



WORLD FISHERIES DAY 2021 AWARDS



Best Fish Hatchery – Sapan Fish Seeds Farm

GENESIS:

Sapan Fish Seeds Farm was started by Shri. Prabhakar Patra, father of Shri. Sapan Kumar Patra around 20 years ago as a small-scale aquaculture project. Spread over an area of 15 ha, species namely Rohu, Catla, Mrigal, Common Carp, Grass Carp, Silver Carp, Jayanti Rohu, Amur Carp are being reared in the hatchery. To gain more knowledge and insights on aquaculture with a vision to take his father's business to new heights, he joined Odisha University of Agriculture and Technology (OUAT) and completed his Bachelors in Fisheries Science (BFSc) followed by Masters in Fisheries Science (MFSc) from Central Institute of Fisheries Education (CIFE) in 2011. Shri. Sapan Kumar Patra, M,Fsc in aquaculture joined the business of his father from 2010 onwards after he completed his under graduation.



INFRASTRUCTURE:

The established facility is spread over an area of 15 ha. Back in 2002, a Chinese circular hatchery was established with an investment of Rs. 15.00 lakhs spread over an area of 4 ha consisted of one spawning and 4 incubation pools. In 2006, a rearing and packing unit was built over 10 ha area with an investment of Rs. 35.00 lakhs.



Shri. Sapan Kumar Patra received his first financial assistance back in 2010, under Fish Farmers Development Agency (FFDA) Scheme, an amount of Rs. 2 lakhs for pond construction. He also received

financial assistance under various Central and State Government Schemes, which helped him to expand his hatchery unit further. Under Blue Revolution Scheme, he received the financial assistance for an amount of Rs. 4.50 lakhs for pond construction, and during FY 2019-20, an amount of Rs. 4 lakhs was granted to him under Matsya Pokhari Yojana of Odisha Government and during FY 2020-21, he was chosen as one of the eligible beneficiaries under PMMSY scheme for 'Construction of Hatchery' and was provided subsidy of Rs. 15.00 lakhs.



At present, there are 20 tanks as nursery ponds, 28 rearing ponds and 3 large brood stock tanks in his unit. Seven different species are being cultured in the unit namely Grass Carp, Silver Carp, Catla, Common Carp, Improved Variety of Jayanti Rohu, Amur Carp, and Indian Major Carps.

MAINTAINANCE AND STRATEGIES ADOPTED IN THE HATCHERY:

The hatchery adopted Best Management Practices (BMP) to raise healthy brood stock.



Regular exchange of brooders from various sources is being done to avoid inbreeding, raising selective brooders and adopting probiotic-based biosecurity measures in the hatchery unit. To control the spread of disease, both organic methods like use of lime and probiotic based systems are being used.

The hatchery ensures proper sanitation for disease-free seeds, maintains water quality, uses river water for stress-free breeding and avoids usage of any kind of antibiotics and drugs. This keeps their breeding process chemical-free and natural. One of the striking facts of the hatchery is the larger reservoir on elevated land replaces the overhead tank and continues pumping

requirements which can sustain power failure from 24-36 hours.

Also, a small Lab Testing facility for water and soil testing has been established which is an NFFB funded AOC centre in collaboration with FISHCOFED where the testing kits are made available at the field and the farmer's ponds. A packaging shed has been set up for poly-oxygen packing and an aerated pick-up van facilitates seeds and brood transport. The hatchery further plans to incorporate the latest technologies, breed new species, develop new trends in the aqua industry and train young minds for aqua-entrepreneurship.

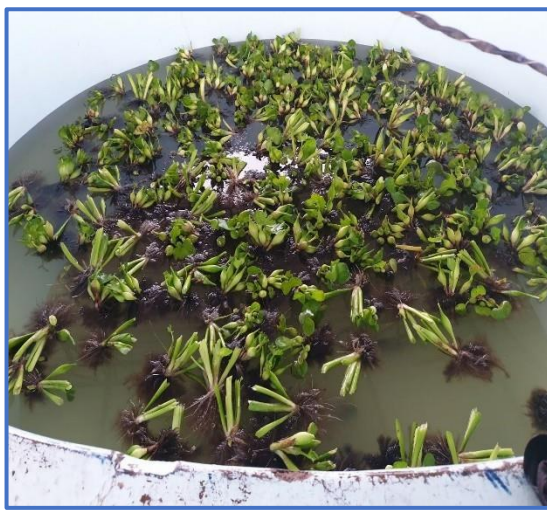


Shri. Sapan also introduced semi-intensive method, scientific feed management along with nutrition feed management in his firm. To raise quality breeder seed of improved varieties and dissemination of the same among farmers, in 2019, he entered into MoU with NFDB-NFFBB (National Freshwater Fish Brood Bank), Bhubaneswar as a Network Hatchery and raises improved broods of Amur Carp, Jayanti Rohu and Improved Catla.

MARKETING:

The hatchery supplies spawn, fingerlings, fry to farmers of Odisha and Chattisgarh through their extensive marketing network (commission-based agents) spread across

these States. More than 2,200 farmers are associated with the hatchery and after having a proper consultation on available infrastructure, ponds, water health etc. with the farmers, the hatchery supplies them with seeds of different sizes and quantities. Spawn is supplied in oxygen packed polybag packing; and fry is sent through trucks and fingerlings are supplied through aeration fit transport to the network farmers. During the FY 2019-20, the hatchery has supplied 70 million spawn, 12 million fry and 2 million fingerlings to 1,400 farmers across States.



OUTCOME OF THE HATCHERY OPERATIONS:

The hatchery has produced about 270 million spawn of IMC, Exotic Carps and Improved Varieties Carps during the year 2017-20 impacting lives of 3,500 fish farmers by supplying them with quality seed. This has generated a net profit of Rs. 34.00 lakhs during the said period.

In the unit, he has employed 16 permanent staff and 50 seasonal staff are hired during the production seasons for 4 months. With this Shri. Patra is contributing towards empowering the local community of his district. Further, to



disseminate the information and learnings on



aquaculture, study tours of students from Agriculture Universities, exposure visits of SHGs and farmers are being conducted to his farm to understand the best practices and learnings adopted by Shri. Sapan Patra. On an average, per year around 300 people visit his farm. He also shares his knowledge with farmers and guides them to adopt aquaculture

for better returns and as a source of livelihood.
