Implementation of the BOBLME Project in India

Country Report

Global Vs. Indian Fisheries Scenario

Global Production

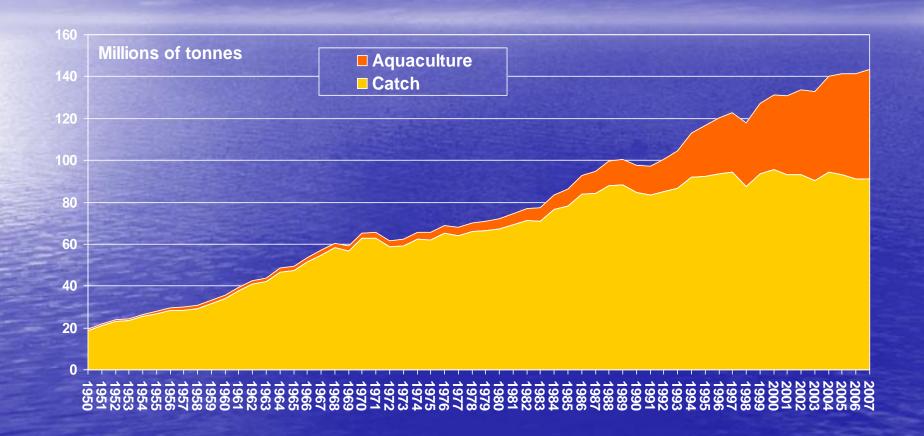
	Quantity (million tonnes)	% Share
Total Fisheries (2005)	141.6	100
Marine Capture Production	84.2	59.5
Inland Capture Production	9.2	6.5
Inland Aquaculture	28.9	20.5
Mariculture	18.9	13.5

Indian Production (2007-08)

Total Fisheries	7.13	100
Marine	2.91	40.9
Inland	4.22	59.1

10/Nov/2009 2

World Fish Production



World Fish Production 2007 (2006, 2005, 2004)

Catches:

