



Applications for selection as
Multiplier Hatcheries for 'CIFA-GI Scampi'



**Central Institute of Freshwater Aquaculture,
Kausalyaganga, Bhubaneswar
Odisha, India**

Multiplier Hatcheries for ‘CIFA-GI Scampi’

Background information:

‘CIFA-GI Scampi’ is a genetically improved and fast growing strain of giant freshwater prawn *Macrobrachium rosenbergii* developed by ICAR-CIFA through systematic selective breeding. Giant freshwater prawn also widely known as ‘scampi’ is an indigenous freshwater prawn species of India inhabiting rivers, canals, estuaries and coastal waters. It is one of the most important cultivable species in freshwater systems due to its high price, large size, faster growth, good taste and high export demand. It can be cultured either in freshwater or slightly brackish water (<7 ppt) and both in monoculture or polyculture system. India used to be a major producer of this species till 2005, however since then smaller harvest size and low survival in grow out ponds has caused poor returns to farmers leading to a reduction in production. In order to revive the farming of scampi ICAR-Central Institute of Freshwater Aquaculture (ICAR-CIFA) in collaboration with the WorldFish (an international research organization headquartered in Malaysia) has started a systematic selective breeding programme for improving the growth rate of *M. rosenbergii* in 2007. The base population with wide genetic base for the selective breeding was formed using populations of scampi from three geographically distant locations in India (Gujarat, Kerala and Odisha). Selection for harvest body weight was carried out since then and the cumulative response after 10 generations of selection has been 60%. The new developed strain was registered as ‘CIFA-GI Scampi’ in 2020. Dissemination of the ‘CIFA GI Scampi’ to the scampi farmers through multiplication hatcheries is one way to revive the scampi farming.

The present advertisement is therefore given to select the interested scampi hatchery operators in India to become the ‘Multiplier Hatcheries for ‘CIFA-GI Scampi’. The Criteria for selection of multiplier hatcheries and application for is given in the annexures. Interested scampi hatchery operators may apply in the prescribed application form with supporting documents for consideration.

The last date for application is 31 July 2021.

Annexure 1

Criteria for Selection of Multiplier Hatcheries for CIFA-GI Scampi

Sl. No	Criteria	Requirements
1	Technical competence	
1.a.	Education of the Hatchery i. owner ii. operator (if applicable)	Should be able to read and write the local language/Hindi/English with working knowledge on scampi hatchery operation
1.b	Experience in scampi hatchery operation	Minimum one year (active in operation) with proven track record
2	Facilities	
2.a.	Location of the hatchery	Those nearer to the major farming area will be preferred
2.b	Seed output per cycle	Minimum 0.1 million seed per cycle
2.c	Availability of ponds for brood stock raising (Own /lease)	Minimum area required to raise broodstock for hatchery (0.06 ha or more)
2.d	Supply of water	Adequate supply of good quality freshwater and seawater
2.e	Accessibility by road	Those having good accessibility by road will be preferred.
2.f	Land tenure (e.g., owned, long term lease)	Those who own the hatchery would be preferred followed by long term lease holders (Minimum 05 years)
3	Financial Capability	
3.1	Ability to submit financial information	The hatchery operators should be able to submit their financial credibility
3.2	Financial capability	Availability of minimum level of working capital for operation of hatchery
3.3	Positive credit reports	Those having positive credit reports will be preferred
3.4	Feedback from trade references	Positive feedback from trade references will be preferred

TERMS AND CONDITIONS FOR MULTIPLIER AGREEMENT

I. Roles and responsibilities of ICAR-CIFA

ICAR-CIFA has developed improved giant freshwater prawn, *Macrobrachium rosenbergii* registered as '*CIFA -GI Scampi*' using selective breeding from wider gene pool showing an average 7% per generation genetic gain in body weight.

ICAR-CIFA agrees to the following to the **Selected Multiplier Hatcheries**

- a. to continue the selective breeding program and supply brood seed of latest generations of '*CIFA -GI Scampi*' as per availability (as per price fixed by the Institute) every year during breeding season to build the brood stock for breeding program as per guidelines/directives given by ICAR-CIFA.
- b. to provide training and technical support in hatchery operations and brood stock management to multiplier hatcheries as per the need the
- c. To undertake brand development and marketing activities across the nation
- d. To conduct performance evaluation of the multipliers.

Note: for item no. b–c, the support for first 3 years will be free of cost and subsequently may be chargeable.

