



Annual Activity Report 2012-13



Department of Fisheries and
Animal Resources Development
Government of Odisha

FISHERIES SECTOR
2012-13

Introduction:

Odisha is one of the maritime state of India situated at 17°.49' and 22°.54' North Latitude, 81°.29' East Longitude on eastern coast of India, spread over an area of 1,56,707 Sq. Kms. having beguiling charm, rural tranquility and 480 Kms, of coastline dotted with some spectacular virgin beaches, lakes and lagoons, having excellent scope for development of inland, brackish water and marine fisheries. The strength of the fisheries sector in Odisha lies in the large under/un-utilized fresh water and brackish water resources with proper utilization of these resources, the fish production from capture and capture-cum-culture fisheries could be substantially augmented to meet the domestic market demands, create employment and income generating opportunities for the rural poor and enhance their food and livelihood security.

RESOURCES & POTENTIALITY

INLAND FISHERIES SECTOR

Resources & Potentiality of Freshwater aquaculture			
Resources	Water area (in lakh ha.)	Total production potentiality (in lakh MT)	Present production level (2011-12) (in lakh MT)
Culture Fisheries (Tanks & Ponds)	1.21	3.63	2.11
Culture based capture fisheries (Reservoirs)	2.00	0.20	0.14
Capture fisheries (Lakes/ swamps/ bheels)	1.80	0.36	0.02
Rivers & canals	1.71	0.14	0.11
Total	6.72	4.33	2.38

BRACKISHWATER FISHERIES SECTOR

Resources	Water Area (Lakh ha)	Total Production Potentiality (Lakh MT)	Present production level (2011-12) (in lakh MT)
Area suitable for brackishwater tanks	0.330	0.33	0.12
Back Waters	0.081	0.02	-
Lakes (Chilika)	0.790	0.08	0.14
Estuaries	2.980	0.24	0.04
TOTAL	4.181	0.67	0.30

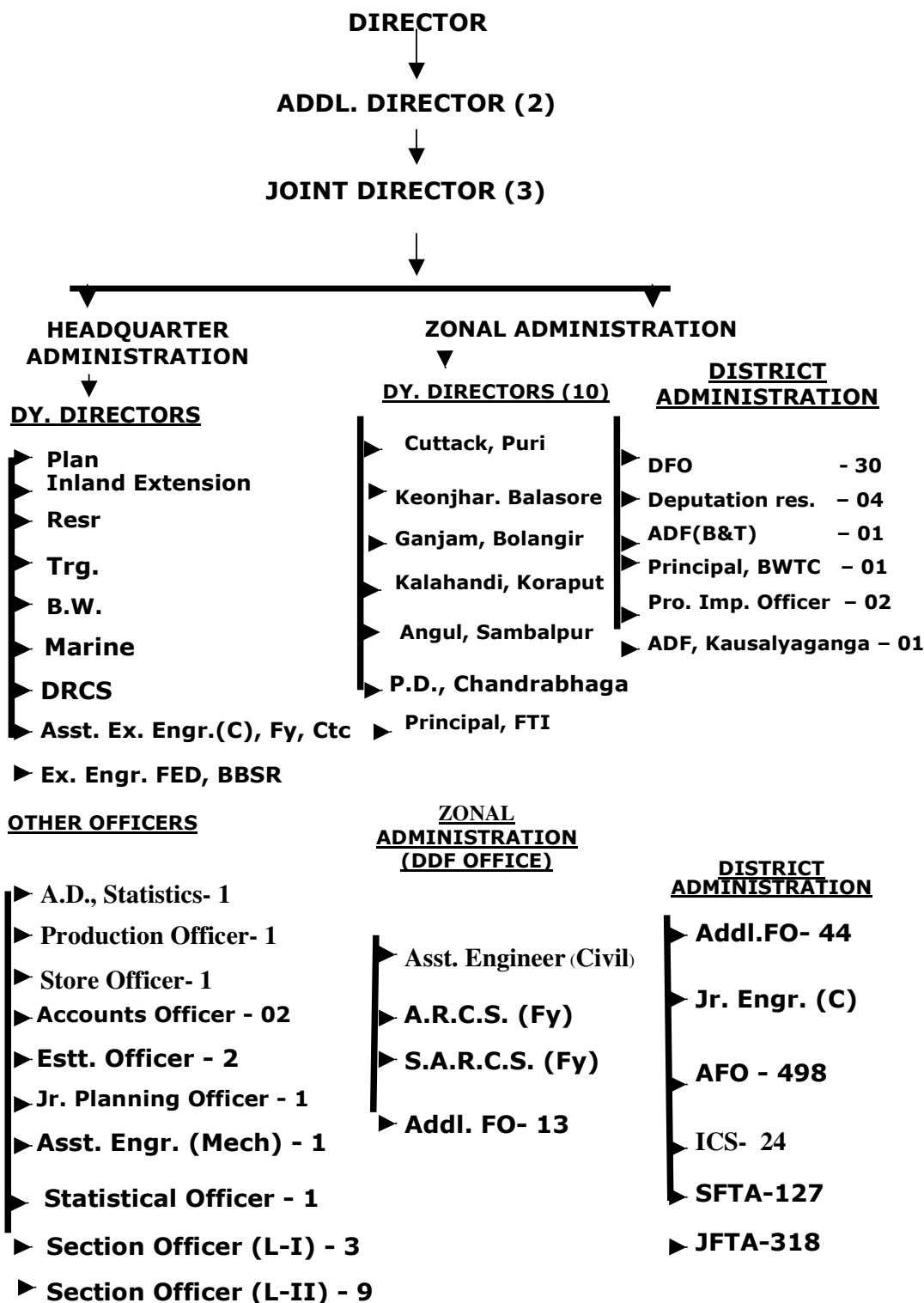
MARINE SECTOR

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	480
Continental Shelf Area in different Depth Zones	
Depth Zones (in Mtrs.)	Area (in Kms.)
00 - 20	6820
21 - 50	8650
51 - 100	4810
101 - 200	3550
Total	23830

Maximum Sustainable Yield (MSY) (Continental Shelf Area)	
RESOURCES	MSY (MT)
Prawn	9,036.00
Pomfret	9,602.00
Hilsa	9,319.00
Polynemids	4,749.00
Clupeids	7,421.00
Sciaenids	34,857.00
Catfishes	10,276.00
Elasmobranches	12,839.00
Others	12,839.00
Total	1,60,931.00

OTHER FISHERY RESOURCES		
FISH SEED HATCHERY:		
Freshwater :	Unit (No.)	Fry Capacity (in million)
Government (R&D)	05	489.00
Government hatchery	20	121.70
Government rearing farm	59	
OPDC	05	210.00
Private	97	520.00
Freshwater prawn seed hatchery		
Government	03	80
Private	07	125
SHRIMPSEED HATCHERY		
Brackishwater:	No.	Capacity (in million)
Government	2	75
Private	12	292.5
ICE PLANT AND COLD STORAGE		
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	8	
3. Landing Platform	15	
4. Other Landing Centre	36	
Total	63	
5. Fish Drying Platform	10	3269
CRAFTS (Marine) 2011-12: (In Nos.)		
A. Mechanised		
Trawler	1485	
Gillnetter	591	
B. Motorised		
	7093	
C. Country Crafts		
	7011	
TOTAL		
	16180	
(I) MARINE PRODUCTS EXPORT DEVELOPMENT AGENCY 2009-10: (Registered under MPEDA)		
	(Nos.)	Capacity (in MT)
1. Seafood Exporters from Odisha	21	
2. Processing Plants	20	459.50
3. Storage Premises	21	
4. Peeling Sheds	20	215.82
5. Ice Plant	2	58.00

ORGANOGRAM OF FISHERIES DEPARTMENT:



OBJECTIVE

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

ONGOING GOVERNMENT OF INDIA SCHEMES & PROGRAMMES:

The following GOI schemes and programmes are being operated under the Fisheries Department:

Centrally Sponsored Plan Schemes:

- ✓ Development of Inland Fisheries & Aquaculture (FFDA) (75:25)
- ✓ Motorization of Traditional Crafts (50:50)
- ✓ Welfare Schemes for Fishermen:
 - Construction of low cost house – NWFF (50:50)
 - Saving-cum-relief Scheme (50:50)
 - Accident Insurance for fishermen (50:50)
- ✓ Development of Fishing Harbours & Jetties (50:50)
- ✓ Fishermen Rebate on HSD Oil (80:20)
- ✓ Fisheries Training & Extension (80:20)
- ✓ Safety of fishermen at sea (75:25)

Central Plan:

- Strengthening of Database & Geographical Information System of Fisheries Sector
- Implementation of OMFRA

State Plan:

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

Activities:

1. Intensive Aquaculture of Ponds and Tanks
2. Reservoir Fisheries
3. Infrastructure : Fishing Harbors and Fish Landing Centers
4. Domestic Marketing
5. Human Resource Development Programmes
6. Other Activities

Others:

1. **MGNREGS** – Mahatma Gandhi National Rural Employment Generation Scheme
2. **RKVY**- Rastryia Krishi Vikas Yojana
 - i) **NMPS** – National Mission for Protein Supplement
 - Intensive Aquaculture in tanks and ponds
 - Reservoir Development through Cage culture
 - ii) **MCC** – Matstya Credit Card
3. **MUY**- Matshyajibi Unnayan Yojana (containing 14 sub components)
4. **ASIDE** –Assistance to the State for Infrastructure Development
5. **ACA** – Additional Central Assistance
6. **ICZMP** – Integrated Coastal Zone Management Project
7. **OCTMP** - Odisha Community Tank Management Project