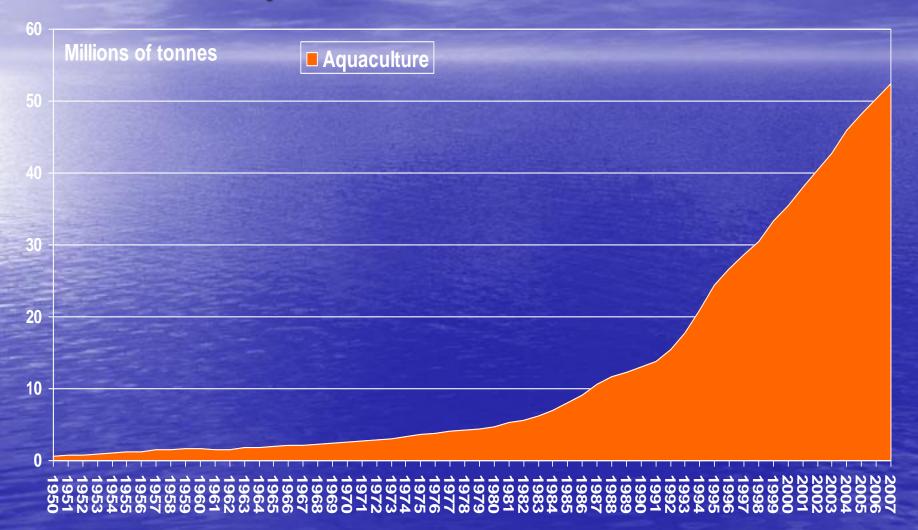
91 (91, 93, 94) mmt

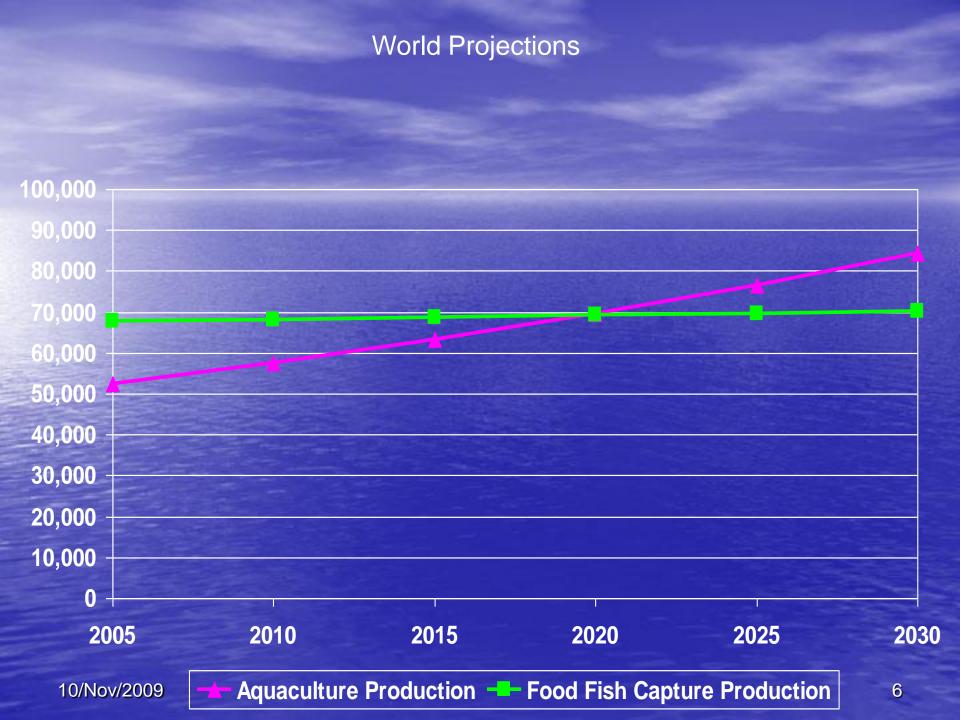
Aquaculture: 52 (50, 48, 46) mmt

Total: 143 (141, 141, 140) mmt

10/Nov/2009

World Aquaculture Production





Profile of Fish Utilization (million tonnes)

	Global	India
Total Production	143.0	7.13
Human Consumption	108.0	5.80
Non-food uses	35.0	1.33
Per-Capita fish supply (kg)	16.6	4.78

10/Nov/2009 7

India: Fisheries Resources

Marine

	100				
Leng		OT	()=		
	الكاد			\mathbf{D}	
				_	

- Exclusive Economic Zone
- Continental shelf
- No of landing centres
- No of Fishing Villages
- Estimated potential

