



GOVERNMENT OF ODISHA

# ANNUAL ACTIVITY REPORT

## 2015 – 2016



**Fisheries & Animal Resources Development Department**



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# FISHERIES SECTOR



**2015-16**



## INTRODUCTION:

Odisha is one of the important Maritime States of India having excellent scope for fisheries development. The plan, programme and policies of fisheries sector are carried out through the Directorate of Fisheries, Odisha, which was created during 1956. The State has enormous water resources in Freshwater, Brackishwater as well as in Marine fisheries sectors that have excellent scope and potentiality for development together with employment and income generation for overall socioeconomic prosperity and livelihood. The development of freshwater aquaculture is the main target area for enhancement of production.

The State has 6.79 lakh ha. of freshwater resources, 4.18 lakh ha. of Brackishwater resources and 480 kms. of coastline for fisheries development of the State. In order to ameliorate these ample resources, Government have taken up a mission for doubling of inland fish production and tripling the present level of export. The total fish production of the State during 2015-16 is 4.69 lakh MTs and export generation is around Rs.2069.17 crores, which is an all time record. Accordingly, the Department proposes to take up massive horizontal expansion of culture areas and to enhance productivity to 5.00 tonnes/ha. To add, around 80% of state population is fish eaters. The annual per capita fish consumption is 11.06 kg. To achieve this ambitious goal, recently Government of Odisha have come up with 'Odisha Fisheries Policy, 2015 during September, 2015.

The Fisheries Sector is a growing sector and has been recognized by the State Government as one of the major sectors, apart from agriculture, to contribute towards rural economy. With vast and variety of aquatic resources in Odisha, the fisheries of Freshwater, Marine and Brackishwater offer enormous scope in generating employment and promoting trade and many other associated commercial activities. The food security and livelihood support from fisheries for the rural poor is one of the major benefits. In order to enhance fish production in the State, impetus is given on the following activities:

1. Stocking of quality fish seed in all water bodies and to educate fish farmers on modern techniques of stocking of fingerlings/ yearlings,
2. To encourage expansion of water area with additional top-up subsidy and interest subventions on Bank loans,
3. To educate fish farmers on the use of formulated fish feed to get better production,
4. Empowering fishermen on weather warning, security, fish production etc. through Mobile Advisory Services by distributing free SIM cards to fishermen and fish farmers of the state during 12<sup>th</sup> Plan Period.
5. To lease out feasible Government lands for Brackishwater development,
6. Socio-economic development of fishermen through various welfare schemes being implemented in the State,
7. Stocking of quality fingerlings in reservoirs of Odisha under financial assistances from NFDB and ST&SC Development Department and introduction of Cage Culture for enhancing fish production of the Reservoirs.



## FISHERIES RESOURCES & POTENTIAL IN ODISHA

### FRESHWATER FISHERIES SECTOR:

<b>Resources &amp; Potentiality of Freshwater Aquaculture</b>			
<b>Resources</b>	<b>Water area (in lakh ha.)</b>	<b>Total production potentiality (in lakh MT)</b>	<b>Present production level (2014-15) (in lakh MT)</b>
Culture Fisheries (Tanks & Ponds)	1.28	3.85	2.62
Culture based capture fisheries (Reservoirs)	2.00	0.20	0.21
Capture fisheries (Lakes/ swamps/ bheels)	1.80	0.36	0.03
Rivers & canals	1.71	0.14	0.14
<b>TOTAL</b>	<b>6.79</b>	<b>4.55</b>	<b>3.00</b>

### BRACKISHWATER FISHERIES SECTOR:

<b>Resources</b>	<b>Water Area (Lakh ha.)</b>	<b>Total Production Potentiality (Lakh MT)</b>	<b>Present production level (2014-15) (in lakh MT)</b>
Area suitable for brackishwater tanks	0.330	0.33	0.19
Back Waters	0.081	0.02	-
Lakes (Chilika)	0.790	0.11	0.12
Estuaries	2.980	0.24	0.04
<b>TOTAL</b>	<b>4.181</b>	<b>0.70</b>	<b>0.35</b>

### MARINE SECTOR:

Coast Line	480 Kms.
Continental Shelf Area	24,000 Sq. Km. (approx)
<b>District-wise Coastal Length (in Kms.)</b>	
Balasore	80
Bhadrak	50
Kendrapada	68
Jagatsinghpur	67
Puri	155
Ganjam	60
<b>Total Coastal Length</b>	<b>480</b>



<b>Maximum Sustainable Yield (MSY) (Continental Shelf Area)</b>	
<b>SPECIES</b>	<b>MSY (MT)</b>
Prawn	9,036.00
Pomfret	9,602.00
Hilsa	9,319.00
Polynemids	4,749.00
Clupeids	7,421.00
Sciaenides	34,857.00
Catfishes	10,276.00
Elasmobranches	12,839.00
Others	12,839.00
<b>TOTAL</b>	<b>1,10,938.00</b>

<b>OTHER FISHERIES RESOURCES</b>		
<b>FISH SEED HATCHERY:</b>	<b>Unit</b>	
<b>Freshwater :</b>	<b>No.</b>	<b>Fry Capacity (in million)</b>
Government (R&D)	05	489.00
Government hatchery	20	121.70
Government rearing farm	89	
OPDC	05	210.00
Private	86	520.00
<b>Freshwater prawn seed hatchery</b>		
Government	03	80
Private	07	125
<b>SHRIMPSEED HATCHERY</b>		
<b>Brackishwater:</b>	<b>No.</b>	<b>Capacity (in million)</b>
Government	2	75
Private	12	292.5
<b>ICE PLANT AND COLD STORAGE</b>	<b>No.</b>	<b>Capacity (in MT)</b>
Ice Plant	57	613.5
Cold Storage	12	67



<b>MARINE FISH LANDING CENTRE</b>		
1. Harbour	4	
2. Jetty	25	
3. Other Landing Centre	43	
<b>Total</b>	<b>72</b>	
5. Fish Drying Platform	10	3269
<b>CRAFTS (Marine) 2012-13: (In Nos.)</b>		
<b>A. Mechanized</b>	1754	
<b>B. Motorized</b>	7408	
<b>C. Country Crafts ( Non-Motorized)</b>	10913	
<b>TOTAL</b>	<b>20,075</b>	
<b>Total Marine Fishermen families</b>	<b>114238</b>	<b>As per CMFRI Survey-2011</b>
<b>Total Marine Fishermen Population</b>	<b>605514</b>	
<b>Total Inland Fishermen Population</b>	<b>898134</b>	
<b>(I) MARINE PRODUCTS EXPORT DEVELOPMENT AGENCY 2013-14: (Registered under MPEDA)</b>	<b>(Nos.)</b>	<b>Capacity (in MT)</b>
1. Seafood Exporters from Odisha	34	
2. Processing Plants	20	459.50
3. Storage Premises	21	
4. Peeling Sheds	20	215.82
5. Ice Plants	2	58.00





Hon'ble Chief Minister S.J. Naveen Patnaik addressing workshop on 'opportunities for development of Fisheries Sector in Odisha at Jayadev Bhawan on 10<sup>th</sup> June, 2015



FISHFED Conference Hall inaugurated by Hon'ble Minister, Fisheries & ARD



State Officers with WorldFish Team during visit to Bangladesh



# ORGANOGRAM

## FISHERIES DEPARTMENT

**DIRECTOR**

**ADDL. DIRECTOR (2)**

**JOINT DIRECTOR (3)**

**HEADQUARTER  
ADMINISTRATION**

**ZONAL ADMINISTRATION**

### DY. DIRECTORS

- ▶ Plan
- ▶ Inland Extension
- ▶ Reservoir
- ▶ Training
- ▶ Brackish Water
- ▶ Marine
- ▶ DRCS
- ▶ Asst. Ex. Engr. FED, Ctc
- ▶ Ex. Engr. FED, BBSR

### OTHER OFFICERS

- ▶ A.D., Statistics- 1
- ▶ Production Officer- 1
- ▶ Store Officer- 1
- ▶ Accounts Officer - 01
- ▶ Addl. F.O.-5
- ▶ Estt. Officer - 2
- ▶ A.F.O. - 9
- ▶ Jr. Planning Officer - 1
- ▶ Asst. Engr. (Mech) - 1
- ▶ Statistical Officer-1
- ▶ Coordination Officer - 1
- ▶ Section Officer - 11

### DY. DIRECTORS (18)

- ▶ Cuttack, Puri
- ▶ Keonjhar, Balasore
- ▶ Ganjam, Bolangir
- ▶ Kalahandi, Koraput
- ▶ Angul, Sambalpur
- ▶ P.D., Chandrabhaga
- ▶ Principal, FTI
- ▶ Directorate - 6

### ZONAL ADMINISTRATION (DDF OFFICE)

- ▶ Asst. Engineer (Civil)
- ▶ A.R.C.S. (Fy)-3
- ▶ S.A.R.C.S. -
- ▶ Addl. FO - 10

### DISTRICT ADMINISTRATION

- ▶ DFO - 30
- ▶ Deputation res. - 04
- ▶ DFO(B&T) - 01
- ▶ Principal, BWTC - 01
- ▶ Project Imp. Officer - 2
- ▶ DFO, Kausalyagang - 01

### DISTRICT ADMINISTRATION

- ▶ Addl. FO- 42
- ▶ Jr. Engr. (C) - 28
- ▶ AFO - 498
- ▶ ICS- 29
- ▶ SFTA-127
- ▶ JFTA-318

Ten Zones have already started functioning in the State.



## **OBJECTIVES:**

- To double fish production of the State in the coming five years,
- Tripling export of marine, brackish & freshwater fin and shellfishes & other aquatic species from Odisha within five years,
- Generating employment & higher income in fisheries sector,
- Improving socio-economic conditions of traditional fisher folk & fish farmers,
- To acquire self-sufficiency in Inland Sector,
- Conservation of aquatic resources & generic diversity.

## **MANDATE:**

- Optimum utilization of Inland Water Resources for pisciculture,
- Maximizing utilization of Brackishwater Resources,
- Harnessing marine resources in greater proportion keeping in mind the environmental issues
- Adapting scientific technology for enhancing productivity with greater emphasis to private entrepreneurs
- Improving professionalism through training/counseling of major stakeholders involved in fisheries sector
- Forming cooperative's and S.H.G.s for community participation and expanding market potentials,
- Dissemination of new technologies through its extension machinery,
- Providing livelihood support to unemployed youths through Self Employment Programme (SEP).

