



GOVERNMENT OF ODISHA

**ANNUAL ACTIVITY
REPORT
2016-17**

**FISHERIES & ANIMAL RESOURCES DEVELOPEMENT
DEPARTMENT**

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FISHERIES SECTOR



2016-17

Annual Activities Report: 2016-17.

1. Introduction:

Fish is recognized as a global super food. Fisheries and aquaculture is one of the fastest growing food sectors and has been playing a pertinent role in the economic development front on account of its contribution to food and nutritional security, national income, employment opportunities as well as generating livelihood options.

Odisha is one of the important maritime states of India having excellent scope for fisheries development. The state has 6.79 lakh ha. of freshwater resources, 4.18 lakh ha of Brackish water 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 increasing the present export to Rs.20,000 Crores. The total fish production of the State during 2015-16 is 5.21 lakh MTs and export generation is around Rs. 1787.84 Crores. Accordingly, the Department proposes to take up massive horizontal expansion of culture areas and to enhance productivity to 5.00 tonnes/ ha. 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 one of the growing sectors 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 Brackish water 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.

2. FISHERIES RESOURCES & POTENTIAL IN ODISHA

FRESHWATER FISHERIES SECTOR

Resources & Potentiality of Freshwater Aquaculture			
Resources	Water area (in lakh ha.)	Total production potentiality (in lakh MT)	Present production level (2014-15) (in lakh MT)
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
Total	6.79	4.55	3.00

BRACKISHWATER FISHERIES SECTOR

Resources	Water Area (Lakh ha.)	Total Production Potentiality (Lakh MT)	Present production level (2014-15) (in lakh MT)
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
TOTAL	4.181	0.70	0.35

MARINE SECTOR

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

Maximum Sustainable Yield (MSY) (Continental Shelf Area)	
SPECIES	MSY (MT)
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
Total	1,10,938.00

OTHER FISHERIES RESOURCES		
FISH SEED HATCHERY:	Unit	
Freshwater :	No.	Fry Capacity (in millions)
Government (R&D)	05	489.00
Government hatchery	20	121.70
Government rearing farm	89	
OPDC	05	210.00
Private	86	520.00
Freshwater prawn seed hatchery		
Government	03	80
Private	07	125
SHRIMP SEED HATCHERY		
Brackishwater:	No.	Capacity (in million)
Government	2	75
Private	12	292.5
ICE PLANT AND COLD STORAGE		
	No.	Capacity (in MT)
Ice Plant	57	613.5
Cold Storage	12	67
MARINE FISH LANDING CENTRE		
1. Harbour	4	
2. Jetty	25	
3. Other Landing Centre	43	
Total	72	
5. Fish Drying Platform	10	3269

CRAFTS (Marine) 2012-13: (In Nos.)		
A. Mechanized	1754	
B. Motorized	7408	
C. Country Crafts (Non Motorized)	10913	
TOTAL	20,075	
Total Marine Fishermen families	114238	As per CMFRI Survey- 2011
Total Marine Fishermen Population	605514	
Total Inland Fishermen Population	898134	
(I) MARINE PRODUCTS EXPORT DEVELOPMENT AGENCY 2013-14: (Registered under MPEDA)	(Nos.)	Capacity (in MT)
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

3. Development of Fisheries Sector in Odisha:

OBJECTIVES:

- Implementation of "Odisha Fisheries Policy,2015" to double fish production of the State and to reach the export to Rs.20,000 crores.
- Maximum utilization of water bodies with stocking of quality seed.
- Generating employment & higher income in fisheries sector,
- Improving socio-economic conditions of traditional fisher folk & fish farmers and to double the income of fishers.
- 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 Brackish water 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 programs are being operated in the State under Fisheries Department:

Centrally Sponsored Plan Schemes:

- Development of Inland Fisheries & Aquaculture (With 50% subsidy)
- 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- Rastriya Krishi Vikas Yojana

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 – Matshyajibi Unnayan Yojana:

(Containing 14 sub components)



Workshop on SEAFOOD EXPORT Prospects & Challenges & Hon'ble Chief Minister of Odisha Programme at Jaydev Bhawan, Bhubaneswar on 14.10.2016

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) 10**

- ▶ Asst. Engineer (Civil)
- ▶ A.R.C.S. (Fy)-3
- ▶ S.A.R.C.S. - 5
- ▶ 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

NON-PLAN BUDGET			(Rs. In lakhs)
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	5234.80	
2016-17	6361.46	4043.82 not final)	
		4043.83	

Ten Zones have already started functioning in the State.

4. Non-Plan Budget & Plan-Budget:-

(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	2968.00	1474.66	1469.83	602.92	0.00	-	2926.91	1166.20	1166.20
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	3319.89	1124.22	1124.22
2016-17	8776.66	5889.03	5889.03	73.40	0.00	0.00	3171.14	1354.78	1354.78



Workshop and Distribution of Appointment orders by the Hon'ble Chief Minister of Odisha in a Programme at Jaydev Bhawan, Bhubaneswar on 14.10.2016



Signing of MoU with WorldFish



Hon'ble Chief Minister in Markandi

ACTIVITIES OF 2016-17

5. **Odisha Fisheries Policy, 2015:**

Government of Odisha has come up with the 'Odisha Fisheries Policy, 2015'; vide Gazette notification No. 1282, 2nd 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 highlight 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 CENTERS:** Efforts shall be made towards modernization of all fishing harbours/ Jetties/ fish landing centers 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.



Paradeep fishing harbor in Jagatsinghpur District, Odisha



HON'BLE CHIEF MINISTER OF ODISHA SHRI NAVEEN PATNAIK IS INAUGURATING THE NEWS LETTER OF THE DIRECTORATE OF FISHERIES, ODISHA.

6. FRESHWATER AQUACULTURE

Water Area Development:

Under Fish Farmers Development Agency (FFDA), National Fisheries Development Board (NFDB) and Rashtriya Krishi Vikas Yojana (RKVY) and Brackish Water Fisheries Development Agencies (BFDA) technical and logistic support is rendered to interested farmers irrespective of their economic status with an aim to augment fish production in the State. Financial assistance to farmer is provided under bank finance and projects are also 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) is 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. After introduction of "BLUE REVOLUTION" by the Government of India all the schemes were merged under one umbrella.

Blue Revolution: Blue Revolution, the Neel Kranti Mission has the vision to achieve economic prosperity of the country and the fishers and fish farmers as well as contribute towards food and nutritional security through full potential utilization of water resources for fisheries development in a sustainable manner, keeping in view the bio-security and environmental concerns. The Neel Kranti Mission, 2016 (NKM 16), being the year in which the Vision has been given by the Prime Minister will have multi-dimensional approach to all activities concerned with development of the fisheries sector as modern world class industry in India. It will focus on tapping the full production potential and enhance productivity substantially from aquaculture and fisheries resources, both inland and marine. Substantially increasing the share of Indian fisheries in the export area would be a key goal. It will ensure doubling the income of the fishers and fish farmers with inclusive participation of the socio-economically weaker sections and ensure sustainability with environment and bio-security.

