



GOVERNMENT OF ODISHA

ANNUAL ACTIVITY REPORT

2015 – 2016



Fisheries & Animal Resources Development Department

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ANIMAL RESOURCES DEVELOPMENT SECTOR



2015-16

1.0 ANIMAL RESOURCES DEVELOPMENT SECTOR PROFILE

1.1 INTRODUCTION :

Animal Husbandry Sector has played a prominent socio-economic role in Odisha. The sector has the potential of providing the much needed insurance against the crop loss frequently occurring due to natural calamities in Odisha. This Sector has also the highest potential for rural self-employment generation at the lowest possible investment per unit. Development of Livestock Sector therefore, is critical to rural prosperity. The sector is providing subsidiary to major sources of income to the large numbers of cultivators, small farmers, marginal farmers, BPL families and agricultural labourers. Livestock production in general is highly women oriented as most of the animal husbandry activities like the care and management of milch animals, milking of dairy animal, grazing of small ruminants are dealt by women and most of the labours engaged in rural livestock production are women.

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, it has been found that in the time of exigencies like drought and other natural calamities, livestock 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. Livestock plays a vital role in providing nutritive food to families both in rural and urban areas. Bullock power continues to be the main source of draught power for agricultural operations and transport of agricultural products to nearby markets and is likely to remain so for a long time to come.

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. As per minutes of the meeting of TCD 2015, it ranks 11th among Indian States in egg production, 13th in meat production and 16th in terms of milk production (2014-15). Next to Agriculture, Animal Husbandry has 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 State has an estimated human 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, Directorate of Animal Husbandry and Veterinary Services, Odisha is 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.

1.2 Financial Resources 2015-16

The financial resources are broadly divided into three categories and budget release and expenditure is summarized in Table – I to Table-III.

- 2403 Animal Husbandry
- 2404 Dairy Development
- 4403 & 4059 Capital Outlay

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

(Rs. In Lakh)

Sl. No.	Resource Head	Budget Estimates Including Supplementary	Amount Released	Expenditure (2015-2016)
1	Non Plan	23877.57	23877.57	23131.56
2	State Plan	7542.53	5967.09	5829.20
3	Central Plan	376.25	5.00	5.000
4	Central Sponsored Plan	296.46	231.46	218.14
	TOTAL	32092.81	30081.12	29183.90

Table-2: Budget Head 2404-Dairy Development - Animal Husbandry

(Rs. In Lakh)

Sl. No.	Resource Head	Budget Estimates Including Supplementary	Amount Released	Expenditure (2015-2016)
1	Non Plan	109.47	109.47	101.78
2	State Plan	4839.06	2704.26	2700.02
3	Central Plan	0	0	0
	TOTAL	4948.53	2813.73	2801.80

Table-3: Budget Head 4403 & 4059-Capital Outlay Budget - Animal Husbandry

(Rs. In Lakh)

Sl. No.	Item	Budget Estimates Including Supplementary	Amount Released	Expenditure (2015-2016)
1	Capital Outlay	10251.67	8901.62	8706.46

1.3 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.

1.4 Organization Hierarchy of Department

The organizational structure can be viewed in two categories i.e. one at the State level which primarily involves in planning, monitoring, supervision and placement of budget whereas the field level functionaries from CDVO office to LAC level are involved in implementation and follow up of all planned activities. The organizational hierarchy is given below in the **Figure-1**.

Figure – 1: State Level Hierarchy

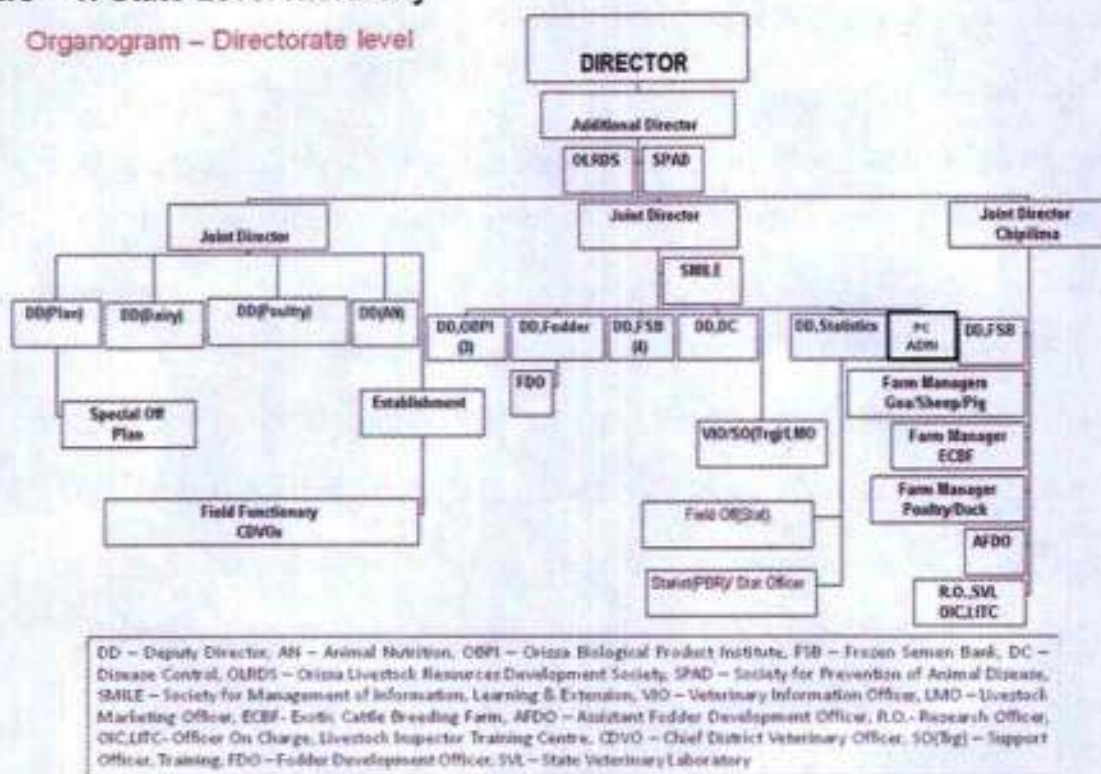
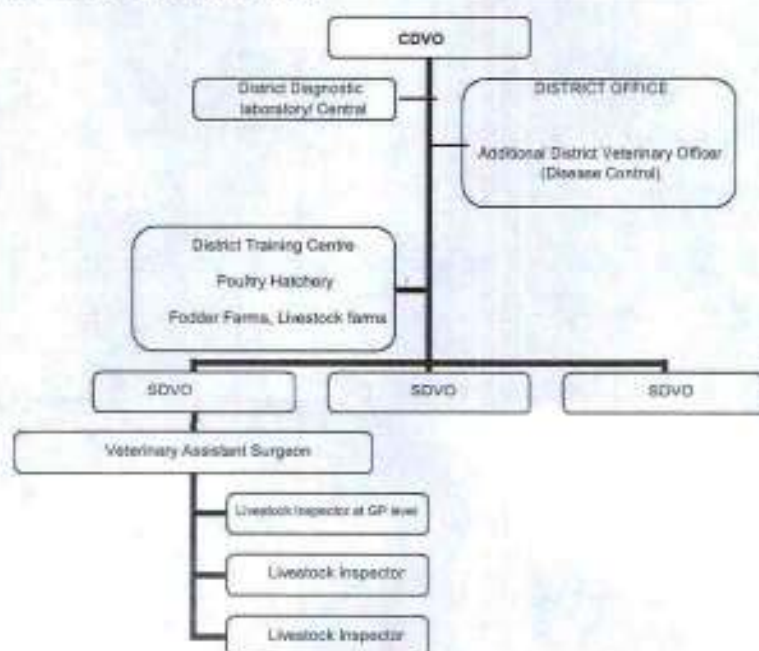


