

Success story



REGIONAL RESEARCH STATION-BAHARA
ICAR-CENTRAL INSTITUTE OF FRESHWATER AQUACULTURE
ICAR-CIFA GENETICALLY IMPROVED SCAMPI DEMONSTRATION
UNDER PMMSY (NSICMP) PROJECT, DOF, GOV OF INDIA

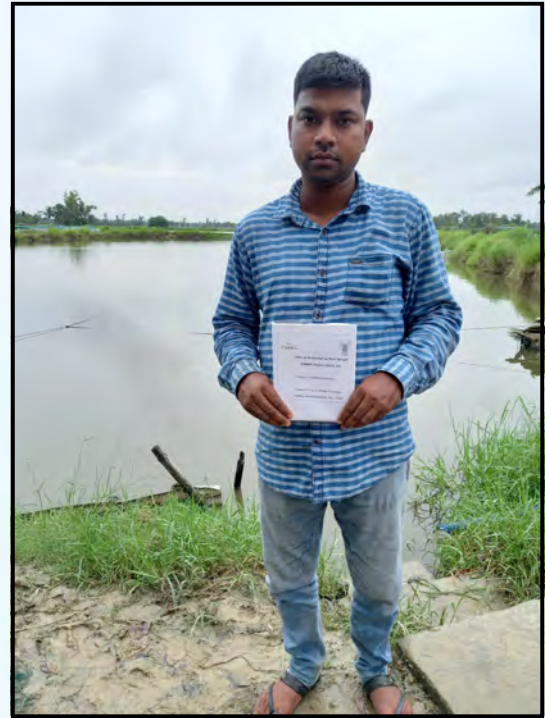
NO.	POOND-1
OWNER NAME	M.R. SUBHRAJYOTI SAHOO
LOCATION	HALDIA, EAST MIDNAPORE
CO-ORDINATES	89°02' E, 22°11' N
POOND AREA	0.28 HECTARE
FISHES STOCKED	CATLA, ROHU, GI-SCAMPI
POOND SIZE	CARPS-ADVANCED FINGERLING, GI-SCAMPI-JUVENILE
FEEDING	COMMERCIAL FEED, SARGOLAND NUT OIL CAKE
MANAGEMENT	ORGANIC FERTILIZER, INORGANIC SINGLE SUPER PHOSPHATE



ICAR-Central Institute of Freshwater Aquaculture
Indian Council of Agricultural Research
(An ISO 9001:2015 Certified Institute)
Kausalyaganga, Bhubaneswar-751002, Odisha, India

West Bengal farmer set milestone producing 'CIFA-GI Scampi'TM,

Name- Subrajyoti Sahu
District- Purba Medinipur
State- West Bengal
Age- 30 Years
Mobile No- 9593736050
Occupation- Fish farming
No. of ponds- 04
Pond type- Perennial pond
Years of experience- 05
Landholding- 04 acre
Family Member- 04



'CIFA-GI Scampi'TM is a genetically improved and fast-growing strain of giant freshwater prawn *Macrobrachium rosenbergii* (scampi) developed by ICAR-CIFA through genetic selection in collaboration with WorldFish, Penang, Malaysia. Multi-location trials of 'CIFA-GI Scampi'TM were conducted in different states across India. West Bengal being the leading producer of fish was also selected for conducting the on-farm trial.

Mr. Subrajyoti Sahu, an experienced and professional fish farmer from Haldia, Purba Medinipur, West Bengal, was selected as the lead farmer in August, 2021. He owned four ponds and one of his ponds measuring 0.25 ha area was selected for demonstration of 'CIFA-GI Scampi'TM in carp-scampi polyculture system under the Central Sector Scheme of Prime Minister Matsya Sampada Yojana titled 'Scaling up of Genetic Improvement Programme of Freshwater Prawn *Macrobrachium rosenbergii* (Scampi)' sanctioned to ICAR-CIFA, Bhubaneswar.

