

Aqua One Center

An ICT Enabled Aquaculture Support Service

NFDB promotes, supports and pursues dissemination activities through a network of “Aqua One Centers” (AOCs) at different strategic locations across the country. The AOCs would play a key role as an interface between NFDB and aquaculture technology users.

Concept: The AOC will provide Information & Communication Technology (ICT)-enabled Aquaculture Support Service, disseminate proven technologies and innovations and facilitate their wider adoption by registered fish farmers thereby facilitating the sector’s overall growth.

Aim and Objectives

- ✓ Establishing an aquaculture technology delivery system
- ✓ Setting up of respective Aquaculture units for beneficiaries
- ✓ Training beneficiaries in the know-how and better management practices
- ✓ Up-scaling innovative and proven technologies through dissemination
- ✓ Provide quality inputs, lower cost of production; improve efficiency, increase profitability

ICT Enabled Aquaculture Support Service

- ✓ Provide technologies for Pond Culture, Cage Culture in Reservoirs, Culture-based-Capture Fisheries in Wetlands, RAS, Integrated Farming, etc.
- ✓ Better Management Practices (BMPs) including inputs management.
- ✓ Data management
- ✓ Setup and manage Water Quality, Fish Health Laboratory Services
- ✓ Advisory services with reference to life cycle of species cultured, water quality, growth, health, disease diagnosis.
- ✓ Support for setting up Disease Diagnostic Labs, Surveillance, etc.
- ✓ Establish an e-traceability system

- ✓ ICT enabled advisory services related to inputs, better management practices and technologies, pond and fish health management, training and other related activities through ICT service
- ✓ The AOC could also facilitate identification and mitigation of issues/ hurdles/ problems faced midway by hatcheries, seed growers and fish farmers at ground level and could also throw up new challenges to be addressed while promoting adoption of improved fish varieties, technologies, processes, approaches, etc.
- ✓ Documentation of technology adopted and data management.
- ✓ Farmers would be able to adopt new technologies and upscale.

Pattern of Financial Assistance

Unit cost of establishing ‘Aqua One Center’ is Rs. 20.00 Lakh, including consumables and manpower support for one year

For States/UTs:

| Project Cost Sharing Pattern (in Rs.) | | | | | |
|---------------------------------------|-------------|-----------|----|------------|-------------------|
| Region & Category of Beneficiary | Category | Unit Cost | % | NFDB Share | Beneficiary Share |
| Other States | Gen | 20,00,000 | 24 | 4,80,000 | 15,20,000 |
| | SC/ST/Women | 20,00,000 | 36 | 7,20,000 | 12,80,000 |
| North East & Hilly States | Gen | 20,00,000 | 36 | 7,20,000 | 12,80,000 |
| | SC/ST/Women | 20,00,000 | 54 | 10,80,000 | 9,20,000 |
| Union Territories | Gen | 20,00,000 | 40 | 8,00,000 | 12,00,000 |
| | SC/ST/Women | 20,00,000 | 60 | 12,00,000 | 8,00,000 |

For Govt. Fisheries Institutes:

- i) In General States 50% of unit cost with a ceiling of Rs. 10.00 lakh/unit as subsidy
- ii) For North East/Hilly States 80% of unit cost with a ceiling of Rs.16.00 lakh/unit as subsidy

Components of AOC Unit

| Sl.No. | Components / Items |
|--------|--|
| 1 | Laboratory Equipment for Soil & Water Testing and Fish Health Management |
| 2 | Accessories, Furniture, Interior Design, etc. |
| 3 | ICT Tools and its management |
| 4 | Two-Wheeler and Field Kits |
| 5 | Manpower(Field Coordinator/Sales Coordinator/Lab Clinician/Expert Service) |
| 6 | Recurring Expenses (Maintenance costs, Travel costs, etc.) |

Benefits and Outcome of Project

- ✓ Enrolment of the hatcheries, seed growers and farmers.
- ✓ Supply of inputs like seed, feed & other inputs to farmers.
- ✓ Pond management and monitoring that includes water quality analysis, growth and health monitoring.
- ✓ Sampling for a passive system of disease surveillance to screen the notifiable diseases.