OBJECTIVES:

- (i) To fully tap the total fish potential of the country both in the inland and the marine sector and triple the production by 2020
- (ii) To transform the fisheries sector as a modern industry with special focus on new technologies and processes
- (iii) To double the income of the fishers and fish farmers with special focus on increasing productivity and better marketing post harvest infrastructure including e-commerce and other technologies and global best innovations
- (iv) To ensure inclusive participation of the fishers and fish farmers in the income enhancement
- (v) To triple the export earnings by 2020 with focus on benefits flow to the fishers and fish farmers including through institutional mechanisms in the cooperative, producer companies and other structures
- (vi) To enhance food and nutritional security of the country

STRATEGY - CENTRAL SECTOR ASSISTANCE SCHEMES

The Ministry of Agriculture and Farmers Welfare, Department of Animal Husbandry, Dairying & Fisheries has accordingly restructured the scheme by merging all the ongoing schemes under an umbrella of Blue Revolution. The restructured scheme provides focused development and management of fisheries, covering inland fisheries, aquaculture, and marine fisheries including deep sea fishing, Mariculture and all activities undertaken by the National Fisheries Development Board (NFDB).

The restructured Plan Scheme on ***Blue Revolution: Integrated Development and Management of Fisheries*** has been approved at a total central outlay of Rs.3000 crore for implementation during a period of five years (2015-16 to 2019-20) with the following components:

- (i) National Fisheries Development Board (NFDB) and its activities,
- (ii) Development of Inland Fisheries and Aquaculture,
- (iii) Development of Marine Fisheries, Infrastructure and Post-Harvest Operations,
- (iv) Strengthening of Database & Geographical Information System of the Fisheries Sector,
- (v) Institutional Arrangement for Fisheries Sector

(vi) **Monitoring, Control and Surveillance (MCS) and other need-based Interventions**

(vii) **National Scheme of Welfare of Fishermen**

Under Blue Revolution targets have been communicated to all districts to take up different activities. 50% subsidy has been agreed for the states and the unit cost of all schemes has been increased by which the beneficiaries will be benefitted.

**MBY work order distribution photos 2015-16
of Koraput Block. 15 work orders are being distributed to fishermen
of
Koraput block where Hon'ble M.P Sri Jhinna Hikoka, Hon'ble MLA
Sri
Krushna Chandra Sagaria, PS Koraput Chair person and vice chair
person, ZP member, Vice President, ZP, Koraput sri Madhaba Khosla
are
among the PRI members present in this programme.**





Visit of Shri U.N Behera, IAS to fisheries Programms of Malakanigiri District . Shri B.P Sethi, IAS, Commissioner-cum-secretary was also present.

POND DEVELOPMENT PROGRAMME UNDER FFDA / NMPS/ NFDB

During the year 2015-16, 2600 ha. Water spread areas (FFDA, NMPS, NFDB, CAE & others) has been targeted for development against which 2048.14 ha has been achieved up to the end of 31/03/2016.

Sl. No.	District	No. blocks	FFDA		NMPS		NFDB		CAE	OTH ERS	TOTAL		% of ach.
			Target	Ach	Target	Ach	Target	Ach	Ach	Ach	Target	Ach	In %
1	Cuttack	14	50	50.25	8.00	10.89	2	0	0.82	0	60	61.96	103.27
2	Jagatsingpur	8	75	94.30	5.00	1.00	2	0	0	2.0	82	97.3	118.66
3	Kendrapara	9	75	46.72	15.00	0	2	0	0	19.6	92	66.41	72.18
4	Jaipur	10	50	34.48	10.00	1.62	2	0	0	20.4	62	56.52	91.16
5	Puri	11	200	186.78	30.00	15.75	5	0	0	0	235	5	86.19
6	Nayagarh	8	50	23.84	10.00	19.0	2	0	0	0	62	42.84	69.10

7	Khurdha	10	70	32.47	10.00	9.60	3	0	0	40	83	82.07	98.88
8	Balasore	12	200	202.27	30.00	24.86	3	0	0	0	233	227.13	97.48
9	Bhadrak	7	150	125.12	30.00	38.24	3	0	3.50	23.69	183	190.55	104.13
10	Mayurbhanja	26	80	55.94	50.00	13.40	2	0	7.20	39.8	132	123.25	93.37
11	Ganjam	22	90	38.75	30.00	15.50	32	32.0	0	0	152	86.25	56.74
12	Gajapati	7	10	26.85	40.00	25.46	1	0	0	0	51	52.31	102.57
13	Kandhamal	12	10	5.36	2.00	0	1	0	0	0	13	5.74	44.15
14	Kalahandi	13	60	66.57	10.00	8.00	1	0	0	0	71	74.58	105.04
15	Nuapara	5	50	10.64	50.00	12.70	1	0	0	0	101	23.44	23.21
16	Rayagada	11	100	13.52	8.00	5.30	20	20	0	0	128	52.08	40.69
17	Koraput	14	50	26.78	5.00	4.00	1	0	0	0	56	30.78	54.96
18	Newarangpur	10	50	46.13	3.00	2.20	1	0	0	0	54	48.33	89.50
19	Malkangiri	7	50	48.32	10.00	5.60	0	0	0	0	60	53.92	89.87
20	Keonjhar	13	50	27.96	60.00	128.59	2	0	0	0	112	156.55	139.78
21	Sundargarh	17	50	41.54	5.00	4.80	2	0	0	0	57	46.34	61.30
22	Angul	8	50	36.24	5.00	7.40	2	0	0	0	57	43.64	76.56
23	Deogarh	3	50	12.62	5.00	1.00	2	0	0	0	57	13.62	23.89
24	Dhenkanal	8	50	31.40	8.00	23.15	1	0	0	0	59	54.55	92.46
25	Sambalpur	9	50	21.77	5.00	3.00	1	0	0	0	56	24.77	44.23
26	Jharsuguda	5	50	32.50	36.00	17.53	1	0	0	0	87	50.03	57.51
27	Bargarh	12	50	39.92	5.00	2.00	1	0	0	0	56	41.9	74.82
28	Bolangir	14	50	32.67	5.00	5.70	1	0	0	0	56	38.37	68.52
29	Sonepur	6	50	6.94	5.00	3.36	2	0	0	0	57	10.3	18.07
30	Boudh	3	30	10.74	5.00	0.00	1	0	0	0	36	10.64	29.56
	Grand total	314	2000	1429.39	500.00	409.65	100	52	11.52	145.58	2600	2048.14	78.77

Pond Development Programme Under FFDA, 2016-17

During the year 2016-17, against a target of 2000 ha under FFDA, 838.25 ha has been achieved up to the end of 31.10.16.

