



# Integrated Paddy-cum-Fish culture (IPFC)

## What is IPFC?

It is a system of producing fish in combination with paddy farming using the same resources of a same unit area.

## Types:

1. Simultaneous or Concurrent Method where fish and paddy grow together in the same field at the same time.



*Fish trench in the periphery of the field*



*Fish trench in the centre of the field*

2. Alternate or Rotational Method where fish are cultured in the paddy field during paddy off-season.



*Paddy culture as first crop*



*Fish culture in paddy-off-season*

## NFDB Initiative

NFDB initiated two projects of IPFC at Ziro valley of Arunachal Pradesh and Tungjoy village of Manipur during 2018-19 for a total area of 17.80 ha covering 42 beneficiaries.

## Rationale

Considering the hilly terrain and problems in construction of new fish ponds on one hand and the rich paddy fields with perennial water availability on the other, NFDB selected the two villages to promote IPFC in the region. Moreover, the selected areas are far from the main cities and does not have easy accessibility to fish market for consumption, production of fish from the paddy fields will enhance the intake of fish in the diet thereby promoting nutritional security in the region. Moreover, these projects will serve as a demonstration to neighbouring farmers to encourage them to take up IPFC on their own. Also, IPFC does not require use of fertilisers, weedicides, pesticides etc paving way towards organic farming. This will not only uplift the socio-economic status but also promote consumption of healthier food.

## Objective of the project

- To promote production and consumption of more fish in diet
- To promote effective utilisation of resources
- To enhance crop yield per unit area
- To promote income generation and self-employment amongst the farmer

## Advantages

- Full utilisation of the paddy field in all season
- Fish metabolic waste acts as nutrient and boost paddy production
- Presence of fish reduce weeds and pest
- Increase crop yield in same unit area
- Enhance income generation with little modifications from the paddy field.

## Ongoing NFDB Projects

(Amount Rs. in Lakh)

Year of sanction	State	Area	No. of Farmers involve	Total Project Cost	NFDB assistance
2018-19	Arunachal Pradesh	12.80ha	32	29.80	18.31
2018-19	Manipur	5.00 ha	20	25.52	14.26

### Major Components:

- Brood stock pond
- FRP Hatchery for breeding
- Nursery & Rearing Pond
- Grow-out in paddy field (trench)
- Transportation vehicle
- Capacity Building

### Mode of Implementation

- Clusters of 32 farmers at Ziro valley, Arunachal Pradesh
- Clusters of 20 farmers at Tungjoy, Manipur

### Implementing Agency

- State Fishery Dept.



### Expected Outcome

As the project site are selected at areas where paddy culture is the main occupation of the residents wherein their livelihoods depends on agriculture and its yield, promoting fish culture to be integrated with the paddy will greatly enhance the yield and production of both fish and paddy from the same time and space. It will not only increase the farm yield, but will contribute greatly towards nutritional and economical upliftment. The project will also act as a demonstration to encourage other farmers in the village and the neighbouring village to take up similar activities.



## National Fisheries Development Board

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