# 7. DEVELOPMENT INITIATIVES IN AQUACULTURE

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Development and growth in fisheries are sustainable only with adequate support for training, extension, skilled human resources and market infrastructure, which lay the foundation for improved productivity and competitiveness. Support services have traditionally focused on capture fisheries but have recently shifted toward aquaculture. Fisheries development depends on the policy and institutional environment comprising laws, administrative directives, institutions, services, infrastructure support and incentives. Here in this chapter, supports available from major different institutes and agencies for taking up aquaculture activities are summarised for the benefit of farmers and entrepreneurs and government officials.

#### **Schemes of NFDB**

#### 1. Coastal Aquaculture

Name of the	Unit cost	Pattern of Assistance
Activity/Scheme		
Construction of ponds	Rs. 2.40 lakhs / ha.	25% cost subject to a maximum of Rs. 0.60
for brackish water fin		lakhs/ha as subsidy.
fish culture		
Additional infrastructure	Rs. 2.00 lakhs / ha.	25% cost subject to a maximum of Rs. 0.50
for brackish water finfish		lakhs/ha as subsidy.
culture for modification		
of existing farms.		
Input assistance for	Rs. 2.00 lakhs / ha.	• one time back ended subsidy of 25% to
brackish water fin fish	(Subject to the	all farmers to a maximum of 0.75
culture.	approval of CIBA	lakhs/ha and
	based on the	Back ended subsidy of 30% on the capital
	production levels).	cost to SCs/STs not exceeding Rs. 3.0
		lakhs/ha.
Input assistance for cage	Rs. 7.00 lakhs /ha.	• Back ended subsidy of 25% on the
culture of brackish water	(Subject to the	working capital for first crop with a
fin fish.	approval of CIBA /	ceiling of Rs 1.75 lakhs/ha
	RGCA based on	• Back ended subsidy of 30% on the
	the production	working capital for first crop to SCs/STs
	levels).	with a ceiling of Rs 2.10 lakhs/ha.

#### 2. Mariculture

Name Activit	Name of the Activity/Scheme		> Unit cost	> Pattern of Assistance		
Setting	up of ope	n sea	Rs. 2.00 crores per unit.	20% equity participation on		
cage	culture	by		investment.		

companies.		
Setting up of new	Rs. 72 lakhs.	40% subsidy on the unit cost
hatcheries for brackish		exceeding Rs. 28.80 lakhs /
water fin fish seed		unit.
production.		
Diversification by	Rs. 70.00 lakhs.	20% subsidy on the unit cost
shrimp hatcheries to		not exceeding Rs. 28.0 lakhs /
brackishwater fin fish		unit.
seed production.		
Assistance for setting	Capital cost of Rs. 6.00 lakhs /cage	40% back ended subsidy on
up of open sea cage	and working capital of Rs. 4.15	capital and working capital of
culture units.	lakhs/cage of 12 meter dia.	fishermen groups and
		entrepreneurs.
Assistance for setting	Capital cost of Rs. 1.25 lakhs /	40% back ended subsidy on
up of open sea cage	cage of 6 meter dia.	capital cost to fishermen
culture units by		societies and groups.
fishermen societies		
and SHGs.		
Training on marine	100% grant.	100% financial assistance to
ornamental fish		Government institutions as
culture.		per the guidelines of NFDB.
Assistance to	Rs. 20,000 / unit of 50 m <sup>2</sup> .	50% subsidy on the unit cost.
Mussel/Oyster/clam		
culture / other		
commercial		
shellfishes.		
Seaweed culture.	Rs. 5,000 / unit.	50% subsidy on the unit cost
		to women SHG's and
		entrepreneurs.

# 3. Construction of new fish/prawn ponds and tanks

Name of the	Unit cost	Pattern of Assistance
Activity/Scheme		
Existing species	Rs. 3.0 lakhs /ha. for	20% subsidy with a ceiling of Rs. 0.60
Entrepreneurs /	plane areas.	lakhs/ha. and 25 % subsidy to SC and ST's
Farmers.		with a ceiling of Rs. 0.75 lakhs/ha.
	Rs. 4.0 lakhs/ha. in hill	20% subsidy with a ceiling of Rs. 0.80
states / Districts and NE		lakhs/ha. and 25 % subsidy to SC and ST's
	region.	with a ceiling of Rs. 1.00 lakhs/ha.

## 4. Renovation of existing ponds

Name of the		Unit cost	Pattern of Assistance						
Activity/Scheme									
Renovation	n of	fish/prawn	Rs. 0.75 lakhs /ha.	20%	subsidy	for	all	farmers	/

ponds and tanks.		entrepreneurs with a ceiling of Rs. 0.15			
Entrepreneurs / Farmers.		lakhs/ha. and 25 % subsidy to SC and			
New Species Pangasius	Rs. 0.75 lakhs/ha.	ST's with a ceiling of Rs. 0.1875			
sutchi.		lakhs/ha.			

