



# Pradhan Mantri Matsya Sampada Yojana

*Neeli Kranti se Arth Kranti*

Department of Fisheries  
Ministry of Fisheries, Animal Husbandry & Dairying

## Fisheries Sector Development : Schemes

### 2015-16 Blue Revolution Scheme

**Rs 3000 Crores** from  
2015-16 to 2019-20  
for Development of  
Fisheries Sector

### 2018-19 Fisheries and Aquaculture Infrastructure Development Fund (FIDF)

**Rs 7522 Crores** Fund  
for providing  
concessional finance  
for Fisheries And  
Aquaculture  
Infrastructure

### 2020-21 Pradhan Mantri Matsya Sampada Yojana

**Rs 20050 Crores**  
Investment for  
Sustainable and  
Responsible  
Harnessing of Fisheries  
Potential,  
Strengthening and  
Modernizing value chain  
& Robust Regulatory  
Framework

# PRADHAN MANTRI MATSYA SAMPADA YOJANA

ANNOUNCED IN UNION BUDGET 2019-20

## OBJECTIVES

Harnessing of Fisheries Potential in a Sustainable, Responsible, Inclusive and Equitable Manner

Enhancing of Fish Production and Productivity through Expansion, Intensification, Diversification and Productive Utilization of Land and Water

Modernizing and Strengthening of Value Chain - Post-harvest Management and Quality Improvement

Doubling Fishers and Fish Farmers Incomes and Generation of Employment

Enhancing Contribution to Agriculture GDP and Exports

Social, Physical and Economic Security for Fishers and Fish Farmers

Robust Fisheries Management and Regulatory Framework

# PMMSY- TOTAL ESTIMATED INVESTMENT - Rs 20050 Cr

Implementation Schedule - 5 years  
(2020-21 to 2024-25)

Total Central Outlay **Rs 9407 Cr**

Total Investment  
Rs. 20050 Cr

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Rs. 20050 Cr"] --- B["Centrally Sponsored  
Component (CSS)  
Rs. 18330 Cr"]; A --- C["Central Sector Component  
(CS)  
Rs. 1720 Cr"]
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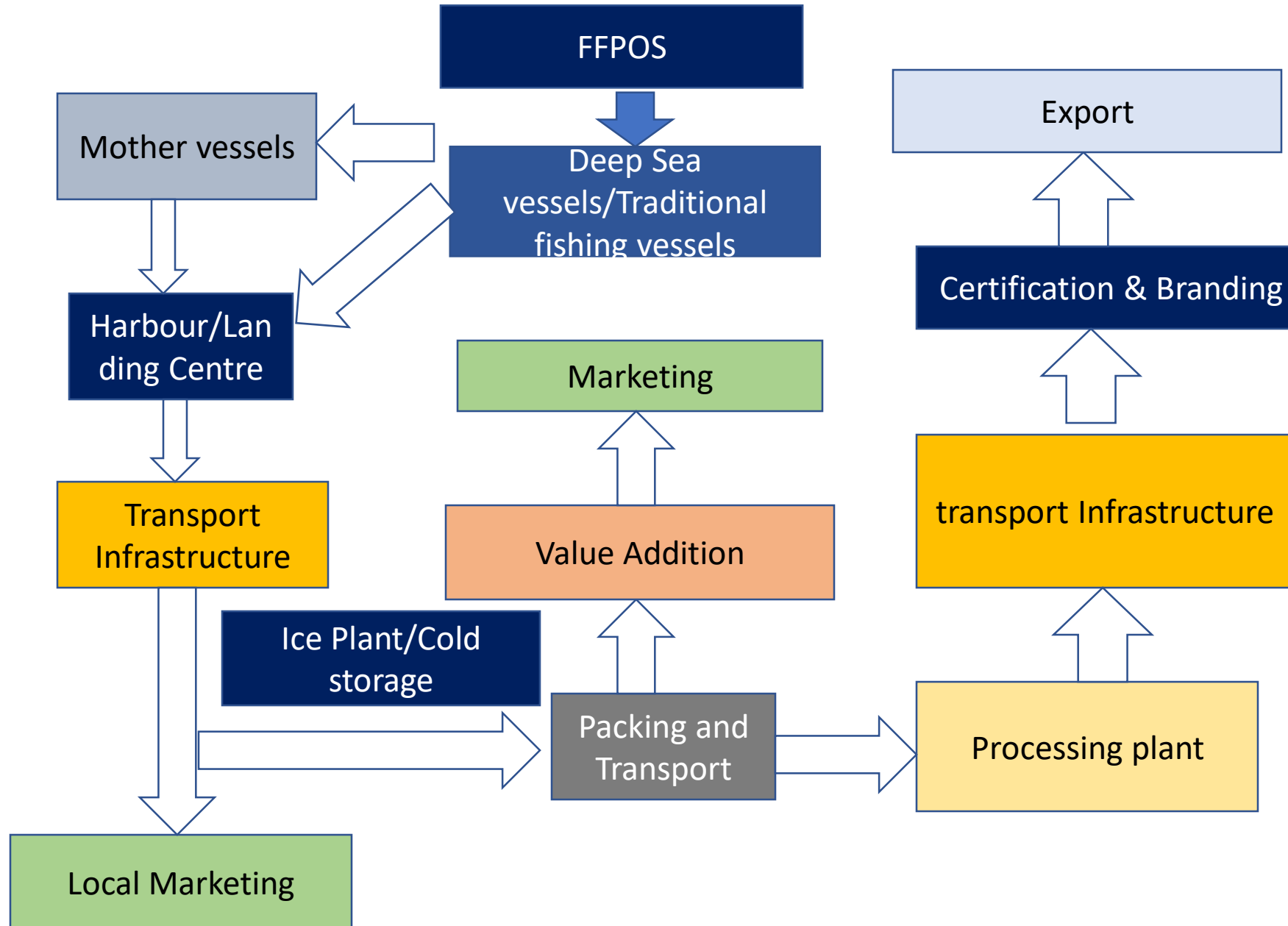
Centrally Sponsored  
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Central Sector Component  
(CS)  
**Rs. 1720 Cr**

