

The background is a dark blue field filled with various sizes of semi-transparent gears. On the left side, there is a vertical strip with a colorful, abstract, and textured appearance, possibly representing a collage or a specific material.

Brief overview
Of

AQUACULTURE IN INDIA

and

PROSPECTS OF MARINE FIN FISH CULTURE



Y.C. THAMPI SAM RAJ

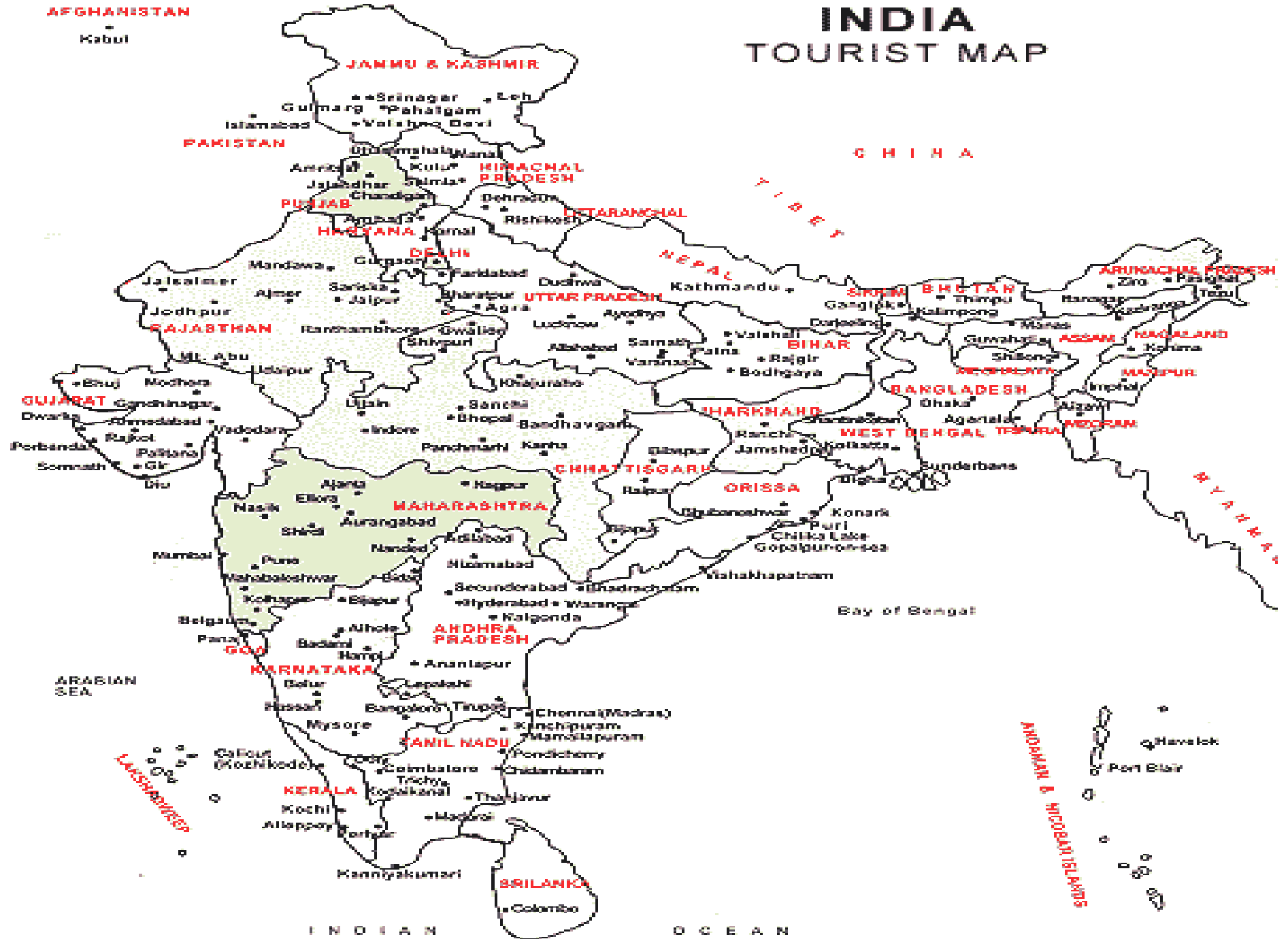
Project Director

RAJIV GANDHI CENTRE FOR AQUACULTURE (RGCA)

MPEDA, Ministry of Commerce & Industry

Government of India

INDIA TOURIST MAP



AQUACULTURE POTENTIAL IN INDIA

- **Total Coast Line**
(includes Andaman & Nicobar islands
and Lakshadweep islands) : 8129 Km
- **Total Brackish Water area available** : 1.2 Million ha.