## **ONGOING GOVERNMENT OF INDIA SCHEMES & PROGRAMMES:**

The following Government of India schemes and programmes are being operated in the State under Fisheries Department:

### **Centrally Sponsored Plan Schemes:**

- Development of Inland Fisheries & Aquaculture through FFDA (75:25)
- Welfare Schemes for Fishermen: (50:50)
  - ✓ Development of Model Fishermen Villages (*Construction of low cost houses*)
  - ✓ Saving-cum-relief
  - ✓ Group Accident Insurance for Active Fishermen,
  - ✓ Training & Extension.
- Development of Marine Fisheries, Infrastructures & Post-Harvest Operations:
  - ✓ Motorization of Traditional Crafts (50:50)
  - ✓ Safety of fishermen at sea (50:50)
  - ✓ Fishermen Development Rebate on HSD Oil (67:33)
  - ✓ Establishment of FH & FLCs
  - ✓ Development of Fishing Harbours, Fish Landing Centres & Jetties (75:25)



**Central Plan:**

- Strengthening of Database & Geographical Information System (GIS) of the Fisheries Sector

**State Plan:**

- RIDF – Rural Infrastructure Development Fund
- NFDB – National Fisheries Development Board

**Others:**

1. MGNREGS–Mahatma Gandhi National Rural Employment Generation Scheme,
2. RKVY- RastryaKrishiVikasYojana
  - i) NMPS – National Mission for Protein Supplement
    - Intensive Aquaculture in tanks and ponds
    - Reservoir Development through Cage culture
  - ii) MCC – Matsya Credit Card
3. MUY–MatshyajibiUnnayanYojana:  
(Containing 14 sub components)

*(Rs. in lakh)*

**PLAN BUDGET**  
**PROVISION, SANCTION AND EXPENDITURE**

Year	State Plan			Central Plan			Central Sponsored Plan		
	Prov.	Sanc.	Expr.	Prov.	Sanc.	Expr.	Prov.	Sanc.	Expr.
2011-12	2958.00	1474.56	1469.83	602.92	0.00	-	2926.91	1165.20	1165.20
2012-13	3367.44	1043.27	1043.27	120.28	0.00	-	4221.89	668.34	668.34
2013-14	5711.92	5683.45	5673.99	200.05	0.00	-	3223.18	1865.61	1865.61
2014-15	5682.31	5612.29	5612.29	85.29	0.00	-	3800.04	1819.61	1819.61
2015-16	7350.00	7043.42	7043.42	73.40	20.00	20.00	3319.89	1124.22	1124.22

**NON-PLAN BUDGET**

YEAR	PROVISION	EXPENDITURE
2010-11	4162	3931
2011-12	3819	3703
2012-13	4675	4341
2013-14	4402	4226
2014-15	4823.38	4616.49
2015-16	5345.53	5235.90



## ACTIVITIES OF 2015-16

### 1. **Odisha Fisheries Policy, 2015:**

Government of Odisha have come up with the '**Odisha Fisheries Policy, 2015**', vide Gazette notification No. 1282, 2<sup>nd</sup> September, 2015. The Policy intends to be a pioneer in aquaculture Development and fisheries extension for ensuring food security, livelihood, welfare of fishers and employment generation.

The Policy aims to address sustainable utilization, protection/ promotion of nutritional security, livelihood security of fisher community, gaps in the legal and regulatory framework and their enforcement, gaps in the administrative structure and processes, financing mechanisms including subsidies, technology and extension support etc. as well as social and environmental implications. The highlights of the said Policy is as under:

- **REALISTIC RESOURCE ASSESSMENT:** For sustainable management of capture and culture fisheries, a detailed survey using Remote Sensing and Geographic Information System (GIS) for monitoring of plan & programs in fishery sector shall be undertaken.
- **CAPTURE FISHERIES:** Appropriate measures for developing, propagating, conserving and protecting riverine and other open water fisheries.
- **CULTURE BASED FISHERIES IN LAKES/ RESERVOIRS:** Regular stock enhancement in reservoirs with basic infrastructure facilities of captive hatcheries, nurseries, fry/ advance fingerling raising centers, fish landing and handling sheds ice plants/ Cage/ Pen culture programs shall be taken up for enhancing the reservoir fish productivity and production. 25% of reservoirs under the control of fisheries Department could be considered for leasing to private entrepreneurs for commercial pisciculture.
- **AQUACULTURE IN TANKS & PONDS:** Best practices being followed in the neighboring states of West Bengal, Andhra etc. shall be adopted for increasing the fish production. Government shall provide long term lease of the waterlogged areas/dead rivers to farmers/ entrepreneurs for aquaculture with incentives.
- **FISH SEED PRODUCTION:** The Government will augment the existing capacity of the fish seed hatcheries in private sector to meet the widening gap between the demand and supply of fish fingerlings/ yearlings.
- **ORNAMENTAL FISH CULTURE:** Freshwater ornamental fish breeding and rearing in backyard hatcheries will be popularized as a cottage industry, among the rural community and SHGs.
- **SUSTAINABLE COASTAL AQUACULTURE:** Development of coastal aquaculture clusters with basic infrastructure such as inlet and outlet channels, road connectivity, electricity, ice plants, cold storages, etc., in PPP mode will be encouraged and promoted, where the private entrepreneurs and small-scale aquaculturists can co-exist.



- **MARINE FISHERIES:** The guidelines and provisions of the Comprehensive Marine Fisheries Policy (2004) of the Government of India, which advocates protection and conservation of the resources, encouragement to subsistence level fishermen and technology transfer to small-scale sector, infrastructure support to industrial sector, ecosystem based fisheries management, etc., shall be adopted in letter and spirit.
- **DEEP SEA FISHING:** Deep sea fishing shall be promoted with incentives to marine fishermen and entrepreneurs, wherever necessary.
- **POST-HARVEST INFRASTRUCTURE SUPPORT & MARKETING:** Development of Post-harvest Infrastructure Support & Marketing shall be encouraged, both in inland and marine fisheries sector through suitable scheme/ projects.
- **FISHING HARBOURS & FISH LANDING CENTRES:** Efforts shall be made towards modernization of all fishing harbours/Jetties/ fish landing centres along the Odisha coast with ongoing / new scheme through PPP mode.
- **FISH MARKETING & TRADE:** Odisha Pisciculture Development Corporation (OPDC)/ FISHFED will be strengthened to cater to the needs for fish preservation, transportation, distribution & marketing.
- **SAFETY OF FISHERMEN AT SEA AND WELFARE OF FISHERMEN:** Efforts will be made to provide safety & welfare to the fisher community through various ongoing & new schemes.
- **CAPACITY BUILDING AND OTHER SUPPORT FOR IMPLEMENTING THE POLICY:** Capacity building of fisher/ extension personnel will be taken up through adequate training and exposure visit to successful sites within & outside the country. Consultants for different activities will be engaged for providing expertise, technology, capacity building and preparation of DPRs etc.
- **SUPPLEMENTARY NUTRITION:** A farmer-friendly policy under the broad name 'social fishery' will be initiated where farmers will grow these species of small fish along with other traditional carps without substantial investment for their economic as well as nutritional benefits.
- **INFORMATION, EDUCATION & CAPACITY BUILDING (IEC) & AWARENESS:** Comprehensive training, exposure visits, refresher courses, extension services, advisory and awareness programs will be promoted and implemented so as to build human resource capacity and to increase levels of knowledge, skill and expertise amongst the State fisheries officials, rural masses, fishers and in the public and private sectors, at district and village levels.
- **ENTREPRENEURSHIP DEVELOPMENT & SELF EMPLOYMENT:** Government will play a catalytic role in self-employment through developing private entrepreneurship in fisheries through various ongoing & new schemes
- **FISCAL INCENTIVES:** Declaration of aquaculture at par with agriculture for enabling easy credit flow/institutional finance, lower power tariffs, tax, excise/customs duty concessions/ waiver/ exemptions and water supply, will be considered in consultation with the authorities concerned. Necessary incentives and tax holidays will be provided to large-scale fish farmers who produce 10 tonnes/ha or more of fish.



- **PLANNING & GOVERNANCE:** There will be coherence between the policies within and outside the fisheries sector to ensure that all policies and schemes are in harmony with fisheries management objectives.
- **FISHERY CO-OPERATIVES:** Steps will be taken to strengthen the human resource base and improve the financial base of the existing Fisheries Co-operative Societies from Primary to apex level and to revive/ revitalize the ailing Marine PFCS/ PMFCS & Fisheries Federation (FISHFED). The activities of the apex cooperative federation will be re-oriented and re-structured.
- **ORGANIZATIONAL ASPECTS:** Fisheries Department will be strengthened with requisite technical and engineering personnel for smooth and successful implementation of fisheries programs and activities. Statistical wing in fisheries will be strengthened by developing proper data collection.
- **LEGAL FRAMEWORK:** The provisions of OMFRA shall be strictly enforced and a stringent fishery management system put in place. Odisha Inland Fisheries Act & Fish seed & hatchery certification will be framed on the lines of the Model Inland Fisheries & Aquaculture Act of the Ministry of Agriculture and that of other relevant States and notified, and the Rules there-under framed and implemented.
- **FUNDING:** Odisha Government will make extensive efforts to provide adequate funding to the fisheries sector through State and Central Plan schemes, as well as from external sources.



*Harvesting of fish from the tanks of Jaya Behera, Village- Angu, Purusottampur Block of Ganjam District*



*A birds eye view of paradeep fishing harbor in Jagatsinghpur District*



## 2. FRESHWATER AQUACULTURE

### Water Area Development:

Interested farmers irrespective of their economic status are supported with technical and logistic support for promotion of inland fisheries in the state through various schemes under Fish Farmers Development Agency (FFDA), National Fisheries Development Board (NFDB) and RashtriyaKrishiVikasYojana (RKVY) and Brackish Water Fisheries Development Agencies with an aim to augment fish production in the State. Financial assistance to farmer is provided under bank finance and projects developed under own source. For promotion of sustainable intensive aquaculture and establishment of fish seed hatcheries assistance up to 50% of the project cost is provided, besides interest subvention on short term and long term credit support is also provided.

Fish Farmers Development Agency (FFDAs) are set up in all the thirty districts of Odisha. Beneficiaries, irrespective of their economic status are being given technical and logistic supports through them for promotion of pisciculture in inland areas. The FFDAs assist in access to Institutional Finance for excavation of new ponds as well as renovation of existing ponds. The main aim of the FFDAs is to augment fish production of the State. The FFDAs also provide subsidy assistance to fish farmers under Bank Finance as well as under own source development. During 2015-16 (as on date) total 752.91 hectares of tank area have been developed. Apart from this tank development programme is taken up under assistance from NFDB and NMPS.



