Comparative Analysis of the Role of Technical and Economic Components in Improving the Efficiency of Traditional Shrimp Farming and Biofloc System in Bushehr Province Using Matrix (SWOT)

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Abstract

According to Iranian fisheries organization statistics, the number of shrimp farms in the country until 2019 was 780 farms, which are designed as soil and with old methods. Due to the changes in the traditional system to the modern system in most countries of the world, changes in our country must also begin widely. This article examines a comparison between traditional farms and Biofloc farms using the SWOT matrix. The results show the vast benefits of the Biofloc system from an economic, technical, ecological and environmental perspective. Although the costly investment to build a Biofloc farm is much higher than the traditional earthen pool system and in a short time will increase the cost of shrimp compared to the traditional system, in the medium term due to the quality of shrimp produced and the right size in addition to total return Investment costs also generate more profits, while if we estimate the damage to the region's ecosystem and use green accounting, in the short term, even earthen ponds have extensive financial losses that affect the region's aquatic ecosystem(Dashtian Nasab, A., Banadakhshan, R. 2016). They import. This article examines the analysis of the situation and development of shrimp farming as a qualitative analysis. Extensive planning should be started to create a suitable platform for converting traditional farms into a Biofloc system (Austin, B. 2012). Or prevent the effects of changes in weather conditions on aquatic farms and

achieve sustainable production. Here are three scenarios, including the continuation of the existing situation, which will add to the problems, and the second scenario is a 20-year long-term plan to achieve advanced Biofloc technology systems and a 10-year plan to accelerate all changes to the traditional Biofloc technology system. The third scenario is Target Scenario, and in fact only the third scenario can achieve a wider global shrimp market.

Keywords: Shrimp Breeding, Biofloc System, Matrix (SWOT), Bushehr, Comparative Analysis, Economic Components.