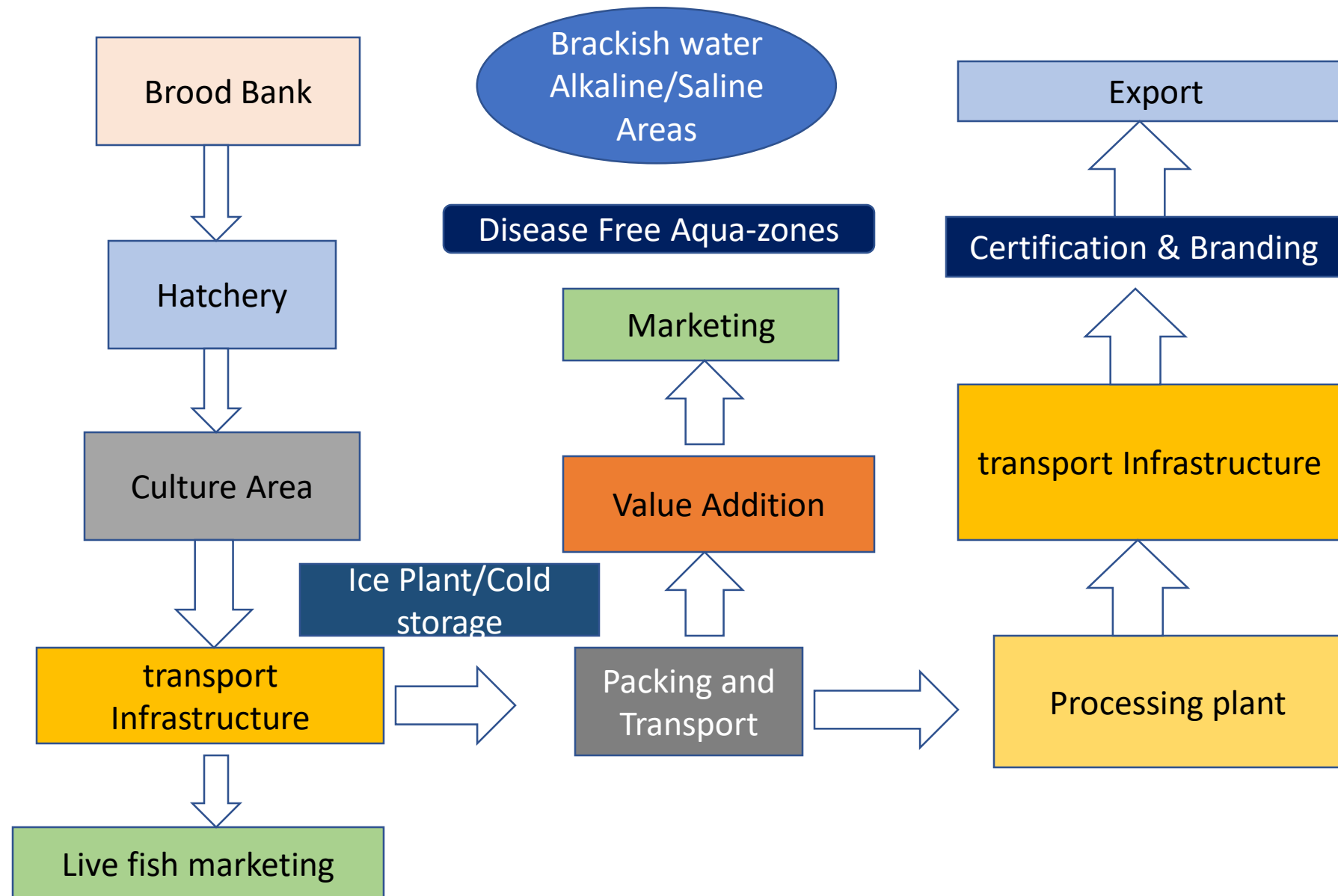
## PMMSY - KEY STRATEGIES

- ✓ **Quality** Brood and Seed- National Network of Brood Banks/Hatcheries
- ✓ Growth **Clusters** -Species/Area wise, **Aqua Parks**
- ✓ **Collectivization** of Fishers and Fish Farmers (**FFPOs**)
- ✓ Focus on **Fisheries Development in Islands, NE, Himalayan States/UTs & Aspirational Districts**
- ✓ **Strong Institutional Framework** – State/District/Sub-District
- ✓ **Convergence** with other center/state schemes
- ✓ Encourage **Private Sector Participation-Entrepreneurship Models-PPP**
- ✓ Grouping of activities into integrated projects with **End to End Solutions**
- ✓ Development of **Integrated Coastal Fisher Villages** : Livelihoods & Participatory Approach
- ✓ Focus on **Fisheries Exports**-Promotion of Export Oriented Species
- ✓ **Species Diversification & Self Reliance** in Shrimp Brood Stocks

# Cluster Approach For Capture Marine Fisheries :Tuna Cluster



# Cluster Approach for Aquaculture



# RS 1720 CRORES FOR CENTRAL SECTOR SCHEME SUB-COMPONENTS

## Components and Sub-components

Genetic Improvement Programmes & Nucleus Breeding Centers (NBC)

Innovations and Innovative Projects, Startups, Incubators, Technology Demonstration

Aquatic Quarantine Facilities

Training, Awareness, Exposure and Capacity Building

Modernization of Fishing Harbours of Central Government

NFDB, Fisheries Institutions etc.

Survey and Training Vessels for Fisheries Institutes

Disease Monitoring and Surveillance Network

Fish Farmers Producer Organizations/Companies

Fish Data Collection, Fishers Survey and Strengthening Of Database

Support to Security Agencies for Safety and Security Of Fishermen

Certification , Accreditation, Traceability and Labeling In Fish

## Key outcomes

- Self-reliance in Shrimp Specific Pathogen Free Brook stock - NBC
- Capacity Building of Fishers & Farmers
- Aquaponics
- Sea Ranching
- Modern Survey Vessels
- Startups & Incubators
- 100% Traceability from 'Bait to Plate' & 'Farm to Fork'
- Blockchain in Aquaculture
- National Realtime Data Collection, E-platform/Dash Board