*Shri Laxmi Narayan Panda a progressive farmer of Jayapatna, Kalahandi has been awarded in World Fisheries Day on 21.11.2015 in New Delhi*



**Water Area Development Under Different Schemes During 2014-15**

Sl. No.	District	No. of Blocks	FFDA		NMPS		NFDB		TOTAL		% of ach.
			Target	Ach	Target	Ach	Target	Ach	Target	Ach	
1	Mayurbhanj	26	40	30.50	20	23.86	2		62	54.36	87.68
2	Nayagarh	8	35	25.66	5	18.80	2		42	44.46	105.86
3	Khurda	10	40	35.75	10	38.30	3		53	74.05	139.72
4	Bhadrak	7	60	70.50	20	21.30	3		83	91.80	110.60
5	Balasore	12	80	127.60	20	21.81	3		103	149.41	145.06
6	Kendrapara	9	40	45.08	15	12.52	2	0.78	57	58.38	102.42
7	Cuttack	14	40	43.25	8	10.92	2		50	54.17	108.34
8	Puri	11	60	58.23	10	21.25	2		72	79.48	110.39
9	Jagatsinghpur	8	50	56.17	10	7.04	2		62	63.21	101.95
10	Jajpur	10	50	45.03	5	26.97	2		57	72	126.32
	<b>Total (CZ)</b>	<b>115</b>	<b>495</b>	<b>537.77</b>	<b>123</b>	<b>202.77</b>	<b>23</b>	<b>0.78</b>	<b>641</b>	<b>741.32</b>	<b>115.65</b>
11	Kalahandi	13	40	21.51	20	66.60	1		61	88.11	144.44
12	Kandhamal	12	5	4.32	0	0	1		6	4.32	72.00
13	Gajapati	7	20	17.10	2	14.05	1		23	31.15	135.43
14	Boudh	3	30	12.70	4	8.00	1		35	20.70	59.14
15	Nuapada	5	20	13.38	3	5.00	1		24	18.38	76.58
16	Nawarangpur	10	15	26.00	3	2.50	1		19	28.50	150.00
17	Koraput	14	15	18.79	5	7.10	1		21	25.89	123.29
18	Rayagada	11	40	20.49	100	54.95	50	11.00	190	86.44	45.49
19	Ganjam	22	40	40.62	10	23.50	50	55.00	100	119.12	119.12
20	Malkangiri	7	40	87.40	10	27.50	0		50	114.9	229.80
	<b>Total (SZ)</b>	<b>104</b>	<b>265</b>	<b>262.31</b>	<b>157</b>	<b>209.20</b>	<b>107</b>	<b>66.00</b>	<b>529</b>	<b>537.51</b>	<b>101.61</b>
21	Jharsuguda	5	30	30.00	5	16.60	2		37	46.60	125.95
22	Keonjhar	13	20	19.18	5	8.00	2		27	27.18	100.67
23	Angul	8	30	23.02	5	0	2		37	23.02	62.22
24	Bargarh	12	30	51.49	10	9.20	2		42	60.69	144.50



Sl. No.	District	No. of Blocks	FFDA		NMPS		NFDB		TOTAL		% of ach.
			Target	Ach	Target	Ach	Target	Ach	Target	Ach	
25	Bolangir	14	30	21.50	20	42.10	2		52	63.60	122.31
26	Sundargarh	17	25	23.46	5	9.85	2		32	33.31	104.09
27	Deogarh	3	20	12.11	5	1.00	2		27	13.11	48.56
28	Dhenkanal	8	20	19.93	5	4.67	2		27	24.60	91.11
29	Sonepur	6	15	9.86	5	5.2	2		22	15.06	68.45
30	Sambalpur	9	20	24.65	5	9.20	2		27	33.85	125.37
	<b>Total (NZ)</b>	<b>95</b>	<b>240</b>	<b>235.20</b>	<b>70</b>	<b>105.82</b>	<b>20</b>	<b>0.90</b>	<b>330</b>	<b>341.92</b>	<b>103.61</b>
	<b>Grand total</b>	<b>314</b>	<b>1000</b>	<b>1035.28</b>	<b>350.00</b>	<b>517.79</b>	<b>150.00</b>	<b>67.68</b>	<b>1500.00</b>	<b>1620.75</b>	<b>108.05</b>

#### POND DEVELOPMENT PROGRAMME UNDER FFDA / NMPS/ NFDB during 2015-16

During the year 2015-16, a target of 2650.00 ha. water spread areas (FFDA, NMPS, NFDB) has been fixed for development, against which 752.91 ha. has been achieved till date.

Sl. No.	District	No. of Blocks	FFDA		NMPS		NFDB		TOTAL		% of Ach.
			Target	Ach.	Target	Ach.	Target	Ach.	Target	Ach.	
1	Cuttack	14	50	17.42	8	3.96	2	0	60	21.38	35.63
2	Jagatsinghpur	8	75	19.25	10	0	2	0	87	19.25	22.13
3	Kendrapara	9	75	25.38	15	0	2	0	92	25.38	27.59
4	Jajpur	10	50	6.08	5	0	2	0	57	6.08	10.67
	<b>Cuttack Zone</b>	<b>41</b>	<b>250</b>	<b>68.13</b>	<b>38</b>	<b>3.96</b>	<b>8</b>	<b>0</b>	<b>296</b>	<b>72.09</b>	<b>24.35</b>
5	Puri	11	200	64.56	30	7.65	2	0	232	72.21	31.13
6	Nayagarh	8	50	3.7	10	4.4	2	0	62	8.1	13.06
7	Khurda	10	70	5.19	10	11	3	0	83	16.19	19.51
	<b>Puri Zone</b>	<b>29</b>	<b>320</b>	<b>73.45</b>	<b>50</b>	<b>23.05</b>	<b>7</b>	<b>0</b>	<b>377</b>	<b>96.5</b>	<b>25.6</b>
8	Balasore	12	200	89.59	30	18.64	3	0	233	108.23	46.45
9	Bhadrak	7	150	32.06	30	11.86	3	0	183	43.92	24
10	Mayurbhanj	26	80	23.44	50	1	2	0	132	24.44	18.52
	<b>Balasore Zone</b>	<b>19</b>	<b>430</b>	<b>145.09</b>	<b>110</b>	<b>31.5</b>	<b>8</b>	<b>0</b>	<b>548</b>	<b>176.59</b>	<b>32.22</b>



Sl. No.	District	No. of Blocks	FFDA		NMPS		NFDB		TOTAL		% of Ach.
			Target	Ach.	Target	Ach.	Target	Ach.	Target	Ach.	
11	Ganjam	22	90	12.51	30	6.7	50	0	170	19.21	11.3
12	Gajapati	7	10	17.27	40	17.44	1	0	51	34.71	68.06
13	Kandhamal	12	10	0	2	0	1	0	13	0	0
<b>Ganjam Zone</b>		<b>41</b>	<b>110</b>	<b>29.78</b>	<b>72</b>	<b>24.14</b>	<b>52</b>	<b>0</b>	<b>234</b>	<b>53.92</b>	<b>23.04</b>
14	Kalahandi	13	60	11.08	50	4	1	0	111	15.08	13.59
15	Nuapada	5	50	3.84	8	4.2	1	0	59	8.04	13.63
16	Rayagada	11	100	0.64	60	70.4	50	0	210	71.04	33.83
<b>Kalahandi Zone</b>		<b>29</b>	<b>210</b>	<b>15.56</b>	<b>118</b>	<b>78.6</b>	<b>52</b>	<b>0</b>	<b>380</b>	<b>94.16</b>	<b>24.78</b>
17	Koraput	14	50	10	5	2	1	0	56	12	21.43
18	Nawarangpur	10	50	27.43	3	0	1	0	54	27.43	50.8
19	Malkangiri	7	50	39.2	10	15.6	0	0	60	54.8	91.33
<b>Koraput Zone</b>		<b>31</b>	<b>150</b>	<b>76.63</b>	<b>18</b>	<b>17.6</b>	<b>2</b>	<b>0</b>	<b>170</b>	<b>94.23</b>	<b>55.43</b>
20	Keonjhar	50	50	9.5	5	0	2	0	57	9.5	16.67
21	Sundargarh	17	50	19.21	5	3	2	0	57	22.21	38.96
<b>Keonjhar Zone</b>		<b>67</b>	<b>100</b>	<b>28.71</b>	<b>10</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>114</b>	<b>31.71</b>	<b>27.82</b>
22	Angul	8	50	16.55	5	0	2	0	57	16.55	29.04
23	Deogarh	3	50	5.2	5	0	2	0	57	5.2	9.123
24	Dhenkanal	8	50	19.08	5	3.23	2	0	57	22.31	39.14
<b>Angul Zone</b>		<b>19</b>	<b>150</b>	<b>40.83</b>	<b>15</b>	<b>3.23</b>	<b>6</b>	<b>0</b>	<b>171</b>	<b>44.06</b>	<b>25.77</b>
25	Sambalpur	9	50	6.75	5	2.6	2	0	57	9.35	16.4
26	Jharsuguda	5	50	6.5	5	3.2	2	0	57	9.7	17.02
27	Bargarh	12	50	16.66	8	13.2	2	0	60	29.86	49.77
<b>Sambalpur Zone</b>		<b>26</b>	<b>150</b>	<b>29.91</b>	<b>18</b>	<b>19</b>	<b>6</b>	<b>0</b>	<b>174</b>	<b>48.91</b>	<b>28.11</b>
28	Bolangir	14	50	15.95	36	10.75	2	0	88	26.7	30.34
29	Sonepur	6	50	5.3	5	1	2	0	57	6.3	11.05
30	Boudh	3	30	3.74	10	4	1	0	41	7.74	18.88
<b>Bolangir Zone</b>		<b>23</b>	<b>130</b>	<b>24.99</b>	<b>51</b>	<b>15.75</b>	<b>5</b>	<b>0</b>	<b>186</b>	<b>40.74</b>	<b>21.9</b>
<b>GRAND TOTAL</b>		<b>314</b>	<b>2000</b>	<b>533.08</b>	<b>500</b>	<b>219.83</b>	<b>150</b>	<b>0</b>	<b>2650</b>	<b>752.91</b>	<b>28.41</b>



#### **b) Development of Water Logged Areas:**

The scheme is designed for bringing barren waterlogged areas into the folds of pisciculture helping sustainable utilization of land, increase fish production of the state and create ample scope for employment generation opportunities for unemployed youths as well as economic up-liftment of the rural poor. The FFDA's arrange bank finance for development of waterlogged areas and provide subsidy as per Government of India norms/ guidelines. During 2015-16, around 10.00 ha have been renovated and developed for pisciculture.

#### **c) National Fisheries Development Board (NFDB):**

Enormous potentials exist in the state to augment fish production from different resources, which spread across the length and breadth of the state. With concerted efforts to mobilize farmers for adopting fish farming, application of appropriate technologies for sustainable fish farming and fish seed production and availability of Institutional Finance, National Fisheries Development Board (NFDB) was set up in the country under the Ministry of Agriculture for development of Fisheries in the country. Subsidy is provided to farmers under various categories. With NFDB assistance, 67.88 ha. water area have been developed under both Bank finance and without bank finance during 2014-15.

#### **d) National Mission for Protein Supplement (NMPS):**

It is a sub component of RKVY, under which development and expansion of water areas are being taken up. under NMPS, 517.79 ha. of water areas have been developed with both Bank Finance and without Bank finance during 2014-15. During 2015-16, 219.83 ha. have been developed as on January, 2016.

#### **Aquaculture development through integrated approach in Rayagada District, Odisha under NMPS 2014-15**

The main objectives of the project proposal is availability of critical inputs like - Fish Fingerlings/ Yearlings, Formulated Fish Feed, Lime, Fertilizers, Chemicals etc. locally and at a reasonable price to the aquaculture entrepreneurs at the cluster site. Augmentation of fish production from the present level of 2.00 MT per ha. per Annum to the desirable level of 5 Mt/ha/annum and cater to the growing demands of fish of the district and the State as a whole. Making available cheap pellet fish feed to fish farmers of the Cluster and set a role model for the other entrepreneurs of the district to demonstrate vertical expansion through enhancement of productivity and production. Development of post-harvest infrastructure facilities like flake ice plant, cold storage, refrigerated truck and Hygienic Retail Out lets etc. which will help in marketing of fish and ensure higher return even in dry season through maintenance of Cold Chain for better quality and hygienic fish.



## **Rastriya Krishi Vikash Yojana (RKVY)**

Under RKVY programme many schemes have been inducted in Fisheries sector of the State. The highlights of schemes are detailed below.

### ➤ Assistance for net & boat to Inland Fishermen (Reservoir & Riverine)

The nets and boats are provided to fishermen belonging to member of PFCS for reservoir fisheries and individual cases in case of riverine fisheries to improve the fishing efficiency and eradicate the role of money lenders. The unit cost for net & boat is Rs.40,000/ with 50% subsidy maximum to Rs 20,000/-. During 2015-16, Rs204.00 lakh has been allotted towards subsidy under net & boat.