Figure – 2: Field Level Hierarchy



1.5 Institutional Mechanism

There are 541 veterinary hospitals/ dispensaries, 3839 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

Institution	Number
Veterinary Dispensary (VD)	541
Livestock Aid Centre (LAC)	3839
Frozen Semen A.I. Centres (VD & LAC + Other centers)	2659+3190
Clinical Investigation Laboratory, State Veterinary Laboratory	4
Animal Disease Research Institute	1
District Diagnostic Laboratory	26
Odisha Biological Products Institute	2
Department Training Centers	7
Livestock Breeding Farms	11
Poultry Breeding Farms + Duck Breeding Farms	8+2
Fodder Farms	20
Sheep breeding farm	1
Goat Breeding Farms	6
Pig Breeding Farms	1

Artificial Insemination in cattle and buffalo is carried out through 2985 departmental institutions (VD & Livestock Aid Centers), 1408 Omfed AI Centers, 684 JK trust Centers, 100 BAIF Centers and 1412 Gomitras in the state.

Table – 5: Sanctioned staff strength & vacancy as per restructuring of different Cadre

Group	Category of Posts	Sanctioned Strength	Men in Position as on 29.02.2016	Vacancy
A	Additional Director	3	0	3
	Joint Director - I	6	1	5
	Joint Director -II /CDVO	37	31	6
	Deputy Director/ SDVO/ ADVO	154	153	1
	Block Vet. Officers/Other Specialists	355	308	47
B	VAS/AVAS/other officers	549	439	110
	Fodder Officer (FDO-4 + AFDO-17 + SAFDO-22)	43	24	19
C	VT & VT cadre	667	595	72
	Livestock Inspector	3330	2196	1134
	Field Fodder Staff (JFDO + A.S.O./Field Asst.)	125	78	47

1.6 Supply of Livestock Outputs:

Livestock sector outputs like milk, meat, eggs has enhanced appreciably. The milk production has increased from 1342.30 TMT during 2005-06 to 1903 TMT in 2014-15. Similarly, meat and egg production has also increased from 52.04 TMT to 88.71 TMT and 1278.70 million to 1924 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
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	1.81	2301	55
2012-13	1784	113	76.72	1.83	2323	54
2013-14	1861	117	81.26	1.86	2361	54
2014-15	1903	118	88.71	2.00	1924	43
2015-16 (provisional)	1933		92		1925	

1.7 Thrust areas of Animal Resources Development Department

In consonance with the strategy outlined in the Long Term Perspective Plan, number of schemes has been introduced on dairy, poultry, small animal & fodder development under State Plan & Centrally Sector Schemes during 2015-16. Some of the thrust areas during the current Year are explained as follows.

- ❖ Strengthening of existing Veterinary Dispensaries (VD) and Livestock Aid Centres (LAC) and opening of new LACs to ensure better infrastructure for availability of veterinary service in the field.
- ❖ Provision of Mobile Veterinary Services in the rural interior areas for effective veterinary service delivery mechanism at the doorstep of the livestock owners. The Mobile Veterinary Service is provided in all 314 blocks of the State (Under RKVY 261 Nos. & State Plan Schemes 53 Nos.)
- ❖ In order to promote dairy farming as viable economic activity, post insemination services like organization of fertility management camps in dairy intensive areas are being conducted.
- ❖ Coverage of 50 % of breedable cattle population under organized breeding through artificial insemination through department institutional network as well as through private AI workers in coming 5 years.