Locations Proposed

Location of an AOC unit preferably is to be in a fish seed production and farming hub having road connectivity, approachability, better conveyance, etc. to facilitate visit of farmers to AOC unit for interaction and periodic visit of AOC staff to the field.

Details of AOCs Sanctioned:

| Sl. No. | State | No. of AOC Units |
|---------|----------------|------------------|
| 1 | Andhra Pradesh | 50 |
| 2 | Assam | 8 |
| 3 | Bihar | 6 |
| 4 | Chhattisgarh | 3 |
| 5 | Gujarat | 2 |
| 6 | Jharkhand | 6 |
| 7 | Karnataka | 6 |
| 8 | Maharashtra | 4 |
| 9 | Manipur | 2 |
| 10 | Odisha | 19 |
| 11 | Rajasthan | 1 |
| 12 | Tamil Nadu | 17 |
| 13 | Telangana | 23 |
| 14 | Tripura | 2 |
| 15 | West Bengal | 12 |
| | Total | 161 |

AOC Service Providers

AOCs established - 72 Units by:

- ✓ Information and Inputs for Sustainable Aquaculture (IIFSA), Nellore, Andhra Pradesh
- ✓ Stampit Business Solutions LLP, Hyderabad
- ✓ Brihaspathi Technologies Pvt. Ltd., Hyderabad
- ✓ Frontalrain Technologies Pvt. Ltd. Bangalore
- ✓ National Federation of Fishermen Cooperatives Ltd, FISHCOPFED, New Delhi

AOCs to be established:

Additionally, sanction was given to 22 firms/individuals to establish **89 AOC Units**.

The AOC will be responsible to provide interface between NFDB and selected hatcheries/seed growers/fish farmers in sourcing, procurement, transport and stocking of brood fish or seed material for further rearing/stocking in growout ponds, etc.

Services Offered by AOC

The charges collected for various types of services offered to Seed Rearing Farmers and Growout Farmers are as follows:

| AOC Service Charge details for Seed Rearing & Growout Farmer | | | | | |
|--|------------|-------------------------------|-----------------|--------------------------------|-----------------|
| Service | Rate (Rs.) | Minimum Visits per Pond (No.) | | Eligible Amount per Pond (Rs.) | |
| | | Seed Growers | Growout Farmers | Seed Growers | Growout Farmers |
| Registration | 50 | 1 | 1 | 50 | 50 |
| Growth monitoring through biomass sampling & advisory | 100 | 6 | 12 | 600 | 1,200 |
| Health Monitoring & advisory | 50 | 6 | 12 | 300 | 600 |
| Water & Soil Quality (10 parameters) & advisory | 150 | 6 | 12 | 900 | 1,800 |
| Total | | 19 | 37 | 1,850 | 3,650 |

Similarly services for the adoption of new technologies will also be provided by AOCs as per the requirement of Aquaculture systems such as cage, pen culture and RAS etc.

Summary:

The major focus of NFDB is on facilitating sector development in line with the technological advancement and adoption by way of promoting new technologies and practices to suite local resources & conditions on a continued basis.

The AOCs would be deployed at any type of water resource where fishers and fish farmers are engaged in clusters.

A network of hatcheries producing quality seed of improved varieties, seed growers and growout farmers, suppliers of inputs such as quality feed, fertilizers, chemicals, etc., would be established by the AOCs.

Subsidy would be provided for one cycle/crop and the costs would be shared between the fish farmers and NFDB.

Support services would include quality seed stocking in pond/cage/pen, feed management, growth monitoring, health management, disease diagnosis, data collection and documentation of technology adopted, crop insurance, etc.