### ➤ Assistance for Fish marketing infrastructure to Inland, Marine and Chilika fishermen

In order to help fisher folk, to sell and transport harvested fish in fresh and hygienic condition from fish landing centers to marketing places the fishermen of both marine, inland and Chilika have been provided with fish marketing infrastructure like Bicycle with ice box, Motorcycle with ice box and Auto rickshaw with ice box with subsidy of Rs 2000/-, Rs 7500/- & Rs 35,000/- respectively. During 2015-16, Rs50.00 lakh has been allotted under this scheme.

### ➤ Pilot Project for Demonstration of Intensive Pisciculture in 100 Potential blocks of Odisha

The tank should be of minimum 0.40 ha and maximum 1.00 ha.size. The unit cost for one ha pond is 2.00 lakh. There will be 50% contribution of owner of the demonstration Tank on total input cost. The contribution may be from own source or institutional finance .The KVK Scientist and technical staff should be involved also in the demonstration programme. The owner of the demonstration Tank will bear 50% of the input cost i.e, Rs 1,00,000.00 per ha from his own source/ institutional finance and balance 50% of input cost of Rs 1,00,000.00 and training & awareness of Rs 30,000.00 will be met from RKVY assistance. Against the target to cover 100 ha water area in 100 nos. of potential blocks in Odisha for demonstration of intensive Pisciculture under RKVY programme during 2015-16, 115 nos. of beneficiaries have been selected as on Jan, 16. As on date Rs130.00 lakh has been allotted towards subsidy.

### ➤ Demonstration of feed based Aquaculture for Enhancing Inland Fish Production

This is applicable in all blocks of Odisha. Two tanks in 214 blocks and five tanks in 100 potential blocks will be taken for demonstration of feed based aquaculture. Assistance of Rs.10,000/- incentive will be given to Progressive fish farmers having minimum 1 acre water area in form of fish feed, lime, probiotics and medicine etc. Where ever 1 acre water area is not available, 0.50 acre water area may be taken into consideration. Against the target of 928.00 acre, 557.18 acre area has been selected as on Jan,2016. As on date Rs.95.00 lakh has been allotted towards subsidy under feed based aquaculture.



➤ Demonstration for raising of advanced fingerling under RKVY

Under this scheme, the tank should be minimum 0.20 ha (0.50 Acre) water area. The total unit cost for 0.40 ha is Rs.50,000/-, out of which subsidy @ 20% (Rs10,000/-) will be given to the farmers / SHGs and Rs.40,000/- as bank loan / own source. Against the target of 1536 acre for raising of fish fingerlings 707.42 acre area has been selected as on Jan,2016. Funds to the tune of Rs.155.00 lakh has been allotted towards subsidy under raising of fingerlings.

➤ Enhancing Inland Fish Production through Matsya Credit Card in MGNREGS tank

Under this Scheme, there is a provision of Rs.30,000/- as input cost for raising of fish fingerlings in the Multi Purpose Farm Ponds developed by farmers having 0.20ha water area under MGNREGS programme. Out of which Rs15, 000/- as loan and rest Rs.15,000/- as subsidy from RKVY under Matsya Credit Card through District Central Co-operative Bank. Against the target of 200 nos., 54 cases have been achieved during 2015-16 as on Jan, 16. An amount of Rs.21.00 lakh has been allotted towards subsidy under rising of fingerlings.

### PHYSICAL & FINANCIAL PROGRESS OF NMPS CLUSTER AT RAYAGADA DISTRICT

There are two clusters at Rayagada District under NMPS programme. One is at Ambabadi village and other at Jeera of Gudiabandha GP of Padmapur Block.

Status report on NMPS Cluster at Jeera & Ambabadi of Padmapur Block

Sl. No.	Item of Work Taken	Target	Achievement	Remarks
1	Construction of Pond	80 ha	65 ha	15 ha is under construction
2	Construction of Fish nursery	20 ha	10 ha	10 ha is under construction
3	Construction of fish seed hatchery	2 nos.	1 No. completed and production started	1 no. is under construction
4	Construction of feed mill plant	2 nos.	–	2 nos. under construction
5	Construction of ice plant & cold Storage	2 nos.	–	2 nos. under construction
6	Insulated Truck	2 nos.	2 Nos.	Completed
7	Retail Outlet	2 nos.	2 nos.	Completed



### Financial Progress of both clusters under NMPS:

Total funds received – Rs.500.00 lakh (Rs.300.00 lakh during 2013-14 and Rs.200.00 lakh during 2014-15) and utilized.

#### e) MGNREGS (Mahatma Gandhi National Rural Employment Guarantee Scheme):

Under MGNREGS funding support of Rs.1,62,500.00 to Rs.1,99,500.00 is being provided to beneficiaries for excavation of 0.50 acre of multipurpose ponds which provide 100 days employment to families with utilizing farm pond for multipurpose uses like water conservation, protective irrigation, horticulture plantation and Pisciculture etc. The ponds are constructed in the land of small and marginal farmers to enhance their livelihood. As on January, 2016, construction of 942 tanks is under progress. A total of 3079 nos. of tanks have already been completed since inception. Moreover, the beneficiaries coming under MGNREGS are provided with the facilities of Matshya Credit Cards (MCC), where the farmers get an advance of Rs. 30,000.00 for fingerling raising and horticulture activities. Rs. 15,000.00 is extended as subsidy for the purpose.

### CAPACITY BUILDING & EXPOSURE VISIT

#### Training to fish farmers

Training under different programme is imparted to the fish farmers for development of skill on scientific aquaculture, diversification of species etc. The training is imparted at Fishery Training Institute, Balugaon, Brackish Water Training Institute, Paradeep and FISCOFED training Centre at Kausalyaganga.

Training under different programme is imparted to the fish farmers for development of their skill on scientific aquaculture, diversification of species etc.

Further trainings are imparted to newly recruited 114 Assistant Fisheries Officers (AFO) and 126 Jr. Fisheries Technical Assistants (JFTA) at different Training Centres of the State for their skill development to acquire knowledge on new technologies etc.

A team of 5 Senior Officers of the Department were deputed to Bangladesh on an Exposure Visit under the aegis of 'WorldFish'. Further a team of 12 Officers of the Department along with Officers of FISHFED were on an Exposure Visit to Gandhi Sagar Reservoir of Madhya Pradesh to inculcate the fishing techniques & management of the openwater bodies by 'MATSHYAFED', Bhopal, M.P.

A group of senior officers of the Department visited Bangladesh on an exposure visit and a second group of officers of the Department went for Madhya Pradesh and studied the Reservoir Fisheries development in Gandhi Sagar under MPFED, Madhya Pradesh

The target and achievements are furnished below:

Year	NFDB		SEP		Total Achievement
	Target	Ach	Target	Ach	
2014-15	-	-	750	500	750
2015-16 (up-to Dec,15)	-	-	420	228	228



The spawn and fry production of the state in Government as well as private sector for last five years is as follows:

**SPAWN PRODUCTION IN ODISHA (In lakhs)**

<b>Year</b>	<b>Government</b>	<b>OPDC</b>	<b>Private</b>	<b>TOTAL</b>
2011-12	2315.50	7642.75	16803.00	<b>26761.25</b>
2012-13	3037.00	11735.50	13904.00	<b>28676.50</b>
2013-14	3487.00	9680.00	14704.00	<b>27871.00</b>
2014-15	3602.50	9616.25	20635.00	<b>33853.75</b>
2015-16	3588.00	8062.50	15864.00	<b>27514.50</b>

**Fry Production in Odisha (in lakhs)**

<b>Year</b>	<b>Government</b>	<b>OPDC</b>	<b>PRIVATE</b>	<b>TOTAL</b>
2011-12	994.49	1332.40	3813.86	<b>6140.75</b>
2012-13	738.85	2415.23	3865.28	<b>7019.36</b>
2013-14	1121.13	2388.27	3490.33	<b>6999.73</b>
2014-15	312.29	1172.41	4279.31	<b>5764.01</b>
2015-16	601.42	1612.309	5502.11	<b>7715.839</b>



**STATUS OF GOVT. FISH FARM AS ON 29.02.2016 IN FISHERIES DEPARTMENT**

(Area in AC.)

District	Sl. No	Name of the farm	Presently operated by	ST/BT		RT		NT		Total water area of the farm	Gross area of the farm	Remarks
				No.	Area	No.	Area	No	Area			
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>CUTTACK ZONE</b>												
Cuttack	1	Kendupatna	Pvt.Ent.	1	8.6	0	0	5	1.55	10.15	11.42	Leased out
	2	Nuapatna	FFDA	0	0	4	1	11	1.15	2.15	3.5	Under culture FFDA
	3	Narasinghpur	Leasee	3	2.74	0	0	4	0.96	3.7	8.04	Leased out
	4	Dry Dock	Defunct								5.72	Transferred by Revenue Deptt. to SCB Medical Public School
Jagatsinghpur	5	Alaka,	OPDC	3	3	0	0	4	0.1	3.1	5	Under culture
	6	Alipingal	OPDC	0	0	0	0	8	2.76	2.76	3.89	Under culture
	7	Arakhapari	FFDA	0	0	0	0	3	0.5	0.5	0.6	Under culture
	8	Tritol	Laying Idle	0	0	0	0	9	1.1	1.1	2.71	Laying Idle
	9	Kulasahi	Leasee	0	0	0	0	6	0.92	0.92	1.15	Leased out
Kendrapara	10	Derabis	Defunct	0	0	2	1.25	9	1.45	2.7	6	Defunct
	11	Barimula	Defunct	0	0	12	9.6	2	0.8	10.4	13.9	Defunct
Jajpur	12	Kalakala	Laying Idle	7	10.5	1	0.55	15	3.5	14.55	20	To be leased out
	13	Dharmasala	Defunct	0	0	0	0	2	0.5	0.5	0.7	Defunct
<b>Total Cuttack Zone</b>			<b>Total</b>	<b>14</b>	<b>24.84</b>	<b>19</b>	<b>12.4</b>	<b>78</b>	<b>15.29</b>	<b>52.53</b>	<b>82.63</b>	



**STATUS OF GOVT. FISH FARM AS ON 29.02.2016 IN FISHERIES DEPARTMENT**

(Area in AC.)

