

# INTEGRATED FARMING SYSTEM

## WHAT IS IFS?

Integrated Farming System is a system of Agriculture that integrates crop cultivation with Aquaculture, livestock, and other associated enterprises

- to
- move away from SILDED AGRICULTURE
  - multiply Production + Productivity gains
  - Reduce Input Cost

ex: Pokkali Paddy - fish waste used as manure for paddy

## Benefits of IFS

- ① INCREASED FARM INCOME, DOUBLING INCOME BY 2022:  
ex by rearing export value fishes through aquaculture.

- ② INCREASED INPUT SOVEREIGNTY, REDUCED INPUT COST: ex fish scales / cow dung used as manure

- ③ GREATER INCOME SECURITY against PRICE SHOCKS:  
for ex: Livestocks act as Insurance in Rural India.

- ④ ADDRESS PROTEIN DEFICIENCY, MALNUTRITION: ex through FISH FARMING which fulfills 25% of global protein requirement, or through Poultry farming.



## ⑤ INCREASED EMPLOYMENT OPPORTUNITIES:

for ex: as SAGAR MITRAS providing extension services under PM MATSYA SAMPAADA YOJANA

## ⑥ REDUCE DISTRESS MIGRATION to Urban Areas:

and a life devoid of quality civic amenities and social support

## ⑦ ENVIRONMENTALLY SUSTAINABLE

- ⇒ reduced dependence on harmful chemical inputs like inorganic fertiliser/pesticides
- ⇒ Recycled use of waste as input
- ⇒ reduce climate change impact of Agriculture

## ⑧ ADDRESS DEFORESTATION

## CHALLENGES TO IPS

- ① **AWARENESS DEFICIT** how to practice IPS on scientific lines for optimal results.
- ② **RESOURCE DEFICIT:** unavailability of credit/capital to invest in scientific Aquaculture/Baeriyard/Commercial Poultry farming.
- ③ **INFRASTRUCTURAL DEFICIT:** for ex unavailability of uninterrupted cold chain supply for fishes post harvest.
- ④ **THE VALUE ADDITION VACUUM:** Inadequate opport./resources for value addition.



⑤ POOR MARKET LINKAGES

⑥ UNATTRACTIVE for YOUTH

### MAKING IFS POSSIBLE

- ① ICAR - partnership with agricultural universities  
devising REGIONALLY SUITED IFS MODELS  
disseminated through KRISHI VIKAS KENDRAS  
across the country.
- ② Provide Resource based support - ex subsidise  
investments for aquaculture/poultry  
farming {ex-subsidies under PM MATSYA SAMPAADA  
YOJANA}
- ③ IMPROVED CREDIT ACCESS {ex KCC extension  
to Dairy sector, livestock}
- ④ NEXT FRONTIER OF INSURANCE = UNIFIED  
PACKAGE INSURANCE; for livestock and other  
allied enterprises.

Integrated farming with intercropping increases food production and reduces environmental footprint (17.3%)  
(15.6 - 49.9%)

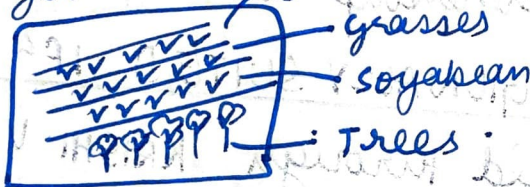
① Relay planting planting different crops in same plot - one right after the other in the same season.

Rice/wheat → Cauliflower - Onion - Summer Gourd.

- a) RISK hedging
- b) better distribtn of labour
- c) insects spread less
- d) Nitrogen fixtn by legumes.

Tel, KN, MHA → Onion, turmeric, chillies, Garlic, Ginger.

② STRIP CROPPING



USA → corn, soyabean

- strips of grasses left between.
- planting trees = as a method in western India.

③ soil mulching — NO TILLAGE