Inland

- Rivers and canals
- Reservoirs
- Ponds and tanks
- Brackish water

8118 km

2.02 million sq. km

0.506 million sq.km

1914

3827

3.9 million tonnes

0.19 million km

3.15 million ha

2.36 million ha

1.24 million ha

India: Fishing Craft and Fisher Population

Traditional Craft 1,81,300

Motorized Craft 44, 600

Mechanised Vessels 53,700

Total craft 2,79 600

Fisher population 144,850,00

India - Fish Species Diversity

			2200
<u> </u>	FISI	n Species	2200

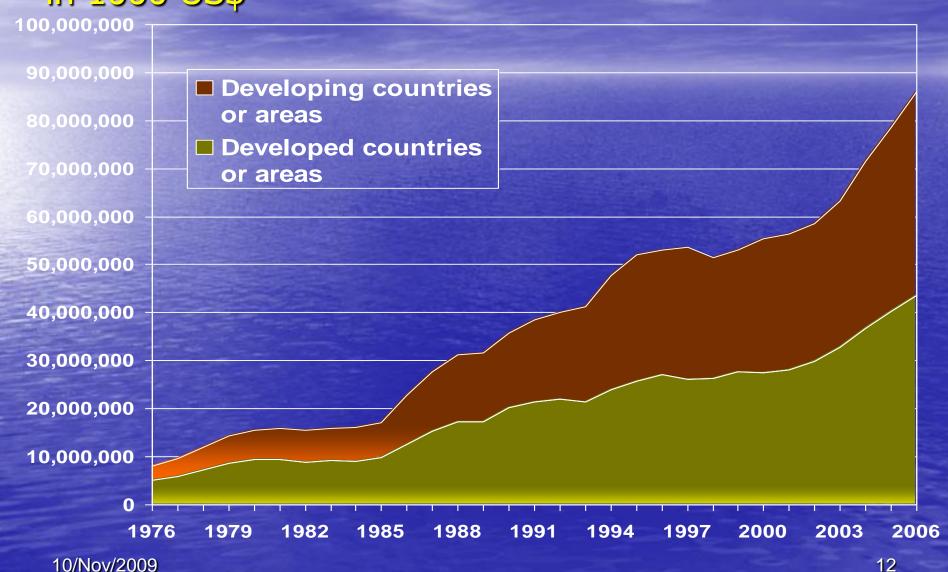
- Marine1440
- Freshwater 544
- Coldwater73
- Brackish-water 143

Indian Fisheries Projections

re1√	Production in 2008, million tonnes	Projected production in 2012, million tonnes	Projected production in 2022, million tonnes
Marine capture fisheries	2.91	3.00	3.13
Mariculture	0.01	0.03	0.12
Coastal aquaculture	0.144	0.16	0.34
Inland capture fisheries	0.85	1.20	1.70
Coldwater fisheries	0.0003	0.001	0.01
Freshwater aquaculture	3.22	5.60	7.40
Total	7.13	9.99	12.70
Export 10/Nov/2009	0.62 (Rs. 8,000 crore)	0.70 (Rs. 10,000 crore)	0.82 (Rs. 15,400 crore)

World Fish Trade: Export Value

- in 1000 US\$ -



India-Profile of Seafood Exports

World Ranking: 19th Position

meil	Quantity	Value (US\$)
ובלסד	0.61 million tonnes	1.85 billion
Shrimp	28%	55%
<mark>ປຸເທມຸຊຸກ</mark>	17%	
Cuttle fish	9%	
Squid	7%	

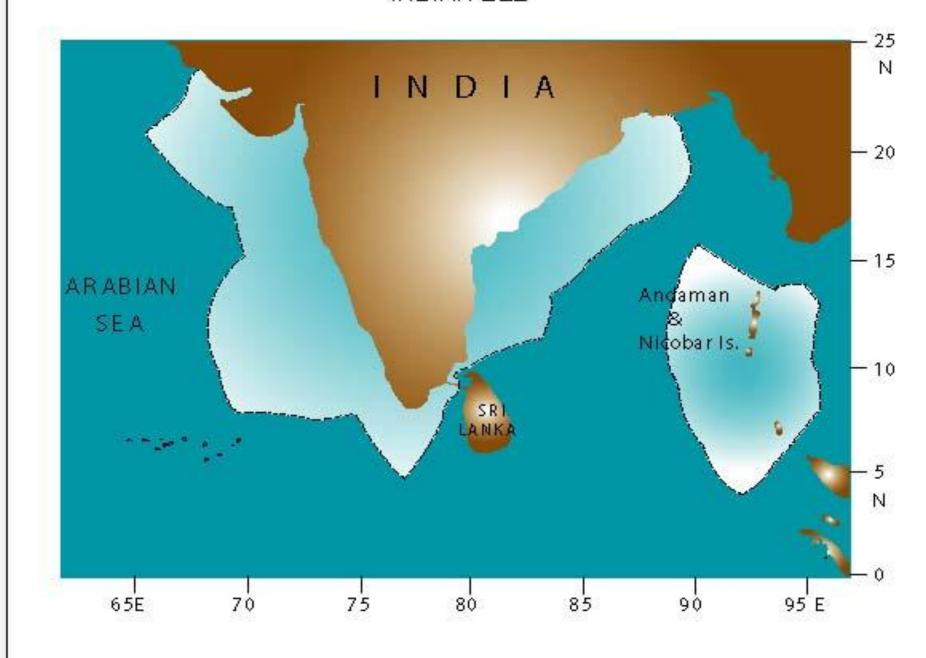
10/Nov/2009

Marine Fisheries Scenario-Challenges:

- ≈ Depleting Marine catches
- ≈ Over fishing in coastal waters
- ≈ Highly Perishable and post–harvest loss
- ≈ Weak presence in the EEZ and high seas
- ≈ Low levels of investment

10/Nov/2009

INDIAN EEZ



Issues

- 11 Open water, open access
- າາ Multi-species, multi-gear
- 11 Potential Fishing Zones
- 11 Fish Aggregating Devices
- n Mesh/season regulations
- Island fisheries (underutilized, poor infrastructure support)
- n Ranching

Comprehensive Marine Fishing Policy

The policy objectives are:

- to augment marine fish production of the country up to the sustainable level in a responsible manner so as to boost export of sea food from the country and also to increase per capita fish protein intake of the masses,
- to ensure socio-economic security of the artisanal fishermen whose livelihood solely depends on this vocation.
- to ensure sustainable development of marine fisheries with due concern for ecological integrity and biodiversity.

MAIN FEATURES OF THE COMPREHENSIVE MARINE FISHING POLICY (CMFP)

- Harmonized development of coastal and deep sea sectors
- Ensure sustainable development of marine fisheries
- ✓ Lay down norms for making EEZ a limited access fishery
- Evolve procedures for monitoring and control of fishing operations
- Sensitizing the stake holders about the need for Code of Conduct for Responsible Fisheries (CCRF)
- To curb Illegal, Unregulated and Unreported (IUU) fishing
- To manage fishing capacity to prevent over capitalization in the sector and over exploitation of resources
- ✓ To be responsive to regional and international regimes in Marine Fisheries Conservations and Management.
- ✓ Address the requirements of ancillary and Complementary activities such as post harvest care, marketing etc.

Large Marine Ecosystems (LMEs)

 Regions of ocean space encompassing coastal areas from river basins and estuaries to the seaward boundaries of continental shelves and the outer margins of the major coastal currents

 Relatively larger regions of the order of 200,000 sq km or more

Large Marine Ecosystems (LMEs)

- Characterized by distinct:
 - Bathymetry
 - Hydrography
 - Productivity
 - Trophically dependent populations

LMEs:

Globally there are 64 identified LMEs

Produce 95% of the world's annual marine fishery biomass yields

Bay of Bengal (BOB):

One of the world's 64 LMEs

Bounded by 8 countries viz. Bangladesh,
 India, Indonesia, Malaysia, Maldives,
 Myanmar, Sri Lanka & Thailand

Southern part merges into the Indian
 Ocean

Bay of Bengal (BOB):

 About 20% of world's population resides in the littoral countries of BOB

 Approximately 400 million living in the Bay's catchment area

Project Overview

- Structured into five inter-linking components:
- Strategic Action Programme, including Trans-boundary issues.
- Coastal/marine national resources management and sustainable use.
- Improved understanding and predictability of the ecosystem.
- Maintenance of ecosystem, health and management of pollution.
- Project management.

India's interests

- Development of Regional Fishery
 Management Plan for Shark.
- Development of Sub-regional Fishery Management Plan for Indian Mackerel.
- Development of Sub-regional Fishery Management Plan for Hilsa & other migratory species.

Project Outcome

- a finalized trans-boundary diagnostic analysis,
- agreed strategic action programme,
- institutional arrangements to support the continued development,
- improved well being of rural fisher communities,
- establishment and monitoring of basic health indicators in the BOBLME area,
- capacity building to manage the resources, etc

Commitments:

- India earlier agreed for total contribution of:
 - US \$ 600,000 in cash
 - US \$ 430,000 in kind
 - For 6 years period
- Later the project cost was scaled down and the project duration was reduced to 5 years
- Contribution to the revised project now would be
 - US \$ 55,000/- p. a. in cash for a period of 5 years
 - US \$ 87,500/- p. a. in kind contribution of about

Cash Contribution

- Cash contribution would cover:
 - cost of full time contracted National Technical Advisor / National Technical Assistant and Secretary, pro-rata proportion of the salary of the National Coordinator, associated communication and facilities, project related workshops, etc.