District	Sl. No	Name of the farm	Presently operated by	ST/BT		RT		NT		Total water area of the farm	Gross area of the farm	Remarks
				No.	Area	No.	Area	No	Area			
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>KEONJHAR ZONE</b>												
Sundargarh	35	Sadar	OPDC	3	3.19	0	0.00	16	2.08	5.27	12.78	OPDC
	36	Bishra	Leased	0	0.00	1	0.64	10	1.05	1.69	5.39	Leased out
	37	Bonei	Leased	0	0.00	1	0.16	7	0.59	0.75	4.60	Leased
	38	Tudalaga	Leased			1	0.64	10	1.05	1.69	5.39	Leased
	39	Mandira	Defunct	1	1.50	0	0.00	9	1.01	2.51	5.50	Defunct
Keonjhar	40	Digdan Fish Farm	OPDC	1	0.50	0	0.00	12	1.30	13/1.80	5.94	OPDC
	41	Musakhori	OPDC	1	0.50	0	0.00	2	0.40	1.75	3.77	OPDC
	42	Jhumpura	Defunct	1	1.50	1	0.60	15	3.30	5.40	11.28	Defunct due to construction of canal.
	43	Telkoi	FFDA	0	0.00	2	0.84	4	0.36	1.20	1.72	FFDA
	44	Machhalo	FFDA	1	0.50	0	0.00	5	1.19	1.69	4.92	FFDA
<b>Total Keonjhar Zone</b>				<b>8</b>	<b>7.69</b>	<b>6</b>	<b>2.88</b>	<b>90</b>	<b>12.33</b>	<b>21.95</b>	<b>61.29</b>	
<b>SAMBALPUR ZONE</b>												
Sambalpur	45	Bomaloi	Deppt (RD)	10	19.00	8	3.70	30	5.63	28.33	97.61	Culture under RD
	46	Kuchinda	FFDA	0	0.00	3	0.83	5	0.74	1.57	6.25	FFDA
	47	Rairakhol	Leased	2	1.30	4	0.76	4	0.28	2.34	4.58	To be leased
	48	Sangramal	Leased	2	2.00	0	0.00	6	1.40	3.40	5.00	To be leased



STATUS OF GOVT. FISH FARM AS ON 29.02.2016 IN FISHERIES DEPARTMENT												(Area in AC.)	
District	Sl. No	Name of the farm	Presently operated by	ST/BT		RT		NT		Total water area of the farm	Gross area of the farm	Remarks	
				No.	Area	No.	Area	No	Area				
1	2	3	4	5	6	7	8	9	10	11	12	13	
	49	Sambalpur	Defunct	11	24.26	8	1.97	22	6.25	32.48	51.36	Part of Farm proposal pending for surrender to Rev. Deptt.	
	50	Burla	OPDC	1	1.80	0	0.00	50	3.59	5.39	20.89	OPDC	
Baragarh	51	Pipalmunda	OPDC	1	1.00	0	0.00	13	4.00	5.00	7.00	OPDC	
	52	Padmapur	FFDA	0	0.00	1	0.64	30	2.64	3.10	5.97	FFDA	
	53	Barpali	FFDA	0	0.00	1	0.60	10	2.40	3.00	12.06	FFDA	
Jharsuguda	54	Ekatali	Leased	0	0.00	0	0.00	10	1.50	1.50	7.72	To be leased	
	55	Baghmunda	FFDA	0	0.00	0	0.00	11	2.75	2.75	8.00	FFDA	
<b>Total Sambalpur Zone</b>				<b>27</b>	<b>49.36</b>	<b>25</b>	<b>8.50</b>	<b>191</b>	<b>31.18</b>	<b>88.86</b>	<b>226.44</b>		
<b>BOLANGIR ZONE</b>													
Boudh	56	Boudh	OPDC	3	4.90	8	2.90	14	2.20	10.00	18.540	OPDC	
Bolangir	57	Bolangir	Defunct	2	5.40	3	2.40	25	3.10	10.90	29.63	Defunct	
	58	Dhamandanga	Lessee	2	5.42	4	2.00	8	1.52	8.94	22.24	Leased out	
	59	Luisinga	Lessee	6	7.00	0	0.00	12	2.04	9.04	20.00	Leased out	
	60	Titlagarh	Defunct	0	0.00	0	0.00	10	2.67	2.67	7.60	Defunct	
	61	Patnagarh	Lessee	1	1.46	0	0.00	11	1.88	3.34	6.71	Leased out	
	62	Harishankar	Defunct	1	0.70	1	0.20	3	0.32	1.22	3.16	Defunct	
Subarnapur	63	Sonepur	Deptt(RD)	16	37.35	10	4.69	25	3.57	45.61	76.67	RD activity	
<b>Total Bolangir Zone</b>				<b>31</b>	<b>62.23</b>	<b>26</b>	<b>12.19</b>	<b>108</b>	<b>17.3</b>	<b>91.72</b>	<b>184.55</b>		



STATUS OF GOVT. FISH FARM AS ON 29.02.2016 IN FISHERIES DEPARTMENT											(Area in AC.)	
District	Sl. No	Name of the farm	Presently operated by	ST/BT		RT		NT		Total water area of the farm	Gross area of the farm	Remarks
				No.	Area	No.	Area	No	Area			
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>ANGUL ZONE</b>												
Deogarh	64	Barkot	FFDA	0	0.00	0	0.00	33.00	15.00	15.00	20.00	Culturable 12.99 Ac. Only seasonal pond.
Dhenkanal	65	Sadar	FFDA	0	0.00	0	0.00	0	0.85	0.85	1.50	To be leased
	66	Kamakshya Nagar	Defunct	1	0.50	3	1.30	8	1.05	2.85	5.07	Defunct
	67	Hindol	FFDA	0	0.00	4	0.80	12	0.96	1.76	3.00	Defunct
Angul	68	Angul Part	OPDC	10	43.90	0	0.00	17	2.00	31.32	48.12	OPDC
	69	Angul (P) Part	Leased	15	13.25	0	0.00	0	0.00	13.25	16.50	Part Leased
	70	Bantala	Leased	1	1.25	0	0.00	11	1.30	2.55	7.91	Leased out
	71	Khamara	Leased	1	2.00	3	1.30	5	0.75	4.07	4.27	Leased out
	72	Boinda	Leased	0	0.00	0	0.00	3	0.50	0.50	0.84	Leased out
	73	Athhmalik	Leased	0	0.00	1	0.92	7	2.07	2.99	3.85	Leased out
<b>Total Angul Zone</b>				<b>28</b>	<b>60.9</b>	<b>11</b>	<b>4.32</b>	<b>96</b>	<b>24.48</b>	<b>75.14</b>	<b>111.06</b>	
<b>GANJAM ZONE</b>												
Ganjam	74	Digapahandi	OPDC	3	5.37	3	2.50	18	2.33	10.10	17.815	OPDC
	75	Humari (lease)	LEASED	4	5.25	4	1.80	33	5.80	12.85	35.000	Leased out
	76	Dhobabandha	Defunct	1	0.62	1	0.41	6	1.02	2.05	4.161	Defunct due to construction of Railway Over bridge



**STATUS OF GOVT. FISH FARM AS ON 29.02.2016 IN FISHERIES DEPARTMENT**

(Area in AC.)

District	Sl. No	Name of the farm	Presently operated by	ST/BT		RT		NT		Total water area of the farm	Gross area of the farm	Remarks
				No.	Area	No.	Area	No	Area			
1	2	3	4	5	6	7	8	9	10	11	12	13
	77	Sagarabandha	Leased			4	1.55	16	3.85	5.40	7.217	Leased out
	78	Aska (Defunct)	DEFUNCT					8	1.42	1.42	4.940	Defunct
	79	Malad	LEASED	6	6.50	5	2.00	14	6.00	14.50	42.200	Leased out
	80	Bhanjanagar	DEFUNCT					9	2.27	2.27	26.530	Defunct
Gajapati	81	Paralakhemundi	OPDC/FFDA	3	3.40	8	3.00	23	3.40	11.80	12.330	OPDC/FFDA
Kandhamala	82	Phulbani	OPDC	1	1.00			10	1.09	2.09	4.000	OPDC
	83	Tendrigaon	LEASED	1	0.05	2	0.05	7	0.75	1.75	3.500	Leased out
	84	Sirtiguda	LEASED					2	0.50	0.50	0.500	Leased out
<b>Total Ganjam Zone</b>				<b>19</b>	<b>22.19</b>	<b>27.00</b>	<b>11.31</b>	<b>146.00</b>	<b>28.43</b>	<b>64.73</b>	<b>158.19</b>	
<b>KALAHANDI ZONE</b>												
Kalahandi	85	M. Rampur	OPDC	3	3.00	2	1.00	19	1.90	5.90	10.39	OPDC
	86	Golamunda	OPDC	3	4.80	5	3.20	11	1.80	9.80	29.85	OPDC
	87	Bhabanipatna	FFDA	1	1.10	4	2.10	18	3.50	6.70	13.29	FFDA
	88	Baladialamala	OPDC	0	0.00	3	0.92	24	2.64	3.56	8.56	OPDC
	89	Koksora	FFDA	2	2.00	3	1.50	9	1.50	5.00	8.94	FFDA
	90	Bhatrajore	LEASED	2	3.00	6	4.20	15	1.50	8.70	19.23	Leased and Subjudice
	91	Jodabandha	FFDA	2	2.00	1	0.75	9	1.35	4.10	7.82	FFDA
<b>TOTAL</b>				<b>13</b>	<b>15.90</b>	<b>24</b>	<b>13.67</b>	<b>105</b>	<b>14.19</b>	<b>43.76</b>		
	92	Khariar	OPDC	5	6.50	5	1.60	12	2.25	11.60	24.31	OPDC



STATUS OF GOVT. FISH FARM AS ON 29.02.2016 IN FISHERIES DEPARTMENT												(Area in AC.)	
District	Sl. No	Name of the farm	Presently operated by	ST/BT		RT		NT		Total water area of the farm	Gross area of the farm	Remarks	
				No.	Area	No.	Area	No	Area				
1	2	3	4	5	6	7	8	9	10	11	12	13	
Nuapada	93	Saipala	Derelict	2	1.50	5	0.75	8	1.20	3.45	7.85	Defunct	
	94	Nuapada	Leased	1	1.50	1	0.75	11	1.10	3.35	6.65	Leased out	
	95	Sunder	FFDA	1	0.60	1	0.30	12	1.80	3.10	3.71	FFDA	
Rayagada	96	Muchkipadar	OPDC	0	0.00	5	2.05	12	3.31	5.36	6.86	OPDC	
	97	Bikrampur	FFDA	0	0.00	0	0.00	11	1.86	1.86	2.36	FFDA	
<b>Total Kalahandi Zone</b>				<b>35</b>	<b>41.9</b>	<b>65</b>	<b>32.79</b>	<b>276</b>	<b>39.9</b>	<b>116.24</b>	<b>149.82</b>		
<b>KORAPUT ZONE</b>													
Koraput	98	Joypure	Deptt. (R.D. activity)	4	4.97	6	4.82	39	7.78	17.57	22.750	RD activity	
	99	Kotpad	Leased					8	1.28	1.28	1.660	Leased out	
Malkanagiri	100	Malkanagiri	OPDC	3	3.50	2	1.00	10	2.00	6.50	13.020	OPDC	
	101	Kalimela	OPDC	8	4.05	5	4.05	20	2.00	10.56	15.000	1.00 Ac in operation	
	102	Koilipari	Leased					10	3.07	3.07	4.000	Leased out	
	103	M.V. 79	Defunct					11	0.72	0.72	1.500	Defunct	
	104	Kadamguda	Defunct					5	2.00	2.00	3.000	Defunct	
	105	Venchapalli	Defunct					7	0.78	0.08	1.700	Defunct	
Nabarangapur	106	Pujariguda	FFDA			3	3.00	10	5.00	8.00	12.000	FFDA	
<b>Total Koraput Zone</b>				<b>15</b>	<b>12.52</b>	<b>16</b>	<b>12.87</b>	<b>120</b>	<b>24.63</b>	<b>49.778</b>	<b>74.63</b>		
<b>GRAND TOTAL</b>				<b>294</b>	<b>511.47</b>	<b>242</b>	<b>119.6</b>	<b>1301</b>	<b>225.08</b>	<b>837.528</b>	<b>1661.241</b>		



## **BRACKISHWATER AQUACULTURE:**

### **a) Brackishwater Area Development:**

It has been finalised to lease out the Government owned brackish water areas suitable for coastal aquaculture to fisheries co-operatives, SHGs, unemployed youth and private entrepreneurs, for a maximum period of 15 years. The total brackish water area of the State is around 4.181 lakh hectares including shrimp culture area, estuaries, brackish water lake & back waters out of which 32.587 hectares has been identified as suitable for prawn culture. Besides, 24031.03 ha. of Government land has been identified. Around 17980.86 hectares have been developed for prawn culture by the end of December, 2014 since inception, which includes 310.71 ha. during 2015-16. Training is imparted to Brackishwater Fish farmers regularly to improve production level in this sector. During 2015-16 training imparted to 60 such farmers. Subsidy to the tune of Rs. 67.898 lakhs have been released for 166 tanks with development of 120.93 ha water area during 2014-15. Subsidy to the tune of Rs. 149.00 lakh has been released during 2014-15.