# KEY ACTIVITIES & INVESTMENT UNDER CENTRALLY SPONSORED SCHEME COMPONENT

**Inland Fisheries and  
Aquaculture**  
**Quality Seed and Feed**

**Mariculture- Sea Cages**

**Technology**  
**RAS/BioFloc**  
**More Crop per Drop**

**Ornamental and  
Recreational Fisheries**

**Seaweed  
Cultivation and  
Marketing**

**E- marketing of Fish and  
Fish Products**

**Himalayan States/UTs  
& NE**  
**Focus : J&K & Ladakh**

**Reservoir Development**  
**Cage & Pen Culture**

**Aquatic Health  
Management**  
**Ref Labs, Diagnostic &  
QC Labs, Mobile clinics**

**Integrated  
Aquaparks**

# KEY ACTIVITIES AND INVESTMENT UNDER CENTRALLY SPONSORED SCHEME COMPONENT

**Fishing Harbours and  
Landing Centers**

*Swatch sagar*  
**Bio toilets on Fishing  
Vessels**

**Post-harvest and Cold  
chain Infrastructure**

**Markets and  
Marketing  
Infrastructure**

**Development of Deep-  
sea Fishing**

**Integrated Modern  
Coastal Fishing Villages**

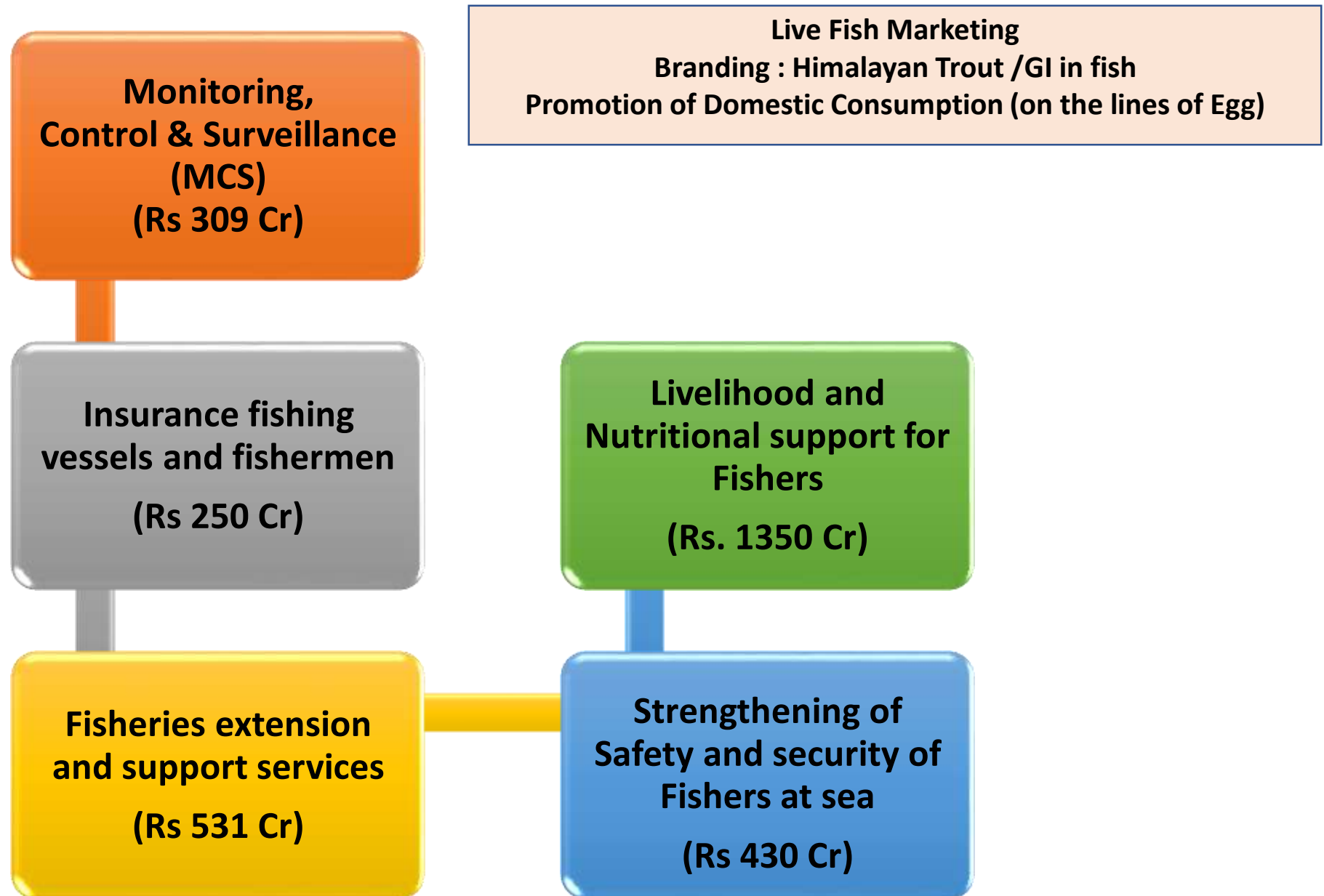
25%

**POST HARVEST  
LOSSES**

10%



# KEY ACTIVITIES AND INVESTMENT UNDER CENTRALLY SPONSORED SCHEME COMPONENT



# Quality & Affordable : Brood and Seed

Key for Additional 70 lakh Ton Fish Production with Enhanced Productivity

## PMMSY

Nucleus Breeding Centre  
Brood Banks  
Hatcheries  
Rearing ponds  
Nurseries  
Aquatic Quarantine Facilities  
Lab Network for Disease Diagnostics & Quality  
Disease Monitoring and Surveillance  
Traceability, Standards, Certification and Accreditation  
Genetic Improvement  
Aquaparks  
Import of germplasm



ICAR Fisheries Research  
Institutes + RGCA of  
MPEDA + DoF +  
States/UTs+ Fisheries  
Colleges