- ❖ Conservation and improvement of threatened indigenous identified cattle and buffalo breeds of the state were taken up. In order to improve economic efficiency of indigenous breeds in the areas of production and reproduction performance by introducing good quality males in the native tract of Binjharpuri, Ghumsuri, Khariar and Motu Cattle breed and buffalo breed Chilika. & Kalahandi through selective breeding, Breeder's Societies formed and steps are being taken for identification of elite mothers.
- ❖ 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 practice modern and scientific methods for enhancing the productivity.
- ❖ Disease surveillance activities had been reoriented for control and containment of the contagious diseases of animals having economic and zoonotic importance like Bird Flu, Anthrax etc.
- ❖ 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.
- ❖ Exposure visit for 69 nos. Veterinary professionals were organized to acquire advanced technology adopted in other States.
- ❖ National Animal Disease Reporting System (NADRS) have been implemented by GOI in all Block Head quarter VDs of the State for Disease Surveillance & Monitoring.
- ❖ During this year 197.18 lakh (up to Feb-16) doses of different veterinary biological were produced in our State.
- ❖ Besides 40.00 lakh doses of PPR vaccines, 43.00 lakh doses of FMD vaccines and 30.25 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 has produced 9.24 lakh semen straws during the year 2015-2016 (Upto Feb-16) to be used for artificial insemination.

2.0 Dairy Development:

2.1 Odisha Livestock Resources Development Society (OLRDS)

Odisha Livestock Resources Development Society (OLRDS) has been formed and registered vide Order No. 21074/213 dt.25.10.2000 under the Societies Registration Act, 1860 as State Implementing Agency to ensure smooth implementation of "National Project for Cattle & Buffalo Breeding" (NPCBB) with the Aim & Objectives to boost up rural economy and reduce the rising trend of unemployment situation.

The Commissioner-cum-Secretary to Govt. of Odisha, F & A.R.D. Department is the President and Director of AH & VS, Odisha is the Vice-President of OLRDS. The Chief Executive Officer is the Member-Secretary of the Society.

Some major achievements of OLRDS:

- ❖ 2985 Departmental institutions have been provided with AI Facility.
- ❖ 2725 Departmental Static AI centers are also providing doorstep AI service.
- ❖ 1650 Private AI workers have been engaged to render breeding and health related services at farmers' door step in inaccessible areas.
- ❖ 125 Natural service centers have been established
- ❖ Coverage of breedable population under organized breeding increased from 11% in 2002-03 to 30% in 2014-15
- ❖ Four breeds of cattle namely Binjharpri, Ghumusari, Khariar & Motu and two breeds of buffalo namely Chikia & Kalahandi of Odisha have been recognized as cattle and buffalo breeds of India.
- ❖ Two Breeders' Associations have been set up in Native tract of Chilika and Binjharpuri.
- ❖ Breed Improvement & Conservation of all registered breeds of Odisha have been initiated in its Native tract.
- ❖ Seven Binjharpuri bull were procured from the farmers door step and placed in the Livestock Breeding Farm, Cuttack.
- ❖ These calves will act as breeding bulls in future and are expected to donate semen towards insemination of the cows.
- ❖ Initiatives regarding for formation of Breeders Association namely Ghumusari Go-Prajati Bikash - O - Surakhsya & Sarashyan Samiti (GGBOSS) Promotor-BIRD for Ghumsari Breed is going to be set up. Regarding this one day training was completed at LITC, Bhanjanagar
- ❖ The Odisha Livestock Resources Development Society (OLRDS) has taken a proactive step of bull procurement for genetic upgradation of local cattle, the efforts starting seven years back. The initiative happens to be the first of its kind towards practical conservation and improvement of newly registered native cattle germ-plasm after independence of our country. The Odisha Bovine Breeding Policy, 2015 puts thrust on conservation and improvement of native cattle germ-plasm in the state.
- ❖ CB Bull Production programme through FPRS in four intensive districts of the State have been taken up in First Phase.

- ❖ The Frozen Semen Bank, Cuttack has been modernized & the bull stations have been strengthened.
- ❖ The Frozen Semen Bank, Cuttack is awarded with ISO 9001:2008 and Grade-'A' for quality semen production.
- ❖ A bull Calf Rearing Farm has been set up two Bull Mother Farms have been strengthened.
- ❖ LN2 transportation system has been strengthened with supply of transport vehicles to all 30 districts.
- ❖ Bulk LN2 transportation system for different districts has been strengthened.
- ❖ District level Semen depots have been strengthened.
- ❖ Different training modules & manuals have been developed like Field Performance recording & Bull production, Conservation and improvement of native bovine breeds, use of Sexed Semen, Infertility management in female bovines, Nutrition management in cattle & buffaloes for imparting training to AI workers of the State in these fields.
- ❖ Steps have been taken to set up a regional Training Center at Balasore.
- ❖ Basic AI Training & refresher training are imparted to field AI workers.
- ❖ Conservation and Improvement of Native breeds of Chilika buffalo & Binjharpuri cattle has been taken up in collaboration with the concerned Breeders' Organisations in Technical consultancy with Odisha Veterinary College.
- ❖ Computerization of field institutes has been taken up.
- ❖ Control for infertility in adult female bovines has also been implemented.
- ❖ National Dairy Development Board (NDDB) has developed an information system called "Information Network for Animal Productivity and Health (INAPH) which was started on pilot basis in the 5 Blocks of Cuttack district.

2.2 Bovine Breeding Policy :

The State Bovine Breeding Policy has been approved by the Government on 29th Sept. 2015 for genetic up-gradation of cattle and buffaloes found in Odisha. It will help social and economic improvement of a large number of farmers of our State who have been adopting dairying as a dependable source of their livelihood. The policy will also support in enhancing the milk production of the State and encourage more farmers to accept dairying as a profitable entrepreneurship.



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A Seminar was organised on 5th December'2015 to roll out the Odisha Bovine Breeding Policy, 2015 which was inaugurated by Hon'ble Chief Minister, Odisha at Jayadev Bhawan, Bhubaneswar in presence of the Sri Pradeep Maharathy, Hon'ble Minister, Agriculture, F&ARD Department, Sri R Balakrishnan, IAS, ACS-cum-Development Commissioner, Govt. of Odisha & Sri Bishnupada Sethi, IAS, Commissioner-cum-Secretary, F&ARD Department, Odisha.

