

Success Story of RKVY Scheme WBCADC Sonamukhi Project .

Topic- Bio floc Fish Culture for High Density Fish Cultivation

Category- Bio floc Fish Culture.

Challenges-

- The demand for animal protein is increasing year by year it is a challenge to provide quality protein by safeguarding its natural resources for future generations.
- Huge market demand which is comparatively greater than the production rate.
- Lack of water bodies to harvest fishes.
- Contamination caused by the pesticides.
- Pollution in the natural water bodies.
- Climate change will affect fish and their habitats. Warmer temperatures will influence the abundance, mortality rates of fish in pond/river determine what species can be farmed in future.

Initiative-

- High stocking density and rearing of aquatic animals requires wastewater treatment. Biofloc system is a wastewater treatment which has gained vital importance as an approach in aquaculture.
- The principle of this technique is the generation of nitrogen cycle by maintaining higher C: N ratio through stimulating heterotrophic microbial growth, which assimilates the nitrogenous waste that can be exploited by the cultured species as a feed. The biofloc technology is not only effective in treating the waste but also grants nutrition to the aquatic animal.
- This technology is based on the principle of flocculation within the system.
- It is a protein rich live feed formed as a result of conversion of unused feed and excreta into a natural food in a culture system on exposure to sunlight and vigorous aeration.
- Gov. given the opportunity of establishing a Biofloc Culture System under RKVY Scheme, Where W.B.C.A.D.C Sonamukhi Project was the key beneficiary and farm was constructed on her land.
- The total cost of Biofloc Culture System farm construction was Rs. 88000/- from which Rs. 88000/- was subsidised by RKVY Scheme.

Key Result-

For first batch of fish (4month) Rs.40000/ profit is generated. From next batch profit is expected to be around Rs.40000-50000/-

It can be a great way to provide employment to marginal youth.

Income can be generated at home without going anywhere.

Impact-

- Biofloc fish growth is comparatively two times that of pond fish.
- Eco-friendly culture system.
- It reduces environmental impact.
- Judicial use of land and water
- Limited or zero water exchange system
- Higher productivity (It enhances survival rate, growth performance, better feed conversion in the culture systems of fish). → Higher biosecurity.
- It reduces utilization of protein rich feed and cost of standard feed.

Lesson learned –

- Higher productivity (It enhances survival rate, growth performance, feed conversion in the culture systems of fish).
- Higher biosecurity. Cost-effective feed production. It reduces utilization of protein rich feed and cost of standard feed.
- A good nutritional value is found in biofloc. The dry weight protein ranges from 25 – 50 percent, fat ranges 0.5 – 15 percent. It is a good source of vitamins and minerals, particularly phosphorous.

ADDITIONAL INFORMATION :

Name of the beneficiary : WBCADC, Sonamukhi Project

Year of Approval : 2021-21

Address: WBCADC, Sonamukhi Project, Nachanhati, Radhamohonmur, Sonamukhi,
Bankura, WB-722207

Checklist :

No.	Question to consider :	Yes.	No.
1.	Is the story interesting to the target audience of the Project / Activity report ?	Yes	
2.	Does the story explain what new insights the project brings? What is the main lesson learned from the story? Does the story describe a key insight on what works and what doesn't and something that future projects could build on ?	Yes	
3.	Does the story describe the outcomes the project produced and people who are benefitting? What changes-in skills, knowledge, attitude, practice, or policy-has the project brought about and who is benefitting from this changes ?	Yes	
4.	Does the story make a compelling point that people will remember ? Does the story show how the project makes a difference to improving livelihoods and lessening poverty	Yes	
5.	Does the story provide and interesting fact that people will remember? For example, how yield increased, how many hectares of land could become more productive from this innovation or technology ?	Yes	
6.	Does the story explain what kind of impact this innovation or technology could have if scaled up ?	Yes	
7.	Does the story show which partner contributed and how ?	Yes	
8.	Does the story include quotes from stakeholders or beneficiaries ?	Yes	
9.	Have I provided links to other media (Journal articles, website news, newsletter, blogs, annual reports or other Programme / Projects) that also feature this story ?		No.
10.	Have I provided the contact details of people who can provide more information ?	Yes	



Bio-Floc Model