

Success story



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

A local farmer of West Bengal strikes gold with 'CIFA-GI Scampi'TM,

Mr. Krishnapada Samanta aged 36 years, an experienced, progressive and professional fish farmer from Purba Medinipur, West Bengal, has got record production of CIFA-GI ScampiTM. Mr. Samanta has four ponds and he had provided the smaller pond of 0.12 ha area for the demonstration of 'CIFA-GI ScampiTM' in the carp-scampi polyculture system under the PMMSY Central Sector Scheme sanctioned to ICAR-CIFA, Bhubaneswar.

'CIFA-GI ScampiTM' is a genetically improved and fast-growing strain of giant freshwater prawn *Macrobrachium rosenbergii* (scampi). It was developed by ICAR-CIFA through genetic selection in collaboration with WorldFish, Penang, Malaysia. To evaluate the growth performance of 'CIFA-GI ScampiTM'

several on-farm trials were carried out in Andhra Pradesh, Odisha and West Bengal.

In West Bengal, Mr. Samanta was selected as one of the lead farmers, and necessary skills were imparted in carrying out the on-farm trial in carp-scampi polyculture system with 'CIFA-GI scampiTM' included as a candidate species.

Stocking: Mr. Samanta was provided with seed, feed and other farm inputs to carry out the trial in his 0.12 ha pond. A total of 1125 numbers of juveniles of 'CIFA-GI ScampiTM' (0.75g), 200 numbers of catla (200 g) and 520 numbers of rohu (80 g) were stocked in his pond on 10 August 2021.

Feeding: The stocked prawns and carps were fed daily @ 5 to 2% of the body weight of stocked fishes with overnight soaked ground nut oil cake (GNOC) and floating fish feed containing 28.0% crude protein and 4.0% crude fat.

Harvesting: The culture practice and stock were monitored once every month by the project staff through regular visit and sampling. Seven months post-culture, the final harvesting was done in March 2022. The details of harvesting are given in Table 1. Mr. Samanta got a yield of 81 kg 'CIFA-GI scampiTM' (675 kg/ha) with a remarkable mean body weight of 80 g in seven months. He also harvested 463 kg of carps from the same pond of 0.12 ha (Table 1) with a recorded feed conversion ratio (FCR) of about 1.62.

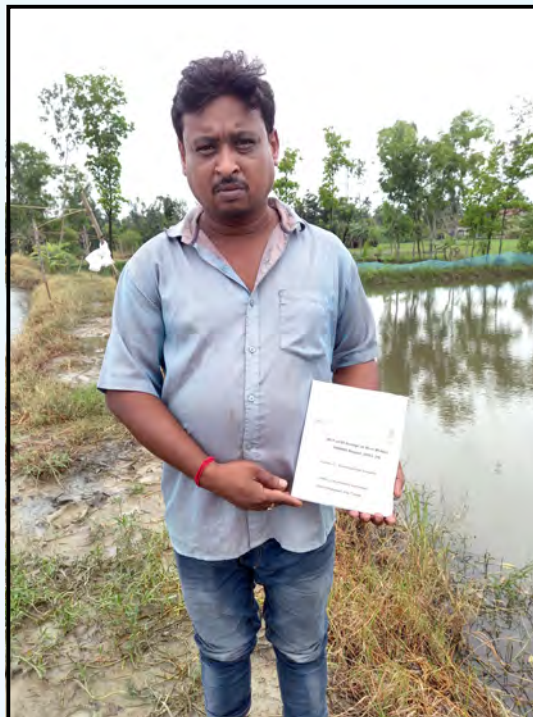




Table 1. Harvest details of carps and CIFA-GI Scampi™

Species	Size at harvesting (g)	Nos. harvested	Survival (%)	Production (kg)	Farm gate price (Rs. /kg)	Revenue (Rs.)
CIFA-GI Scampi™	80.00±14.56	1012	90	81	500	40,500
Rohu	600.00±83.74	490	94	294	120	35,280
Catla	1056.00±195.20	160	80	169	180	30,420
Total Revenue (Rs.)						1,06,200

Cost and returns of carp-scampi polyculture system:

Mr. Samanta has spent Rs. 80,230.00 during the culture period of seven months which includes expenditure towards the cost of seeds of carps and 'CIFA-GI Scampi™', floating feed, lime, GNOC, manure, payment of labor charges for pond management, monthly netting during the culture period and harvesting apart from the charges towards the use of fuel and electricity. The total revenue generated from the sale of fish and prawns was Rs. 1,06,200.00. Hence, the net profit achieved from carp-scampi polyculture from 0.12 ha pond was Rs. 25,970.00 in seven months, which works out to about Rs. 2,16,417.00 per ha/crop for only seven months with a benefit-cost ratio (B:C) of 1.32. The very first field trial of 'CIFA-GI scampi™' in West Bengal was a huge success, and the results inspired local farmers to implement the 'CIFA-GI scampi™' culture.



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Prepared By:

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

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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