**b) Chilika Lake:** Chilika Lake is the brackishwater lake of India with estuarine character. The highly productive lake ecosystem supports India's most productive fisheries. Chilika Lake with average water spread area of 906 sq. kms. in summer and 1165 sq. kms. in monsoon and island area of 223 sq. kms, is the main source of brackish water fish. There are 132 fishermen villages with 22032 families and 1,22,339 populations around the lake. The number of fishermen actively engaged in fishing in this lake for their livelihood is 30936. Out of 104 registered co-operative societies, 93 are functioning with 27432 fishermen. There are 18 landing centres in which about 12054 MT of fish/prawn/crab is produced during the year 2014-15. The brackishwater fish/ shrimp production from different sources in the state is given below.

**c) Coastal Aquaculture Authority (CAA):** The person carrying on Coastal Aquaculture without Registration are punishable with imprisonment for a term, which may extend to three years or with fine, which may extend to one lakh rupees or with both. The Registration is valid for a period of 5 years and renewed for next 5 years after completion of the registration period. In the mean time, 6302 cases comprising an area of 5376.17 ha. have been sponsored to Coastal Aquaculture Authority, Chennai by different District Level Committees (DLC) and State Level Committee (SLC). Out of which, 6124 cases with an area of 5098.21 ha. have already been registered by CAA by now.

**d) Culture of L.vannamei (White shrimp):** The persistent disease threat in Brackishwater shrimp culture has promoted the entrepreneurs to look for new avenues in coastal aquaculture. Diversification of culture species and system is highly essential to avoid dependence on a single species i.e. shrimp (*P.monodon*). Thus shrimp farmers are now interested to take up L.vannamei culture in the state and 156 farms having an area of 264.39 ha. have applied to CAAI to get permission to take up L.vannamei culture.



**e) Identification of suitable Govt. land for brackish water area development:** Around 24031 ha. Suitable Govt. land has been identified for development of Brackishwater shrimp culture on long term lease in future. Govt. in Revenue & Disaster Management Department, vide their letter no. 16538dt.3.6.2015 and letter no;23292 dated 13.8.15 have laid down principles for long-term lease of Brackishwater Govt. land coming under the jurisdiction of the district by utilizing the services of Revenue and Fisheries Department. All available lands identified for Brackishwater culture shall be leased out for 15 years.

**f) Infrastructure facility to Brackishwater clusters:** Govt. is taking steps to provide separate electricity feeder to Brackish water clusters in order to increase productivity and 32 such clusters have been identified and provision of electricity is under progress. The infrastructure support like quality road is required for transporting inputs and harvested shrimp & Rs.16.38 corers has been sanctioned under RIDF for such development in Brackishwater Aqua cluster of Balasore District. Under the New Agriculture Policy, 2013, provision has been made to supply aerators to shrimp farms in a subsidised rate.

#### **"Promotion of Vannamei Seed supply to the farmers"**

Government of Odisha is looking forward to enhance annual export to the tune of Rs.10,000.00 crores for coming five years by developing L.Vannamei culture . So a newly created state plan scheme "Promotion of Vannamei Seed supply to the farmers is now under implementation.

The objectives of new state plan schemes are to encourage the farmers for Scientific culture by stocking quality seed available @25% subsidy on seed cost &L.Vannamei culturing farmers with an ultimate aim for increasing Productivity, income & export. The scheme shall be applicable to all farmers in Brakish Water sector having approval of CAA. To take up culture of L.Vannaamei either or their own lands or in lease lands. The farmers are eligible to get subsidy only once limiting to one hectare culture area. The same farmers will be not be entitled for further subsidy in seeds in the comings years. The same area which has been taken under the scheme & subsidy released cannot be considered for second time if some other farmer is taking or lease.

The calculation of subsidy shall be made as per quality of seed stocked or Rs.60,000.00 per lakh.

#### **Export Promotion Cell:**

To increase annual Marine food exports to 10,000.00 crores one export promotion call is functions in the Directorate of Fisheries ,Cuttack one expert/specialist has been inducted as Consultant for promoting Brackishwater aquaculture & export of Marine products of Odisha in Co-ordination with state Government .of India/ MPEDA/ Export Promotion agencies.



## **MARINE SECTOR:**

Having a coastline of 480 kms., Odisha is one of the important maritime states of the country having seven coastal districts, where 114,238 fishermen families reside making their livelihood from the open sea.

Marine fisheries in Odisha is a small scale enterprise and activity and the catch is mostly from traditional crafts and gears. In Odisha, around 102 species of fish are caught out of which, Important varieties include such as Hilsa, Pomfret, Seer fish, Cat fish, Sciaenides, Mackerel, Elasmobranches, etc. which are the dominant species. High value varieties of fishes and prawns are exported from Odisha. For the socio-economic development of fishermen and improvement of quality of life among fishers, living along the coast, welfare measures are introduced.

## **WELFARE SCHEMES:**

### **1. Group Accident Insurance Scheme:**

The life of fishermen is insured, for which they do not pay any premium. The Government of Odisha and Government of India contribute Rs.20.27 per fisherman per annum. In the case of accidental death and permanent disability, the nominee of the deceased gets Rs.2.00 lakh. In case of partially permanent disability, the fishermen are entitled to get Rs.1.00 lakh. Further, Rs.10,000/- is extended as assistance to fishermen towards hospitalization expenses during serious disease, that keep them out from livelihood activities.

### **2. Saving-cum-Relief:**

To inculcate the habit of savings amongst the fishers during earning period and to provide subsistence during lean/ ban periods, the beneficiary, State Government and Central Government contribute equally @Rs.900/- each, for the purposes and total Rs.2700.00 per annum is distributed to the fishers during 3 lean months of the year.

**3. MatshyajibiBasagrahaYojana:** Under this scheme poor active fisherman are assisted to construct a dwelling house worth of Rs.90,000/-. The quantum of the finance is Rs.75,000/- and the beneficiaries participation is to the tune up Rs 15,000/-.

### **4. Motorization of Traditional crafts:**

To enable traditional fishermen to reach the fishing grounds and to bring the catch early and ensure greater safety, there is a provision of subsidizing the cost of engine fitted in the traditional crafts. Subsidy benefit is provided to traditional fishermen of coastal areas for motorization of their country crafts with 10-12 HP OBM. Subsidy for engine is Rs.30,000.00.



The achievement under the above welfare schemes are as follows:

Sl. No.	Name of the Scheme	Achievement (Till end of February 2016)
1	Group Accident Insurance Scheme	11,50,000 fishermen have been insured in the state and Rs.2,33,10,500/- have been deposited towards insurance premium (State share) (insurance period 10.12.2015 to 9.12.2016)
2	Savings-cum-Relief Scheme	7002 nos. of beneficiaries covered
3	Matshyajibi Basagraha Yojana	1066 dwelling houses have been allotted with Rs.800.00 lakhs of grant
4	Motorization of Traditional crafts	882 traditional crafts have been motorized and subsidy of Rs.488.79 lakh have been released including back log.

**5. Biju Krushak Kalyan Yojana:** Health insurance up to Rs.1.00 lakh is provided to the fishermen families covering five members. Financial assistance up to Rs.30, 000.00 is provided for treatment purpose.

**6. Development of model fisherman village:** To provide basic civic amenities like house, drinking water and community hall to eligible fishermen in inland and marine sector. Rs.75,000.00 is provided for each house. One tube well @ Rs.40, 000/- per 20 houses and one Community hall @ Rs.2.00 lakh for 20 houses in a village are also provided.

**7. Establishment of Fishing Harbour & FLCs:** The scheme aims for providing infrastructure facilities for safe landing, berthing, and unloading of fish catches of fishing vessels in a hygienic manner etc. Assistance is also provided for repair and renovation of the existing fishing harbour and fish landing centres. In two FHs i.e. at Paradeep&Dhamara, Management Societies have been formed for better management and revenue earnings.

**8. Implementation of Marine Fishing Regulation Act:** The Odisha Marine Fisheries Regulation Act, 1983 is being implemented in the State for safeguarding the territorial waters of the State. Registration, renewal & licensing of fishing crafts along with conservation of turtle species are being taken up through this Act. The process of Registration & Renewal are taken up on-line as Single-Window system

**3) Safety of Fishermen at Sea:** 470 Distress Alert Transmitters (DAT) will be distributed by the OPDC to the selected marine fishermen of the state at a cost of Rs.51.76 lakhs. The security implements will help Fishermen during the time of distress in the sea while fishing.

**4) Development of Post Harvest Infrastructure:** One modern hygienic fish market is under construction at Giri Market, Berhampur through the Berhampur Municipal Corporation. Government of India ACA Grants of Rs.55.00 lakhs is under utilization for the purpose and up-to-date expenditure is Rs.52.00 lakhs.



5) **Establishment of Fishing Harbour and Fish Landing Centre:** The work of modernization & upgradation of Dhamara Fishing Harbour in Bhadrak District under TCP of FAO is under progress. Rs.1000.00 lakhs (CS-Rs.750.00 lakh + SS-Rs.250.00 lakh) have been received under CSP Scheme and the up to date utilization is Rs.812.25 lakhs.

6) **Assistance to the States for Development of Export Infrastructure (ASIDE):** Under the Central Sector Scheme a processing plant has been established at Dhamara village of Bhadrak district with a cost of 4.70 crores. Rs.1.80 crores have also been spent to take-up the work of repair of damaged bridge and construction of approach road to Balaramgadi (Chandipur) FLC. The work has been completed.

7) **Enumeration of Coastal Fishers for Issue of Biometric Identity Cards for security purposes:** A total of 156262 cards have been received from the Electronics Corporation of India (ECIL), Hyderabad, out of which 153000 cards have been distributed to fishers. In the second phase 105000 cards have been received and the distribution to the fishermen is under progress.

8) **Online Registration of Fishing Vessels:** By end of December 2015 total 9320 country crafts, 7578 motorized crafts and 1755 mechanized crafts have been registered on-line.

9) **Assistance to fishermen for dev. of livelihood under RKVY (Boat & Net):** To compensate the huge loss incurred by the fishermen during natural calamities, it has been proposed to provide assistances from RKVY for their livelihood support through rejuvenation of their traditional activity. Construction of FRP Boat/ wooden boat/ FRP sheathing on wooden boat in Marine/ Chilka with 75% subsidy assistance subject to maximum Rs.0.75 lakh. Supply of net in Marine/ Chilka with 75% subsidy assistance subject to maximum Rs.0.25 lakh is the norm. Under RKVY programme, Rs.51.00 Crore have been sanctioned during 2013-14 for covering 3000 units in marine sector and 2000 units in Chilika. So far 4538 Boat & Nets have already been provided and cases have been financed by different Banks. Rs.32.55 crores of subsidy has so far been distributed to the beneficiaries.