## SPECIES

### MARINE FISH

- Pompano
- Cobia, Grouper
- Seaweed

### BRACKISH WATER

- Seabass
- Shrimps
- Mud crab

### FRESH WATER

- Pangasius
- Tilapia
- Scampi
- New species

# Development of Reservoirs and Wet Lands

31 Lakh  
Hectares

*Sleeping Giants*

**10 lakh hectares  
Reservoirs & Wetlands under PMMSY**

**Cage Cultivation in Reservoirs**

**Infrastructure : Reservoir Landing Centers , *In situ*  
Hatcheries, Seed Rearing Areas, Common Facilities**

**Aim : World Average Productivity**

5% Area under Reservoirs for Cages

States/UTs – Leasing Policy

Species –Pangasius & Tilapia

Entrepreneurship Models

**12-15 lakh Tons Additional Fish Production**

**New Boats to Traditional Fishers**

**Cold chain and Markets & Marketing  
Infrastructure**



# From Wastelands to 'Wealth lands'

Shrimp Farming :  
Saline and Alkaline Soils

CIFE- Rotak

Silent Aqua  
Revolution

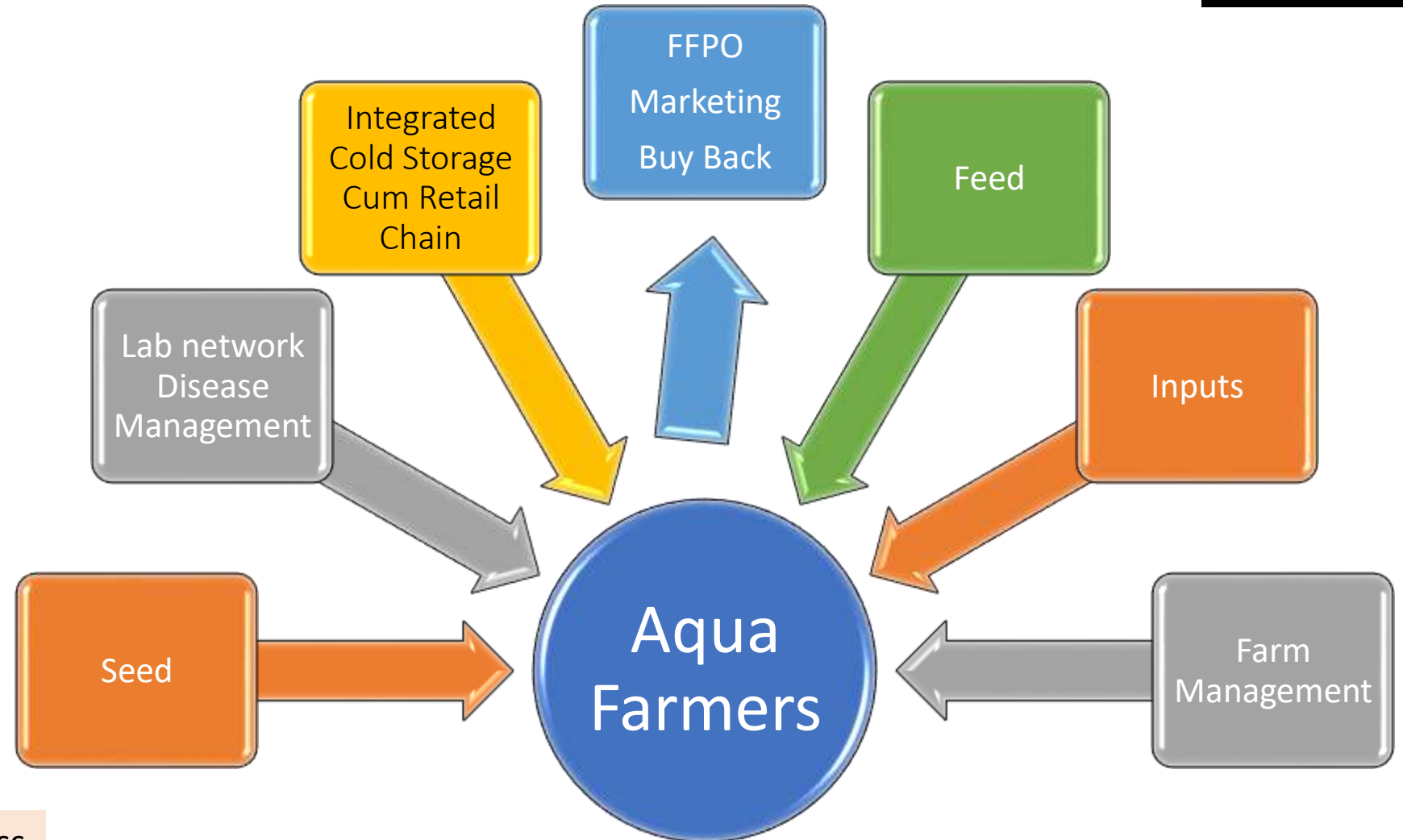
2 lakh Hectare available in

- Haryana
- Punjab
- Rajasthan
- Western UP

Technology –Blofloc

Convergence with  
Rural/Agriculture/  
Railways/Road  
Transport

Pilot : *Sea bass*





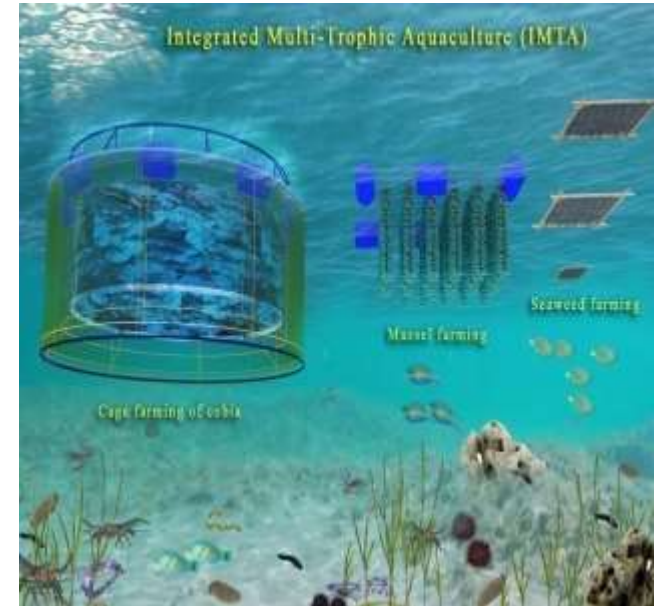
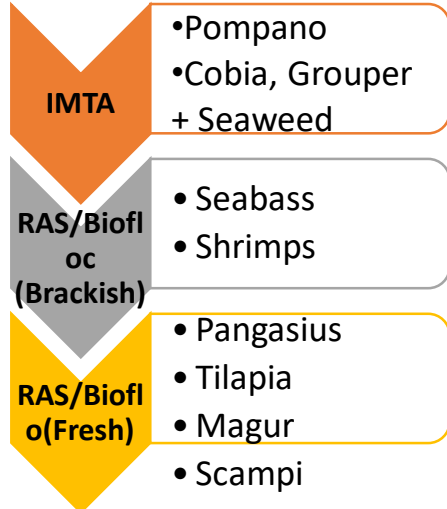
# Technology Infusion – *more crop per drop*

