

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 SIMPLY AGRICULTURE
 - multiply Production + Productivity gains
 - Reduce Input costs

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 SAMPODA 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 IFs on scientific lines for optimal results.

② RESOURCE DEFICIT: unavailability of credit/capital to invest in scientific Aquaculture / Backyard / Commercial poultry farming.

③ INFRASTRUCTURAL DEFICIT: for ex unavailability of uninterrupted cold chain supply for fishes post harvest.

④ THE VALUE ADDITION VACUUM: inadequate opportunities for Value addition.

⑤ POOR MARKET LINKAGES

⑥ UNATTRACTIVE for YOUTH

- Many more job opportunities
- Being small - and - marginal farmer

- Unprofitable job
- Poor market linkage
- Unemployment

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-subsidies investments for aquaculture / poultry farming {ex-subsidies under PM MATSYA SAMPODA 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.

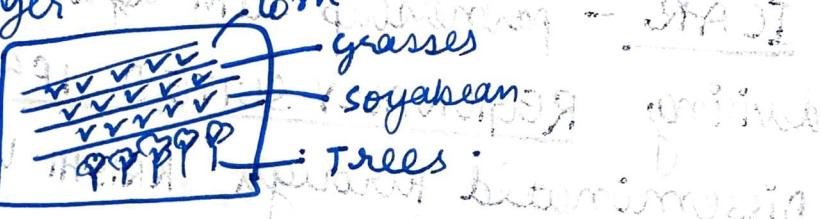
Rice → Cauliflower - Onion - Summer Gourd - Wheat

- a) Risk hedging
- b) Better distribution of labour
- c) Insects spread less
- d) Nitrogen fixed by legumes.

Tel, KN, MHA → Onion, turmeric, chillies, garlic, ginger.

② STRIP CROPPING

↓ USA → corn, soybean



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

③ SOIL mulching - NO TILLAGE