Sl. No.	District	No. blocks	FFDA	
			Target	Ach
1	Cuttack	14	50.00	25.07
2	Jajpur	8	50.00	12.35
3	Jagatsingpur	9	75.00	23.72
4	Kendrapara	10	75.00	21.52
5	Puri	11	200.00	30.82
6	Khurdha	8	70.00	9.81
7	Nayagarh	10	50.00	9.33
8	Balasore	12	200.00	129.79
9	Bhadrak	7	150.00	55.30
10	Mayurbhanja	26	80.00	95.78
11	Ganjam	22	90.00	28.73
12	Gajapati	7	10.00	7.50
13	Kandhamal	12	10.00	4.88

14	Boudh	13	30.00	13.70
15	Kalahandi	5	60.00	46.32
16	Nuapara	11	50.00	18.50
17	Koraput	14	50.00	4.12
18	Nawarangpur	10	50.00	7.01
19	Malkanagiri	7	50.00	25.00
20	Rayagada	13	100.00	70.85
21	Sambalpur	17	50.00	13.03
22	Jharsuguda	8	50.00	7.10
23	Deogarh	3	50.00	16.20
24	Bargarh	8	50.00	42.42
25	Sundargarh	9	50.00	25.07
26	Bolangir	5	50.00	23.88
27	Sonepur	12	50.00	8.15
28	Keonjhar	14	50.00	14.27
29	Dhenkanal	6	50.00	20.60
30	Angul	3	50.00	27.43
	Grand total	314	2000	838.25

b) Development of Waterlogged 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-liftmen of the rural poor. The FFDAs arrange bank finance for development of waterlogged areas and provide subsidy as per Government of India norms/ guidelines. During 2016-17, around 05.00 ha have been given as target to Bhadrak, Balasore and Ganjam dist.

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) 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 daysemployment 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'

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

Release of subsidy:

Development of Inland Fisheries & Aquaculture:

World wide increasing demand of fish and fisheries products and fish being recognized as the source of cheap animal protein, aquaculture once a homestead activity has now transformed in to an organized farming activity. After introduction of top up subsidy under state plan and interest subvention expansion of new areas have been prioritized.

Subsidy under pond development programme is admissible to all categories of fish farmers for excavation and renovation of tanks with or without institutional finance under the CSP scheme "Development of Inland Fisheries & Aquaculture".

(Amt. Rs. in lakh)

Sl. No.	Name of the programme	2016-17 (Up to December'16)	
		Funds received	Expenditure incurred
1	FFDA	449.28	449.28
2	Blue Revolution	671.50	264.87
3	NMPS	550.00	550.00
4	Top up subsidy	1500.00	601.60
5	BFDA	130.96	98.22

7. Reservoir Fisheries:

These are open water bodies and highly suitable for capture based culture fisheries. The total available water area under reservoirs in the state is around 2, 00,379 hectares. For scientific management of such water bodies State Reservoir Fisheries Policy has been implemented in the State. Fishing rights of 138 reservoirs having Mean Water Spread Area (MWSA) of 40 Ha. And above have been vested with Fisheries & ARD Department. With successful implementation of State Reservoir Fisheries Policy and regular stocking of quality fingerlings, the production of reservoirs in the State has been increased significantly. Quality fingerlings are being stocked in selected reservoirs with financial support from National Fisheries Development Board (NFDB) and ST&SC Development Department and this has more than developed the [production of fish in these reservoirs. A few Cage Culture demonstration programmes have been initiated in some reservoirs of the State for augmenting additional fish production from reservoirs.

It is now widely accepted that reservoirs constitute one of the prime inland fisheries resources of Odisha. These manmade lakes offer ample scope for fish yield optimization through adoption of suitable management practices. The members of Primary Fishermen Co-operatives are engaged mostly in the fishing activity in reservoirs.

The total available reservoir water area in the State is around 2,00,379 hectares. During the year 2016-17, lease value collected from Societies as per the Odisha State Reservoir Fisheries Policy, 2012 is Rs. 40.90 lakh.

As per the said Policy fishing rights of 138 reservoirs having Mean Water Spread Area (MWSA) of 40 hectares and above have been vested with the Fisheries & ARD Department. Due to successful implementation of State Reservoir Fishery Policy and continuous stocking of fingerlings, production from reservoirs in the state have been increased significantly as reported by CIFRI, Barrackpore.

Reservoirs	Water area in ha.	Production per ha. before NFDB stocking	Production per ha. after NFDB stocking
Small reservoirs	40-1000 ha	93 kg./ha.	175 kg./ha.
Medium reservoirs	1001-5000 ha	46 kg./ha	100 kg./ha
Major reservoirs	5001 ha. and above	8 kg/ha.	33 kg/ha.

Infrastructure of Cage Culture

An amount of Rs.200.00 lakh was received during 2015-16 under the State Plan scheme "Infrastructure for Cage Culture" for installation of ten (10) battery of cages in ten(10) reservoirs i.e. Baghalati, Bhalughai, Soroda, Salia, Humari Tampara of Ganjam district , and Ramial in Keonjhar district ,Rengali-I, Rengali-II & Rengali-III in Angul district and Rengali-IV in Deogarh district. Each battery of cage will have 10 cage units of size 6m x 4mx 4m. Accordingly cage installation in 10 nos. of reservoirs is almost completed and shall be leased out to 10 nos. of entrepreneurs for taking pisciculture after signing of lease agreement and deposit of lease value. Again Rs.100.00 lakh has been sanctioned for cage culture in 5 nos. of reservoirs during 2016-17. As per suggestions received from Zonal DDFs & DFOs during half-yearly review meeting held on 16.11.16 , 5 nos. of reservoirs i.e. Jambhira & Kalo in Mayurbhanj district , Baghua in Ganjam district, Satiguda in Malkangiri district and Budhabudhiani in Nayagarh district has been selected for cage culture. Action is being taken to install cage battery in these 5 nos. of reservoirs and lease out them to private entrepreneur selected through EoI procedure for taking up cage culture on PPP mode.

8. WorldFish Interventions in Odisha

A special cell for functioning of WorldFish project activities has been set up at Directorate campus at Cuttack. One District Fisheries Officer has been assigned to function as Nodal Officer for WorldFish. 5 numbers of AFOs have been deployed to WorldFish Cell for facilitating implementation of project activities. WorldFish has engaged one project manager and seven consultants for planning, implementation of activities like carp-mola polyculture, reservoir fisheries development, GIS mapping of Inland water bodies, intensive carp aquaculture, quality fish seed production, production of Genetically Improved Farmed Tilapia (GIFT) and other activities in the state. Initially, WorldFish activities shall be taken up in 4 pilot districts Cuttack, Mayurbhanj, Kendrapara&

Balasore. 504 hectare of water area in 21 clusters of 14 blocks in 4 pilot districts has been identified for carp-mola polyculture. 14 number of reservoirs in Cuttack and Mayurbhanj district has been visited by WorldFish scientists reservoir wise action plan is being prepared for reservoir fisheries development. Special project for promotion of commercial cage culture in reservoirs is also being formulated with assistance of WorldFish. For better planning and management of reservoirs, GIS mapping of 14 nos. of reservoirs is being done with the help of GIS expert.

