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## Efficacy of biofloc technology (BFT) in water quality, growth performance and body composition of cyprinus carpio fingerlings

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Purrently springing ultimatum of protein diet in this whole world and in this situation aquaculture is very helpful to fulfill the routine demand of proteinaceous diet through fish. Besides this, Biofloc Technology (BFT) is one of the futuristic waste management and nutrient retention technologies offer a solution to resolve this problem. This 70-day experiment was performed to assess the efficacy of biofloc technology (BFT) in water quality, growth performance and body composition of Cyprinus carpio. Biofloc production was separately carried out in two fiberglass reinforced plastic tanks (BFT1 & BFT2) of 500-liter capacity; bottom area 1.3 m2. Each tank was initially manured with Single superphosphate, urea, groundnut oil cake, semi-dried cow dung and poultry drop also after that only in BFT2 yam was used as carbon source. On the other side, Two FRP tanks (T1 & T2) of 500-liter capacity, bottom 1.5 m2 stocked with 7 fingerlings of Cyprinus carpio. Initial Average weight and length of the fishes was 46.85 g & 15.42 cm in T1 and in T2 46.42g & 15.42cm respectively. During this experiment supplementary feed was prepared with the help of different feed ingredient like; fish meal 10%, soybean 40%, mustard oil cake 15%, rice polish 10%, wheat flour 15%, broken rice 4%, Soybean oil, molasses and vitamin-mineral mixture 2% respectively. Feeding rate was twice a day with experiment supplementary feed in T1 & T2 but the use of Biofloc was different in both tanks like; in T2 use of 1-liter biofloc from BFT2 only once in a week and in T1 it was 1 liter from BFT1 daily. At the end of an experiment, the result revealed that highest final mean weight gain observed in T1 90.71g as compare to T2 75.57g, Daily growth rate and total percentage weight gain was also recorded highest in T1 0.049g/day & 93.59% as compare to T2 respectively. FCR was lowest in T1 2.09 and SGR was 0.987 in T1 as compared to T2 2.84 & 1.156 respectively. Body composition of Cyprinus carpio in T1 & T2 was almost same with minute fluctuations like; water quality parameter. The results obtained in this experiment showed that the overall growth performance was good with BFT1 as compare to BFT2 respectively.

## **Biography**

Paramveer Singh has completed his Masters in Fisheries Sciences (Aquaculture) at the age of 25 years from Barkatullah University Bhopal and Graduate from College of Fisheries, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana Punjab, 141004, India. He is now a Assitant professor in Dolphon PG college of science and agriculture, Chunni Kalan, Fatehgarh Sahib, Punjab India. He has published more than 5 papers in reputed journals and has been serving as an Associate Editor in editorial board member of International Journal of Fisheries and Aquatic Research ISSN: 2456-7248.

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