10) **Paradeep Fishing Harbour (Website: [www.msfhparadeep.com](http://www.msfhparadeep.com)):** Paradeep Fishing Harbour is one of the important and major fishing harbours of the country constructed in the year 1996. The fishing harbour is now being managed by a Management Society which is responsible for the management of the harbour and for facilitating berthing, handling of catches, auctioning and repair of crafts. Priority is given to maintain sanitation and hygiene as per European Union (EU) norms and of international standards in handling of marine catches.

The Harbour is constructed in an area of 39.00 Acres with one landing jetty and four finger jetties. Facilities such as Auction hall, Auction yard, Diesel out let, Ice godown, Shopping units and Gear shed facilities have been provided to the fishermen in the harbour. Totally 649 mechanised fishing boats and 190 motorised crafts are in operation.



**11) Dhamara Fishing Harbour (Website: [www.dhamarafishingharbour.org](http://www.dhamarafishingharbour.org)):** The Harbour is located on the North bank of Dhamara River. It is an UNDP assisted and FAO executed project commissioned in 1978. The Harbour is managed by a Management Society one similar to Paradeep Fishing harbour. 260 Mechanised Vessels, 239 Motorised boats and 157 traditional boats are operating from the Harbour. The Harbour has been certified by the Indian Export Inspection Agency (EIA).

**12) Marine Fish export from Odisha:** Odisha is having State of art fish and shrimp processing units, which are conforming to all international standards including that of European Union. There is a well developed cold chain system. There are about 20 high quality fish processing facilities. Varieties of products in chilled block frozen, and IQF are processed and exported by the export units. The year wise, country wise and item wise export of fish from Odisha.

**The total export value and volume of fish and fisheries products exported during last five years is as follows:**

Year	Export of Fish and Fishery products to overseas countries			
	Qty. in MTs	Value (Rs. in Million)	Value in million US\$	Value in million Euro
2010-11	19,725.00	6,064.10	96.25	86.63
2011-12	21,078.00	7,927.60	125.83	113.25
2012-13	23,691.00	9,084.80	144.20	129.78
2013-14	30,980.00	18,170.70	300.39	280.00
2014-15	34767.00	20,691.715	342.27	311.49

#### **ITEM WISE EXPORTS OF SEAFOODS FROM ODISHA, IN INDIA**

(Quantity in tonnes/ Value in million Rs./in Million Dollars)

ITEM NAME	Quantity/ Value	2013-14	2014-15
Frozen Shrimp	Quantity in MT	25803	30765
	Value in Million Rs.	17550	20236
	Value in Million \$	290	335
Frozen Fish	Quantity in MT	5100	3054
	Value in Million Rs.	6050	3560
	Value in Million \$	10	6

#### **Other Important Schemes:**

**Fisheries Equipments & Agri-enterprises in Fisheries sector under Odisha Agriculture Policy, 2013:** Aerators /Fish feed mills for aquaculture unit/ Fisheries equipment like net, water testing kit, water pump, transportation taxi, oxygen equipments /bore well at 50% subsidy. Ice boxes for preservation of fish/ Setting up of ice plants/ Flake ice plants, cold storages and insulated van/ Establishment of Aqua shop at 50% subsidy and Rs.1.00 crore have been received for subsidy distribution to farmers. In the meantime 500 aerators have been supplied to fish farmers.



**Empowering Fishermen through Mobile Advisory Services & Establishment of Toll Free Call Centre for Fisheries Extension Service:** Fisheries Extension services are rendered to fishermen and fish farmers through helpline managed by a team of fisheries experts. One lakh SIM cards were distributed to fishers every year from the year 2013-14. Two lakh SIM cards have been distributed to the fishermen and fish farmers in last two years. During 2015-16 total 66300 SIM cards have been distributed to the fishermen and fish farmers of the state. Five voice messages in Odia language on areas of immediate importance related to fisheries, Potential fishing zone, market price, weather, Government schemes etc is given every day to the SIM card holders. Further Phone-in and mobile quiz programmes are also being arranged. The SIM card holders are getting free advice from the experts through the helpline No: 534351. A recharge of Rs.30/- is given in every month for the first year. The Programme was awarded as a best entry under Sansad Adarsh Gram Yojana during the year.



***Odisha State Plan Initiatives "Empowering Fishermen through Mobile Advisory Services" was awarded under Sansad Adarsh Gram Yojana***

**"Chilika Fresh" at Bhubaneswar:** Fish being the most popular food items of people of Odisha, a modern hygienic pre-fabricated fish retail selling kiosk named "Chilika Fresh" has been set up at Siripur, Bhubaneswar where varieties of fresh water, brackish water and marine fish along with crab and lobster are being sold in hygienic condition. Subsequently fisheries products like dry fish, canned fish, fish pickle will be made available to the consumers. It has been decided to set up more such kiosks in other parts of state capital.

**Fisheries Co-Operative Sector:** During the year 2015-16, an amount of Rs.65.00 lakh has been provided, out of which Rs.55.00 lakh for business development work and Rs.10.00 lakhs for imparting training to the a members of affiliated PFCS. FISHFED initiated to establish two modern hygienic fish selling kiosks at Bhubaneswar to cater to the need and demand of the fish loving people of the society.

**Publicity in Fisheries:** Information on various developments and activities taken up in the Department. The aim is to reach the population living in various corners of the state to make effective delivery of social sector schemes to the targeted beneficiaries.



**Print Media:** Three issues of Odia Quarterly Fisheries News letter "Matsya Darpan" which portrays different fisheries activities of the Department and the ongoing schemes etc. for distribution to the public as well as other line Department. The Department has also published Leaflets, books/technical manual and regularly publish advertisement on various developmental schemes and sending weekly technical guidelines to the farmers. Wall writing of various schemes were made at important places of districts.

**All India Radio & Doordarsan Programmes:** 108 Fisheries programmes have been broadcasted by the All India Radio and 132 Doordarsan programmes have been telecasted during 2015-16. The programmes were very popular. Fisheries development programmes are also telecasted through some new important channels like OTV and KAMYAM TV.

**Production of Video Programme & Documentary Films:** Many success stories have been produced and telecasted through "Sunara Odisha" through Developmental news programmes. Special fisheries programmes and Phone-in programmes have been telecasted through "Krushi Darshan" programme of Doordarsan and AIR.



**Participation of Department in Arnapoorna World Food of India organized at Mumbai from 14-16 September, 2015**

**Melas & Fairs:** Various exhibitions, workshops, awareness programmes & Buyers Sellers Meets at Block/District level and State level are being organized to demonstrate different activities of Department. The Department has participated in state level functions like – Krushi Mahotsav at Puri, AdibasiMela at Bhubaneswar, Historic Baliyatra at Cuttack. The Arnapoorna World Food of India Exhibition at Mumbai was participated by the Department from 14-16 Sept, 2015. Awareness on empowering Fishermen through Mobile advisory Services and other new schemes was done in all districts. It has been finalized to organize Fish Festival Odisha-2016 along with State Agricultural Fair.

**International Events:** Shri P. Krishna Mohan, IFS Director of Fisheries participated in the Sea food Expo Global and Sea Food Processing Global Exhibition at Brussels, Belgium from 21 to 23 April, 2015. Further a delegation led by Sri Bishnupada Sethi, IAS Commissioner-cum- Secretary, F&ARD and Shri P. Krishna Mohan, IFS Director of Fisheries also visited Portugal on 22.11.15 and discussed on Export potentials of Odisha.



**Matsya Sampad Vikas Utsav:** In order to enrich the resources with fish population, open water bodies like rivers/ reservoirs/lakes/swamps waterlogged area and other water bodies of the State was stocked with fish fry/ preferable fingerlings for replenishment & conservation of fish genetic resources. This was first organize during 2015 as 'Matsya Sampad Vikas Utsav' and will be a continuous process every year in the month of August.



**Celebration of Fish Farmers Day:** Fish farmers Day was celebrated on 10<sup>th</sup> July in all the 30 districts with farmers meet. The day was celebrated to remember first hypothecation of carps by eminent scientists like Dr. K.H. Alikunni and Dr. Hiralal Choudhury on 10.7.1957 in the Narayan Sagar Government fish farm of Angul. The day is celebrated by all fish lovers every day. Shri Bishnupada Sethi, IAS, Commissioner-cum-Secretary, F&ARD Dept. inaugurated a Memory Pillar in the farm in presence of Director, CIFA and other scientists. A special fish farmers meet was organized in the occasion.

**World Fisheries Day:**World Fisheries Day was celebrated on 21.11.2015 in all the districts. The DFOs organized farmers meets on the occasion. National level World Fisheries Day was organized in New Delhi. A team of senior officers and fish farmers, exporters headed by Shri. P. Krishna Mohan, IFS, Director of Fisheries attended the function. Shri Laxmi Narayan Panda, a progressive farmer of Bhairipalli village in Jayapatna block of Kalahandi District was awarded in the national workshop at New Delhi.



*Celebration of Fish Farmers Day on 10.7.15 at Angul*



**Research & Development Activity:** Research and development activities in 5 farms are being taken up for the following programmes: 1. Brood stock Development Programme, 2. Multiplication & Production of Jayanti Rohu, 3. Up-gradation of brood stock by using cryo milt, 4. Diversification of species, 5. Production of small indigenous species. All the above activities were taken up in Kausalyagang Fish farm. Under Diversification of new species i.e. *L.fimbriatus*, *L.gonious*, *P.gonionotus*, *P.sarana*, *P.sutchi* and seed production of Magur was taken up in Kausalyagang fish farm.

#### **National Freshwater Fish Brood Bank (NFFBB)**

A National Fresh Water Fish Brood Bank (NFFBB) has been set up at Kausalyagang under NFDB funding. For the purpose 100.00 acres of water area from Govt. Fish Farm, Kausalyagang have been allotted. The MOU of the project have already been signed on 27.08.2012.

NFDB sanctioned Rs.576.57 lakhs towards execution of civil works for renovation of ponds at National Freshwater Fish Brood Bank (NFFBB), Kausalyagang, Bhubaneswar and construction of internal road.

The construction work is under progress out of which 7 nos. of tanks have been completed. The road work is under progress by CPWD, Bhubaneswar. Further development of second phase area will be executed by Executive Engineer, FED, Bhubaneswar. The DPR of the second Phase has been submitted to NFDB for approval and sanction of funds.

#### **Ornamental Fish Hatchery:**

In seven Districts, commercially Ornamental Fish Culture is adopted. State Government has taken up ornamental breeding unit at Kausalyagang Fish Farm under NFDB funding from 18.02.2014 and has breed 13 species including sub-species totaling to 25 varieties live bearers as well as egg layer species. Every year ornamental fish seed produced are sold to public as per the demand. Further motivation to SHG & woman SHG are being taken up in the districts of Khurda, Cuttack, Deogarh, Anugul & Kalahandi.

#### **Establishment of Fishery Hub:**

Fisheries and Animal Resources Development (F&ARD) Department, Government of Odisha is planning to set up a "Fishery Hub" in the Kausalyagang Fish Farm, Bhubaneswar. The proposed Fishery Hub is being envisaged to be taken up in four phases, the initial phase spread across an area of approximately 5 acres that will eventually be expanded to 20 acres upon completion of all the four phases. The main objective of the Hub is to construct i) Aquarium cum Interpretation Centre, ii) Training and awareness centre, iii) Fish and seafood restaurant with processed & value added products and iv) A unique world class 3-D Cinema Hall with multiple educational and entertaining activities. An amount of Rs.200.00,000/- has been sanctioned towards Construction of Fishery Hub at Kausalyagang in Khurda District during the financial year 2014-15. The tender process has been completed and approval of Govt. has been received for "Selection of Consultants to carry out Feasibility Study and Transaction Advisory Services for the Fishery Hub in Kausalyagang Fish Farm, Bhubaneswar. MOU with the successful bidder "Earnest & Young LLP" executed on 26<sup>th</sup> December, 2015. The Feasibility Study and Transaction Advisory Services is likely to be completed by end of October, 2016.