2.3 Artificial Insemination in Cattle & Buffalo:

The artificial insemination service is being rendered through a network of 2985 Departmental AI centers at the door step of the farmers. Currently, our state covers 33% of breedable bovine population with artificial insemination, however it is targeted that 40 per cent of the non-descript cattle, 70 per cent of the cross bred cattle and 40 per cent of the buffaloes will be covered under AI program by 2020.

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 & Buffaloes has been achieved by 14.28 lakhs during 2015-16 (up to Feb'16) which is 87 % of the proportionate target. During this year 5.16 lakh progenies were born which is 51.70% success against the AI done 10 months ago.

2.4 Frozen Semen Bank (FSB):

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 'A' Grade by the Central Monitoring Unit of GOI.

Central Monitoring Unit (CMU), Govt. of India visited the FSB, Cuttack from 11.01.2016 to 12.01.2016 for Evaluation & Grading of the FSB.

Health Status maintained at FSB:

- ❖ The bulls are tested regularly & free from TB, JD, Brucellosis,(however for the year 2015-16 total 84 samples for Compylobactor and Trichomoniasis was collected on 24.11.15 by RDDDL but out of 84,the test report of only 16 bulls is sent to the in-charge FSB. All the bulls who's test reports are available were found negative.
- ❖ The bulls are regularly vaccinated against BQ, HS and FMD on 6 months interval & Anthrax Annually.
- ❖ Pre and Post vaccination sero-monitoring is done for FMD.
- ❖ Ring vaccination is carried out within 10 km radius of semen station by Sub division Veterinary Officer, Cuttack, Pre & post vaccination Sero- monitoring is not done for FMD by Joint Director, ADRI, Cuttack.
- ❖ Deworming is done at 4 monthly intervals.
- ❖ There is an isolation shed located at the corner of semen station to accommodate 15 nos. of sick animals.

2.5 Field Performance Recording System (FPRS):-

For genetic maintenance and further improvement of existing CB stock of the State, CB Bull production programme has been taken up in 4 districts of the State. Elite cows have been 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.

Field Performance Recording System (FPRS) Programme was approved under state plan and was decided to implement in four districts like Cuttack, Jagatsinghpur, Puri and Bargarh Districts undertake FPRS activities in 1st Phase.

Out of the total target of 1200 successful AI of Elite cows in 13 blocks of the 4 districts, 611 calves were born out of which 242 are male calves & 368 are female calves.

2.6 Conservation and Improvement of Native Breeds:

- ❖ Four breeds of cattle namely Binjharpri, Ghumusari, Khariar & Motu and two breeds of buffalo namely Chikia & Kalahandi of Odisha have been finally recognized as cattle and buffalo breeds of India.
- ❖ Two Breeders' Associations namely Chilika Buffalo Promotor Society (CBPS) and Binjharpuri Cattle Promotor Society (BCPS) have been set up in Native tract of Chilika and Binjharpuri respectively.
- ❖ Breed Improvement & Conservation of all registered breeds of Odisha have been initiated in its Native tract.
- ❖ Seven Binjharpuri bull were procured from the farmers door step and placed in the Livestock Breeding Farm, Cuttack. These calves will act as breeding bulls in future and are expected to donate semen towards insemination of the cows.
- ❖ Initiatives regarding for formation of Breeders Association namely Ghumusari Go-Prajati Bikash - O - Surakhsya & Sarashyan Samiti (GGBOSS) Promotor-BIRD for Ghumsari Breed is going to be set up. Regarding this one day training was completed at LITC, Bhanjanagar



2.7 Integrated Livestock Development Programme- Kalyani :

1. **Cattle Development Programme:** This is implemented in 10 districts of our state namely; Angul, Baragarh, Bolangir, Nuapada, Sambalpur, Sonapur, Kalahandi, Boudh, Nabarangpur, Koraput; where in 100 CDCs have been established. Each CDC provides door step AI services to breed the local / CB cows using superior dairy breeds like Jersey, Holstein Friesian & its crosses, subsequent follow-up and input support (mineral mixture, de-wormers, etc) services.

The achievements till January 2016 is shown in: **Table-7**

Sl. No	Components	Annual Target	Proportionate Target	Achievement	%age of Ach.
1	AI	70000	54410	62841	115
2	Calf Born	23586	19646	19963	102
3	Infertility Camp	300	240	134	56
4	No. of animals treated	4500	3600	4847	135
5	Estrus Synchronisation camp	300	240	64	27
6	No of animals treated in estrous synchronisation	4500	3600	186	5
7	Training at field level	600	518	176	34
8	Vaccination Camp	400	346	610	176
9	Deworming camp	400	300	1002	334

2. **Goat Development Programme:** This programme is undertaken in 5 districts namely Mayurbhanj, Sundergarh, Kendujhargarh, Balangir and Deogarh; where 25 Goat Development Centers covering 665 villages, 25000 families were provided with breeding services, deworming, vaccination and mineral mixture supplementation. 250 Field Guides have been trained for providing these services.

The achievements till January 2016 is shown in: **Table-8**

Sl.No	Components	Achievements
1	No. of Bucks inducted	2234
2	No. of Buck Service	42150
3	Kids Born	31416
4	Vaccination	111269
5	Deworming	154074
6	Castration	14319
7	Goat Rally	59
8	No. of farmers involved in Goat Rally	3819
9	No. of Goats involved in Goat rally	30135
10	Bucks Inducted	2234

3. **Fodder Development Programme:** Under this programme fodder demonstrations are made at farmers field in CDCs operational areas. Accordingly, BAIF has established 20 Fodder Development Centres (one centre for 5 CDCs) in the 10 districts of our State.