PLAN PROVISION, SANCTION AND EXPENDITURE (Rs. In Lakhs)

Year	STATE PLAN			CENTRAL PLAN			CENTRAL SPONSORED PLAN		
	Prov.	Sanc.	Expr.	Prov.	Sanc.	Expr.	Prov.	Sanc.	Expr.
2007-08	1866.95	748.74	729.09	98.00	-	-	1654.33	158.00	158.00
2008-09	2113.59	1347.92	1344.21	68.00	-	-	2016.16	497.61	497.61
2009-10	2166.00	1165.39	1154.02	128.41	59.76	59.76	2417.83	445.01	445.01
2010-11	2439.55	1175.96	1186.36	236.48	-	-	3475.21	482.19	482.19
2011-12	2958.00	1474.56	1469.83	602.92			2926.91	1165.20	1165.20
2012-13 (p)	3367.44	963.28	890.05	120.28	-	-	4221.89	612.85	612.85

NON-PLAN BUDGET (Rs. in lakh)

YEAR	PROVISION	EXPENDITURE
2007-08	2229	2157
2008-09	3430	3016
2009-10	3863	3583
2010-11	4162	3931
2011-12	3819	3703
2012-13	4675	3473

ANNUAL ACTIVITIES 2012-13

INLAND SECTOR

1. FRESHWATER AQUACULTURE

Water Area Development:

a) Fish Farmers Development Agency (FFDA)

Beneficiaries, irrespective of their economic status are being given technical and logistic support through FFDA's for promotion of pisciculture in inland areas. The FFDA's assist in access to Institutional Finance for excavation of new ponds as well as renovation of existing ponds. The main aim of the FFDA's is to augment fish production of the State. The FFDA's also provide subsidy assistance to fish farmers under Bank Finance as well as under own source development.

A total of 30 FFDA's are functioning, one in each district. By the end of Jan'2013, 60976.65 hectares of tank area have been developed and 52821 fish farmers have been trained through these agencies to boost up production of fish. Tank area of 326.52 ha has been developed as on February 2013.

b) Development of Water Logged Area:

The scheme is designed for bringing barren water logged areas into pisciculture fold helping for sustainable utilization of the land, increase the fish production of the state, and create ample scope for generation of employment opportunities for the unemployed youths and economic up-liftment of the rural poor. The FFDA will arrange bank finance for the development of water logged areas and provide subsidy as per Government of India guidelines. During 2012-13, about 8.98 ha have been renovated and developed for pisciculture as on February'13.

c) Under National Fisheries Development Board assistance (NFDB)

85.00 ha water area have been developed with NFDB assistance under both bank finance and without bank finance during 2012-13 as on February'13.

d) Under National Mission for Protein Supplement (NMPS)

141.65 Ha of water area have been developed under NMPS with both Bank finance and without Bank finance as on Feb. during 2012-13.

e) Under MGNREGS

Under MGNREGS 541 tanks have been completed by Feb. during 2012-13 and total numbers of tanks completed since inception is 2253.

f) Short Term Loan:

During 2012-13, 699 no. of cases covering water area of 412.41 ha. amounting to Rs.153.33 lakhs have been sanctioned as on January'13.

CAPACITY BUILDING

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 target and achievement are furnished below.

Year	FFDA		SEP		NFDB	
	Target	Ach	Target	Ach	Target	Ach
2012-13	0	0	1400	1062	1000	1000

Training & Extension		Skill development		Total	
Target	Ach	Target	Ach	Target	Ach
600	600	1600	75	4600	2737

Release of subsidy

Release of subsidy under Development of Inland Fisheries & Aquaculture

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

(Amt. in lakhs)

Sl. No.	Name of the programme	2012-13 as on January'13	
		Funds received	Expenditure incurred
1	FFDA	266.67	140.00
2	Waterlogged	14.27	2.00
3	NFDB	78.28	50.00
4	NMPS	306.00	200.00
5	Inland capture	8.40	4.00

RESERVOIR FISHERIES DEVELOPMENT

a) Reservoir Sector:

The total available reservoir water area in the State is around 2,00,379 hectares. During 2012-13, the production from reservoir is 9276 MT as on December'12. For stocking of seed in reservoirs for enhancement of fish production, funds have been received from NFDB and SC/ST Development Department. The seed stocking of the reservoirs from different sources are as follows:

Sl. No.	Name of the programme	2012-13 as on January 2013	
		Funds received (Rs in lakhs)	Fingerlings stocked (lakhs)
1	NFDB	154.03	136.45
2	SC/ST Development Deptt.	117.68	99.94

The lease value collected from the society as per the State Reservoir Fisheries Policy 2012 is Rs 45.97 lakh during the year 2012-13 as on February'13

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, the production of 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	95 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.

b) Exposure visit of farmers / officials under NFDB assistance

20 officials of state govt. and 20 fish farmers of the state were on exposure visit to Nellore, Andhra Pradesh during 2011-12. Construction of 53.30 ha. of captive nursery has been completed for which Rs.194 lakhs have been received from NFDB, Hyderabad.

PRODUCTION OF SPAWN AND FRY:

For expansion of aquaculture in the state, fish seed is the primary requisite. Department of Fisheries is having 27 nos. of breeding farm and 57 nos. of rearing farm to cater to the needs of the fish seed demand by the fish farmers. Out of 57 nos. of rearing farms, 32 farms have been leased out to private entrepreneurs. Further, 97 no of farms have also been developed in private sector for production of fish seed. Tanks developed under MGNREGS are also being encouraged for seed production. Besides all above, captive nurseries are developed near the reservoir site to produce quality seeds and for stocking them in reservoirs. The spawn and fry production of the state in the Government as well as private sector for last five years is as follows:

SPAWN PRODUCTION (in Lakh no.)

Year	GOVT.	OPDC	FISHFED	PRIVATE	TOTAL
2008-09	7281.50	5552.00		16745.00	29578.50
2009-10	8302.00	6226.00		18254.00	32782.00
2010-11	2592.95 (From 5 R&D farms)	8677.00 (including 3640.00 from deptl farms handed over to OPDC)		18242	29511.95
2011-12	2315.50	7642.75		16803.00	26761.25
2012-13 (p)	3037.00	8678.50		17000.00	28715.50

FRY PRODUCTION (in lakh no.)

YEAR	GOVT.	OPDC	FISHFED	PRIVATE	TOTAL
2008-09	1574.49	1281.67	-	3281.85	6138.01
2009-10	1991.31	1716.93	-	3591.73	7299.97
2010-11	323.54 (From 5 R&D farms)	1938.10 Including 855.51 from deptl farms handed over to OPDC)	-	3533.44	5795.08
2011-12	465.49	1861.39	-	3813.86	6140.74
2012-13 (p)	724.22	2431.39	-	3629.00	6784.61

BRACKISHWATER AQUACULTURE:**a) Brackishwater area development through BFDA:**

Brackish Water Fisheries Development Agencies (BFDA) have been set up in seven coastal districts of the State, which works for development of brackish water fish farming with special emphasis on shrimp culture. The total brackish water area of the State is around 4,17,537 hectares including shrimp culture area, estuaries, brackish water lake & back waters out of which the BFDA have identified 32,587 hectares as suitable for prawn culture. These agencies have developed about 16691.77 hectares for prawn culture by the end of 2012-13 since inception including 304.82 ha during 2012-13 (as on January 2013). 12493 MT brackish water shrimp was produced and 108 farmers have been trained by end of January 2013. This year an amount of Rs. 193.88 lakhs have been released as subsidy till January 2013.

b) Chilika Lake:

This 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 population 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 9866 MT of fish/prawn/crab produced during the year 2012-13 (as on January 2013). The brackish water fish/shrimp production from different sources in the state is given below.

YEARWISE RESOURCEWISE BRACKISHWATER FISH PRODUCTION(MT)

Year	Brackish Water culture shrimp	Chilika Lake	Estuaries	Total production
2008-09	11659	10702	3971	26332
2009-10	10979	11955	2574	25508
2010-11	11629	13065	3056	27750
2011-12	11976	14228	3858	30062
2012-13 (as on January 2013)	12493	9866	4025	26384

c) Coastal Aquaculture Authority (CAA):

The C.A.A. issues Certificate of Registration in Form-II. The application for renewal is to be made in Form-III to the Authority and the period of renewal is 5 (five years). The fee for renewal is same as meant for Registration.

The person carrying on Coastal Aquaculture without registration shall be 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.

In the mean time, 4824 no of cases comprising an area of 4466.86 ha. have already been sponsored to Coastal Aquaculture Authority by different District Level Committees and State Level Committee. Out of which 4651 cases with an area of 4326.92 ha. have already been Registered by Coastal Aquaculture Authority by end of January'13.

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 essential to avoid dependence on single species i.e. shrimp (*p.monodon*). Thus the shrimp farmers are now interested to take up *L.vannamei* culture in the state.

e) Identification of suitable Govt. land for brackish water area development

About 24031 ha. suitable Govt. land has been identified for development of Brackishwater shrimp culture for long term lease in future. Revenue & Disaster Management Department vide letter no. 38800 dt. 27.8.12 laid down principle for long-term lease of

brackishwater Govt. land coming under the jurisdiction of the district by utilizing the service of Revenue and Fisheries Department. All available lands identified for brackishwater culture will be leased for 15 years.