To carry out the trial in the 0.25 ha pond, he was provided with 2025 numbers of juveniles of 'CIFA-GI Scampi'TM (0.75g), 300 numbers of catla (200 g), 1200 numbers of rohu (80 g), feed and other farm inputs like lime, cow dung, single super phosphate, ground nut oil cake (GNOC) in August, 2021. The stocked scampi and carps were fed daily with overnight soaked GNOC

and floating feed (Crude Protein: 28.0%, Crude Fat: 4.0%). The feeding was done @ 5 to 2% of body weight of stocked fish daily in two split doses. The culture practice and stock were monitored at monthly interval by the project staff through regular visit and sampling.

The final harvesting was done in March 2022 after seven months of culture. Mr. Sahu got a substantial yield of 130 kg 'CIFA-GI ScampiTM' (520kg/ha) with



an impressive mean body

weight of 80 g after only seven months of culture. He also harvested 540 kg of Rohu and 288 kg of Catla from the same pond of 0.25 ha. The total revenue generated from sale of Scampi (@ Rs 500/kg), Rohu (@120/kg) and Catla (@180/kg) was Rs. 1,81,640.00.

Economic analysis of 'CIFA-GI ScampiTM'-carp polyculture:

The cost of seeds of carps (Rs.30,000 @ Rs.20/piece) and 'CIFA-GI Scampi' (Rs.2,025 @ Rs.1/piece) was Rs. 32,025.00 only, while the expenditure towards the use of inputs like floating feed, lime, GNOC and manure was estimated as Rs. 65,550.00 only. Mr. Sahu had spent Rs. 21,000.00 towards the payment of labour for pond management and netting for harvesting during the culture period. The charges towards the use of fuel and electricity to operate the pump and aerator were included as miscellaneous expenditure,



which was approx. Rs. 4000.00. The total expenditure incurred during the culture period of seven months was Rs. 1,22,575.00. The total revenue generated from the sale of fish and prawns was Rs. 1,81,640.00. Hence, the net profit achieved from carp-scampi polyculture from 0.25 ha pond was Rs. 59,065.00 in seven months which works out to Rs. 2,36,260.00/ha/crop of only seven months.

The first 'CIFA-GI ScampiTM' field trial in West Bengal thus proved to be successful, and the outcomes of this trial have motivated the local farmers to adopt 'CIFA-GI ScampiTM' culture.

The perseverance and sincerity of Mr. Sahu were also the key factors in the accomplishment. Mr. Sahu is interested to culture GI-Scampi in the future. Block Development Officer for Haldia Block Mr. Sanjoy Das expressed his pleasure and stated “We are hopeful that the success of Mr. Sahu will inspire other fish farmers to adopt CIFA-GI Scampi™ in carp-scampi polyculture system and thereby earn more profit.” He appreciated ICAR-CIFA for the untiring effort for improving the livelihood of farmers by developing such improved varieties of fish.



Acknowledgements

The authors express sincere thanks to the Director, ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar, India, for supporting and providing the necessary facilities. Furthermore, the authors express their gratitude to Mr. Sanjoy Das, Block Development Officer, Haldia Block, Purba Medinipur for his support and assistance during the demonstration programme. The financial support provided by the Central Sector scheme under PMMSY, Govt. of India is also gratefully acknowledged.

Prepared By:

Farhana Hoque, Suvam Roy, Suman Kumar Sahu, Bindu R. Pillai, Debabrata Panda, Subhendu Adhikari, Bibhudatta Mishra and Sovan Sahu

Published By:

Director, ICAR-CIFA, Bhubaneswar, Odisha

Funding Support By:

PMMSY CS Scheme, Department of Fisheries, Government of India, New Delhi

For Further Information please contact:

Director

ICAR-Central Institute of Freshwater Aquaculture
Kausalyaganga, Bhubaneswar-751002, Odisha, India
Phone: 91-674-2465421, 2465446 FAX: 91-674-2465407

E-Mail: Website: Director.Cifa@icar.gov.in

Website: www.cifa.nic.in