FRESH WATER RESOURCES

- **Fresh Water Earthen ponds** : 2.25 Million ha
- **Lakes and Reservoirs** : 2.09 Million ha
- **Abandoned paddy fields suitable for
fish culture** : 2.3 Million ha
- **Rivers & Canals** : 0.16 Million KM.

PRESENT STATUS OF PRODUCTION FROM AGQUACULTURE

FRESH WATER AREA

Aquaculture in India is mainly carp based and carp alone contributes over 1.3 million tons every year.

- This production comes from 0.6 million ha of fresh water ponds.
- The average production level is 2 tons / ha / yr.
- Indian major carps are the main species cultured i.e Catla catla, Labeo rohita, Cirrihinus mrigala.
- Another Main Species cultured in Fresh Water Area is *Macrobrachium rosen bergii* (Scampi)
 - Area under culture - 36,640 ha -
 - Production - 24,230 tons.

PRESENT STATUS OF PRODUCTION FROM AQUACULTURE

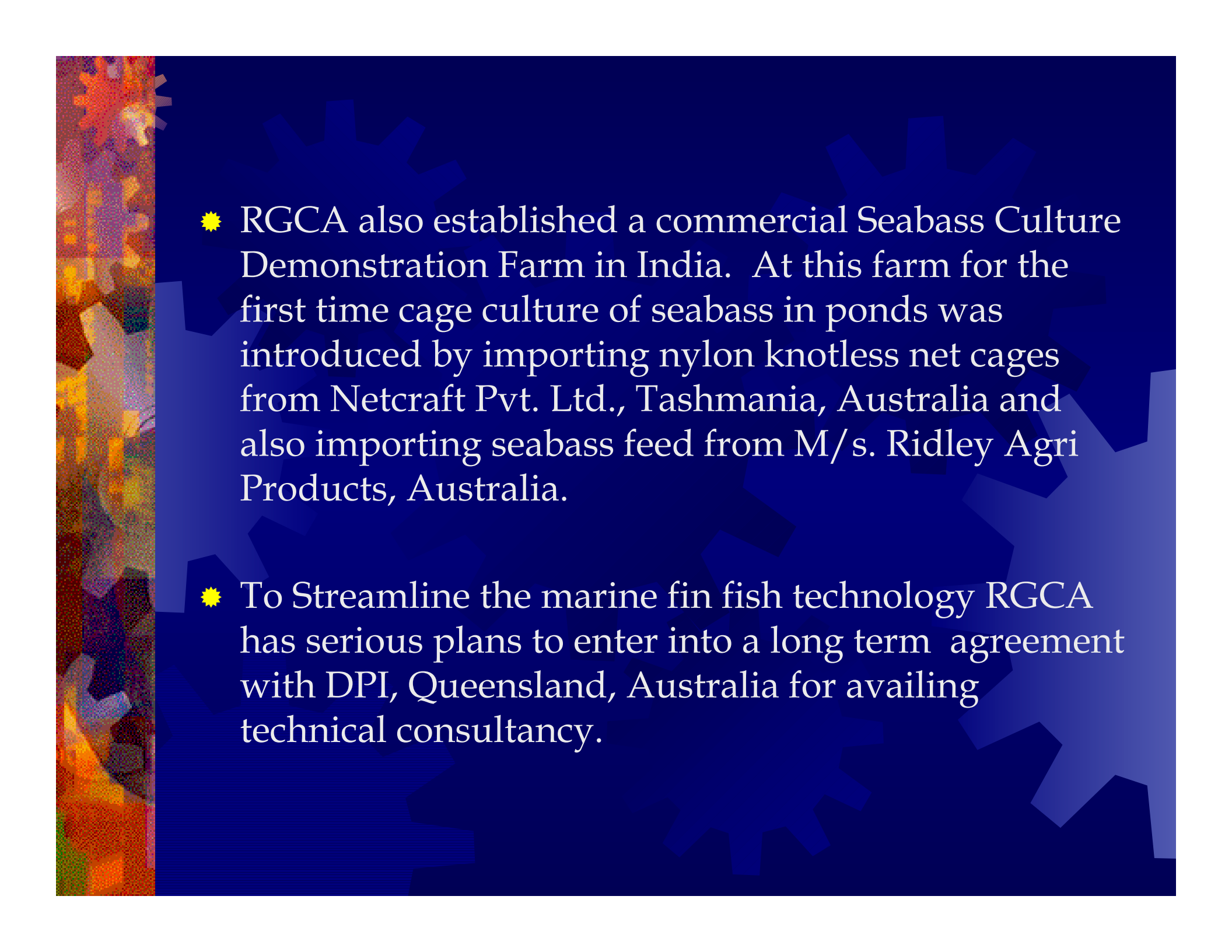
BRACKISH WATER AREA

Total area under culture	: 1,57,400 Ha
	(i.e around 14 % of the total potential area)
Shrimp Production	: 1,02,940 tons.
Average Production / ha.	: 600 kg /ha/yr
Contribution to exports value.	: 58 % by quantity and 85% by

No other species is commercially cultured in India particularly marine fin fishes.

RAJIV GANDHI CENTRE FOR AQUACULTURE

- ★ Rajiv Gandhi Centre for Aquaculture was setup by the Government of India to develop commercial culture technologies for species which commands good market Potential particularly marine fin fishes.
- ★ In this connection RGCA has now for the first time in India initiated projects for developing marine fin fish culture in India.