MARINE SECTOR:

1) WELFARE SCHEMES:

Sl. No.	Name of the scheme	Achievement (till end of February 2013)
1	Group Accident Insurance	10 lakhs of fishermen have been insured in the state and Rs.1.45 crores have been deposited towards insurance premium
2	Saving-cum-Relief	9375 nos. of beneficiaries covered with Rs.186 lakhs of Govt. share granted.
3	Development of model fisherman village	479 nos. of low cost houses have been allotted with Rs.239.50 lakhs of grant
4	Motorisation of Traditional craft	562 nos. of traditional crafts have been motorized and subsidy of Rs.138 lakhs have been released

2) Implementation of Marine Fishing Regulation Act: The Odisha Marine Fisheries Regulation Act is being implemented in the State to safeguard the territorial waters of the state. Registration, renewal & licensing of fishing crafts along with conservation of turtle species are being taken up.

3) Safety of Fishermen at Sea: 600 nos. of Distress Alert Transmitter (DAT) have been distributed to the selected marine fishermen of the state at a cost of Rs.62.00 lakhs.

4) Development of Post Harvest Infrastructure: One modern hygienic fish market is under construction at Giri Market, Berhampur through the Berhampur Municipal Corporation. Rs.55 lakhs of ACA Grant is under utilization for the purpose.

5) Establishment of Fishing Harbour and Fish Landing Centre:

The work of modernization and upgradation of Dhamara Fishing Harbour under TCP of FAO is under progress. Rs. 733.33 lakhs have been received as CSP grant and the up to date utilization is Rs. 640 lakhs.

6) ASIDE: Under the Central Sector Scheme “**Assistance to the States for Development of export infrastructure**”, an amount of

Rs.4.70 crores has been sanctioned for setting-up of a pre-processing plant at Dhamara. Rs.1.00 crore has been received and the work is under progress. Rs.1.80 crores have also been received to take-up the work of repair of damaged bridge and construction of approach road to Balaramgadi (Chandipur) FLC. The work is under progress.

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

In the exigencies of coastal security 246000 of coastal fishers are enumerated to be issued with Biometric Identity Cards. 156262 no. of cards have been received from the Electronics Corporation of India (ECIL), Hyderabad, out of which 140000 nos have been distributed to the fishers.

8) On-Line Registration of Fishing Vessels:

By end of February 2013, 1479 nos. Small crafts, 575 nos. of Gill-netters, 3360 nos. of motorised crafts and 3229 nos. of country crafts have been registered on-line.

MASTYAJIBI UNNAYANA YOJANA (MUY):

The MUY 2011-12 was declared by Hon.ble Chief Minister, Odisha on 9.12.2011 to provide social security and livelihood support to the fishermen community of Odisha. Total 14 nos. of proposal have been covered under the scheme out of which five no of proposals have been covered under RKVY for 2011-12.

Sl. No.	Name of the proposal	Achievement
1	Special PDS for fishermen affected by the olive ridley sea turtle conservation for marine fishermen	Olive Ridley Conservation affected 10146 Fishermen families have been authenticated for issuance of Special PDS RORC Ration Cards. The rice at Re1/- per kg. shall be provided to the affected families through out the year.
2	Replacement of wooden country craft with FRP boat for marine fishermen	200 country boats operated in coastal waters are replaced by FRP boat.
3	Motorisation of country craft for marine fishermen	562 Traditional crafts have been motorized
4	Assistance for fish marketing infrastructure for fishermen:	1000 units of ice box with cycle/ moped/ auto have been provided to fishers
5	Assistance for net and boat for inland fishermen	738 units of net & boat have been provided to reservoir based fishermen
6	Promotion of cage culture in reservoirs	9 units of cages are being introduced in different reservoirs of the state
7	Group Accident Insurance scheme for fishermen (GAIS)	10 lakh active fishers were covered under GAIS and the State has been awarded with Gold medal for ranking 1st in the Nation.
8	“BASUNDHARA” for fishermen	148 homeless fishermen have been identified and Revenue Department have been moved for provision of Home stead land.
9	“MO KUDIA” scheme for fishermen	590 Fishermen have been issued work orders.
10	NETRAJYOTI scheme for fishermen	The assistance is being provided to fishermen from OSTF through CDMOs at District level
11	Financial assistance for fatal disease for fishermen	The assistance is being provided to fishermen from OSTF through CDMOs at District level
12	Award to meritorious children of fishermen community	1658 children benefited in the scheme for undergoing higher education
13	Financial assistance to women SHGs of marine fishermen community	305 numbers of fisherwomen SHGs have been identified and provided with revolving fund of Rs.5000 each.
14	Sea weed culture as an alternative livelihood for marine fishermen	Demonstration of Sea weed culture has been taken up by Centre for Environmental Studies at Sahebnala & Sundhinala in Ganjam district.

OTHER PROGRAMMES:

1. Integrated Coastal Zone Management Project, Odisha (ICZMP)

“ALTERNATIVE LIVELIHOOD OPTIONS FOR FISHER FOLK”

The Project aims at providing best alternative livelihood support to fishermen and local communities living in the project area. The activities

envisaged are activities such as composite fish culture (IMC), small scale hatchery, fish seed rearing, crab culture, scampi culture, sea bass, value addition of fishery products/hygienic fish drying yard, diary/Poultry and other livelihood activities, so as to make them less dependent on fishing and thereby, reducing fishing pressure on the coastal zone particularly during the breeding and spawning and during Olive Ridely's congregation and nesting season. The project also aims to build the capacity of the local community to adopt the nature based & heritage tourism at lake Chilika & Tampara and at Bhitarkanika, to promote mangrove plantation through community contract.

2. Rastriya Krishi Vikash Yojana (RKVY):

Sl. No.	Name of the Project	Project Cost	Funds released (Rs in Lakh)
1	Development of approach Road of Chandrabhaga Hatchery, Konark, Dist: Puri	196.00	196.00
2	Replacement of brooders and management of fish seed farms of Department and OPDC in three years	441.92	154.00
	Matsyajibi Unnayan Yojana		
3	Replacement of wooden country craft with FRP boat for Marine fishermen	300.00	300.00
4	Assistance for fish marketing infrastructure for both marine, inland and Chilika fishermen	53.00	53.00
5	Assistance for net and boat for inland fishermen	100.00	100.00
6	Demonstration of cage culture in reservoirs for inland fishermen	50.00	50.00
7	Sea weed culture as an alternate livelihood for marine fishermen.	50.00	0.00
	Total	1190.92	853.00

3. Introduction of "Mastya Credit Card" Under RKVY

Total 237 nos. of Mastya Credit Card have been issued by different Co-operative Banks covering an area of 47.40 ha. and Rs.71.10 lakhs have been financed.

FISHERY CO-OPERATIVE SECTOR:

The apex Society FISHFED has been provided with revolving fund of Rs. 40.00 Lakh for hygienic and live fish marketing at Bhubaneswar at the initial stage and is proposed to expand to other cities in future. Similarly 32 PFCS has been provided with a revival package of revolving fund to the tune of Rs. 60.00 Lakh.

PUBLICITY IN FISHERIES:

Information on various developments and activities taken up in the department should reach to the unreached. Our 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: Four issues of Oriya 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 books/technical manual and regularly publish advertisement on various developmental schemes and sending weekly technical guidelines to the farmers through Agro met Division of O.U.A.T for wide spread of technical know-how among the farmers as per the season.

All India Radio & Doordarsan programmes: 157 Fisheries programmes have been broadcasted by the All India Radio and 132 Doordarsan programmes has been telecasted during 2012-13.

Production of Video Programme & Documentary Films: Many success stories have been produced and telecasted through “Sunara Odisha” through Developmental news programmes. Three documentary CDs have been prepared on fisheries activities during this year.

GRAMSAT , ITP Programme & Video Conferencing: The live interactive training programme under GRAMSAT is being telecasted bi-monthly from ORSAC STUDIO, Bhubaneswar by the Department and total 5 such programmes have been conducted. Similarly review of departmental activities has been conducted by five Video Conferencing.

Mela and Fair: Various exhibitions, workshops, awareness programme, and Buyers Sellers Meet at Block levels, District level and

State level usually organized to demonstrate different activities of the department. Department has participated in State Level Krushi Mahotsav, Adibasi Mela, Historic Baliyatra at Cuttack, Golden Jubilee Celebration of OUAT, (9th Entrepreneur's meet and Aqua-Aquaria-2013 at Vijayawada, Andhra Pradesh alongwith districts exhibitions.

