

Extension Series No. 93 (2023)

# Success story



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



## Enhancing rural farmer's income through record production of 'CIFA-GI Scampi<sup>TM</sup>' in West Bengal

**Name:** Mr. Suwendu Ballav

**District:** Purba Medinipur

**State:** West Bengal

**Age:** 26 years

**Occupation:** Fish farming

**No. of ponds:** 03

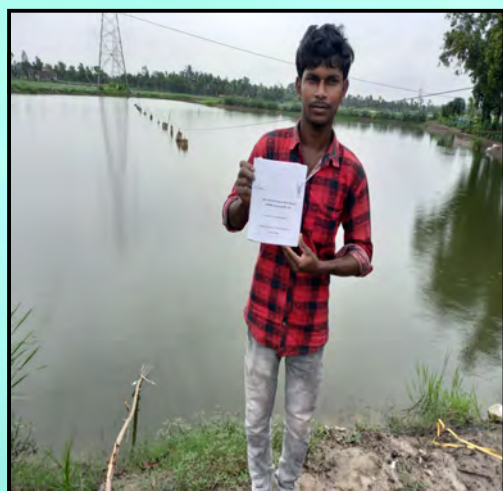
**Pond type:** Perennial pond

**Family Members:** 05

**Landholding:** 1.50 acre



ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar is a leading research institute in the country for freshwater aquaculture research & development. The institute has developed a selectively bred, genetically improved, and fast-growing strain of giant freshwater prawn *Macrobrachium rosenbergii* registered as 'CIFA-GI Scampi<sup>TM</sup>' in collaboration with WorldFish, Penang, Malaysia. To evaluate the growth performance of 'CIFA-GI Scampi<sup>TM</sup>'



several on-farm trials were carried out in Andhra Pradesh, Odisha, and West Bengal. Mr. Suwendu Ballav, a young fish farmer of 26 years hailing from Haldia block of Purba Medinipur district of West Bengal, has over five years of experience in fish farming. Mr. Ballav was identified to conduct the on-farm performance trial of 'CIFA-GI scampi<sup>TM</sup>' in August 2021. He currently owns three ponds and the smaller one with 0.38 ha area was selected for demonstration of 'CIFA-GI Scampi<sup>TM</sup>' 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.

Mr. Ballav was provided with seed, feed and other farm inputs to carry out the trial in the 0.38 ha pond. A total of 3225 nos. juveniles of 'CIFA-GI Scampi<sup>TM</sup>' (0.75g), 600 numbers of catla (200 g), and 1700 numbers of rohu (80 g) were stocked in his pond on 10 August 2021. The stocking density of scampi and carps was 8,500 nos. of juvenile prawns and 6,000 nos. of yearlings per hectare, respectively. The on-farm trial was carried out under the supervision of the project team. The stocked prawns and carps were fed daily with overnight soaked GNOC and floating feed (Crude Protein: 28.0%, Crude Fat: 4.0%) @ 5 to 2% of body



The final harvesting was done in March, 2022 after seven months of culture. Mr. Ballav got a yield of 232 kg 'CIFA-GI scampi<sup>TM</sup>' (610 kg/ha) with an impressive mean body weight of 80 g in only seven months. He also harvested 1369 kg of carps from the same pond of 0.38 ha and the Feed Conversion Ratio (FCR) was recorded as 1.12.



### Economic analysis of carp-'CIFA-GI Scampi<sup>TM</sup>' polyculture

#### Total revenue from 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 <sup>TM</sup>	80.00±7.90	2905	90	232	500	1,16,000
Rohu	650.33±66.72	1369	80	890	120	1,06,800
Catla	1120.00±206.36	420	70	479	180	86,220
<b>Total Revenue (Rs.)</b>						<b>3,09,020</b>

#### Total expenditure for Carp-Scampi polyculture

Input category	Unit cost (Rs.)	Quantity of input use	Input cost (Rs.)
<b>Seed</b>			
CIFA-GI scampi <sup>TM</sup>	1/nos.	3225	3225
Carp	20/nos.	2300	46,000
<b>Subtotal (A)</b>			<b>49,225</b>
<b>Feed</b>			
GNOC	50/kg	500	25,000
Floating feed	45/kg	1000	45,000
<b>Subtotal (B)</b>			<b>70,000</b>
<b>Other inputs</b>			
Lime	15/kg	300	4,500
Manure (Cow dung)	2/kg	850	1,700
Single super phosphate	15/kg	30	450
<b>Subtotal (C)</b>			<b>6,650</b>
<b>Manpower</b>			
Labour	3000/month	7 months	21,000
Netting (harvesting)	1000/netting	04 times	4,000
<b>Subtotal (D)</b>			<b>25,000</b>
<b>Other specific cost</b>			
Lease value of the pond	-	-	-
Miscellaneous (Electricity, fuel etc.)	-	-	5000
<b>Subtotal (E)</b>			<b>5,000</b>
<b>Total Expenditure (A+B+C+D+E)</b>			<b>1,55,875</b>
<b>Total Revenue</b>			<b>3,09,020</b>
<b>Net profit (Revenue – Expenditure)</b>			<b>1,53,145</b>
<b>B:C</b>			<b>1.98</b>



Mr. Ballav has achieved a net profit of Rs. 1,53,145.00 from carp-scampi polyculture in seven months. His success has encouraged other farmers to culture CIFA-GI scampi™ for better growth and profitability.

The first 'CIFA-GI scampi™' field experiment in West Bengal was a successful venture, inspiring local farmers to adopt the 'CIFA-GI scampi™' culture. Mr. Sanjoy Das, the Block Development Officer of Haldia block, expressed his happiness and said 'The achievement of GI-Scampi has motivated many farmers in this area to culture 'CIFA GI-Scampi™' in carp-scampi polyculture system for better productivity and profitability'. He also thanked ICAR-CIFA for providing the opportunity to the farmers of Haldia to culture the improved scampi variety.

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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