- Re-circulatory Aquaculture Systems (RAS)
- Bio-Floc
- Aquaponics
- High Density Pond Aquaculture
- Integrated Multi Trophic Aquaculture (IMTA)
- Pen Culture

## Advantages

- More crop in less land
- Quality
- Disease Free
- All Seasons
- High Production
- Higher Price Realization
- High Profits
- Semi-Urban areas

**Less land Required :**  
*Pangasius* : 40 Tons per  
1000 Sq Meter in RAS as  
against 2 Hectare pond



# Marine Cage Cultivation

Cluster Approach

States/UTs – Leasing Policy in  
Territorial Waters

Species – Groupers, Pompano, Cobia,  
Seabass

Entrepreneurship Models

Cold Chain – Live Fish Marketing -  
Exports

Convergence  
with FIDF



**Shift 25% of Marine Fishermen to  
Mariculture  
Conservation of Fish stocks  
Address Overfishing  
Safety of Fishermen : Zero Risk**

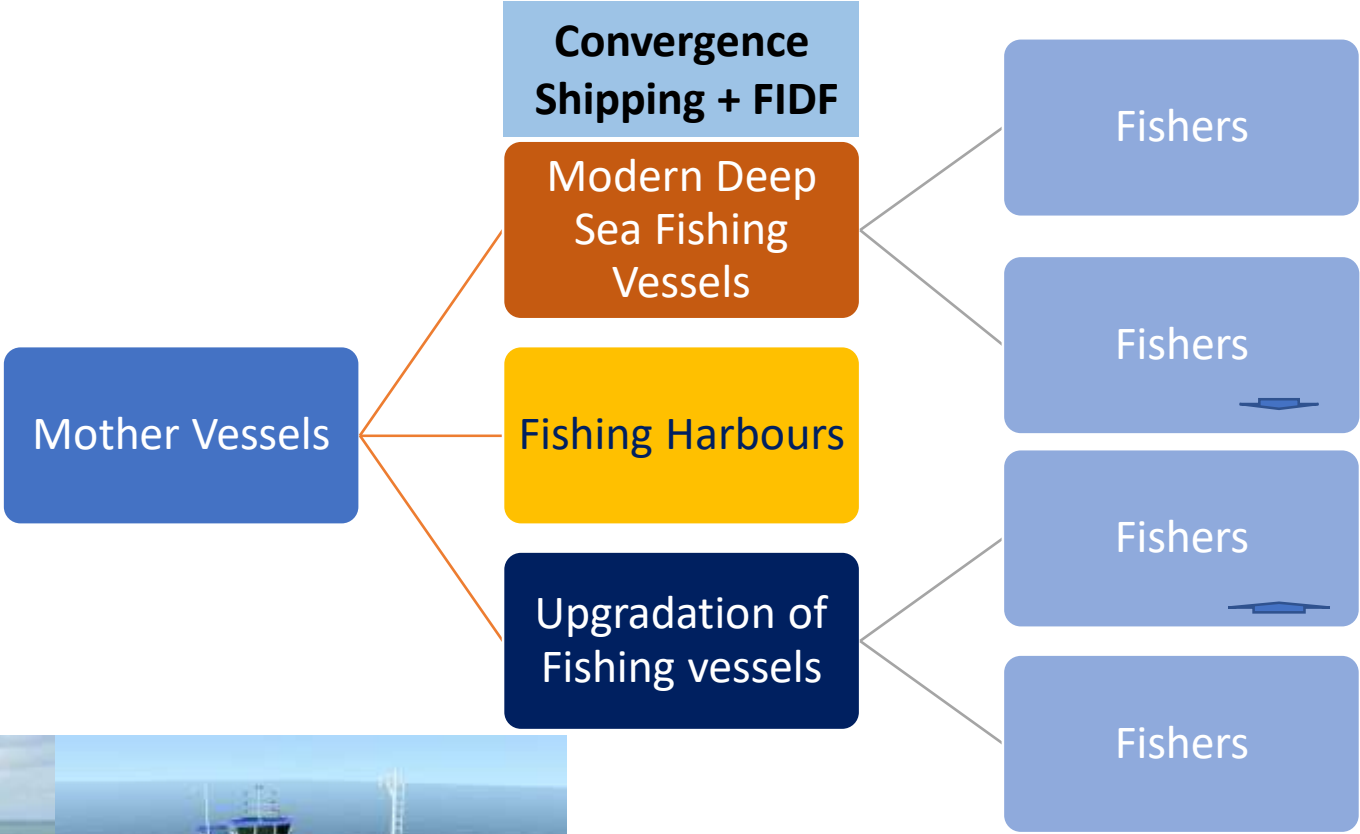




# Deep Sea Fishing- *empowering traditional fishers*

*Make in India*

## SWACHH SAGAR : BIO-TOILETS IN MECHANISED VESSELS



# Himalayan States/UTs, Northeast, Islands, Aspirational Districts

## Himalayan States/UTs

- Trout Raceways
- Technology- RAS Cultivation
- Brood Banks
- Import of Germ Plasm
- Branding and Marketing
- IMC
- Mahseer

## Northeast

- Clusters
- Brood Banks
- Hatcheries
- Integrated Farming
- Paddy Cum Fish Cultivation
- Aquapark
- Organic Aquaculture
- Feed Mills
- RAS/Biofloc
- Ornamentals

## Islands

- Deep Sea Fishing
- Cage Cultivation
- Ornamental Fish
- Tuna Value Chain
- Cold Chain
- Branding
- Certification
- Marketing
- 100% MCS
- Upgradation of Vessels

## Aspirational Districts

- Integrated Dev Plans
- Hand holding
- Convergence with NITI Aayog
- Training and capacity building
- Clusters
- Dedicated Resource allocations
- Linkages
- Technology infusion
- Marketing

# Ornamental Fisheries



Global Market : USD 20 Billion

India's Current Market **Rs 500 Cr**  
Target Market - **Rs 1500 Crores**  
**(2024-25)**

- Huge Employment
- Aquapark for Ornamental Fish
- **Domestic :**
  - New Aquarium Markets
  - Promote Ornamental Fish - Pets & Hobby
  - Aquaria in Homes-Schools-Offices-Public Places
  - Make in India in Aquarium Manufacturing
- **International :**
  - Standards and Certification
  - Marketing—MPEDA
- Selective Breeding of Ornamental Fishes -ICAR
- Specialized Training and Assistance to Breeders
- Packing Techniques to farmers
- **Brook Banks**
- Rearing Units
- Hatcheries
- Infrastructure and Marketing