The key achievements till date upto January'2016 is shown in **Table- 9**

Sl. No.	Name of the Component	Achievements
1	No. of Demonstration in Kharif Crop	9534
2	Area covered under Kharif(Hac.)	1217
3	No.of demonstration in Rabi	3337
4	Area covered under Rabi (Hac)	246.60
5	Azzola demonstration	6338
6	Enrichment of roughage	617
7	Distribution of chaff cutter	1000
8	Distribution of feeding trough	12595

4. **Technology-Knowledge and Strategic Partnership**

Development of Chipilima Fodder Farm - 40 hectares of land available at Chiplima Fodder farm were under taken by *Kalyani*-BAIF for development of fodder seed and planting material production farm. During the year 2015-16 till January, 34.56 hectares of land was covered producing 1.155 MTs of foundation seed.

2.8 Integrated Livestock Development Centres - JK Trust Gram Vikas Yojana

The project is implemented under RKVY to provide breeding, feeding and management services at the door steps of the dairy farmers in the project area. These services are provided through 64 'Integrated Livestock Development (ILD) Centres' in Cuttack, Dhenkanal and Nayagarh districts of Odisha.

Each of these ILD centres is operated by a local educated unemployed youth called as 'Gopal' and will cover about 8-10 villages within a radius of 5-8 Kms. This will provide much needed Artificial Insemination & veterinary support services to all the dairy farmers in the project area.

The achievements for the year 2015-16 till Dec'15 is shown in **Table- 10**

Sl. No.	Name of the district	No. of AI done			No. of castration	No. Infertility	Deworming	Vaccination
		Cow	Buff	Total				
1	Cuttack	5172	142	5314	691	43	5619	30435
2	Dhenkanal	959	61	1020	65	11	816	8805
3	Nayagarh	1296	51	1347	88	8	149	4996
	Total	7427	254	7681	844	62	6584	44236

Cattle Breed Improvement Project by JK Trust Gram Vikas Yojana under Tribal Project in Odisha

Cattle Breed Improvement Programme undertaken by J.K Trust Gram Vikas Yojana through "Integrated Livestock Development (ILD) Centres established under Tribal Project in 13 districts of the state with 620 Centres .

The detail achievements under ILDC under Tribal Project for the year 2015-16 till Feb'16 is shown in **Table- 11**

Sl. No.	Name of the Component	Achievements
1	Total No. of AI done	433576
2	Calf Born	73009
3	No. of Castration	117698
4	No. of Infertility	24391
5	Deworming	295287
6	First Aid	368113
7	Vaccination	1473817

Genetic Upgradation of Cattle and Female Cross Bred Calf Rearing Scheme (CRS)

This Project under RKVY seeks to assist the dairy farmers to rear cross bred female calves. The main aim of the scheme is to provide proper nutrition to enable the calves to mature earlier and produce more milk. The cross bred heifer calves are selected from the age group of 4-10 months. The feed is supplied from the 4th month up to 28th months or calving whichever is earlier. The calves booked under the scheme are insured and routine deworming is also be done. During the year 2015-16, 5000 calves were booked.

2.9 Information Network for Animal Productivity and Health (INAPH):

Initiatives has been taken up to implement the "Information Network for Animal Productivity and Health (INAPH) developed by NDDB in 5 Blocks of Cuttack district on Pilot basis covering around 10000 animals in first phase. Application of INAPH will help to make available to producers, productivity enhancement service providing organizations and others involved in the sector, information which can be used to improve productivity and health of dairy animals. OLRDS will take up two modules i.e "Animal Identification & Registration" and "AI delivery" to start with and the Data Centre will be established at Frozen semen bank (FSB), Cuttack.

Computerization :

Various AH related activities in addition to Livestock breeding are being under taken by the Field functionaries, as it is essential to maintain the data base at every level for reference and quick sharing of reports.

All Institutions like Blocks where FPRS is undertaken, Blocks covered under native tract for Conservation and Improvement of Native Breeds as Binjarpuri & Chilika Buffalo, Bull Mother Farm, Bull Calf Rearing farm, CDVO Office, SDVO Office, Frozen Semen Bank, LITCs, VOTI, CIL, SVL, ADRI are supplied with computer with accessories to maintain the information system efficiently so as to share it with all concerned on time.

2.10 OLRDS Face Book:

The Face Book page (www.facebook.com/Olrds) of OLRDS was inaugurated on 2nd September -2015' by Shri Pradeep Maharathy, Honourable Minister Agriculture, Fisheries & Animal Resources Development, Odisha in presence of Sri Bishnupada Sethi, IAS, Commissioner-cum-Secretary, Department of Fisheries & Animal Resources Development Department, Government of Odisha and Director Sri Debi Prasad Panda IAS, Director, AH & VS Odisha.



This effort aims to create a social network platform for dissemination of information related to recent technology, knowledge and to act as a potential medium to reach a large number of people on a daily basis which includes a scope to (the viewers) post their comments.

Impact of Facebook

Within a short period of time, the Face book page of OLRDS has able to reach nearly about two lakh people.

- ❖ The Face book page of OLRDS has received 45000 likes till 2nd Feb'2016.
- ❖ The Face book page has a sizable likes from all over the country as well as from abroad.

- ❖ The reach of OLRDS Face book page is much higher than the existing conventional media including Newspaper and Television.
- ❖ The Face book page has also sensitised the service providers to improve and strengthen the current service delivery system.
- ❖ This unique media has also developed a strong bondage between the service provider and the beneficiaries.

2.11 Responsive Website (www.olrds.com) :

Up-gradation of existing system (Static) of OLRDS website to responsive website has been done during the year 2015-16. This responsive website can be accessed by all the devices such as Desktop Monitors, Tabs, & Mobile phones.

Livestock Insurance:

During the year 2014-15, Livestock Insurance Scheme under Central Plan is being implemented in 9 districts covering 70000 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.

Exposure Visit:

Exposure visit of Veterinary Professionals to NBAGR, Karnal was conducted for 6 days in two batches to undergo practical training and demonstration for Characterization, Conservation and Improvement of Native breeds of our State.

2.12 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.