5. Cost of inputs

Name of the	Unit cost	Pattern of Assistance
Activity/Scheme		
For prawn farming	Rs. 1.80 lakhs /ha.	20% subsidy with a ceiling of Rs. 0.36
entrepreneurs/farmers		lakhs/ha. for all the farmers.
For fish / prawn	Rs. 0.50 lakhs /ha.	20% subsidy for all Entrepreneurs/ Farmers.
farming in paddy		
fields.		
Entrepreneurs/farmers		
New Species Pangasius	Rs. 5.0 lakhs /ha.	40% of subsidy of the unit cost for initial
sutchi.		period of 2 years and thereafter 20% for all
		farmers and 255 for SC and ST's.

6. Establishment of freshwater prawn seed hatchery

Name	of	the	Unit	cost		Pattern of Assistance
Activity/So	heme					
· • •	5 million PL Government		Rs. /unit		lakhs	90% of the unit cost as one time establishment of hatchery at state Level.
- '	5-8 million for entreprer			12.00	lakhs	20% subsidy with a ceiling of Rs. 2.40 lakhs to entrepreneurs / farmers.

# 7. Establishment of fish seed hatchery

Name of	the	Unit cost	Pattern of Assistance
Activity/Scheme			
		Rs. 12.00 lakhs	20% back ended bank linked subsidy to
Establishment of	fish	/unit for plain	entrepreneurs / farmer with a ceiling of Rs.
seed hatcheries with	h or	areas.	2.4 lakhs / unit.
without nurseries	(7-8		90 % of the unit cost as one time grant to the
million - fry capac	ity /		state Fisheries department, Quasi
year.			Government organisations and research
			Institutes.

	Rs. 16.00 lakhs /	20% back ended bank linked subsidy to
	Unit in hill state	entrepreneurs / farmers with a ceiling of Rs.
	/ Districts of NE	3.2 lakhs / unit.
	region.	90 % of the unit cost as one time grant to the
		state Fisheries department, Quasi
		Government organisations and research
		Institutes.
New species	Unit cost has to	20% back ended subsidy on capital
(Cultivable species other	be approved by	investments.
than Major carps).	CIFA.	
Entrepreneurs / farmers.		

## 8. Renovation of fish seed farms

Name of the Activity/Scheme	Unit cost	Pattern of Assistance
Government fish seed rearing farms	Rs. 2.00 lakhs /ha	90% one time grant for
(aged about 5 years and above).	rearing area.	state Fisheries department
		only.
Renovation / re-modelling /	Rs. 4.00	90% one time grant for
upgradation / reconstruction of	lakhs/hatchery of 7-8	state Fisheries department
hatchery / nurseries in government	million fry production	only.
sectors (aged about 5 years and	/ year.	
above) for existing and new species.		
Capacity: 7-8 million fry / year.		

# 9. Fish seed rearing units

Name of the	Unit cost	Pattern of Assistance
Activity/Scheme		
Construction of fish	Rs. 2.00 lakhs /ha for	20% subsidy for all farmers / entrepreneurs
seed rearing units	plain areas area.	and 25% subsidy to SC and STs.
for fry rearing to		20% subsidy for all farmers / entrepreneurs
large fingerlings of	Rs. 4.00 lakhs / ha. in	and 25% subsidy to SC and STs.
80-100mm size.	hill states / Districts of	90% one time grant to government / quasi
	NE region.	government organizations.

# 10. Brood stock development

Name of the Activity/Scheme			Unit cost		Pattern of Assistance		
Brood	stock	development	Rs. 25.00 lakhs	including a	Full	grants	to
programme including ornamental		farm transport		Governme	ent agencie	es /	
fish.			arrangements	for	Governme	ent institut	ions
For Go	overnment	agencies /	dissemination.	Available	only.		
Government institutions only.			for the state gov	ernments.			

## 11. Fresh water Ornamental Fisheries

Name of the	Unit cost	Pattern of Assistance	
Activity/Scheme			
Backyard hatchery	Rs. 1.50 lakhs	50% unit cost as subsidy to entrepreneurs,	
		members of women SHGs / Fisherwomen	
		Cooperative Societies.	
Medium scale unit	Rs. 4.0 lakhs	50% unit cost as subsidy to beneficiaries.	
Integrated ornamental	Rs. 15.00 lakhs	90% subsidy to the Government Agencies /	
Fishery units		Government Institutions and 50% unit cost	
		as subsidy to entrepreneur.	
setting up of Aquarium	Rs. 1.00 lakh	50% unit cost as subsidy to members of	
fabrication units		women SHGs / Fisherwomen Cooperative	
SHGs/Enterpreneurs		Societies and 25% unit cost as subsidy to	
		individual persons.	