- ★ As a first steps RGCA established a commercial hatchery for production of seabass seeds in India by availing marginal technical advise from Central Institute of Brackishwater Aquaculture (ICAR) and also by availing hands on training ' on seabass culture' from Northern Fisheries Centre, DPI, Government of Queensland, Australia.

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- ★ RGCA also established a commercial Seabass Culture Demonstration Farm in India. At this farm for the first time cage culture of seabass in ponds was introduced by importing nylon knotless net cages from Netcraft Pvt. Ltd., Tashmania, Australia and also importing seabass feed from M/s. Ridley Agri Products, Australia.
 - ★ To Streamline the marine fin fish technology RGCA has serious plans to enter into a long term agreement with DPI, Queensland, Australia for availing technical consultancy.


SEABASS HATCHERY
OF
RAJIV GANDHI CENTRE OR AQACULTURE (RGCA)



OPERATIONAL HIGHLIGHTS OF SEABASS HATCHERY OF RGCA

- Mass Culture of Live feed
- Mass Culture of suitable algal strains
- Enrichment of Artemia Nauplii
- Larval Rearing attempts
- Weaning of larvae to artificial diets
- Growing of larvae to fingerlings with Dry pellet feeds
- Grading of fish seed
- Packing of different sizes of seed and transporting to different distances.

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- Collection of wild brooders and transportation of brooders.

