sustainable way through the applications of new farming interventions viz. Integrated farming, Aquaponics, Recirculatory aquaculture system (RAS), Non-feedable Technology, Biofloc technology (BFT), Compensatory growth Technology etc.

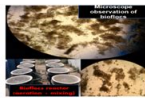


Fig. 1. Observation of bioflocs under Microscope

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