# Seaweed Cultivation

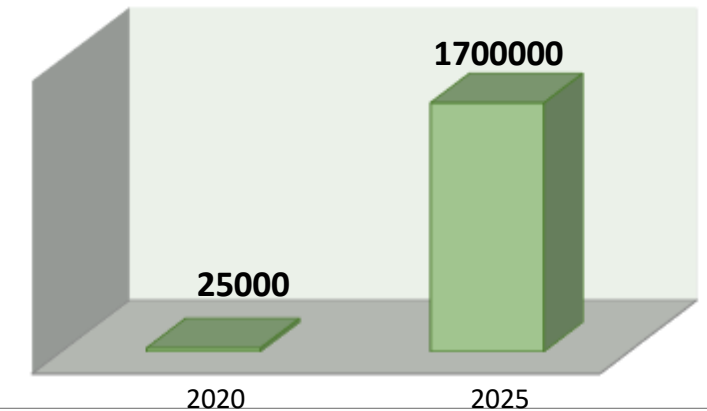
**Uses:** Agar, Algin, Carrageenan, Manure, Biofertilizer  
Fodder, Bioactive Metabolites

**Huge Employment especially for women**

Global Market Value : USD 12 Billion  
(FAO-2019)

## India Seaweed Production

■ Quantity in Tons



**Brown Seaweeds**  
(Phaeophyceae)  
Algin yielding  
*Sargassum, Turbinaria* etc  
& edible "Kelp" - *Laminaria* spp.



**Red Seaweeds**  
(Rhodophyceae)  
Agar & Carrageenan yielding  
*Gracilaria, Gelidiella, Hypnea,*  
*Kappaphycus* etc



**Green Seaweeds**  
(Chlorophyceae)  
Edible  
*Caulerpa, Ulva* etc

# Integrated Aquaparks

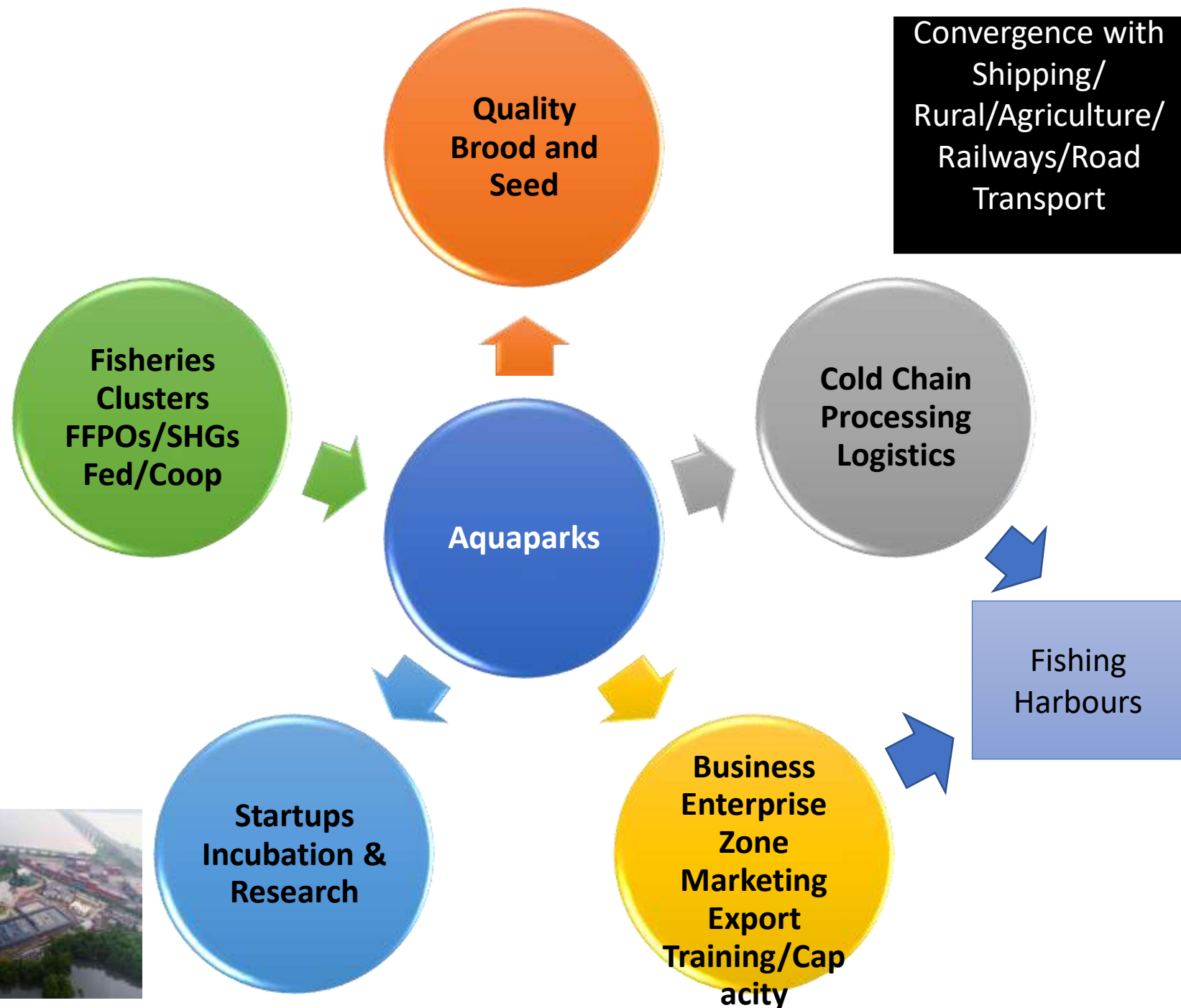
One Stop Integrated Park for  
Entire Fisheries Value Chain

Rapid Expansion of Fisheries and  
Aquaculture especially in North & NE

Hub and Spoke Model

## Specific Themes

- Shrimp Park in North India
- Seaweed Park
- Ornamental Park
- Marine-Tuna Park
- Northeast Park
- Tilapia Park
- Pangasius Park
- Multipurpose Park



# PMMSY- Entrepreneur Models

## Government support

Incentives  
Linkages with producers  
Banks  
E-marketing  
Registration  
Certification  
NFDB labeling  
Clearances