20 acre water area in Kausalyaganga has been earmarked for taking up WorldFish interventions. Broodstock pond in Kausalyaganga farm has been set up for supplying mola seed to fish farmers. For promotion of culture of GIFT tilapia, market survey has been initiated and accordingly the Nucleus Tilapia hatchery and multiplication centre of suitable capacity shall be established at Kausalyaganga Fish Farm. Action has been started for procuring GIFT from certified hatchery at RGCA. Similarly, for increasing productivity from carp aquaculture, Best Management Practices (BMP) is being promoted among farmers. Draft guideline for hatchery and seed certification is being formulated for ensuring the quality fish seed production in the state. Fisheries officials and entrepreneurs have visited successful projects implemented by WorldFish in Bangladesh for visualizing the fisheries development.

9. Fish Seed Production

Quality fish seed in adequate quantity is the primary requisite for development and expansion of aquaculture in the State. The Department of Fisheries is having 27 fish breeding farms and 89 rearing farms besides 87 fish seed farms in private sector wherefrom fish seed is produced to meet the demands of fish farmers. Government and Private Hatcheries together produced around 2,515 million of spawn. Tanks developed under Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) and captive nurseries developed at reservoir sites also produced fish seeds required in the State. Diversification of native minor carp and barbs species have also been taken of under R&D programme. The species are used for inter-cropping with Indian Major Carps and found to be very compatible and suitable even for sectional ponds. During the current year a total of quality fish seed of 21.83 Crores of in Govt. Farms and 50.59 Crores in Private Farms respectively have been produced and distributed to the fish farmers of the State.

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)

Year	Government	OPDC	Private	TOTAL
2011-12	2318.50	7642.75	16803.00	26761.25
2012-13	3037.00	11735.50	13904.00	28676.50
2013-14	3487.00	9680.00	14704.00	27871.00
2014-15	3802.50	9616.25	20635.00	33853.75

2015-16	3588.00	8062.50	15864.00	27514.50
2016-17	3596.50	7591.75	18347.00	29535.25

Fry Production in Odisha (in lakhs)

Year	Government	OPDC	PRIVATE	TOTAL
2011-12	994.49	1332.40	3813.86	6140.75
2012-13	738.85	2415.23	3865.28	7019.36
2013-14	1121.13	2388.27	3490.33	6999.73
2014-15	312.29	1172.41	4279.31	5764.01
2015-16	601.42	1612.309	5502.11	7715.839
2016-17	423.11	1484.06	5575.59	7782.76



Hon'ble Chief Minister visited Bramhagiri in Puri District



Workshop on Fisheries Equipments at Khurdha Presided above by the Collector Khurdha

10. STATUS OF GOVT.FISH FARM 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	
CUTTACK ZONE													
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	Transferre d 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	Allpingal	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
Total Cuttack Zone			Total	14	24.84	19	12.4	78	15.29	52.53	82.63	
PURI ZONE												
Puri	14	Brick field	OPDC	10	8	8	3	16	2.04	13.04	23.94	Under culture OPDC
	15	K.Gang	Deptt./NFDB	76	157.4	19	9	49	8.6	175	280	100 Ac.transfer ed to NFFBB for Brood Bank
	16	Nimapara	FFDA	0	0	3	1.05	4	0.6	1.65	3.27	Under culture
Khorda	17	Kiakani	Forest Dept.	0	0	0	0	0	0	0	38.945	Declared as Wild life sanctuary
	18	Lingipur	OPDC	0	0	0	0	0	0	0	6.35	Proposed for lease cancellatio n
	19	Balugaon	Deptt.	2	1.6	1	0.6	4	0.4	2.6	3.39	Undercultu re
	20	Laxmisagar	G.A.Deptt.	0	0	0	0	0	0	0	24.493	23.487 Ac. Occupied by GA Deptt. & 1.006 Ac. Under Fisheries Deptt.No fish farm activities
Nayagarh	21	Nayagarh	Leasee	0	0	0	0	6	0.9	0.9	1.92	Leased out
Total Puri Zone				88	167	31	13.65	79	12.54	193.19	382.308	

BALASORE ZONE												
Balasore	22	Dighirahania	Deptt.	6	6	7	4	14	2.42	12.42	26.5	Under culture
Bhadrak	23	Bhadrak	Rev. Deptt	0	0	0	0	0	0	0	0	Not existing
	24	Rahandia	OPDC	3	2.5	2	1.2	9	2.25	2.5	13.2	Under culture
	25	Bonth	Pvt. Ent.	2	5.5	2	1.5	5	1.2	5.5	11.79	Leased out
Mayurbhanj	26	Kathapal	OPDC	10	5.9	1	0.35	13	1.38	7.63	59.71	Under culture
	27	Sirsa	Deptt.	1	5	0	0	7	0.75	5.75	9.21	To be leased
	28	Betanati	Leased	0	0	0	0	8	1.7	1.7	4.5	Leased
	29	Udala	FFDA	1	3.47	1	0.4	10	1.95	4.87	9.55	To be leased
	30	Rairangpur	Leased	1	3.47	1	0.4	10	1	4.87	7.42	Leased
	31	Badadalima	Leased	1	5	0	0	11	1.9	6.9	11.12	Leaseed
	32	Karanjia	Leased	0	0	0	0	6	1.15	1.15	1.75	Leased out
	33	Badajore	FFDA	3	4	2	0.8	12	2	6.8	22.2	To be leased
	34	Amarda	Leaseed	1	22	0	0	12	1.3	23.3	53.37	Leased out
			Total Balasore Zone		29	62.84	16	8.65	117	19	83.39	230.32
KEONJHAR ZONE												
Sundargarh	35	Sadar	OPDC	3	3.19	0	0.00	16	2.08	5.27	12.78	OPDC
	36	Bishra	Leassed	0	0.00	1	0.64	10	1.05	1.69	5.39	Leased out
	37	Bonei	Leassed	0	0.00	1	0.16	7	0.59	0.75	4.60	Leased
	38	Tudelaga	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
Total Keonjhar Zone				8	7.69	6	2.88	90	12.33	21.95	61.29	
SAMBALPUR ZONE												
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
	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
Total Sambalpur Zone				27	49.36	25	8.50	191	31.18	88.86	226.44	
BOLANGIR ZONE												
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
Total Bolangir Zone				31	62.23	26	12.19	108	17.3	91.72	184.55	
ANUGUL ZONE												
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	Kamakshyana gar	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	Defaunct
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
Total Anugul Zone				28	60.9	11	4.32	96	24.48	75.14	111.06	
GANJAM ZONE												
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	Defaunct	1	0.62	1	0.41	6	1.02	2.05	4.161	Defaunct due to constructio n of Railway Over bridge
	77	Sagarebandha	Leased			4	1.55	16	3.85	5.40	7.217	Leased out
	78	Aska (Defunct)	DEFUNCT					8	1.42	1.42	4.940	Defaunct
	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	Defaunct
	Gajapati	81	Paralakhemundi	OPDC/FFDA	3	3.40	8	3.00	23	3.40	11.80	12.330
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
Total Ganjam Zone				19	22.19	27.00	11.31	146.00	28.43	64.73	158.19	
KALAHANDI ZONE												
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	Baladlamala	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
TOTAL				13	15.90	24	13.67	105	14.19	43.76		
Nuapada	92	Khariar	OPDC	5	6.50	5	1.60	12	2.25	11.60	24.31	OPDC
	93	Saipala	DERELICT	2	1.50	5	0.75	8	1.20	3.45	7.85	Defaunct
	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
Total Kalahandi Zone				35	41.9	65	32.79	276	39.9	116.24	149.82	
KORAPUT ZONE												