## **Schemes of MPEDA**

S.No.	Name of the scheme	Objective	Quantum of subsidy
1.	Subsidy for new farm development.	For development of new shrimp/scampi farms.	25% of the capital cost, subject to a maximum of Rs.50, 000/- per ha. WSA and restricted to Rs. 2.5 lakh per beneficiary.
2.	Subsidy for small-scale hatcheries.	For setting up of shrimp/scampi hatchery with a minimum production capacity of 10 million seeds per annum.	25% of the capital cost subject to a maximum of Rs. 3.00 lakh for private hatcheries
3.	Subsidy for medium- scale hatcheries	For setting up of shrimp/scampi hatchery with a minimum production capacity of 30 million seeds per annum	50% of the capital cost, subject to a maximum of Rs.20.00 lakh per beneficiary / hatchery limited to 6 hatcheries only
4.	Subsidy for setting up of PCR labs in hatcheries/Pvt. Lab	To establish PCR labs in Hatcheries/Pvt. Lab	50% of capital cost, subject to a maximum of Rs. 5.00 lakh per beneficiary /hatchery 50% of capital cost, subject to a maximum of Rs. 5.00 lakh per beneficiary /hatchery.
5.	Subsidy for effluent treatment system (ETS) in Shrimp Farms	To set up effluent treatment systems attached to shrimp farms	25% of the capital cost, subject to Rs. 1.50 lakh for shrimp farms with a minimum water area of 5.00 ha. and up to Rs.6.00 lakh per beneficiary.

	Τ=		
6.	Registration of Aquaculture Societies	For adoption of BMPs and Code of Practices for sustainable shrimp farming for sector wide management of aquaculture farms	50% of the estimated cost subject to a maximum of Rs. 5.00 lakh for setting up of office, ware house/auction hall, common facility etc., Laboratory facilities, Hiring technicians, training farmers / technical personnel and methodology for promoting environmentally sound farming. Being operated in a phased manner.
7.	Providing of financial assistance for farmers for undertaking organic farming of shrimp and scampi	To promote the development of eco- friendly, socially responsible organic farming and to build up a strong economical production center.  To implement the organic production of shrimp/scampi seed, feed and to process the organic produce.  To develop new export opportunities with special focus on global premium seafood markets.	Extending financial assistance @ Rs. 50,000/- per ha of WSA or 50% of the total cost of certification, feed cost and seed cost (including transportation charges) whichever is less to the farmers for undertaking organic farming in new farms. Ceiling limit for individual farmers in maximum of 6 ha and above or Rs. 3 lakhs whichever is lowest and for padasekharams/
8.	Scheme for providing financial assistance for establishment of Ornamental Fish Breeding Units.	Generate export oriented employment in rural and urban households through mass production ornamental fishes.	
9.	Scheme for providing financial assistance for establishment of Ornamental Fish Marketing Societies (OFMS).	To provide marketing infrastructure and to reduce intermediaries for ornamental fish breeders.	

10.	Developmental	To enable Indian	10% of f.o.b. value of export
	assistance for Export	Ornamental fishes to	effected to the world countries
	of Ornamental/	penetrate the world market.	except Singapore and other
	Aquarium fishes.		South East Asian Countries
			(no ceiling).

# Schemes of RASHTRIYA KRISHI VIKASA YOJANE (RKVY) (Schemes implemented through State Fisheries Department)

## 1. MUSSEL CULTURE:

S.No.	Name of the scheme	Unit cost	Quantum of subsidy
1.	Proposed to establish 50 units for	Rs. 20,000 per	Each beneficiary will be
	culture of mussels and an	unit	provided100% subsidy
	allocation of 20.00 lakhs made.		amounting to Rs.40,000.
			Rs.1.50 lakh provision has
			been made to train 50
			beneficiaries to take up mussel
			culture.

### 2. SEA WEED CULTURE

S.No.	Name of the scheme	Unit cost	Quantum of subsidy
1.	Proposed to establish 50 units for	Rs. 5,000 per	Each beneficiary will be
	culture of sea weeds (each unit	unit	provided 100% subsidy
	with 4 rafts). An allocation of		amounting to Rs.20,000 Rs.
	Rs.10.00 lakhs is made for this		1.50 lakh provision has been
	programme.		made to provide training to 50
			beneficiaries on sea weed
			culture.

#### 3. MUD CRAB FARMING

S.No.	Name of the scheme	Unit cost	Quantum of subsidy
1.	Proposed to provide assistance to	Rs. 2.50 lakhs /	Each beneficiary will be
	take up mud crab farming.	ha.	provided 100% subsidy
	The total allocation made is		It is proposed to encourage 4
	Rs.10.00 lakh.		such ventures (0.4 hectare).
			Rs.1.0 lakh provision has been
			made to train 20 beneficiaries
			under this programme.

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