FISHERIES STATISTICS

FISH PRODUCTION IN ODISHA (IN MT)

Year	Freshwater	Brackishwater	Total Inland	Marine	Grand Total
2008-09	213003	26332	239335	135487	374822
2009-10	215803	25508	241311	129332	370643
2010-11	224956	27750	252706	133479	386185
2011-12	237470	30062	267532	114296	381828
2012-13 (December'12)	160441	26384	186824	79123	265947

YEAR-WISE RESOURCE-WISE FRESHWATER FISH PRODUCTION (IN MT)

Year	Tanks/ ponds	Reservoirs	Lakes/Swamps/Bheels	Rivers/Canals	Total
2008-09	185404	12527	1599	13473	213003
2009-10	190372	12326	1853	11252	215803
2010-11	197589	14608	1651	11108	224956
2011-12	211189	13730	1945	10606	237470
2012-13 (December'12)	142685	9276	1314	7166	160441

YEAR-WISE RESOURCE-WISE FISH PRODUCTION FROM BRACKISH WATER SECTOR (IN MT)

Year	Culture shrimp	Estuaries	Chilika	Total
2008-09	11659	3971	10702	26332
2009-10	10979	2514	11955	25508
2010-11	11629	3056	13065	27750
2011-12	11976	3858	14228	30062
2012-13(December'12)	12493	4025	9866	26384

FISH PRODUCTION FROM CHILIKA LAKE (IN MT)

YEAR	FISH	SHRIMP/PRAWN	CRAB	TOTAL
2008-09	6534.85	3929.68	237.50	10702.03
2009-10	7892.98	3851.49	210.89	11955.36
2010-11	7736.54	5043.18	285.90	13065.62
2011-12	7456.03	6413.91	358.26	14228.20
2012-13 (December'12)	5656.56	3940.49	269.42	9866.42

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

YEAR	BALASORE	BHADRAK	J.S.PUR	K.APARA	PURI	GANJAM	TOTAL
2008-09	35916	12310	34388	7363	34325	11185	135487
2009-10	35998	12811	33012	4798	31431	11282	129332
2010-11	35183	12631	35656	6853	31880	11276	133479
2011-12	27338	9773	28675	6339	31000	11171	114296
2012-13 (December'12)	18925	6765	19851	4388	21460	7733	79123

EXPORT OF MARINE PRODUCTS FROM ODISHA TO FOREIGN COUNTRIES

YEAR	QUANTITY (IN MT)	VALUE (Rs. in crores)
2007-08	14161	351.52
2008-09	14135	357.88
2009-10	14588	421.06
2010-11	19725	606.41
2011-12	21078	792.76

IMPORT OF FRESHWATER FISH FROM NEIGHBOURING STATES

Year	Import of freshwater fish	
	Qty. (in MT)	Value (Rs. in lakh)
2007-08	47047	10984.65
2008-09	170425	1876.20
2009-10	92065	3608.70
2010-11	43399	1457.60
2011-12	139652	8896.09

YEAR-WISE ANNUAL PER-CAPITA CONSUMPTION OF FISH

Year	Annual per-capita consumption (in Kg)
2007-08	9.29
2008-09	13.27
2009-10	10.86
2010-11	9.42
2011-12	10.14

ARD SECTOR

2012-13

ANIMAL RESOURCES DEVELOPMENT SECTOR

1.0 Introduction

Livestock rearing is one of the most important economic activity in the rural areas of the country providing supplementary income for most of the families dependent on agriculture. Apart from providing a subsidiary income to the families, rearing of Livestock such as cattle, buffaloes, sheep, goats, pigs, poultry etc. is a source of nutrition in the form of milk, eggs and meat. Owing to conducive climate and topography, Animal Husbandry Sector have played prominent socio-economic role in Odisha. It has been found that in the time of exigencies like drought and other natural calamities, it is the livestock, which comes to the rescue of the vast sections of rural population. As the ownership of livestock is more evenly distributed with landless labourers, small and marginal farmers, the progress in this sector will result in a more balanced development of the rural economy.

The Government of India has been supplementing efforts of the State Governments in the development of animal husbandry, dairying and fisheries sectors and providing assistance to the State Governments for control of animal diseases, scientific management and up gradation of genetic resources, increasing availability of nutritious feed and fodder, sustainable development of processing and marketing facilities and enhancement of production and profitability of livestock and fisheries enterprises.

Odisha is endowed with a large population of livestock. It ranks 8th among Indian States in egg production, 9th in meat production and 14th in terms of milk production (2010-11). Agriculture plays a dominant role in the economy of Orissa with a contribution of nearly 28% of Net State Domestic Product (NSDP). Next to Agriculture, Animal Husbandry is the most important economic activity in the rural areas. Though Odisha accommodates nearly five percent of the total bovine stock of India, its total contribution to NSDP is significant. The Animal Husbandry sector contributes more than 30% to the Net State Domestic Product of Agriculture.

The state has an estimated population of about 41.94 million as per 2011 Census or 3.47% of the population of India. Approximately 85% of the population is rural. The population of Odisha has increased by about 1.4% per annum over the past 10 years compared to 2.1% for India as a whole. Total population is expected to reach 47 million by 2020. Home based animal husbandry units are a major support system for the majority of the rural poor who are either landless or are small and marginal farmers with un-irrigated land.

The activities of the Animal Husbandry Sector have been oriented towards health of livestock and increased production of milk, meat and eggs and to provide adequate bullock power for agricultural operations.. The schemes of the Animal Husbandry Sector have been formulated in pursuance to the well-laid National policies to improve the Livestock production, to fight protein hunger and to improve nutritional

standards of human population and also provide technical support for the maintenance of livestock and improvement of livestock breeds. Thus F&ARD Department has been rendering the services to all the sections of people, in particular weaker sections of society and play a vital role in the rural development by generating additional source of income and employment, by protecting their valuable livestock.

1.1 Financial Resources 2012-13

The financial resources is broadly divided into three categories.

- 2403 Animal Husbandry
- 2404 Dairy Development
- 4403 Capital Outlay

Table-1: 2403-A.H- Animal Husbandry

(Rs.in lakhs)

S.No	Resource Head	Budget Estimates Including Supplementary	Amount Released	Expenditure
1	NON-PLAN	18799.76	18799.76	15815.88
2	STATE-PLAN	3818.12	3469.28	2599.91
3	CENTAL PLAN	1561.70	828.48	733.22
4	CENTRALLY SPONSORED PLAN	1381.00	406.33	223.23
	TOTAL	25560.58	23503.85	18639.02

Table-2: 2404-Dairy Development

(Rs.in lakhs)

S.No	Resource Head	Budget Estimates Including Supplementary	Amount Released	Expenditure
1	NON-PLAN	84.84	84	64.29
2	STATE-PLAN	500.00	500.00	301.94
3	CENTAL PLAN	86.49	77	77.00
	TOTAL	671.29	661.84	443.23

Table -3: 4403-Capital Outlay Budget**(Rs.in lakhs)**

Sl.No	Item	Budget Estimates Including Supplementary	Amount Released	Expenditure
1	CAPITAL OUTLAY	2738.00	2338.17	2338.17

1.2 Vision, Mission & Goal

VISION 2020: "To excel as a holistic support system by providing, securing and facilitating effective and efficient services to become self sufficient/ surplus in milk, egg and meat by enhancing Livestock productivity along with helping the poor to secure sustainable livelihood through livestock development and management while working in close coordination and partnership with allied institutions".

MISSION:

- To make Animal Resources Development an engine of growth of the rural economy of Odisha, providing income and livelihood opportunities to the people.
- To make dairying a viable livelihood option for small, marginal farmers and landless persons by strengthening all forward and backward linkages.
- To enable poor farmers to improve the productivity of animals like sheep, goat and pig.
- To make backyard poultry a popular and viable subsidiary farming activity in rural area
- Achieve self sufficiency/ surplus in milk, meat and egg production
- Enhance per capita availability of milk, eggs, and meat including poultry meat.
- Enhance availability of feed and fodder for economic dairy farming.
- Provide efficient veterinary services at the door step of the farmers.

GOALS:

- Create employment opportunity for 5 lakh farmers in ARD Sector within 10 years.
- Increase milk production from 1.5 million MT to 3 million MT in the next five years and 4.8 million MT by 2020.
- Enhance sale of milk by OMFED from 1 to 1.5 million litres per day in the next 5 years and 2 million MT by 2020.

- Increase Meat production to 110 TMT per annum by 2020.
- Increase egg production from 42 lakhs to 100 lakhs eggs per day by 2020.
- Increase poultry meat production from 70 TMT to 100 TMT by 2020.
- Fodder production 200 lakh tons per annum by 2020.

1.3 Institutional Mechanism

There are 540 veterinary hospitals/ dispensaries, 2939 livestock aid centres in the state to provide veterinary services. The Central Clinics of Orissa Veterinary College has the facilities for outdoor treatment, doorstep health and artificial insemination services on payment.

Table - 4: Departmental Infrastructure

<i>Institution</i>	<i>Number</i>
Veterinary Dispensary (VD)	540
Livestock Aid Centre (LAC)	2939
Frozen Semen Artificial Insemination Centres (VD + LAC)	540+4569
Clinical Investigation Laboratory, State Veterinary	5
District Diagnostic Laboratory	30
Orissa Biological Products Institute	2
Department Training Centres	7
Livestock Breeding Farms	11
Poultry Breeding Farms	11
Fodder Farms	20
Sheep , Goat breeding farms	2
Goat Farms	6

1.4 Supply of Livestock Outputs:

Livestock sector outputs like milk, meat, eggs has enhanced appreciably. The milk production has increased from 995 TMT during 2003-04 to 1718 TMT in 2011-12. Similarly, meat and egg production has also increased from 45 TMT to 76 TMT and 931 million to 2301 million respectively in the same period. The year wise production and per capita availability of milk, egg and meat is given in Table-6.