Koraput:	98	Joypure	Deptt. (R.D. activity)	4	4.97	6	4.82	39	7.78	17.57	22.750	RD ACTIVIT Y
	99	Kotpad	LEASE D					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 OPERATI ON
	102	Koilipari	LEASE D					10	3.07	3.07	4.000	LEASED OUT
	103	M.V. 79	DEFU NCT					11	0.72	0.72	1.500	DEFUNC T
	104	Kadamguda	DEFU NCT					5	2.00	2.00	3.000	DEFUNC T
	105	Venchapalli	DEFU NCT					7	0.78	0.08	1.700	DEFUNC T
Nabarangapur	106	Pujariguda	FFDA			3	3.00	10	5.00	8.00	12.000	FFDA
Total Koraput Zone				15	12.52	16	12.87	120	24.63	49.778	74.63	
GRAND TOTAL				294	511.47	242	119.6	1301	225.08	837.528	1661.241	

11. Rashtriya Krishi Vikash Yojana (RKVY)

Under Rashtriya Krishi Vikash Yojana (RKVY) programme, some new projects have been introduced during 2016-17 and some projects of 2015-16 are going on in Fisheries Sector of the State. The highlights of the new projects/ ongoing projects/ Schemes are given below:-

➤ **Development of tanks/ponds for intensive aquaculture under RKVY**

Under this Scheme, it has been planned to develop 400.00 ha. water area to enhance the fish production @ 5 M.T./ha./annum. Out of Rs.1750.00 lakh (project cost), Rs.1100.00 lakh has been released to different District Level Officers for the Scheme during 2016-17. Under the Scheme, unit cost for excavation of new tank will be Rs.7.00 lakh per ha. and input cost of Rs.1.50 lakh per ha. The maximum subsidy ceiling will be up to Rs.4,25,000/- per ha. Subsidy is admissible for development of maximum 2.00 ha. water area and minimum of 0.40 ha. water area for each farmer.

➤ **Comprehensive plan for development of Fisheries Sector in Nawarangpur District under RKVY**

Under this project, it has been planned to provide input subsidy for scientific pisciculture, establishment of fish seed hatchery, reservoir fisheries development through stocking of fingerlings, establishment of laboratory-cum-training center and provision of water testing kits etc. Out of Rs.449.00 lakh (project cost), Rs.200.00 lakh has been released to the concerned Project Implementing Officers for implementation of the project.

➤ **Comprehensive plan for development of Fisheries Sector in Malkangiri District under RKVY**

Likewise, District Plan for development of fisheries in Malkangiri District has been prepared with provision for modernization of Govt. fish farms, establishment of fish seed hatchery, renovation of captive nursery, supply of boat and net to active fishermen of reservoir/rivers, establishment of laboratory-cum-training center and testing kit units etc. with a project cost of Rs.146.50 lakh. Out of which Rs.100.00 lakh has been released to the project implementing Officers during 2016-17 for taking up the project works.

➤ **Development of the heritage Govt. fish farm, Angul under RKVY assistance**

Under this project, it has been planned to develop the Govt. fish farm, Angul with the components like ornamental fish culture demonstration unit, training hall, hostel, exhibition hall, aquarium, RCC nursery tanks, site peripheral development, renovation of stocking tank and nursery tank etc. with a project cost of Rs.645.00 lakh. Out of which Rs.100.00 lakh has been released to the Project Implementing Officer for taking up the project works.

➤ **Improvement to Existing Approach from Main Road to Fish Market at Bahabalpur in the District of Balasore under RKVY Grant**

Rs.100.00 lakh has been earmarked for the aforesaid project and released to the Executive Engineer, FED, Bhubaneswar for the project work and for which the tender work has been completed.

➤ Similarly, the projects like Assistance to the Fishermen for Livelihood Development (phase-II) with project cost of Rs.505.00 lakh, Proposal for Pilot Scale Cage Culture of high value fin fishes in the Chilika Lake through fishers living around the lake with the project cost of Rs.175.00 lakh and Proposal for enhancement of production capacity of Chandrabhaga Shrimp Hatchery, Konark, Puri under RKVY with the project cost of Rs.200.00 lakh have been planned to take up during 2016-17 and the project works will be started soon after receipt of funds from the Govt.

➤ **Assistance for net and boat to inland and riverine fishermen**

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 and boat is Rs.40,000/- with 50% subsidy maximum to Rs.20,000/-. During 2015-16 & 2016-17, Rs.244.00 lakh has been allotted to different District Level Officers for subsidy under the Scheme till date.

➤ **Assistance for fish marketing infrastructure to inland, marine and Chilika fishermen**

In order to help fish 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, motor cycle with ice box and auto rickshaw with ice box with subsidy of Rs.2000/-, Rs.7500/- and Rs.35,000/- respectively. Till

date, Rs.50.00 lakh has been allotted to different District Level Officers and against which 90 nos. of bicycle with ice box, 235 nos. moped with ice box and 1 no. of auto with ice box have been provided till date.

➤ **Pilot project for demonstration of intensive pisciculture in potential blocks of Odisha**

Under the Scheme, the unit cost for one ha. pond is Rs.2.00 lakh. The tanks should be of minimum 0.40 ha. and maximum 1.00 ha. size. 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 owner of the demonstration tank will bear 50 % of the input cost i.e. Rs.1.00 lakh per ha. from his own source/institutional finance and balance 50 % of input cost will be met from RKVY assistance. Against the target of 100 ha. water area in 100 nos. of potential blocks in Odisha for demonstration of intensive aquaculture under RKVY during 2015-16 & 2016-17, Rs.130.00 lakh has been allotted to different District Level Officers and 95.58 ha. has been developed till date.

➤ **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 in the form of fish feed, lime, probiotics and medicine etc. having minimum 1 acre water area. Whenever 1 acre water area is not available, 0.50 acre water area may be taken up for consideration. Against the target of 928.00 acre, 755.17 acre has been developed and Rs.110.00 lakh has been allotted to the District Level Officers under the Scheme till date.

➤ **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% (Rs.10,000/-) 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 909.59 acre area has been developed and funds to the tune of Rs.175.00 lakh has been released to the District Level Officers till date.

➤ **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 0.20 ha. water area under MGNREGS programme. Out of which Rs.15,000/- 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., 140 nos. cases have been achieved during 2015-16 & 2016-17 and an amount of Rs.21.00 lakh has been allotted towards subsidy under the Scheme.

