



INDIAN COUNCIL OF AGRICULTURAL RESEARCH

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of

ICAR-Central Institute of Fisheries Education (CIFE)
Mumbai, Maharashtra

has developed the technology

Breeding technology for loach
(*Lepidocephalichthys berdmorei*): Technology

16th July, 2023
New Delhi


(Shubhadeep Ghosh)
Assistant Director General (M.FY)


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ICAR - CENTRAL INSTITUTE OF FISHERIES EDUCATION

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**BREEDING
TECHNOLOGY FOR
LOACH**

LEPIDOCEPHALICHTHYS BERDMOREI

AN ICAR - FS - CIFE TECHNOLOGY-2023

(050)

Summary of the Technology

The technology is related to captive maturation and breeding of a loach, *Lepidocephalichthys berdmorei* (Blyth, 1860). The fish is of immense economic and cultural importance in south Asian countries like Myanmar, India and Bangladesh.

The fish are reared in matured water under a photo regulated environment with bio filter based recirculatory system. These are fed with enriched moist feed with enriched nutrients.

The matured brooders are induced bred with suitable hormone at right size and weight.

Larval rearing is done in circular jars of 7 litre capacity with continuous water flow. Freshly hatched artemia and moina are used as first feed post hatching. Weaning is done with semi-moist feed along with live feeds.

Technology Insights

Hatching Rate - 60%

Larval survival rate - 50%

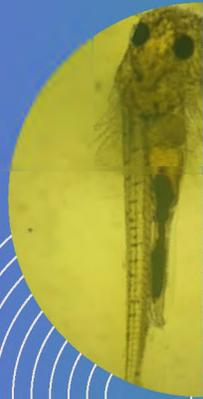
Water conservation through use of RAS System

Better production of gravid females through RAS System

Time, Labour and Energy Saving

Helpful in capacity building activities

Unique technology especially for breeding loach



Methodology

Sand bed biofilter recirculatory system

Sex ratio: 1:2 (F:M)

Inducing Hormone: Gonopore - FH

Larval Feed: Artemia nauplii or Moina

Weaning: Semi moist feed



Commercial Potential

This species is a significant export item and is sold at a premium price of \geq INR 1200 in the domestic market itself.

Therefore, targeted export of this species can fetch good foreign exchange (0.3 USD per fish).

For Further information

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Expression of Interest

Name of the Technology: Breeding Technology for Loach
(*Lepidocephalichthys berdmorei*)

Name of Applicant:

Designation:

Organization Type : Industry/Individual/Govt. Departments/others

Full address with Mobile no. and email Id :

Proposed cost for obtaining non-exclusive/exclusiverights of the technology:

(Please send to director@cife.edu.in , itmucife@cife.edu.in)