2.13 Dairy Schemes under State Plan:

Three State Plan Dairy Schemes which was implemented by Govt. of Odisha will be continuing up-to 2016-17.

I. PROMOTION OF DAIRY ENTREPRENEURSHIP (PDE)

Objectives Of The Scheme:

- ❖ To promote setting up modern dairy farms for production of clean milk.
- ❖ To up -grade traditional technology to handle milk on commercial scale.
- ❖ To generate self-employment and provide infrastructure mainly for unorganized dairy sector.

Achievement under PDE during 2015-16 up-to Feb-2016 is shown in Table- 12

Target	Application Sponsored	Application Disbursed	No. of application with Bank
3969	12936	2859	10077

ii. Interest Subvention on Short Term Credit support for Dairy Farmers

The scheme was intended to facilitate credit linkage for dairy farmers to avail working capital loan. Farmers pursuing Dairy Farming as an income generating activities and availing short term loan were eligible for loan at subsidized rate of interest of 5 % and additional 3 % interest subvention will be made for prompt repayment of instalments in due time. The maximum limit of loan to be availed by the beneficiaries is Rs. 3.00 Lakhs. The maximum short term loan is provided as working capital cost Rs. 20000/- per cow. The maximum period for repayment of loan under the scheme is one year.

Achievement under Short Term during 2015-16 up-to Feb-2016 is shown in Table- 13

Target	Application Sponsored	Application Disbursed	No. of application with Bank
-	537	75	462

iii. Interest Subvention on Long Term credit support for dairy farmers

The scheme was intended to facilitate credit linkage for dairy farmers to avail term loan from banks for equipments, machineries, shed, procurement of livestock and other activities towards asset creation in dairy farming. Interest subvention of 3% of the interest rate is provided on term loan availed by the dairy farmers. Further, additional 2 % interest subvention will be made for prompt repayment of instalments in due time.

The beneficiaries who have availed dairy finance under PDE, DEDS, Self finance (except KSK) can avail interest subvention on Long Term Credit support.

Achievement under Long Term during 2015-16 up-to Feb-2016 is shown below.

Table- 14

Target	Application Sponsored	Application Disbursed	No. of application with Bank
-	1774	245	1529

3.0 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 de-worming & vaccination.

During the year 2015-16, under State plan scheme "Genetic up-gradation programme" a sum of Rs. 25.20 lakh has been provided for strengthening of 7 Nos. of small animal farms (Sheep, Goat & Pig) to produce graded male by maintaining pure stock of locally suitable breed like Black Bengal and Ganjam. Critical intervention in small ruminant and Pig farming is availability of quality breeding males at farmer's levels for up-gradation of the indigenous sheep Goat and Pig for enhancing the production and productivity.

List of Government Farms: Table- 15

Sl. No.	Name of the Farm	Name of the District
1	Goat Breeding Farm, Chiplima	Sambalpur
2	Goat Breeding Farm, Kuaramunda	Sundargarh
3	Goat Breeding Farm, Deogaon	Bolangir
4	Goat Breeding Farm, Dadpaju	Kandhamal
5	Goat Breeding Farm, Jaring	Kalahandi
6	Sheep Breeding Farm, Chiplima	Sambalpur
7	Pig Breeding Farm, Chiplima	Sambalpur

3.1 National Mission for Protein Supplementation:

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 21 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, during 2015-16, 174 goat units have been assisted involving 4893 Nos. Goats providing subsidy to the tune of Rs. 199.66 lakh. Similarly, 20 goat clusters have been identified and provided with support like mass de-worming, vaccination, and 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 provided in the clusters during 2015-16.

3.2 Conservation of Local Sheep/Goat Gemplasm:

An amount of Rs. 50.60 lakh has been provided for conservation and Development of Kendrapara Sheep under RKVY funding. Besides, survey work is going on Ghumusari and Raighar Goat breeds in their native track by OLRDS, Bhubaneswar.

4.0 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 following achievements were made during the year 2015-16.

- ❖ In order to boost backyard poultry in the state, assistance is being provided to 1113 nos. of BPL beneficiaries in selected 11 nos. of districts with Centrally Sponsored plan scheme under NLM.
- ❖ Presently, around 72 nos. of commercial layer farms having 45 lakhs birds are running in the state with per day egg production of 37 lakh from these commercial poultry farms.
- ❖ Presently, about 5172 nos. of broiler farms are in operation with commercial broiler birds strength 86 lakh. Broiler placements are to the extent of 20 to 25 lakh DOC (day-old-chicks) per week and 18 to 23 lakh adult broiler birds per week are entering into the market for chicken purpose.
- ❖ 48 nos. of district poultry hatcheries have been established under the financial assistance of SGSY Infrastructure fund to produce day old chicks to meet the demand of Backyard Poultry Rearing scheme in the state. Out of 48 hatcheries, 31 hatcheries are functioning and successfully produced 4.5 lakh Day Old Chicks (DOC).
- ❖ Under State Agricultural Policy in 2014-15, Capital Investment Subsidy amounting to Rs. 489.30 lakh for setting up 93 broiler farms and Rs. 70 lakh for setting up 3 layer farms in different districts of Odisha.
- ❖ **Poultry Policy** has been implemented in the State during the year 2015-16. It has been planned to produce 100 lakh egg per day and 100 TMT broiler meats per annum by 2020 with a creation of huge employment opportunities.

4.1 Poultry and Duck Breeding Farms:

There are 8 nos. of state poultry farms and 2 nos. of duck breeding farms functioning having present parent stock of 3706 low-input-technology poultry birds & 1653 nos. of ducks. From these farms, 3.18 lakh nos. of day old chicks and 0.32 lakh nos. of day old ducklings are supplied to interested farmers at reasonable price.

