Success story on Jayanti Rohu: A game changer for a farmer in Fishery Sector

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Profile	Farm details
Name:- Pintu Sharma Village :- Rupashpur Age:- 45 Education : Secondary Aadhaar: - 533865278180	Year of establishment:- 2015 Pond area:- 5 kani Culture species:- IMC, Tilapia, Tengra Water source :- Rain water, ground water Agri- Horti-Live stocks- fish integration

Introduction

Jayanti rohu is a selective bred strain of Rohu (*Labeo rohita*) which is developed by ICAR CIFA, Bhubaneswar. The selective breeding program initiated in the year 1992) in collaboration with the Institute for Aquaculture Research (Akvaforsk), Norway. The aim of the project was to develop a genetically improved variety of rohu, which have higher growth rate compare to native one. Jayanti rohu considered as the first genetically improved fish in India and It has shown improvement in the gain of 17% per generation for growth trait. Jayanti rohu was first released in 1997 during the 50th anniversary of Indian Independence (Swarn Jayanti)

About the farmer

Pintu Sharma is a diligent farmer from Kamalpur, who is fully devoted to his profession. He is a proficient agriculturist and actively participates in allied activities that

help him achieve his farming goals. Apart from his core farming practices, he has also invested in the development of a flourishing fishery on his land, which has become one of the primary components of his farming system.

Pintu Sharma is a strong advocate of integrated culture practices and believes in the importance of interlinking various farming practices to achieve optimal results. He understands the significance of balancing multiple farming practices like agriculture, horticulture, livestock rearing, and fisheries in a holistic manner, thereby creating a self-sustaining and resilient farming ecosystem.

Challenges:

Despite implementing the best aquaculture practices, Pintu Sharma has not been able to achieve the desired results. He realizes that the poor quality of the seeds is the main reason behind the low production, and he is determined to find a solution to this problem. Pintu Sharma knows that using high-quality seeds is essential for the success of any aquaculture venture. He understands that the quality of the seed is a critical factor that determines the overall growth and productivity of the fish.

Initiative:

In order to address this challenge, he has taken it upon himself to explore various options available to him. He has been actively researching and consulting with experts in the field, such as the Krishi Vigyan Kendra (KVK), to identify the best possible solution to his problem.

Due to his deep interest and experience in fish farming, the KVK has selected Pintu Sharma as a beneficiary for their On-Farm Testing (OFT) program. This program aims to introduce and assess the growth performance of a new variety of Rohu called Jayanti Rohu in comparison to the native Rohu species. The KVK has pledged to provide assistance to Pintu in preparing his pond for the introduction of the Jayanti Rohu fish, and they will also provide him with certified Jayanti Rohu fish seeds sourced from the Central Institute of Freshwater Aquaculture (CIFA) in Bhubaneswar.

Key result:

Pintu Sharma was able to not only address the issue of obtaining high-quality fish seeds but also gain valuable knowledge and experience in fish farming practices. Through the guidance and support provided by KVK, he was able to successfully grow and harvest the new variety of fish on his farm, which resulted in higher profits and improved productivity.

Jayanti rohu production compared to native species		
	Native rohu	Jayanti rohu
Length (CM)	32.6	37.4
Weight (gm)	861.6	1040.5
survival (%)	85.3	92.1
Total production (IMC)	1478 t/ha	1832 t/ha
Net profit	152000	210000

Impact: -

This program not only benefited Pintu Sharma but also helped KVK to promote the use of new and improved agricultural technologies among farmers, leading to the overall growth and development of the agricultural sector. The district fishery office has also taken the technology from KVK and now promoting its breeding and seed production.


Field visit of Fishery Scientist of KVK Dhalai in Pintu Sarma's Fishery Unit