- Conditioning of brooders

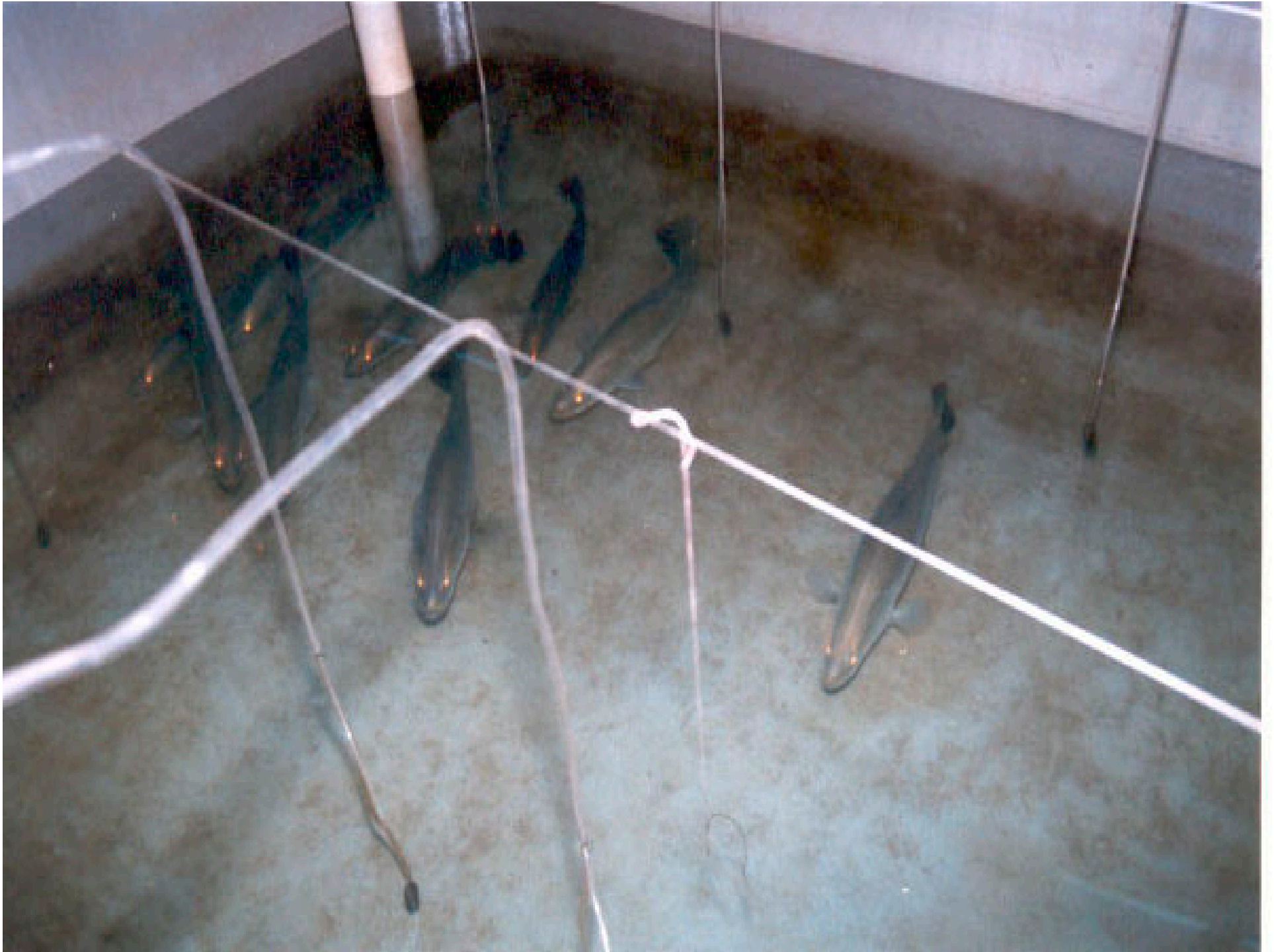
- Weaning of brooders to fresh frozen fish

- Determination of maturity by cannular biopsy

- Induced breeding by using LHRH



















**SEABASS CULTURE DEMONSTRATION FARM
OF
RAJIV GANDHI CENTRE FOR AQUACULTURE (RGCA)**



















IMPORTANT SPECIES CAUGHT FROM INDIAN SEAS

Scientific Name

Common Name

Epinephelus aerolatus	-	Aerolated Reef cod
“ blekeri	-	Dusky – tail reef cod
“ chlorostigma	-	Brown spotted Grouper
“ fasciatus	-	Red banded grouper
“ fuscoguttatus	-	Brown marbled grouper
“ malabaricus	-	Malabar grouper
“ hexagonatus	-	White specked grouper
“ merra	-	Honey comb grouper
“ modestus	-	Moustached grouper
“ tauvina	-	Greasy grouper
“ dicanthus	-	Thorny – Cheek grouper



THANKS