II. Roles and responsibilities of Selected Multiplier Hatcheries (SMH)

- a. Culture and breeding plan to be followed as per protocols given by ICAR-CIFA.
- b. Seed price for sale of seed to farmers is to be fixed by the **SMH**, and it should not under any circumstances, be more than 20% from the prevailing prawn seed price of Government hatcheries in the state.
- c. **SMH** will give feedback to ICAR-CIFA at all important steps about the activities/developments. This will *inter alia*, include package of culture practices, quarterly sampling result as to be demanded by the **ICAR-CIFA**.
- d. The **SMH** should maintain register for all beneficiaries along with postal addresses and phone numbers so as to enable the **ICAR-CIFA** to monitor feedback of activities as and when required.

- e. The **SMH** should maintain purity of improved '*CIFA GI Scampi*', and should not mix with any local *M. rosenbergii*. With assurance of removing local *M. rosenbergii* stock phase-wise.
- f. The **SMH** shall attain the status of multiplier unit of improved '*CIFA -GI Scampi*' and under no circumstances the **SMH** can claim any scientific/genetic right on improved CIFA GI Scampi. The **SMH** has to give/recognize due credit to the **ICAR-CIFA**.
- g. The rules or guidelines (as amended, if needed) available from ICAR-CIFA need to be strictly adhered and IPR guidelines of ICAR will be followed in case of any ambiguity.
- h. The SMH should not collect back the broodstock from the seed supplied farmers or wild or any other source.
- i. Multiplier hatchery status will be provided for a period of minimum 3 years which can be changed based on the performance of SMH.

APPLICATION FORM

Sl. No	Particulars	Details
1.	Name of the Applicant	
2.	Contact phone no.	
3.	E mail id if available	
4.	Gender	
5.	Age	
6.	Education of Hatchery Manager/ Operator	
7.	Experience in scampi hatchery operation	
8.	Name of the Hatchery	
9.	Details of the location of Hatchery	
7.1	State	
7.2	District	
7.3	Taluk/ Mandal	
7.4	Revenue Village	
10.	Ownership (whether freehold or on lease)	
11.	If on lease, duration of lease	
12.	Total Area of hatchery	
13.	Annual seed production capacity	
14.	Annual seed output (average of last 2 years)	
15.	Scampi seed output per cycle	
16.	Current Seed price	
17.	Average number of farmers being supplied with seed	
18.	Availability of ponds for brood stock raising (Own /lease)	
19.	Source of seawater & freshwater	

20.	Source/s for financial resources to meet the operational cost	
21.	How long this hatchery is operational under your management?	
22.	Year-wise source of broodstock in last two years	
23.	Number of brooders (male and female) approximately used for seed production every year?	
24.	Seed production duration (in months)	
25.	Major problems faced during larval rearing (maximum three)	
26.	Type of larval feed used	
27.	Average size of berried females used for seed production	
28.	Any constraint in seed supply	

DECLARATION BY THE APPLICANT

I/We-----son/daughter/spouse/Authorized Signatory/ies ofhereby declare that the information furnished above is true to the best of my/our knowledge and belief. I am/we are fully aware that if the information furnished by us in the application is found false any action as deemed fit for violation of this condition may be taken against me/us.

Name of Applicant:

Signature:

Date & Place:

Confirmation Statement by Assistant Fisheries Officer /Authorized Officer

1. Application together with documents have been verified and found to be in order.
2. Proposed hatchery has been inspected by the Departmental/ Authorized Officer and found suitable for considering as '*CIFA-GI Scampi*' multiplier hatchery.

Name & Designation of Officer:

Signature & Seal:

Date & Place

CHECKLIST OF THE DOCUMENTS TO BE FURNISHED

Sl. No	Document	Yes/No
1.	Photocopy Identity card: Aadhaar Card or any other ID Card issued by State or Central Government of India.	
2.	Copies of Applicant's Bank Account details	
3.	Enclose copies of Land Documents	
4.	Photo/s of hatchery, including Latitude and Longitude	
5.	Details of availability of adequate supply of water and its source	
6.	Source of Finance Proof: Whether bank loan/self-finance/other	

Note: The filled in application should be sent to

**The Director,
ICAR-Central Institute of Freshwater Aquaculture,
Kausalyaganga, Bhubaneswar- 751002
Odisha,
Phone: 91-674-2465421, 2465446
FAX: 91-674-2465407
E-Mail: Director.Cifa@icar.gov.in**