Table - 6 : Year-wise Production and Per Capita Availability of Milk, Meat and Eggs

Year	Production of milk (thousand MT)	Per capita availability of milk (gms/day)	Production of animal meat (in thousand MT)	Per capita availability of meat (Kg/annum)	Production of eggs (in millions)	Per capita availability of eggs nos/annum)
2003-04	995.08	72	44.89	1.218	931.06	25
2004-05	1282.76	94	50.52	1.358	1215.96	33
2005-06	1342.30	98	52.04	1.385	1278.70	34
2006-07	1431	103	55	1.45	1425	38
2007-08	1620	115	58	1.51	1549	40
2008-09	1598	112	62	1.58	1993	51
2009-10	1651	109	69	1.67	2319	56
2010-11	1670.	109	74	1.76	2357	56
2011-12	1718	112	76	1.8	2301	55
2012-13 (Upto Jan)	1506		65		1539	

1.5 Major Activities taken up under various Plan Schemes during Year 2012-13

In consonance with the strategy outlined in the Long Term Perspective Plan as many as eight new State Plan Schemes and two Centrally Sponsored Plan Schemes have been introduced since 2010-11. The objective of these schemes is to emphasize on improving the livestock service delivery mechanism for a sustained growth of ARD sector.

The major interventions undertaken during the Year are as follows.

- ❖ The Odisha Biological Product Institute producing different vaccine of livestock and poultry against various contagious diseases is under the process of modernizations for its conversion to a Good Manufacturing Practices (GMP) compatible unit under RIDF assistance.
- ❖ Govt. in F&ARD Department has signed MOU with BAIF Development Research Foundation for integrated livestock development in our State through implementation of the "Kalyani Project". The Project already under implementation in our State attend the dairy development activities in 10 districts along with fodder development, Comprehensive Goat development

activities in 5 districts as well as Technology Knowledge & strategic Partnership with BAIF.

Similarly, ST & SC development , Minorities and Backward Classes Welfare Department has collaborated with JK trust for providing door step livestock breeding services.

- ❖ As per the policy decision of the Govt., Gram Panchayats having no Livestock Aid Centre is to be provided with one LAC each. Accordingly from 2010-11 to 2012-13, there is a provision to open 900 new LAC. To set up 792 LACs funds have already placed with BDOs.
- ❖ Conservation and improvement of threatened indigenous identified cattle and buffalo breeds of the state were taken up.
- ❖ The fodder seed production farm functioning at 5 locations of the state namely at Tarbod, Panchmahal, Randapalli and Chipilima are being strengthened in first phase for production of planting material. The other existing fodder farms will be strengthened in phased manner.
- ❖ Keeping in view of the inadequate availability of medicines and other consumables at the field level veterinary service institutions, attempts have been made for providing essential medicines at the grass root level veterinary service institutions. (Veterinary Dispensary & Livestock Aid Centers) for curative treatment of livestock. Similarly general Animal Health Camps are being organised in identified blocks of the State. The deworming of small animals is being taken up exclusively.
- ❖ Assisting the farmers for utilisation of surplus crop residues for reducing the cost of production and preservation of seasonal excess fodder for the lean period.
- ❖ Awareness campaign and buyer- seller meet have been organised to educate the farmers to practise modern and scientific methods for enhancing the productivity.
- ❖ Strengthening of disease surveillance activities for control and containment of the contagious disease's of animals having economic and zoonotic importance like Bird Flu, Anthrax etc.
- ❖ Construction of four nos of CDVO's office buildings, 8 SDVO office upgradation were taken up.
- ❖ Repair works of 39 Veterinary Dispensaries and 168 LACs were taken up.
- ❖ 50 VD repair and 220 LAC construction with a funds of Rs. 20.20 Crore through RD Department.

- ❖ Capacity building of Animal Husbandry Departmental staff and farmers were taken up at district level and state level in order to derive adequate output for furthering the process of improvement in Animal Resources Development sector.
- ❖ Sample survey on estimation of production of major livestock products like milk, meat, egg and wool were conducted in 900 villages of the state by the statistical enumerators engaged under the scheme.
- ❖ Exposure visit for 60 Veterinary professionals were organized to acquire advanced technology adopted in other States.
- ❖ Similarly 10 nos of poultry breeding farms functioning in the State were strengthened to produce low input technology chicks suitable for backyard poultry farming.
- ❖ Setting up of 38 Chick Mother Units under Central Plan Scheme "Rural Backyard Poultry Development" ensured additional income to the 3500 rural farmers along with increased availability of animal protein for them.
- ❖ National Animal Disease Reporting System (NADRS) have been implemented by GOI in all Block Head quarter VDs of the State for Disease Surveillance & Monitoring.
- ❖ By the end of January, 13, 158.51 lakh doses of different veterinary biological were produced in our State.
- ❖ Besides 27.24 lakh doses of PPR vaccines, 33 lakh doses of FMD vaccines and 6.44 lakh doses of Goat Pox vaccines were procured from outside state and supplied to field institutions for carrying out preventive vaccination as these vaccines are not produced in our state.
- ❖ Frozen Semen Bank, Cuttack have produced 5.84 lakh semen straws by January, 2013 to be used for artificial insemination.
- ❖ Frozen semen artificial insemination (FSAI) inputs like Liquid Nitrogen, were supplied to 6000 nos of FSAI, centers functioning in the state.
- ❖ Under RKVY all the blocks of KBK Districts, Phulbani, Gajapati & any six tribal blocks of Mayurbhanj and Keonjhar totaling 105 MVUs are in operational for providing doorstep services in 20,520 remote villages.
- ❖ 7,251 Animal Health Camps have been organized covering every GP.
- ❖ Under cross bred female calf rearing programme, twenty thousand CB Female calves have been assisted through RKVY Programme.

2.0 Ongoing Programmes of the Department :

2.1 : Dairy Development

The Department has taken steps to implement cross breeding programme in order to cover more breedable cattle and buffalo under organised breeding to create one lakh cross bred female calves at the farmer's house. The artificial insemination service is being rendered through a network of 2991 Departmental AI

centers at the door step of the farmers. During the year 2012-13 (upto Jan, 13) coverage of breedable population under organized breeding increased to 26%. Special attention was given for quality frozen semen for insemination purpose. There is steady increase in Artificial Insemination since last few years. The AI in Cattle & Buffalo increased to 10.10 lakhs during 2012-13 (upto Jan, 13) which is 75% of the proportionate target. During the last Livestock Census (2007), it was observed that the crossbred adult bovine female population has increased to eight lakhs from around five lakhs in 2003. During the year 2012-13 (Upto Jan, 13) estimated 4.01 lakh progenies were born.

For genetic maintenance and further improvement of existing CB stock of the State, CB Bull production programme has been initiated. Elite cows are selected through Field Performance Recording and were inseminated with high pedigree semen procured from NDDB. The male calves born out of Artificial Insemination will be procured as future donors at Sperm Station.

The Frozen Semen Bank (FSB), Cuttack is the only semen producing station of the State, supplying semen to all the 30 Districts. The institution has got ISO 9001:2008 certifications and awarded with 'B' Grade by the Central Monitoring Unit of GOI. The Frozen Semen Bank, Cuttack was strengthened and modernized under RKVY assistance for production of quality frozen semen.

Presently, 30 Jersey, 18 crossbred, 14 Red Sindhi & 12 Haryana donating breeding bulls maintained at FSB, Cuttack. Total frozen semen doses produced at FSB, Cuttack during the year 2012-13 (upto Jan,2013) is 5.84 lakh.

During the year 2012-13, 40 nos. Vets have been deputed in 2 batches to different leading organizations like NDRI, Karnal and IVRI, Izatnagar, Bareilly to undergo training and experience upon modern practices on Animal Breeding Management and Nutrition.

The Orissa Livestock Resources Development Society (OLRDS) as State Implementing Agency is spearheading livestock breeding activities and ensuring timely and meaningful implementation of National Project for Cattle & Buffalo Breeding" (NPCBB) in the State of Orissa with the objectives to boost up rural economy and reduce the rising trend of unemployment situation through livestock production especially Dairying.

The modest service charges collected from the farmers towards artificial insemination is deposited at OLRDS to strengthen the economic viability of the Society by utilizing the amount towards Procurement of Liquid Nitrogen, Procurement of Semen Straw & Empty Semen Straw, Procurement of AI Sheath, Organization of Calf Rally, Awarding best AI performer and best farmer.