5.0 Fodder Development:

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 given in Table:

Table – 16: Availability and Requirement of Green and Dry Fodder in Odisha

Feed stuffs	Supply in'000 MT	Demand in'000MT	Short fall in'000MT	Percentage of shortfall
Green Fodder	16121.750	31203.66	15081.91	48.4 %
Dry fodder	10620.831	13891.44	3270.609	23.5%

Fodder Seed Production Farms in the State:

The Department of Animal Husbandry & Veterinary Services has eight numbers of fodder seed production farms which are located in different Agro-climatic zones of Orissa (as mentioned below). The seed production farms were established with an objective to ensure supply of quality fodder seeds to the farmers for enhancing the productivity of fodder crops. The fodder seeds produced are being utilized for demonstration programme and fodder production in the Departmental dairy farms. Besides these, the pasture seeds produced in these farms are being sold to Soil Conservation Department, Forest Department and public for undertaking pasture development programme in the State. Till date 110.00 Qtls of fodder seeds 950 qtls of Green fodder and 232000 Nos. of root slips have been produced from Fodder seeds production farm of the State.

Table – 17: List of Fodder Seed Farms in the State

Sl.	Name of the farm	District	Area in Ac.	Agro-climatic zone
1	Panchamahahal	Angul	100	Mid-Central table land Zone
2	Salapada	Keonjhar	100	North-eastern coastal plain zone
3	Tarbod	Nuapada	96	Western undulating zone
4	Chiplima	Sambalpur	50	Western- central table zone
5	Kathapal	Mayurbhanj	55	North-central plateau zone
6	Kurmunda	Sundargarh	30	North-western plateau zone
7	Randapalli	Koraput	25	Eastern Ghat highland zone
8	Landibandh	Boudh	60	Mid-Central table land Zone
		Total	516	

Fodder Demonstration Farms:

The State have 13 fodder farms where green fodder & root slips of different fodder crops are being produced. The fodder and root slips produced in these farms are sold to dairy farmers and other agencies of the State. Till date these farms have produced 2546 Qtls of fodder and 452000 Nos. of root slips. The list of the farm is given below

Table – 18: List of Fodder Farms in the State:

Sl. No	Name of the Fodder farm	District	Area of the farm	Agro-climatic zone
1	Bahudarada	Bhadrak	10.00	North Eastern Coastal plain
2	Hansapada	Puri	11.20	East & South Eastern Coastal Plain
3	Pipili	Puri	6.5	East & South Eastern Coastal Plain
4	Sagadi	Cuttack	20	Mid Central Table Land
5	Barimul	Kendrapada	10.90	East & South Eastern Coastal Plain
6	Badmal	Jharsuguda	5.0	West Central Table Land
7	Laxmisagar	Khurda	5.0	East & South Eastern Coastal Plain
8	Gatiroutpatna	Cuttack	25.0	Mid Central Table Land
9	Haldipalli	Bargarh	11.07	West Central Table Land
10	Ainthapalli	Bargarh	8.0	West Central Table Land
11	Mahakhand	Bargarh	8.0	West Central Table Land
12	Kakatpur	Puri	15.0	East & South Eastern Coastal Plain
13	Pratappur	Mayurbhanj	7.8	North Central Plateau
		Total	143.47	

Minikit Programme on fodder Crops :

Under this programme the Government of Odisha have supply different fodder seed minikits to the districts for distribution to the farmers on free of cost. This year 2678 Nos. of minikits during kharif, 788 Nos. of minikits during Rabi season and summer 770 Nos have been distributed to the farmers. Further, Govt. of India has also supplied 150 Nos. of minikits during Kharif season for demonstration purpose.



Enrichment of crop Residue:

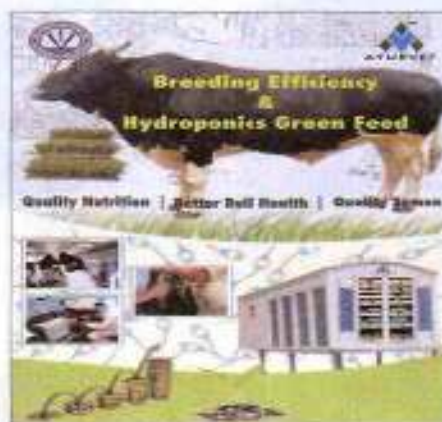
This programme is being taken up by Government of Odisha to enhance the feeding quality of roughages/crop by-product i.e. to maintain the health, productivity of animals in the State. This year under Enrichment Crop Residue Programme the State Government provided Rs. 36.00 Lakhs. Under this programme 1500 Gram Panchayats has been included to take up 6000 units of crop residue programme. Till date 3610 units has been completed.

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

During this year Govt. of Odisha has provided Rs. 323.00 Lakhs for strengthening the farms as well as for training of farmer. A sum of Rs. 299.34 lakhs has been utilized for Development of fodder demonstration farms and for development of infrastructure at Seed production farm Infrastructure at Fodder Seed/fodder Production farm Angul and Tarbod, Nuapada, Badamal, Fodder training Centre at Fodder farm Pipili etc. have been taken up. Till date about 110 Qtls of Certified fodder seed has been produced at Fodder seed production farms.

Green Fodder Security through Hydroponics:

Under Rastriya Krishi Vikash Yozana (RKVY) programme one hydroponic unit has been proposed the year 2015-16 on pilot project basis to be installed at FSB Cuttack. The RKVY Cell Govt. of Odisha, Agriculture Department has sanctioned the amount of Rs. 105.62 Lakhs. The process of installation is going on very soon production process will be start.



6.0 Livestock Health Care 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 Clinical 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.

6.1 Organisation of Mobile Veterinary Unit:

The Mobile Veterinary Unit is operational in all the Blocks of the state to reach the inaccessible areas of the block with a team of one Veterinary Doctor, one Para-vet and one attendant for providing doorstep service to the farmers in order to ensure effective veterinary service delivery. The Department has introduced Mobile Veterinary Units in 261 blocks of the State under RKVY funding & 53 MVUs under State Plan. This scheme has registered a huge success due to the overwhelming response of the farming community in the remotest part of the State. The following achievement has been made under this programme.