In kind Contributions

- In kind contribution would cover:
 - expenses of the National counterparts, the project Steering Committee Members, National Task Force Members, staff and consultants and pro-rata cost of office space of National Coordinator, National Technical Advisor, etc.

Progress so far

Project Document was signed on 22nd
 January, 2009

FAO was provided with the signature page

 Joint Secretary (Fisheries) was designated as focal point for implementation of BOBLME Project.

Progress so far

 An amount of Rs. 2.500 million has been provided for the BOBLME project in the budget during 2009-10.

The inception workshop was held in Colombo, Sri Lanka along with the APFIC Regional Workshop on Ecosystem Approach in Fisheries & Aquaculture during 18-22 May, 2009.

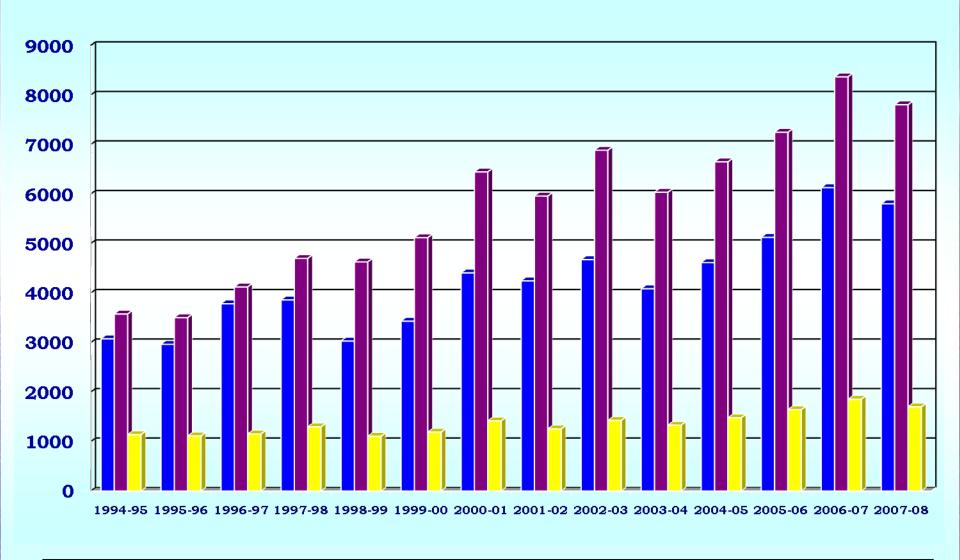
Progress so far

 India's representative attended the meeting, where working arrangements for the project were further discussed.

 Nominations of the Indian representatives for the Project Steering Committee and National task force etc. is under process.



Export Growth of Fish Products



■ Qty '00 mt

■ Value Rs. Crores

Value US \$ Million

Marine Capture Fisheries

Sustainable production

Present annual production 2.91 m t Projected production, 2011-12 3.00 m t

Strategy

- Regulated fishing and capacity management in mechanized sector.
- **Solution** Conservation, sea ranching, FAD's
- Diversified fishing in Deep sea & Oceanic resources

Major Trading Partners

Market Share(%)

European Union: 34

Japan : 16

USA : 16

China: 14

10/Nov/2009 36

INDIAN FISHERIES

Present fish Production	7.13 mmt
Inland	4.22 mmt
Marine	2.91 mmt
Primary sale value	~ Rs. 42,000 crore (US \$ 9 bn)
Fish seed production	31,688 million fry
Hatcheries	1,070
FFDA	422
BFDA	39
Export 10/Nov/2009	Rs. 8,000 crore

India: Fish Production – Growth (MT)



Indian Fish Facts

- № 4.7% of global production
- ≥ 1.07% of GDP
 - №5.34% of Agriculture GDP
- № 2.5% of global trade
- № 18% of National Agricultural Exports