Table-6: District-wise Performance of A.I. for the year 2012-13

Sl. No.	Name of the District	Annual AI Target for 2012-13	Proportionate AI Target upto Jan-13	Achievement up to Jan-2013	Calf Born	Percentage of AI Achievement
1	Angul	53878	43102	30008	11710	70
2	Bolangir	58333	46666	37747	10482	81
3	Balasore	95453	76362	64585	21350	85
4	Baragarh	88882	71106	60353	30620	85
5	Bhadrak	68939	55151	38742	13430	70
6	Boudh	23333	18666	13222	3205	71
7	Cuttack	159089	127271	99562	45954	78
8	Deogarh	15909	12727	6701	2415	53
9	Dhenkanal	48787	39030	28480	11225	73
10	Gajapati	12727	10182	7260	2650	71
11	Ganjam	79545	63636	39944	15760	63
12	Jagatsinghpur	127271	101817	95929	39167	94
13	Jajpur	74242	59394	34449	11800	58
14	Jharsuguda	15591	12473	7826	3309	63
15	Kalahandi	47727	38182	29094	9952	76
16	Kandhamal	15909	12727	9452	1492	74
17	Kendrapara	74242	59394	51527	26578	87
18	Keonjhar	72120	57696	34577	15964	60
19	Khurda	63636	50909	35482	15743	70
20	Koraput	31818	25454	17215	4409	68
21	Malkangiri	10606	8485	4994	1473	59
22	Mayurbhanj	80666	64533	43084	16059	67
23	Nawarangpur	31818	25454	17712	6268	70
24	Nayagarh	33939	27151	17861	6851	66
25	Nuapara	16970	13576	9890	2373	73
26	Puri	121968	97574	91124	37915	93
27	Rayagada	23330	18664	11364	3297	61
28	Sambalpur	47727	38182	27079	11004	71
29	Sonepur	31818	25454	21111	8779	83
30	Sundargarh	47727	38182	24372	10417	64
	Total :	1674000	1339200	1010746	400885	75

Livestock Insurance Scheme

The Livestock Insurance Scheme was implemented in 9 districts covering 23248 animals. The premium of the insurance is subsidized to the tune of 50%. The entire cost of the subsidy is being borne by the Central Government.

Livestock Breeding Dairy Farms:

The Department has 8 livestock breeding dairy farms. The objective is to produce high pedigree bulls for breeding purpose to improve productivity of the local non-descript animals in the State through Natural Service / Artificial Insemination. These farms are also used as Demonstration unit for farmers on breeding, feeding and management of dairy animals.

Tabe-7 Types of breeds maintained at different farms & its performance

<i>Sl No.</i>	<i>Name of Farm</i>	<i>Type of animals</i>	<i>Total Animals available</i>	<i>No of Bull calves supplied</i>
1.	ECB Farm, Chiplima	CBJ	76	8
2.	LBD Farm, Khapuria.	CBJ & pure Murrah Buffalo.	68	2
3.	LBD Farm, Keonjhar.	CBJ	50	2
4.	LBD Farm, Remuna.	CBJ and pure Hariyana	51	10
5.	LBD Farm, Bhanjanagar.	CBJ and pure Hariyana	46	2
6.	LBD Farm, Boudh.	CBJ	33	4
7.	LBD Farm, Sundargarh.	CBJ	39	4
8.	LBD Farm, Kuarmunda.	CBJ & pure Murrah Buffalo.	70	3
		Total	433	35

Integrated Livestock Development Programme (ILDP), Kalyani

The overall objective of the programme is to provide gainful self-employment to the rural livestock keepers through dairy and livestock development programmes.

The specific objectives are:

1. Creation of awareness among farmers about the socio-economic benefits of improving the local cattle and buffaloes;
2. Production of improved cattle and buffaloes out of the local non-descript low productive animals;
3. Generation of employment & income for rural families through milk & Meat production and its marketing;
4. Promotion of nutritional security through enhanced supply of milk and meat

This project has following 4 main components

1. **Cattle Development Programme:** Door step livestock services are provided to the rural livestock keepers to breed the local cows by using superior dairy breeds like Jersey, Holstein Friesian & its crosses. Subsequent follow-up and input support (mineral mixture, de-wormers, etc) services are provided to make the progenies born to adult productive animal. Similar services are being provided for upgrading the local buffaloes where ever needed by using Murrah breed of semen. Till date, 100 cattle development centres have been established in 10 districts.

Table - 8: Achievements: 2012-13

Sl No	Activity	Annual Target	Achievement till Feb'13
1	Artificial Insemination Done	55000	32683
2	Progenies Born	21800	12619
3	Infertility Treatment Camp Conducted	300	201
4	Heat Synchronization Camp conducted	300	71
5	Farmers' Training Conducted	1800	1310

2. **Fodder Development Programme:** The fodder seeds/ planting material are supplied to farmers in each Cattle Development Centre operational area for raising fodder plots in their own land. Around 7668 fodder demonstration plots have been raised covering 577 hectores of land in farmers' field with organization of 2578 azola pits and 691 UTPS demonstration units have been made. 755 chaff cutters and 5311 feeding troughs have been provided to farmers.

- 3. Comprehensive Goat Development Programme:** The goat development programme have been under taken in districts of Mayurbhanj, Sundergarh, Kendujhargarh, Balangir and Deogarh. Under this programme 250 villages have been covered involving about 20000 farm families. Under this programme 599 breeding bucks have been provided to the goat keepers for genetic upgradation of their stock. 1303 goat farmers have been trained so far during this year along with provision of mineral supplements to 613 farmers. 11116 goats have been dewormed and 71818 goats were vaccinated against PPR and Goat Pox.
- 4. Technology-Knowledge and Strategic Partnership for Development of Chipilima Fodder Farm:** Under the this component the seed production farm, Chipilima has been strengthened . During this year, 40 MTs of breeders fodder seed have been produced which will be multiplied into certified seed in the farmers' field.

Table-9: The overall expenditure made is as follows

Sr. No.	Particulars	Amount in lakhs
		(upto Jan, 2013)
1	Amount sanctioned	1630.54
2	Funds placed to BAIF	1591.88
3	Funds utilized till 30.09.12	917.47
	Balance remaining with BAIF	674.41

Dairy Entrepreneurship Development Scheme (DEDS)

The Dairy Entrepreneurship Development Scheme aims at promoting entrepreneurial quality. The scheme aims at Establishment of small Dairy units with cross breed cows, Indigenous descript milch cow like Sahiwal, Red Sindhi, Gir , Rathi etc., Graded buffalos up-to 10 animals with Rs. 5 lakhs for 10 animals unit (minimum units size is 2 animals) and other supporting components. Under Dairy Entrepreneurship Development scheme (DEDS), 1688 units have been sanctioned with induction of 2344 milch animals.

2.2 Small Animal Development:

The small animal development in the state has been emphasized to enhance the meat production by improving the existing Small Animal Resources of the state through several interventions like genetic up gradation with supply of improved bucks and rams; health care measures including routine deworming & vaccination.

During the year 2012-13 (upto Jan, 2013), preventive vaccination against PPR (20.18 lakh), Goat Pox (2.23 lakh), Enterotoxaemia (6.13 lakh) are carried out. A total of 10.00 lakh animals are dewormed through camp mode in the State. These interventions are mostly aimed at development of livestock assets available with weaker sections.

The National Mission for Protein Supplements is being launched from 2011-12 as a sub-sector under RKVY. The "Implementation of Goat Schemes" is being implemented by the Department in 24 districts of the State, with an objective to build the capacity of the local community member for undertaking goat production as a profitable enterprise and to promote better health care and management practices for higher productivity and higher returns.

Under this programme, 276 goat units have been assisted involving 14,300 goats providing subsidy to the tune of Rs. 150.00 lakhs. Similarly, 20 clusters have been identified and provided with support like mass deworming, vaccination, supply of area specific mineral mixture for improving productivity of goats under conventional small holder/ pastoral system. An amount of Rs. 100.00 lakhs have been spent in the clusters till the end of Jan. 2013.

2.3 Poultry Development:

Poultry has been the fastest growing sector in providing employment and income to a significant number of people along with making protein supplementation for masses. The backyard poultry also play a vital role in the livelihood of millions of poor people particularly for tribal & scheduled caste. The Govt. of Odisha have taken the following steps during the year 2012-13.

- There are 8 numbers of State Poultry Farms and 2 Duck Breeding Farms functioning under the Central assistance having present Parent stock capacity of 5619 of low-input-technology Poultry birds & 1294 nos. of Ducks. 342879 nos of day old chicks and 38759 day old ducklings are supplied to interested farmers at a reasonable price.
- To further boost backyard Poultry in the State, assistance is provided to 6,500 nos. of BPL beneficiaries with establishment of 30 nos. of Mother Units (Chick rearing units) during 2012-13 in selected eight nos. of districts with Centrally Sponsored Plan Scheme.
- Commercial Poultry farmers have been provided with reimbursement of VAT on poultry feed ingredient.
- Presently, about 66 numbers of Commercial Layer farms having 37.20 lakh birds are running in the State with per day egg production of 30.50 lakh eggs from these commercial farms.

- Presently, about 5000 broiler farms are in operation with Commercial Broiler Bird Strength of 55 lakhs. Broiler placements are to the extent of 12 to 14 lakh DOC (day-old-chicks) per week and 10 to 12 lakh adult broiler birds are entering into the market for meat purpose.
- Annual Poultry meat production for the year 2011-12 comes to be 65 TMT and the per capita availability of poultry meat is 3 K.g. per annum.
- The present demand for table eggs is 103 lakhs per day (including the requirement for Mid Day Meal programme) with per day Egg production of 64.5 lakhs.

Table-10: STATUS OF GOVT POULTRY/DUCK FARMS IN THE STATE:

Sl. No.	Name of the Farm	Year of Estb.	Area (In Acres)	Previous Approved strength	Enhanced Strength achieved With CSP assistance	Status at Present
1	RPF Sundargarh	1938	32.94	1500	3700	Functioning
2	DPF Bolangir	1966	5.00	1000	2850	Functioning
3	IPDP BBSR	1964	18.00	1500	4000	Functioning
4	DBF Cuttack	1977	3.05	1000	2000	Functioning
5	DPF Semiliguda	1966	5.00	1000	3400	Functioning
6	RPF Koraput	1957	9.00	500	2600	Functioning
7	PBF Angul	1942	48.60	3000	4000	Functioning
8	DPF Bhanjagar	1961	3.00	500	2600	Functioning
9	SPU Chipilima	1966	2.00	500	3500	Functioning
10	DBF Chipilima	1990	6.00	250	3000	Functioning

2.4 Fodder Development Programme, Govt. of Odisha during 2012-13

Present status of availability of feed and fodder

The present status of the fodder availability and requirement of green and dry fodder in the state is as follows.