### **Matsya Sampad Vikas Utsav:**

In order to enrich the resources with fish population, open water bodies like rivers/ reservoirs/ lakes/swamps waterlogged area and other water bodies of the State was Stocked with fish fry/preferable fingerlings for replenishment & conservation of fish genetic resources. This was first organized during 2015 as 'Matsya Sampad Vikas Utsav' and will be a continuous process every year in the month of August.

**Odisha State Fishermen's Co-Op. Federation Ltd. (FISHFED):** The Apex Cooperative Federation was registered under Odisha Cooperative Societies Act, 1962, vide Registration. No.1 CTC (Fy)/ 1989-90 dated 14.08.1989 as an Apex Body of all Primary Fishermen's Cooperative Societies in the State. The Federation became functional from 16th September 1991. The Federation is under the administrative control of Fisheries & A.R.D. Department of Government of Odisha. At present 375 nos. of PFCs are affiliated to FISHFED with more than 70000 participating fishermen members in Inland, Marine and Brackish Water sectors.

### **OBJECTIVES:**

The Federation was created to secure/ to act to secure the Socio-economic interests & welfare of the Poor Fishers of the State through marketing of Fish & Fishery Products, supply of Fishery inputs & requisites, mediate in the lease & sub-lease of Capture Fishery Sairats, production / Disposal of fish & fish Seeds, Development of infrastructures for hygienic Fish Marketing through KIOSKS, Ice plants & Cold storages, maintenance & Managements of Fishing Harbors, Fish Landing Centers & Jetties etc. Implementing Training to Fisheries Cooperatives Societies.

### **MANAGEMENT:**

The management is looked after by 21 Board of Directors 14 Board of Director have been elected during the Month of July,2015 for 97 Cooperative rule. The President / Chairman as the Administrative head is elected from among the members of Board of Directors / nominated by Govt. Sri T. Prasad Rao Dora & Smt. Jayshree Gadnayak have been elected as President & Vice President respectively. The Managing Director is appointed by the Government to act as the Chief Executive, Sri Subal Chandra Mohanty, DDF (Training) has been appointed as Managing Director, FISHFED. The services of the President/ Vice President/ Board of Directors is honorary, except the Managing Director. The terms of Board is 5 years.

### **PRESENT ACTIVITIES**

1. FISHFED has established two hygienic fish selling outlets one at Siripur & another at CRP. Shortly the Organisation has planned to set up 26 more kiosk in the BMC areas to serve the fish loving people of City, FISHFED is also going to establish another outlet namely Hirakud Fresh at Sambalpur town with financial help from WODC.
2. As per direction of the Hon'ble High Court, Odisha & lease policy of Govt. in Revenue & DM Department, FISHFED is mediating on lease / sub-lease process of Chilikasairats, with 10 % facilitation charges over & above the annual lease value of the sairats; fixed by the Collectors from the lessee PFCs. The Federation earns Rs.1.50 lakhs per annum in the process approximately.



3. 19 FHs/ FLCs/ Jetties have been transferred to FISHFED for maintenance & collection of users fees and at present 19.00 lakhs of revenue is being generated.
4. FISHFED observed 63rd All India Cooperative Week celebration from 14 to 20th Nov, 2015 successfully. Its own modern Conference hall was inaugurated in this Occasion.
5. FISHFED is also providing Training to the Primary Fishermen's Cooperative Societies (PFCS) time to time for their reactivation.
6. The President, Managing Director & ICS of FISHFED visited Gandhisagar Reservoir of Madhya Pradesh to study the possibility of taking over the management of some reservoir of State by FISHFED.
7. FISHFED has proposed the various projects to be sanctioned by Govt. in relation to the up-liftment of socio economic condition of PFCS like providing office building , computer etc to PFCS.
8. FISHFED is also trying to enter in to commercial business like establishment of modern Highway Treat (cafeteria) and Fish feed mill.

**Integrated Coastal Zone Management Project, Odisha (ICZMP) "Alternative Livelihood Options for Fisher folk"**

The Project aims at providing best alternative livelihood support to 7531 fishermen family in 80 fishing villages in the periphery of Chilika Lake and Gahirmatha Wildlife Sanctuary by the Fisheries Department.

To encourage the fishers to take up best possible and location specific alternative livelihood, 600 SHGs have been formed and their capacity has been built to improve for adapting to various activities. The components of farming activities are as per the interest and resources available in the locality. The project provides required infrastructure for particular activity as well as required input for the activity.

By December, 2014, a total of 600 SHGs have been assisted with an amount of Rs.1834.53 Lakhs for development of 211 pisciculture units, 99 Hygienic dry fish preparation units, 63 Dairy Units, 88 Poultry Units and 139 other allied activity units for their livelihood. The cumulative expenditure including advance to the SHGs for the project is Rs. 2340.24 Lakhs.



**Exposure visit of officers to Bangladesh Officers in exposure visit at Gandhi Sagar Bhopal, Madhya Pradesh**



## FISHERIES STATISTICS

### Fish Production in Odisha (in MT)

Year	Freshwater	Brackishwater	Total Inland	Marine	Grand Total
2011-12	237470	30062	267532	114296	381828
2012-13	261919	29914	291833	118311	410144
2013-14	263862	30007	293869	120020	413889
2014-15	300964	35373	336337	133211	469548
2015-16(P) upto Dec. 2015	227954	31040	258993	97396	356389

### Year-Wise Resource-Wise Freshwater Fish Production (in MT)

Year	Tanks/ ponds	Reservoirs	Lakes/ Swamps/ Bheels	Rivers/ Canals	Total
2011-12	211189	13730	1945	10606	237470
2012-13	230430	18570	2407	10512	261919
2013-14	230939	18940	2803	11180	263862
2014-15	261845	21831	2943	14345	300964
2015-16(P) upto Dec. 2015	199513	16363	2422	9656	227954

### Year-wise Resource-Wise Brackishwater Fish Production (in MT)

Year	Culture Shrimp	Estuaries	Chilika	Total
2011-12	11976	3858	14228	30062
2012-13	13227	4220	12467	29914
2013-14	12610	4461	12936	30007
2014-15	19254	4066	12054	35374
2015-16(P) upto Dec. 2015	17879	3574	9587	31040

### Fish Production from Chilika Lake (in MT)

Year	Fish	Shrimp / Prawn	Crab	Total
2011-12	7456.03	6413.91	358.26	14228.2
2012-13	7114.3	5034.05	318.58	12466.93
2013-14	7699.71	4927.66	308.97	12936.34
2014-15 (P)	7146.77	4572.32	334.58	12053.67
2015-16(P) upto Dec. 2015	5655.93	3636.03	295.41	9587.41



### District-Wise Year-Wise Marine Fish Production (in MT)

Year	Balasore	Bhadrak	Jagatsinghpur	Kendrapara	Puri	Ganjam	Total
2011-12	27338	9773	28675	6339	31000	11171	114296
2012-13	27234	11086	32971	4898	30774	11348	118311
2013-14	29819	11076	30395	7474	30938	10319	120020
2014-15	35201	11721	36632	7009	11659	30989	133211
2015-16(P) upto Dec. 2015	27932	8876	21573	5597	25010	8408	97396

### Fish Disposition (in MT)

Year	Marketing Fresh	Freezing	Drying	Salting	Total
2010-11	324555	27425	26610	7595	386185
2011-12	314116	29389	28124	10199	381828
2012-13	345959	33266	24294	6624	410145
2013-14	349843	30814	22799	10434	413889
2014-15	404822	29480	25167	10078	469548

### Import of Freshwater Fish From Neighboring States

Year	Qty. (in MT)
2010-11	43399
2011-12	59280
2012-13	21217
2013-14	26501
2014-15	38118

### Year-Wise Annual Per-Capita Consumption of Fish

Year	Annual Per-capita Consumption (in Kg/Annum)
2010-11	9.42
2011-12	10.14
2012-13	9.13
2013-14	9.66
2014-15	11.18

### Export of Marine Products from Odisha to Foreign Countries

YEAR	QUANTITY (IN MT)	VALUE (In Rs. Crores)
2010-11	19725	606.41
2011-12	21078	792.76
2012-13	23691	908.48
2013-14	30980	1817.07
2014-15	34767	2069.17



**ITEM-WISE EXPORTS OF FISH PRODUCTS FROM ODISHA**

*Q. Quantity in Tons/ V. Value in Rs. lakhs / \$ USD Million)*

Item Name		2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
<b>FROZEN SHRIMP</b>	<b>Q</b>	11097	11072	12275	14954	16858	20368	25808.00	30765
	<b>V</b>	33518.2	33917.2	40214	56809.2	75531.75	87803.77	175525.00	202356.11
	<b>\$</b>	83.74	75.55	86	124.92	161.65	162.82	290.00	334.81
<b>FROZEN FISH</b>	<b>Q</b>	2420	2521	1693	3403	3311	2540	4297.00	3054
	<b>V</b>	1020.9	1321.47	1133.07	2714.08	2858.85	2346.15	5434.00	3559.93
	<b>\$</b>	2.58	2.79	2.42	6.05	5.85	4.39	9.00	5.82
<b>FR CUTTLE FISH</b>	<b>Q</b>	158	305	266	802	640	746	730.00	840
	<b>V</b>	198.63	276.77	245.99	562.31	591.4	645.4	579.00	738.58
	<b>\$</b>	0.5	0.62	0.5	1.25	1.24	1.22	1.00	1.21
<b>FR SQUID</b>	<b>Q</b>	62	47	37	326	194		110.00	38
	<b>V</b>	33.52	24.67	27.75	210.4	180.7		80.00	25.88
	<b>\$</b>	0.08	0.05	0.06	0.47	0.38		0.00	0.04
<b>LIVE ITEMS</b>	<b>Q</b>		3		0				
	<b>V</b>		2.89		0.83				
	<b>\$</b>		0.01		0				
<b>CHILLED ITEMS</b>	<b>Q</b>	29	89	18				6.00	48
	<b>V</b>	12.03	102.01	51.25				29.00	205.39
	<b>\$</b>	0.03	0.23	0.11				0.00	0.33
<b>DRIED ITEM</b>	<b>Q</b>	0							
	<b>V</b>	0							
	<b>\$</b>	0							
<b>OTHERS</b>	<b>Q</b>	394	98	301	239	75	37	30.00	21
	<b>V</b>	368.52	143.50	434.92	344.22	113.30	52.27	61.00	31.26
	<b>\$</b>	0.93	0.31	0.94	0.76	0.24	0.10	0	0.05
<b>GRAND TOTAL</b>	<b>Q</b>	14161.00	14135.00	14588.00	19725.00	21078.00	23691.00	30980.50	34767
	<b>V</b>	35151.81	35788.49	42106.12	60641.00	79276.00	90847.59	181707.31	206917.15
	<b>\$</b>	87.85	79.56	90.03	133.45	169.36	168.53	300.39	342.27