The overall objective is to facilitate adoption of proven technologies paving the way for up-scaling and multiplier effect to achieve the targeted production of 15 MMT fish production in the country by 2020.



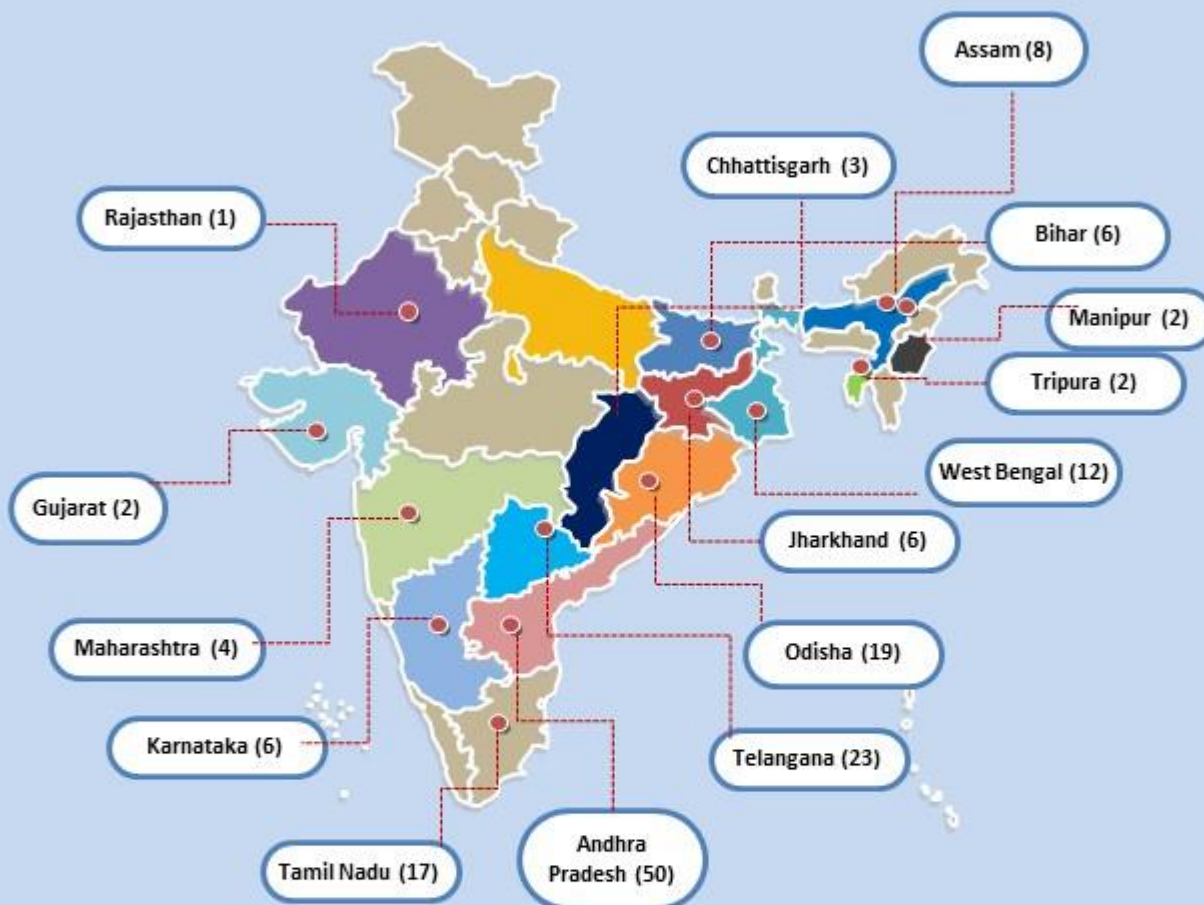
National Fisheries Development Board

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Aqua One Centers (AOCs) in India



| Abstract | |
|---------------------|-------|
| Particulars | Total |
| AOCs | 161 |
| States | 15 |
| Firms & Individuals | 28 |