Table-11: Status of Feed and Fodder

Feed stuffs	Supply in TMT	Demand in TMT	Short fall in TMT	Percentage of shortfall
Green Fodder	16121.750	31203.66	15081.91	48.4 %
Dry fodder	10620.831	13891.44	3270.609	23.5%

A. Central Minikit Testing Programme on fodder Crops:

Under this programme the Government of India provides fodder minikits to all the States in free of cost in order to develop the fodder cultivation programme for the fodder crops. The quantity of seeds supplied through this programme is sufficient for 1/10th Hectare. Further, the State Government allocates the respective fodder minikits to the farmers of different districts in free of cost of having assured irrigation and for better fodder production. In the year 2012-13 the Government of India had supplied 3700 fodder minikit i.e. 3600 and 100 Minikits in Rabi as well as Kharif respectively to the State Government which is distributed among farmers of different districts of Odisha for fodder cultivation.

B. Training and Demonstration in Fodder Cultivation and Pasture Development and strengthening of Departmental Fodder Farms (State Plan):

During the year 2012-13, under this programme, Govt. of Odisha has provided Rs. 77.70 Lakhs to strengthening the farms. Action has been taken to strengthen the fodder seed farms of the State.

B. Enrichment of crop Residue (State plan):

This programme is being taken up by Government of Odisha to ensure the feeding quality roughages i.e. to maintain the animal health, Productivity by feeding nutritional rich Roughages of animals in the State.

In the Year 2012-13 for progression of this Enrichment Crop Residue Programme, the State Government provides Rs. 20.00 Lakhs.

C. Fodder Seed Procurement & Distribution Programme

This is a CSP scheme with 75 : 25 funding pattern duly shared by central and State respectively. As such the Government of India has provided Rs. 15.0 Lakhs and Rs. 5.0 Lakhs has been provided by the State Government. Action has been taken to procure and distribute the fodder seeds.

Under this scheme a sum of Rs. 40.0 Lakhs also proposed to be sanctioned by 75:25 funding pattern in which the Government of India and the State Government should provide Rs. 30.0 Lakhs and Rs. 10.0 Lakhs respectively.

D. Integrated Fodder Production

For implementation of this programme under RKVY, there was provision of Rs. 898.50 Lakhs for two years and a sum of Rs. 727.0 Lakhs was released. During this year, 10731 no. of farmers were involved to cover 4260 Acres of land. The programme is in progress during the year 2012-13 to meet the fodder requirement of dairy farmers in milk shed area.

2.5 Livestock Service Delivery:

Optimum health management of the livestock resources of the State is one of the important programmes being taken up by the department. The department with its strong network of service delivery system in form of Livestock Aid Centers, Veterinary Hospitals and Dispensaries do exist for rendering the desired services to the livestock farmers. In addition, there are institutions like one Animal Disease Research Institute (ADRI) at Phulnakhara, Cuttack; One State Veterinary Laboratory (SVL) at Chipilima, Sambalpur; 26 Disease Diagnostic Laboratories (DDL) and 3 Central Investigation Laboratories(CIL) located at district and regional headquarters to assist the field institutions to take up the investigation and diagnostic measures for treatment and control of animal diseases. The following diagnostic laboratories are functioning at different locations of the state.

2.6 Training & Development

This Department acknowledges capacity development of its human resources and therefore, huge investment is being made for laying the foundation of a sustained development process in the livestock sector. Currently the training system in the department is fairly organized in comparison to the past. There are seven numbers of training institutes functioning in the department to provide different types of training programmes for different levels of in-service personnels. Moreover, apart from utilizing the existing training institutes and trainers of the Department, there is always a scope to send departmental personnel to different reputed national institutes or farms as per the need to undergo training programmes or for exposure trips.

One Veterinary Officer's Training Institute (Bhubaneswar), 3 Livestock Inspector Training Centre (Chipilima, Bolangir, Bhanjanagar), one Frozen Semen Artificial Insemination Training Centre (Cuttack), one Animal Disease Training Centre (Phulnakhara, Cuttack), one Fodder Training Centre (Pipili) are catering to the capacity building needs of the Veterinary field staff. The Department has given priority to human resource development and established a training system to impart need based training to AHD staff working at different levels. Technical, methodological and management training received priority focus.

Table-12: Training of Veterinary Officers at VOTI

Sl. No	Name of Event	Period	Participants
1	ASCAD - Batch 16	3.4.2012 - 7.4.2012	10
2	ASCAD - Batch 17	9.4.2012 - 13.04.2012	15
3	ASCAD - Batch 18	16.04.2012 - 20.04.2012	16
4	ASCAD - Batch 19	23.4.2012 - 27.04.2012	15
5	ASCAD - Batch 20	30-4.5.12	20
6	ASCAD - Batch 1(New)	15-19.1.2013	14
7	ASCAD - Batch 2 (New)	29-2.2.13	18
8	ASCAD - Batch 3(New)	4-8.2.2013	17
9	ASCAD - Batch 4 (New)	11-15.2013	15
	ASCAD - Batch 5 (New)	18-22.2.13	15
	ASCAD - Batch 6 (New)	25-1.3.13	15
10	MLE - 5	3.4.2012 - 7.4.2012	17
11	MLE - 6	17.4.2012 - 21.4.2012	20
12	MLE-7	05-11-2012 - 09-11-2012	19
13	MLE-8	20.11.2012 - 24.11.2012	16
14	MLE-9	26-11-2012 - 30-11-2012	21
15	MLE-10	03-12-2012 - 07-12-2012	21
16	MLE-11	11-12-2012 - 15-12-2012	20
17	MLE-12	17-12-2012 - 21-12-2012	18
18	ToT -1 (SMILE)	18-22.06.2012	13
19	ToT -2 (SMILE)	22-26.05.2012	19
20	Entrpreneurship Development	29-2.6.2012	14
21	Entrpreneurship Development	3-7.9.2012	16
22	Accounts & Administration	4-8.6.2012	17

23	Accounts & Administration	13-17.8.2012	21
24	HRM	10-14.9.2012	14
25	HRM	24-28.9.2012	17
	Workshop by GALVMed	23-24.08.2012	
	Omfed Meeting	3-4.11.2012	
	CDM-Off Campus EEI Hyderbad	1-4.8.2012	24
26	ToT for Watersshed, Nuapada	7-12.5.2012	19

Society for Management of Information, Learning & Extension (SMILE)

The Society for Management of Information, Learning and Extension (SMILE) is constituted in the year 2007. The society is coordinating all the training and extension activities of the Department.

In the year 2012-13, the society has received a sum of Rs. 25 lakhs out of user charges. The action plan for utilisation of fund was submitted to the Government and the action plan was duly approved by the Government and the activities were taken up by the Society.

During last year, the society collaborated with FAO for organizing national level 21 days FETPV training programme. Department of Personnel and Training, Government of India, under Capacity Building for Poverty Reduction (CBPR) project through Gopabandhu Academy of Administration, Bhubaneswar also provided funds for developing training module, training calendar etc for effective organization of training programmes conducted on Small Animal Development.

Information, Education and Communication Programme

This programme plays a very vital role for creating awareness among the people in order to overcome panic situation during occurrence of various emerging diseases like Bird Flu, Swine Flu and Anthrax etc. which are having zoonotic importance and public health problems. Simultaneously during natural disaster/calamities like flood, heat wave, etc., publicity programme contributes a lot for providing timely advice about care & management, feeding & disease control aspects of animals.

The achievements are as follows:-

(A) Electronic Media:-

1. No. of Programmes Sponsored in AIR-116
2. No. of Programmes broadcast in AIR-80

3. No. of radio spots of 30sec duration on A.I., Heat wave & disease control, broadcast-95
4. No. of Programmes sponsored in Doordarshan-110
5. No. of Programmes telecast in Doordarshan-72
6. No. of T.V. spots on AI, Heat wave and disease control, telecast -53
7. No. of Gramsat programme conducted- through ORSAC -12
8. No. of Phone - in - programmes conducted in AIR & Doordarshan-18
9. No. of film shows organized in public places and trainings-60
10. No. of departmental website maintained-3

(B) **Print Media**

1. No. of printing materials distributed -48,000
2. No. of advertisement floated in news papers-13
3. No. of articles published in different news papers & magazine-20
4. No. of news published in various news papers-212

61st Gosambardhan Week-2012

During this year 2012-13, 61st Gosambardhan week 2012 from 15.11.2012 to 21.11.2012 was celebrated through out the State .Both State level & District level functions were organized at different places where different activities such as cattle worship. Cattle show, Exhibitions , meetings ,Prize Distribution,. Farmers trainings etc, were organized.

Similarly a State level function organized at Kalapada of Khurdha District on 21.11.2012

Krushi Mahotsav-2012

The Krushi Mahotsav 2012 was organized at Janta Maidan,Bhubaneswar from 25.3.2012 to 28.3.2012 where about 300 no. of stalls were installed under Agriculture and allied sectors which attracted thousands of farmers and the ARD stall was awarded with first prize.