Entrepreneur

- Quality Seed & Feed
- Inputs
- Farm Management Practices
- Certification

Arrangement for Seamless supply of Quality Raw materials

Buy Back Arrangement

Tie up MPEDA for Export

Processor/Exporter

Direct Linkage

Fisher & Aqua Farmer

Training/Awareness/Registration/incentives





# MODERN FISHING HARBOURS & LANDING CENTERS : *HYGENIC HANDLING OF FISH*

46 Fishing Harbors and Major Fishing Landing Centers Construction/Modernization

Convergence with *Sagarmala* of Ministry of Shipping – Will increase the Number

15 more in Convergence with FIDF

13 Fishing Harbours Maintenance Dredging

Integrated Cold Chain

Modern Amenities and World class Standards

Revamping Management : PPP in Management and Operations

Traceability and Standards



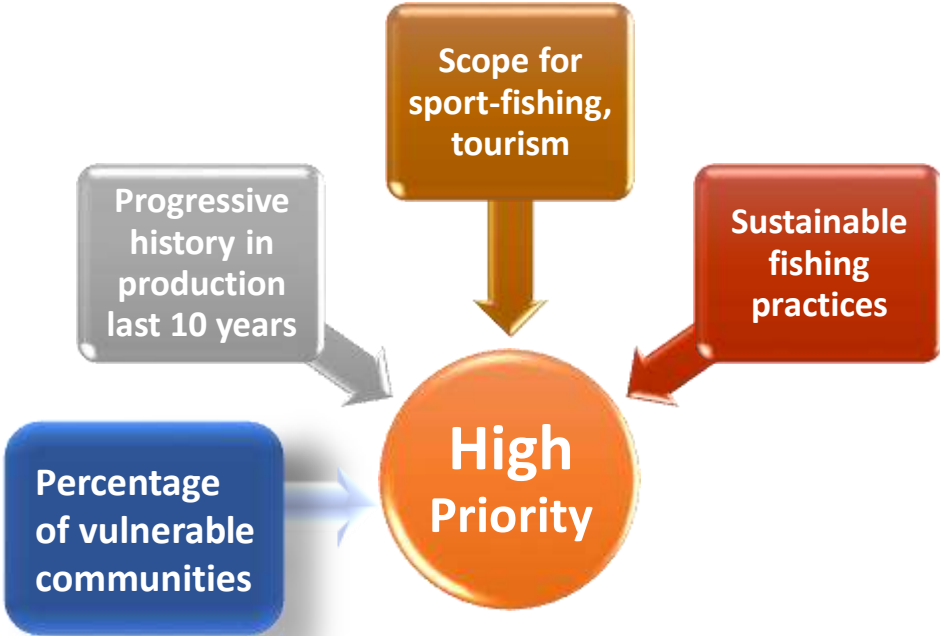
# Integrated Modern Coastal Fishing Villages: Blue Villages

Aim: To develop integrated Modern Coastal villages along the Indian coast in line with the Goals of *FAO- Blue Growth INITIATIVE*



Stage:1

100 Coastal Villages



## Development Strategy

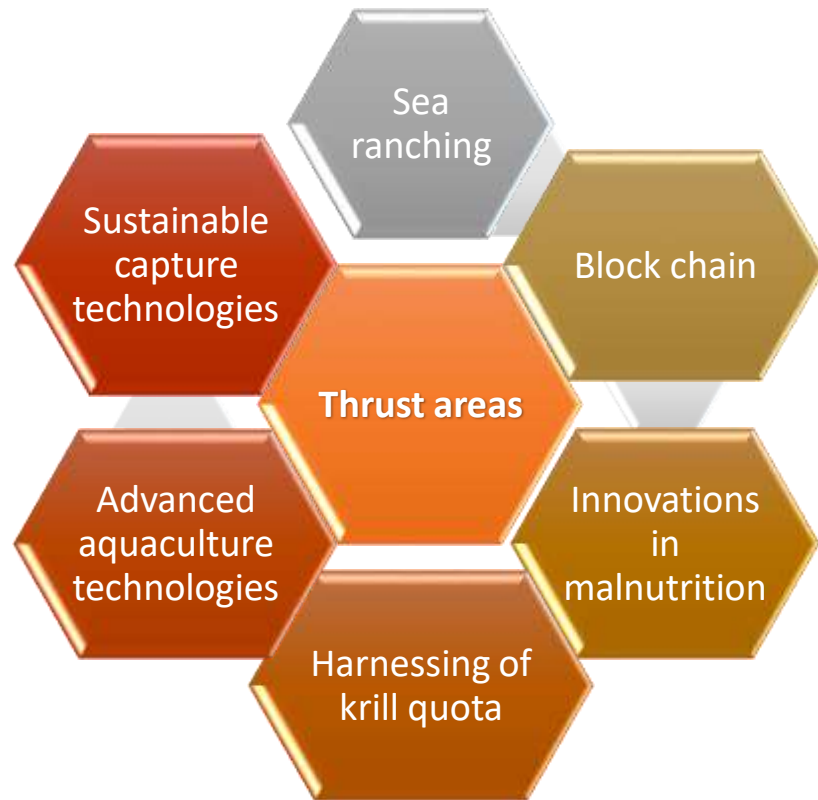
Strengthening	Key elements	Eco-Tourism, Resource sustainability
Reviving	Strengthening	Infrastructure, disaster resilience
Fulfilling	Gaps	Waste disposal, modern logistics and cold chain
Prioritizing	Interests	Vulnerable sections
Integrating	Stake holders	Fishers, Industry, Institutions and Government
Implementing	Innovation	Modern technology, Alternate livelihoods

