

Introduction and popularization of *Cirrhinus reba* (Lachu) in composite fish culture system in North Tripura



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Introduction

The freshwater minor carp *Cirrhinus reba*, a member of the family Cyprinidae and the order Cypriniformes, is a significant commercial species. Its Bengali name is "Lachu Mach," however it is more generally referred to as "Reba carp." This fish species can be identified by a single

dark longitudinal stripe that runs down the lateral line of its body.

Title of intervention: "Introduction of a Minor carp (*Cirrhinus reba*) in Composite culture system for better production and profit".

Need for intervention

- Keeping in mind the demand for minor carps in the local and nearby markets and the higher rate they fetch, a novel approach was undertaken by KVK North Tripura by introducing a new minor carp locally called "Lachu fish" along with other carp species in North Tripura district.
- This fish fetches better market value and has a faster growth rate, thus attending market size earlier.
- Mr. Pinaki Debnath, a well-educated & progressive farmer has tried his hand in the above-mentioned culture technologies and was successful at the first attempt under the technical guidance of KVK North Tripura, Panisagar.



Results from OFT on performance of *C.reba* in Composite fish culture system

Details of Technology

Stocked 3000 nos. *C. reba* fingerling/ ha
 Stocked 8000 nos. mixed var. IMC seed/ ha
 Area- 0.32 ha / trial unit
 Culture period: 10 months
 Feeding with dust & pellet feed @ 3-5% of body wt.

Impact of the technology

Result: (In trial ponds- IMC and *C. reba* seed)
 Fish yield (Carps): 2275 kg/ha
 Fish yield (*C. reba*): 338 kg/ha
C. Reba Growth: 86 gm wt. (avge.)
 Net return (Rs/Unit): 328750 / ha
 B:C Ratio (GR/GC): 3.36
 Result: (In control ponds - only IMC seed)
 Fish yield (IMC): 1285 kg/ha
 Net return (Rs/Unit): 143750 / ha
 B:C Ratio (GR/GC): 2.07



Impact of technology on Livelihood

Impact of the Technology & Horizontal expansion

Composite fish culture of *Cirrhinus reba* (Lachu) with IMC is currently practiced in Sakaibari, Chandrapur, Uptakhali, Ramnagar, Baruakandi, Panisagar, Agnipasa, Pecucherra, Deocherra, Ramnagar, Hurua etc.

Year	Tech. disseminated	No. of farmers benefitted	Area (Ha)	Villages covered
2015-16	OFTs	4	1.28	2
2016-17	OFTs	6	1.92	3
2017-18 to 2019-20	FLDs	30	9.6	6
Horizontal spread / expansion till date (2020)	Through farmer adoption, training, exposure visit, Awareness programme, ATMA demo. etc.	120	51.8	11 villages