Animal Welfare Activities of State SPCA Odisha

The Prevention of Cruelty to Animals Act 59 of 1960 (Central Act) has been enforced in our State for wellbeing of animals. Government of Odisha vide Notification No.15545/FYAH. dated 3.8.1976 have authorized the Inspectors of State Society for the Prevention of Cruelty to Animals(SPCA),Odisha to exercise the power under the said Act. The Inspectors of SPCA in the field of animal welfare are conducting mobile courts with help of Police and Judiciary to check animal cruelty cases in different part of the State as well as programmes in educational institutions,

public places, religious places, cattle markets to create public consciousness towards kindness and compassion to animals. Besides, Animal Birth Control Programme (ABC), relief and rescue operation, animal health camp, T.V. & Radio programme, Training programme on animal welfare are being organized by State SPCA to develop animal welfare activities throughout the State.

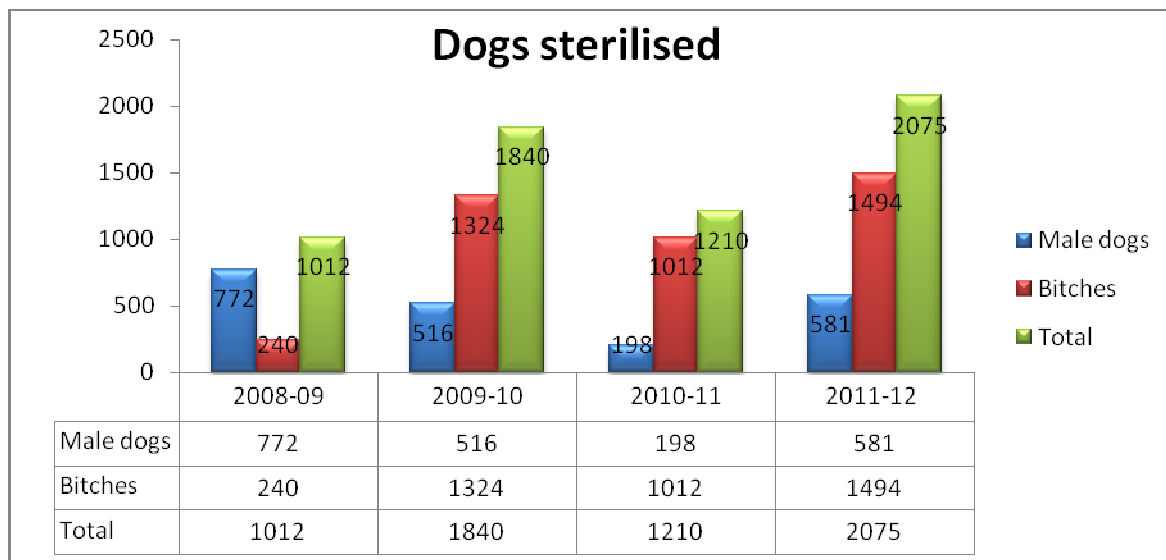
A detail report on the activities of State SPCA, Odisha for the year 2012-13 is mentioned below for kind reference

Table-13: SPCA activities

Sl.No	Activities	2012-13(Apr,2012 to Jan,2013)
1	No. of cases prosecuted under PCA Act, 1960.	698
2	No. of warning cases issued to offenders	1209
3	No. of cases convicted	568
4	Fine money imposed on cases convicted and deposited to Govt. account by court concerned	Rs.78,665/-
5	No. of awareness Programme in educational institutions, public places and training programme on legal education and welfare of animals organized by involvement of SHG/ PRI members/ NGO/ Slaughter House personnel/Cattle Traders/ Teachers/ Advocate/ Police & Forest personnel/ Gomitra/ L.I./ Sanitary Inspector to create consciousness about animal welfare law.	239
6	No. of Street Play organized in religious places to make consciousness among people towards kindness & compassion to animals and prohibition of animal sacrifice throughout the State	36
7	No. of Animal Birth Control Programme organized to control the population of stray dogs and Rabies	1439

2.7 Animal Birth Control Programme:

The Government of Odisha in Animal Resources Development Department has formed a state level Co-ordination Committee for control and prevention of Rabies in the state under the chairmanship of Commissioner- Cum - Secretary, Housing & Urban development Department. The Director, Animal Husbandry & Veterinary Services, Odisha, Cuttack is the Member Secretary of the committee. In order to maintain stray dog population into an ecological balance to minimize the incidence of Rabies and stray dog menaces in ULB area.



3.0 Other Sister Organizations:

3.1 Orissa State Co-operative Milk Producers Federation Ltd. (OMFED)

OMFED is established in the year, 1980 and the major objectives of the Federation are as follows :-

- (i) To carry out activities for promoting production, procurement, processing and marketing of milk and milk products for economic development of the rural farming community.
- (ii) Development and expansion of such other allied activities as may be conducive for the promotion of the dairy industry, improvement and protection of milch animals and economic betterment of those engaged in milk production . In particular and without prejudice to the generality of the forgoing object, the Federation may :-
 - Purchase and / or erect building, plant machinery and other ancillary object to carry out business.

- Study problems of mutual interests related to milk procurement, marketing of dairy and allied products.
- Purchase commodities from the members or from other sources without affecting the interests of the members for processing, manufacturing, distribution and selling of the same, arrange to manufacturer/purchase and distribute balanced cattle feed and for the purpose to set up milk collection and chilling centres, milk processing plants, product factories etc. in any of the district covered under its area of operation.
- Provide veterinary aid and artificial insemination services and to undertake animal husbandry activities so as to improve animal health care, disease control facilities etc.
- Advice, guide and assist the milk unions in all respects of management, supervision and audit functions.
- Render technical, administrative, financial and other necessary assistance to the member unions and enter in to collaboration / agreement with someone, if the need arises.
- Advise the member unions on price fixations, public relations and allied matters.

3.2 Performance of OMFED

i. Milk procurement:

In 2012-13, the average milk procurement per day is 4.31 lakh Kgs. per day, highest ever when compared to previous years.

ii. Milk Processing

The processing capacity has been enhanced to 5.45 lakh litres per day covering 11 dairy plants. There are 329 bulk coolers having 4.96 lakh litre per day along with 6 milk chilling centre with capacity 97,000 lit. per day.

iii. Milk marketing:

The average Milk Marketing has crossed 4.11 lakh Litres per day during the year 2012-13.

3.3 Utkal Gomangal Samiti (UGS):

Utkal Gomangal Samiti was established in the year 1936. The aim and objectives of the Samiti is to bring all round development of the livestock through up-gradation of local indigenous stock by providing improved bulls, Cows, Calves, Buffalo Bulls and Bucks etc. and to propagate different types of fodder cultivation, Cattle Feed and encourage public for the same.

Natural Breeding

In the year of the establishment, the organisation supplied 18 Nos. of Murrah Buffalo bulls and 1 Hariana Bull (U.G.S.) and 20 Nos. of Murrah Buffalo bulls (N.P.C.B.B. Programme) to the stud Centres located in the State.

During passage of 76 years, the Number of stud centre increased and Utkal Go-mangal Samiti supplied huge numbers of different breeds of improved varieties of animals throughout the State for up-gradation of local stock. It is no doubt that the Utkal Gomangal Samiti has played a major role in economic growth of the State in Agricultural Sector.

After implementation of the Frozen Semen technology the Natural Breeding Scheme has been squeezed.

3.4 Orissa Poultry Federation (OPOLFED):

Orissa State Poultry Products Co- operative Marketing Federation Ltd. (OPOLFED) is a state level Apex Co- operative Organization registered as society on 29-03-1976 and declared as an Apex Co-operative Federation on 22-3-1984. OPOLFED operates in two tier system i.e Poultry Product Co-operative Society (PPCS) & Women Poultry Co-operative Society (WPCS) at grass root level and the Federation at the apex level.

Present activities of OPOLFED:

(a) The main marketing activities- such as supply of eggs, packet eggs and chicken meat are being carried out through Bhubaneswar & Cuttack Zone offices of OPOLFED. Around 4.53.600 nos. of eggs are being marketed in the twin cities of Bhubaneswar & Cuttack through 73 nos. of operative OPOLFED sales booths every month and approximately 1 to 1.5 quintals of dressed chicken meat is marketed in the twin cities of Bhubaneswar & Cuttack since December 2005. At present, around 21,000 graded and hygienic egg packets are being marketed monthly.

(b) Supply of eggs under MDM programme:

OPOLFED ventured the egg supply at school points under MDM programme during the year 2005-06 in Khurda & Kendrapara districts, under National Programme for Nutritional Support to Primary Education (NP-NSPE). During the year 2006-07, OPOLFED has been supplying eggs under MDM programme in Khurda, Balasore & Nayagarh districts. Around 6.93 lakhs eggs are supplied in Khurda district, 4.24 lakhs in Nayagarh district (at school point) and 11.90 lakhs in Balasore district (at Block Hqrs) per month.

During the year 2010-11, OPOLFED got the supply order for supply of eggs under MDM programme of Dhenkanal district through tender process. OPOLFED has had the rich experience and expertise of supply of eggs under M.D.M programme at the school points to different districts from the year 2005-06.