SDGs -2030

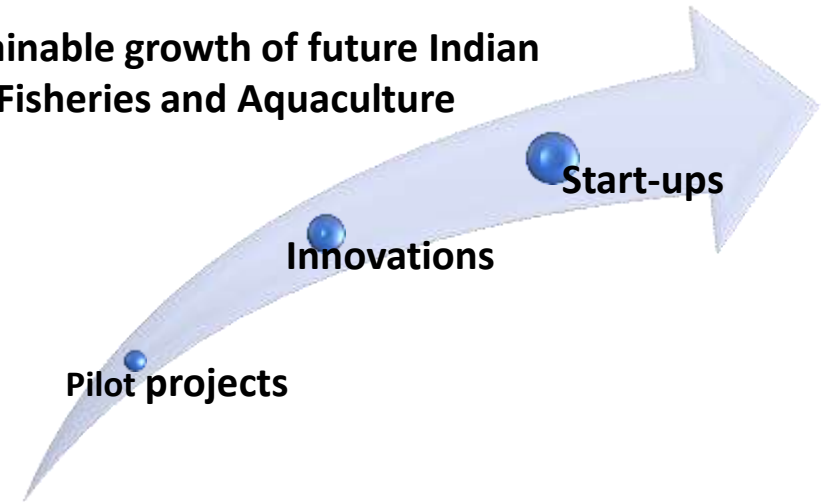
Disaster resilient housing  
Tsunami shelters  
Marketing Amenities  
100% MCS  
Gap filling infrastructure  
Thematic Selection



# Innovations, Startups, Incubation



Sustainable growth of future Indian Fisheries and Aquaculture



Fisheries **incubation centres** will be encouraged in Aquaparks

Mentoring

# Fishers Welfare, Livelihood Support, Safety at Sea

**CONVERGENCE**  
**MHA+ DOS(ISRO) +DES (INCOIS) +**  
**NAVY+COAST GUARD**

Fishing Vessels Insurance

Enhanced Fishers & Fish Farmers Insurance

Saving cum Relief : Livelihood Support  
During Ban/lean period To Traditional  
Fishers. 6 lakh Persons every year

INFRASTRUCTURE  
FOR  
STRENGTHENING  
MCS



Communication and/or Tracking devices



Sea safety Kits with equipment



Patrol boats

On-board  
accidents

Collisions

Piracy

Natural  
calamities



Marine police

Safeguarding the fishers



Indian Coast Guard



Facilitated by



Whenever considered necessary, support will be extended to state security agencies

# Traceability, Certification and Standards - *catch to consumer*

**High Priority Under PMMSY**

**100% Compulsory Accreditation of Hatcheries within next one Year**

Marine Fisheries & Aquaculture  
Global Best Practices would be emulated for improving  
Quality & Hygiene Standards  
Sustainability  
Accountability  
Economic Prosperity

**Resource Convergence with States/UTs, Private Sector, MPEDA**

**IT Tools, Systems for end to end Traceability**

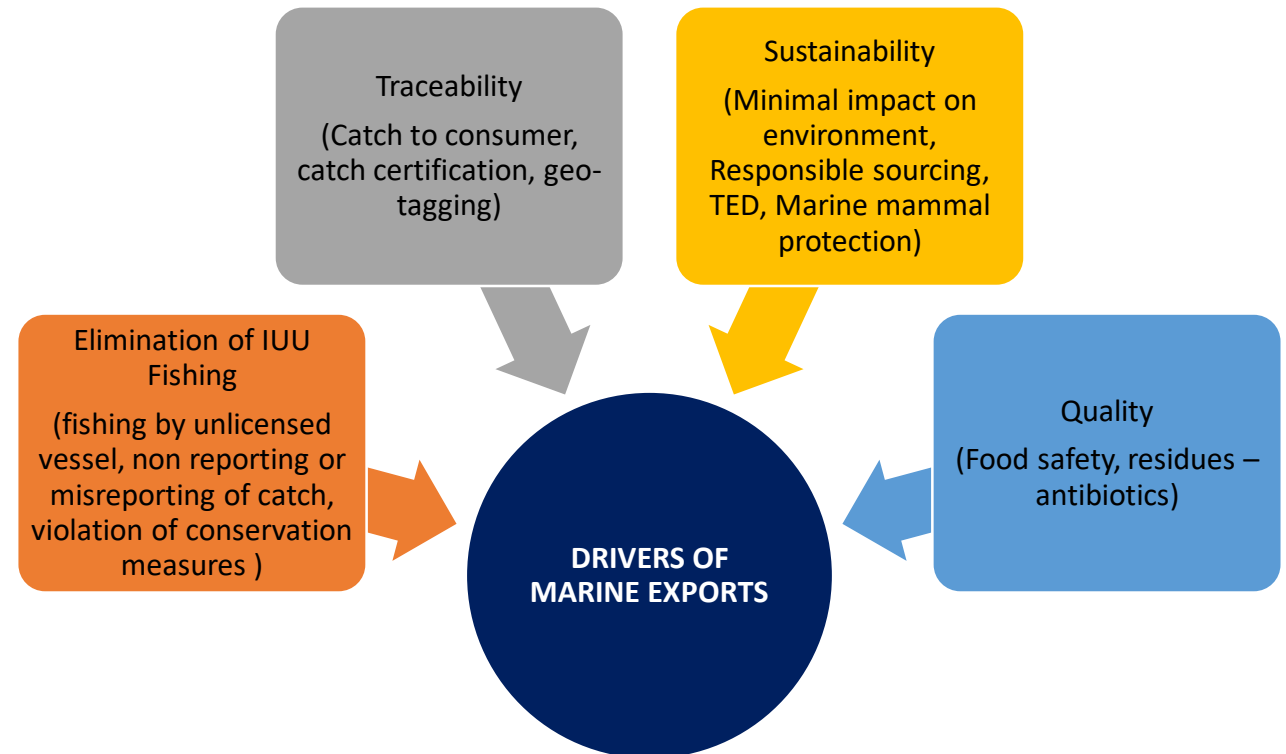
**Training and Capacity Building**

**International Certification & Brand Development**

**MPEDA & NFDB - Certification 'Logo' Mandatory**

**Incentivize farmers for Traceability**

**Integrated into Good Aquaculture Practices**



# STRATEGY FOR DOUBLING EXPORTS FROM Rs 46589 Cr TO Rs 1 LAKH Cr IN 5 YEARS



Doubling Exports

DEPT OF FISHERIES

MPEDA

Hygienic Handling of Fish  
Modern Fishing Harbors and Landing Centers

New Markets &  
Deepening of Existing  
Markets

Aggressive Marketing  
and Brand Promotion

Collectivisation,  
Aquaparks, Clusters,  
FFPOs

Market Access

Non –Tariff  
Barriers/Phyto Sanitary  
/measures

Traceability, Certification  
& Standards

Species Diversification  
Tilapia, Scampi, Mud  
crab, Pangasius

Area Expansion-  
Brackish waters/Saline  
Areas

Technology Infusion  
Improve Productivity

30000 Ha  
Productivity -7 Tons/Ha

Thank You

