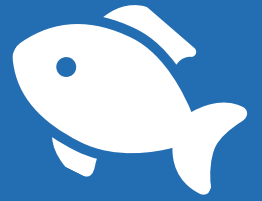


3 Biofloc Fish Farming Mistakes that No Guru Would Dare Tell You



Prepared by
High Profit Earning
Biofloc Fish Farmers
of Blueweight



A Quick Read Pdf Report On
Accurate Protocol for Tank Preparation, Parameters & to Establish Floc Formation.



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Chapter 1:

The Ideal Water Parameters in Biofloc Systems

pH	6.5-8.5	Add CaCO ₃ /Dolomite
DO	> 4.5 ppm	Check by Aquasol Kit
TAN	< 0.5 ppm	
Nitrite	< 0.1 ppm	Check by API Master Kit
Temperature	27-32 C	
Hardness .	75-200 mg/L (Mg, Ca)	
Alkalinity	75-200 mg/L (NaHCO ₃)	
TDS	< 400 ppm	
Turbidity	30-80 cm	Measure by Secchi disc
C:N Ratio	15-20	

Protein Content of the Feed Should be 15-20% only

Points To Note:

1. Regular Monitoring is very important. This is your control.
2. Record in Computer and display graphs.
3. Oxygen, Temperature, pH, Alkalinity, Ammonia, Nitrate and Nitrites should be monitored mandatorily.
4. Failing in any one of the above conditions could be disastrous. It is the No.1 Mistake made by failing Biofloc Farmers. It has to be taken care very well.

Chapter 2:

C/N Ratios of Feed

PROTEIN CONTENT (%)	C/N RATIO
15 .	21.5
20	16.1
25	12.9
30	10.8
35	9.2
40	8.1

Note :

1. Good C/N Ratio is 15-20 For Biofloc Systems.
2. We have to keep good nutrition with required protein, lipids (fats), Vitamins & Minerals.
3. In Biofloc systems, we limit water exchange.
4. Organic Residues Accumulate. Ideal conditions for bacteria required.
5. Fish eats the bacteria. Feed is recycled. So accurate C:N Ratio to be maintained.
6. The Protein content of the Feed should be less than 20% in Biofloc. This is the No.2 Mistake where many Biofloc farmers just ignore. Care should be taken here.

Chapter 3:

Initial Tank Preparation

For 1000 Lt

Sea Salt	0.1kg/m ³
Limestone (CaCO ₃) or Dolomite (MgCO ₃)	100g/m ³ 200g/m ³
Molasses	100ml/m ³
Everfresh Pro Biofloc	50 gm/m ³
*Established Safe Tank water	200 litre
Low Protein < 20% Content feed	0.25 kg/m ³

Note :

1. Add all ingredients above for 1000Lt water, mix well and aerate for 1-2 weeks at least before stocking, to establish Nitrifying bacteria and flocs. Ensure pH is between 6.5-8.5, Ammonia and Nitrite Levels are Zero before stocking.
2. Provide 1.76LPM of Aeration per 10kg Biomass. Use Air Lift/Omega Air lift pumps.
3. Adding *Established Tank water with grown Nitrifying bacteria can accelerate the Floc formation. However it is optional, as **Everfresh Pro Biofloc** contain Nitrifying bacteria.
4. Floc density for Tilapia 60ml/L
5. Keep Fish Density 40kg/m³ or less (by shipping weight)
6. Diseases are rare in Biofloc. However, if noticed, fish should be shifted to a clear water Hospital tank or should be given internal treatment via feed. The product RDC of Blueweight, can relieve from 12 infectious diseases. For more info on this, mail to info@blueweight.com

Chapter 4:

How to Add More Water to Tank

Generally to make up water lost due to evacuation of excess floc or evaporation, we follow the below procedure

Iodine free Sea Salt	0.1kg/m ³
Limestone (CaCO ₃) or Dolomite (MgCO ₃)	50g/m ³ 100g/m ³
Molasses	50ml/m ³
<i>Everfresh Pro Biofloc</i>	50 gm/m ³

Above ingredients should be mixed for every 1000Lt water addition,
Do not feed fish for 24 hours after each water change.
Test for pH, Ammonia and Nitrites few hours after water change.

Chapter 5:

How to Prepare the Fish Feed & Control Floc density to desired level

Feed with <20% Protein	4kg
Clean water	1 liter
Everfresh Pro Biofloc	100gm

Mix the above ingredients (or in the proportion) well and dry in shade and use the feed within 7 days. Add 100g of Lime (CaCO₃)/kg of feed, if needed to keep the pH.

To Control Floc Density :

1. The Tank Floc density can be adjusted by controlling the flow rate through settling tank by controlling the air flow to air lift pump.
2. If floc density rises above 60ml/L, remove the excess solids by draining or increasing the flow rate through the settling tank.
3. To Increase the Floc density add low protein (P) Feed along with Carbohydrate (3.1P-0.25). Eg. For every 1kg of Feed of 25% protein, add 1000g(3.1*0.25-0.5) =275g of Carbohydrate (Eg. Starch in a fine milk form).
4. Note the Carbohydrate should be added in 30 minutes after the feeding.
5. Quick spikes in Ammonia can be dealt using **Everfresh Pro Biofloc**, (which can be used once in every two weeks), the long term control of Ammonia can be achieved using cheap Carbohydrates like starch. Do not change the source of Carbohydrate
6. If there's a formation of Nitrites in the Tank, increase the air flow to the tank, add aeration at any dead zone present or rearrange the aeration points.
7. Also add sea salt equal to 5-10 times the weight of Nitrite in the Tank to prevent Nitrite poisoning in Fish. Eg. 2ppm Nitrite in 20m³ of Pond, means 20x2g=40g Nitrite Add 200-400g of Salt.

The above matter on biofloc has been collected from the courtesy our best Biofloc farmers who have got Best Results.

Disclaimer:

Livestock systems are subjected to various water parameters and dynamic situations. Hence they are risk prone. All the followers of above protocols must be used at your own risk. Blueweight is responsible only for producing Quality Probiotic but do not intend to take further liability.

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There are **21,134** farmers who have used Everfresh Pro all Over the world by Jan 2020.



They are **156%** more likely to use it repeatedly to keep the environment clean biologically.