12. Co-Operative Sector:

(1) Under Centrally sponsored Group Accident Insurance Scheme, 11,50,000 fishers of Odisha State have been provided insurance cover during the Insurance period of 2016-17 (10.12.16 to 09.12.17). Odisha State has been topping the lists of States and UTs interms of extending cover to highest nos of fishermen under the Scheme since 2008-09. The important feature of the scheme among others include Dog bite and Snake bite case. The premium amount of Rs.20.35 per fisher is shared by Govt of India and State Govt on a ratio of 50:50. The scheme provides cover for Rs.2 lakh in case of death /full permanent disability and Rs.1 lakh in case of partial permanent disability.

(2) A Central Society in the name of Chilika Fishermen Central Cooperative Society Ltd has been organized at Balugaon way back in 2010 for the sake of strengthening and stream lining the functioning of all PFCSs working under the administrative control of A.R.C.S (Financial Year.), Chilika Circle, Balugaon. In order to make the poor fishermen free from the clutches of money lenders, the Central Society has advanced soft loan to the tune of 5.90 crore to about 3710 fishermen of 53 PFCS over a period of time. That apart 5801 insulated Ice box have been distributed to Fishermen for hygienic handling of fish.

(3) Under State plan Scheme "Reactivation of Fisheries Cooperative Societies, assistance to FISHFED, the Apex Society in Fishery Cooperative Sector and 92 Primary Fishermen Cooperative Societies have been given over last few years. During 2016-17, a sum of Rs.120.00 lakh was given to FISHFED to carry out economic activities earmarked for them. FISHFED has already initiated actions to undertake activities like plying of

Specially Designed Mobile Vans with the facilities of freezer to store fish, Cooking platform, Water sink and a foldable service Counter (Fish on wheel/ Canteen Van) to serve hot, ready to fish recipes in Bhubaneswar, Cuttack and other tourist places of importance, installation of High Speed Diesel outlet at 13 selected Fish Landing Centres and LPG gas at Paradeep Port fishing harbour and its effects will be felt in the years to come.

(4) For providing quality fish in hygienic condition at reasonable price to the fish eaters of Bhubaneswar, three modern hygienic fish selling Kiosks have started functioning under the brand name "Chilika Fresh". Besides that, an MOU has been signed with M/s Falcon Exports Pvt Ltd, Bhubaneswar for establishment of another 26 Modern Hygienic Fish Kiosks, under the same brand name "Chilika Fresh" on BOOT basis. This is expected to be commissioned during the current year. Similarly about 100 fish selling hygienic Retail outlets will be setup in various strategic locations of the State for which initiatives have been taken up by the District Fisheries Officers to acquire land. Another Kiosks under the brand name "Hirakud Fresh" at Sambalpur is nearing completion.

13. BRACKISHWATER AQUACULTURE:

a) Brackishwater area development:

It has been decided 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 18773.21 hectares have been developed for prawn culture by the end of December, 2016 since inception, which includes 612.79 ha. during 2016-17. Training is imparted to Brackishwater Fish farmers regularly to improve production level in this sector. During 2016-17 training has been imparted to 60 such farmers. Subsidy to the tune of Rs. 229.92 lakhs has been released for 1048 tanks with development of 680.42 ha water area during 2015-16. Subsidy to the tune of Rs. 200.00 lakh has been released during 2016-17.

b) Chilika Lake: Chilika Lake is the brackish water lake of India with estuarine character which is highly productive and its ecosystem supports fisheries. Chilika Lake is with average water spread area of 906 sq. kms. in summer and 1165 sq. kms. in monsoon. There is island area of 223 sq.

kms. 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 28 landing centres in which about 12235.26 MT of fish/prawn/crab is produced during the year 2015-16. The brackish water 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, 7421 cases comprising an area of 6067.13 ha. have been sponsored to Coastal Aquaculture Authority, Chennai by different District Level Committees (DLC) and State Level Committee (SLC). Out of which, 6662 cases with an area of 5606.02 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 impelled 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 916 farms having an area of 935.00 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 indentified for development of Brackish water shrimp culture on long term lease in future. Govt. in Revenue & Disaster Management Department, vide their letter no. 16538 dt. 3.6.2015 and letter no.23292 dated 13.8.15 have laid down principles for long-term lease of Brackish water Govt. land coming under the jurisdiction of the district by utilizing the services of Revenue and Fisheries Department. All available lands identified for Brackish water culture shall be leased out for 15 years.

Till date 616 nos of applications received from beneficiaries measuring an area of 513.36 Ha has been sent to respective Tahasildars for verification. 181 Nos 113.21Ha) of cases have been approved by DLCs to give on Long Term Lease.

f) Infrastructure facility to Brackish water 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 Brackish water 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.

Dedicated Electricity Feeder

Total no s pole erected till date 4685 nos. out of 8527 .11 KV line length drawn 19.53 km. Nood feeder energized (trunk part) 3 no s inchudi, langaleswar, jagapur.





MoU for Rs.2000 crores was signed with fourteen different Entrepreneurs on the occasion of Make in Odisha Conclave at Bhubaneswar

“Promotion of Vannamei Seed supply to the farmers”

Government of Odisha is looking forward to enhance annual export to the tune of Rs.20,000.00 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 on their own lands or in lease lands. The farmers are eligible to get subsidy only once limiting to one hectare culture area. The same farmer will not be entitled for further subsidy on cost of seeds in the coming 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 quantity of seed stocked with a ceiling of or Rs. 90,000.00 per Ha.

Export Promotion Cell:

Government of Odisha is targeting annual Seafood exports to increase annual Sea food exports to 20,000.00 crores one export promotion cell is functions in the Directorate of Fisheries ,Cuttack one expert/ specialist has been inducted as Consultant for promoting Brackish water aquaculture & export of Marine products of Odisha in Co-ordination with state Government of India/ MPEDA/ Export Promotion agencies.

Present of Rs 2000 Cr, In Order to promote the exports, an Export Promotion Cell has been created, which is 1st of its kind in India and now functioning at Cuttack in the Directorate of Fisheries, Odisha. A specialist/ eminent personality has been engaged as Consultant to the Cell. The aim of the Cell is to increase the production in both horizontally and vertically.

14. 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:

The scheme provides assistance to the BPL category of sea going fishermen with financial assistance of Rs.1800 on 50:50 basis with Central & State share, to inculcate the habit of savings amongst the fishers during lean. The beneficiary, contributes Rs.900/ @ Rs.100/month for the purposes and total Rs.2700.00 per annum is distributed to the fishers during 3 lean months of the year. 6194 nos. fishers were covered against the target of 11,000 during the year 2015-16. In the current financial year 2016-17, 9935 beneficiaries have been covered against the target of 9500 under the scheme by contributing their monthly savings.

3. Matshyajibi Basagraha Yojana:

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:

More than 22,000 registered boats are engaged for marine fishing out of which 11000 nos. are traditional crafts which need to be motorised. To enable traditional fishermen to access to the potential fishing zone for more catch & profit 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. 871 traditional crafts have been motorized during 2015-16. During 2016-17, 716 beneficiaries have been provided with engine against the target of 950 by Jan' 2017.

The achievement under the above welfare schemes are as follows:

Sl.	Name of the scheme	Achievement (till end of January, 2017)
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 10.12.2016 to 9.12.2017)
2	Savings-cum-Relief Scheme	9935 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	716 traditional crafts have been motorized

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 processes of Registration & Renewal are taken up on-line as Single-Window system.

9) Safety of Fishermen at Sea:

The scheme envisages to providing safety equipments like GPS, Communication equipment, life buoy life jacket, DAT etc to the sea going fishers with 100% assistance. 1255 Distress Alert Transmitters (DAT) have been distributed to the selected marine fishermen of the state from since 2009. The security implements will help Fishermen during the time of distress in the sea while fishing. Rs.95.00 lakhs has been received during 2016-17 on 50:50 basis against the administrative approval of Rs. 190.00 lakhs.

10) Development of Post Harvest Infrastructure:

One modern hygienic fish market has been constructed at Giri Market, Berhampur through the Berhampur Municipal Corporation. Government of India ACA Grants of Rs.55.00 lakhs has been utilized for the purpose.

11) Establishment of Fishing Harbour and Fish Landing Centre:

The work of modernization & up-gradation of Dhamara Fishing Harbour in Bhadrak District under TCP of FAO has been completed. 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. 912.50 lakhs.

12) Assistance to the States for Development of Export Infrastructure (ASIDE):

Under the Central Sector Scheme a Pre Processing Centre 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.

13) Enumeration of Coastal Fishers for Issue of Biometric Identity Cards for security purposes:

A total of 2,65,779 cards have been received from the Electronics Corporation of India (ECIL), Hyderabad, out of which 2,57,980 cards have been distributed to fishers. The cards received in 3rd Phase could not be distributed due to ongoing Panchayat Election in the state.

14) On-Line Registration of Fishing Vessels & Colour Coding:

By end of January, 2017 total 11038 country crafts, 8835 motorized crafts and 1744 mechanized crafts have been registered on-line. 19375 nos. of vessels have been colour coded

15) 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. The Phase -I has been completed with a subsidy assistance of Rs.75,000/boat & Rs.25,000/net given under RKVY & 5580 no. of beneficiaries have been covered under the scheme. The project period for Phase-II is 2 years i.e. 2016-17 & 2017-18 with a subsidy assistance of Rs.40,000/boat & Rs.10,000/net shared on 50:50 basis under RKVY & State Plan Scheme. Rs.253.00 lakhs has been released under the state plan scheme by the Govt. in Dec'2016 in the Supplementary Budget. The Guidelines along with the target has been communicated to the districts which shall be implemented after the ensuing Panchayat Election. Rs.48.63 crores of has been utilized in the first phase.

16) Paradeep Fishing Harbour (Website: 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.

17) Dhamara Fishing Harbour (Website: 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).

18) 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 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 Millions)	Value in million US\$	Value in million Euro
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	34,767.00	20,691.72	342.27	311.49
2015-16	35,612.00	17,918.10	270.18	237.41

15. Integrated Coastal Zone Management Project, Odisha (ICZMP) "Alternative Livelihood Option for Fisher Folk"

The Project aims at providing best alternative livelihood support to 7531 fishermen family in 80 fishing villages in the priority 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 for 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 January, 2017 a total of 600 SHGs have been assisted with an amount of Rs. 1870.21 Lakhs for development of 211 Pisciculture units, 99 Hygienic Dry Fish preparation unit, 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. 2666.29 Lakhs.

16. 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. Four lakh SIM cards have been distributed to the fishermen and fish farmers in four years. 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.

“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.

17. 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 publishes 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: 98 Fisheries programmes have been broadcasted by the All India Radio and 102 Doordarsan programmes have been telecasted during 2016-17. 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 Developmental news programmes. Special fisheries programmes and Phone-in programmes have been telecasted through “Krushi Darshan” programme of Doordarsan and AIR.

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, Adibasi Mela at Bhubaneswar, and Historic Baliyatra at Cuttack. 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 alongwith State Agricultural Fair.



Celebration of Fish Farmers Day: Fish farmers Day was celebrated on 10th July in all the 30 districts with farmers meet. The day was celebrated to remember first hypophysation 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.

World Fisheries Day: World Fisheries Day was celebrated on 21.11.2016 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. Nilamber Kilaka Dy. Director of Fisheries attended the function.

18. ODISHA STATE FISHERMEN'S COOPERATIVE FEDERATION LTD (FISHFED):

The Apex Cooperative Federation was registered under Odisha Cooperative Societies Act, 1962, vide Registration. No.1 CTC (Financial Year)/ 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 P F C Ss 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, 2016 for 97 Cooperative rules. 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 service of the President/ Vice President/ Board of Directors is honorary, except the Managing Director. The term of Board is 5 years.

PRESENT ACTIVITIES:

1. FISHFED has established three nos. of hygienic fish selling Kiosks and running successfully at Siripur, CRP Square & Saheed Nagar for fish lovers of Bhubaneswar city. Annually fish, prawn, crab & fisheries products amounting Rs. 1.00 Core are being procured and sold hygienically.
2. Supplying fish to consumers at their door step through online.
3. 26 nos. of more kiosks to be set-up through PPP mode inside BMC area, out of which five nos. of Kiosks to be inaugurated very shortly.
4. Another Chilika Fresh namely "Hirakud Fresh" with financial assistance from WODC to be inaugurated next month at Sambalpur Town.
5. Process going on for the setting up 100 Hygienic Fish selling outlets at important places throughout the State.
6. An MoU with IOCL has been made to set up 13 nos. of Diesel (HSD) filling station in the Coastal Districts to supply fuel to fishermen at consumer price.
7. Step to establish LPG outlets in side Paradeep, Dhamara & Bahabalpur Fishing Harbour to provide LPG Gas at subsidized rate to the Fishermen.

8. 10 nos. of well equipped ready to eat hygienic Canteen Van namely **"Fish on Wheel"** are to be procured & run very shortly.
9. Proposal submitted for the establishment of two Ice Plant-cum-Cold Storages under Blue Revolution scheme of Govt. of India.
10. Applied for the empanelment of FISHFED as supplier of Aerators to OFMRDC under Govt. subsidized Scheme.
11. 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 Chilika Sairats, with 10% facilitation charges over & above the annual lease value of the Sairats; fixed by the Collectors from lessee PFCSs.
12. Looking after 19 nos. FH/FLC & Jetties handed over to FISHFED by Directorate of Fisheries.
13. Imparting training to PFCS members for their Re-activation.
14. FISHFED has planned to provide infrastructure facilities to the PFCS of Chilika & Reservoir area.
15. It has been decided at Govt. level to build one Office-cum-Commercial complex on and around the unutilized land & defunct ice plant of Matsya Sadan building namely **"FISH TOWER"**.
16. FISHFED observed 63rd All India Cooperative Week celebration from 14th to 20th November, 2016 successfully at Bhanjakala Mandap, Bhubaneswar.

PHOTOGRAPHS



Inauguration of Chilika Fresh by Hon'ble CM



Signing of MoU to set up 26 nos. of Chilika Fresh Outlets with M/S Falcon Marine Exports Ltd, Bhubaneswar



View of Saheed Nagar Chilika Fresh



Signing of MoU with IOCL to setup Diesel Outlets

19. Odisha Pisciculture Development Corporation (OPDC) was incorporated in the year 1998 with taken over of two erstwhile corporations i.e. OMCAD & OFSDC. The corporation is having its Head Quarter at Bhubaneswar It's main function are as follows:

- (1) To produce quality fish seed & supply to the Fish farmers throughout the State of Odisha both in Govt. & private sector.
- (2) To sale quality Fuel & Lubricants to the Fishermen having Trawlers and Motorized crafts and surface transports.
- (3) To produce & sale the quality Nylon & HDPE Fishnet webbing for fish farmers and Fishermen. (NET Manufacturing unit of OPDC has been awarded ISO-9001/2008 standard on July 2009)

(4)

Target & achievements of OPDC for last 3 years

1. Production of Quality Fish Seed (Spawn) and sale

Sl. No.	Year	Target (nos in Crore)	Achievement (nos in Crore)	Revenue generated (Rs. In Crore)	% Achievement
1	2014-15	80.00	61.12		76.4
		39.40	35.04		88.93
2	2015-16	58.00	52.15		89.91
		44.30	28.09		63.40
3	2016-17 as on 27 th Jan, 2016	70.00	50.28	2.26	71.82
		44.30	25.64		57.88

Target & achievements of OPDC for last 3 years

1. Production of Quality Fish seed (Fry) and Sale

Sl. No.	Year	Target (nos in Crore)	Achievement (nos in Crore)	Revenue generated (Rs. In Crore)	% Achievement
1	2014-15	28.39	19.79	3.36	69.4
2	2015-16	26.36	15.76	3.53	60.0
3	2016-17 (as on 27 th Jan, 2016)	26.27	18.13	2.83	69.01

Target & achievements of OPDC for last 3 years

2. Production and Sale of Fish Net Webbing

Sl. No.	Year	Target in MT	Achievement in MT	Revenue generated (Rs. in Crore)	% Achievement
1	2014-15	70.00	48.40	1.93	69.0
2	2015-16	75.00	43.00	1.93	57.0
3	2016-17 as on 31.12.16	70.00	21.35	1.13	30.5

Target & achievements of OPDC for last 3 years

3. Sale of HSD, MS & Lubricants

Sl. No.	Year	Target in KL	Achievement in KL	Revenue generated (Rs. in Crore)	% Achievement
1	2014-15	16,426	10,713	65.34	65.2
2	2015-16	17,120	10,747	60.10	63.0
3	2016-17 (as on 31.12.16)	12,634	8,658	53.00	68.5

20. FISHERIES STATISTICS

FISH PRODUCTION IN ODISHA (IN MT)

Year	Freshwater	Brackish water	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	336216	40307	376523	144755	521278
2016-17(P) upto Dec. 2016	291015	35635	326650	121027	447677

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	289666	22761	4245	19544	336216
2016-17(P) upto Dec. 2016	250723	19701	3674	16916	291015

**YEAR-WISE RESOURCE-WISE
BRACKISH 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	23343	4729	12235	40307
2016-17(P) upto Dec. 2016	20637	4181	10817	35635

FISH PRODUCTION FROM CHILIKA LAKE (IN MT)

YEAR	FISH	SHRIMP/PRAWN	CRAB	TOTAL
2011-12	7456.03	6413.91	358.26	14228.20
2012-13	7114.30	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	7271.95	4564.54	398.77	12235.26
2016-17(P) upto Dec. 2016	5981.89	3754.78	328.03	10064.69

YEAR-WISE DISTRICT WISE MARINE FISH PRODUCTION (IN MT)

Year	Balasore	Bhadrak	Jagatsinghpur	Kendra pra	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	39327	12006	34503	9059	37979	11881	144754
2016-17(P) upto Dec. 2016	33806	10607	29968	8360	28933	9353	121027

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	29479	1769.45
2014-15	32468	1963.85
2015-16(P)	35612	1791.81

ITEM-WISE EXPORTS OF FISH PRODUCTS FROM ODISHA										
(Q. Quantity in Tons / V. Value in lakhs / \$ USD Million.)										
Item Name		2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16(P)
FROZEN SHRIMP	Q	11097	11072	12275	14954	16949	19698	24852	28889	32515
	V	33518.2	33917.2	40214	56809.2	76259.56	85756.05	171227.25	192295.12	174685.91
	\$	83.74	75.55	86	124.92	163.20	158.97	283.26	318.19	270.57
FROZEN FISH	Q	2420	2521	1693	3403	3414	2646	3768	2659	2248
	V	1020.9	1321.47	1133.07	2714.08	2904.11	2442.99	5003.87	3131.62	3117.35
	\$	2.58	2.79	2.42	6.05	5.96	4.55	8.15	5.11	4.77
FR CUTTLE FISH	Q	158	305	266	802	665	800	715	613	667
	V	198.63	276.77	245.99	582.31	617.59	703.17	544.24	695.65	855.64
	\$	0.5	0.62	0.5	1.25	1.29	1.31	0.90	1.14	1.31
FR SQUID	Q	62	47	37	326	209	0	110	38	95
	V	33.52	24.67	27.75	210.4	197.90	0.00	79.73	25.88	111.24
	\$	0.08	0.05	0.06	0.47	0.41	0.00	0.13	0.04	0.17
LIVE ITEMS	Q		3		0	0	0	0	0	0
	V		2.89		0.83	0.00	0.00	0.00	0.00	0.00
	\$		0.01		0	0.00	0.00	0.00	0.00	0.00
CHILLED ITEMS	Q	29	89	18		0	0	6	48	65
	V	12.03	102.01	51.25		0.00	0.00	29.48	205.39	361.77
	\$	0.03	0.23	0.11		0.00	0.00	0.05	0.33	0.56
DRIED ITEM	Q	0				0	0	0	0	0
	V	0				0.00	0.00	0.00	0.00	0.00
	\$	0				0.00	0.00	0.00	0.00	0.00

OTHERS	Q	394	98	301	239	74	52	30	21	21
	V	368.52	143.50	434.82	344.22	113.29	73.92	60.74	31.25	49.05
	\$	0.93	0.31	0.94	0.76	0.25	0.14	0.10	0.05	0.07
GRAND TOTAL	Q	14161.00	14135.00	14588.00	19725.00					
						21311	23196	29479	32468	35612
	V	35151.81	35788.49	42106.12	60641.00				19638	179180.
						80092.44	88976.12	176945.31	4.92	96
	\$	87.85	79.56	90.03	133.45				324.8	
						171.10	164.97	292.58	7	277.45

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
2015-16(P)	445510	34714	29266	11788	521278

IMPORT OF FRESHWATER FISH FROM NEIGHBOURING STATES

Year	Qty. (in MT)
2010-11	43399
2011-12	59280
2012-13	21217
2013-14	26501
2014-15	38118
2015-16(P)	46275

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
2015-16(P)	12.24