Table - 19 - Performance of Mobile Veterinary Units up to February-2016

Name of the Scheme	No. of MVU Days	No. Village Covered	No. of Livestock covered under Treatment, castration, operation	No. of Livestock covered under vaccination
MVU-40(RKVY)	8768	16601	435729	627400
MVU-65(RKVY)	14067	26979	623940	950768
MVU-53(State Plan)	11436	23238	775989	1093740
Strengthening of MVU in Odisha (156 MVUs RKVY)	33255	61459	1561308	1765625
Total	67526	128277	3396966	4437533

6.2 National Animal Disease Reporting System (NADRS)

The NADRS involves a computerized network integrating MIS and GIS linking each Block, District & the State headquarters to the Central Disease Reporting & Monitoring Unit at DADF, Newdelhi. All the 314 blocks, 30 CDVO offices, Animal Disease Research Institute, Phulnakhara and the Directorate of AH&VS, Odisha, Mangalabag, Cuttack have been migrated to Broadband connectivity from VPN for immediate disease reporting to the state and to Govt of India. The network connectivity at present is feasible to 307 nodes. The regular disease reporting status stands at 105 out of 314 nodes.

6.3 Assistance to State for Control of Animal Diseases (ASCAD):

This is a continuing CSP scheme with funding pattern of 50:50 as CS: SS from the year 2015-16 (earlier it was 75:25 as CS: SS). The scheme is implemented to control economically important diseases of livestock & poultry by way of immunization. Awareness-cum- Animal Health camps are organized both at block level and district level for creating mass awareness among livestock owners regarding disease control. Further Training Programme of Vets & Paravets is being organized to refresh their knowledge on control of different aspects and containment of animal diseases.

Table – 20 Achievement under ASCAD during the year 2015-16:

Sl. No	Activities	Phy Target	Achievement (Upto Feb-2015)
1	Immunisation against economically important disease		
i	FMD Vaccine	60,00,000	36,14,600
ii	HS vaccine	90,00,000	52,45,600
iii	BQ Vaccine	68,46,000	44,49,300
iv	Anthrax Vaccine	6,00,000	19,65,600
v	ENT Vaccine	14,00,000	11,49,200
vi	Goat Pox Vaccine	55,00,000	4,54,100
vii	RD Vaccine	35,00,000	33,04,600
2	Refresher Training Programme for Vets & Para-vets		
i	Training for Veterinarians	10 batches	10 batches
ii	Training for Para-vets	10 batches	10 batches
3	Organisation of Awareness- cum- Animal Health Camps		
i	Block Level camp	628 nos.	628 nos.
ii	District Level camp	60nos.	60 nos.

6.4 Control Programme (C.P.):

In order to control most economically important & contagious diseases of animals in the State like Brucellosis, PPR and Theileriosis following control programmes have been included under C.P. for the year 2015-16.

Table – 21: Control Programmes (C.P):

Sl. No.	Activities	Phy. Target	Achievements
1	Immunisation against economically important disease		
i	Brucella Vaccine	50,000	No funds have been received
ii	PPR Vaccine	80,00,000	Actions have been taken for procurement & utilization of 40,00,000 doses
iii.	Theileriosis Vaccine	7,88,843	Actions have been initiated for procurement of 200,000 doses

6.5 Vaccine production and Preventive vaccination in Livestock and Poultry:

The Odisha Biological Products Institute, Bhubaneswar, an ISO 9001:2008 certified institute had produced different life saving bacterial and viral vaccines for protecting the livestock wealth in the state. One Satellite Unit OBPI, Berhampur is also functioning to produce the Anthrax Spore Vaccine (ASV) and Enterotoxaemia vaccine (EntV). The details of production and supply of different vaccines are enumerated at Table-21.

Table-21: Vaccine Production and Supply during 2015-2016 (upto Feb-16)

Sl No.	Name of the Vaccines	Target (in lakh doses)	Name of the Manufacturing Unit	Progressive Production (in lakh doses)	Progressive Supply to the field (in lakh doses)
1	2	3	4	5	6
1	H.S.V. (Alum)	113.50	O.B.P.I.BBSR	72.05	72.48
2.	B.Q.V.	75.24	O.B.P.I.BBSR	52.67	54.21
3	RD (R ₂ B)V	39.57	O.B.P.I.BBSR	36.54	44.53
4	ASV	22.10	OBPI (SU) BAM	22.89	23.63
5	ENT	13.04	OBPI (SU) BAM	13.03	13.03
	Total	263.45		197.18	207.88

Table 22: Vaccine Procurement and Supply during 2015-2016 (up to February -16)

Sl No.	Name of the Vaccines	Target (in lakh doses)	Name of the Manufacturing Unit	Progressive Procurement (in lakh doses)	Progressive Supply to the field (in lakh doses)
1	2	3	4	5	6
1	F.M.D.	60.27	IIL/Intervet	43.81	49.55
2.	Goat Pox V.	17.26	IAH&VB Kolkata	4.84	5.63
3	P.P.R.	61.55	VBRI Hyderabad	13.80	33.54
	Total	137.91		62.45	88.72

During the current Year 52,45,600 Doses of HSV, 44,49,300 Doses of BQV, 36,14,600 Doses of FMDV 19,65,600 Doses of ASV, 11,49,200 Doses of ENTV, 32,22,900 Doses of PPRV, 33,04,600 Doses of RDV, 4,54,100 Doses of GPV has been utilized during 2015-16 (upto February-16) for preventive inoculation of animal health against different contagious & Zoonotic diseases.

6.6 Society for Prevention of Animal Diseases:

The Department gives focus on service delivery through mass vaccination, deworming, skill up gradation and awareness campaign on preventive & animal health care measures. To achieve this goal the Society for Prevention of Animal Diseases (SPAD) was registered under Society Registration act 1860 (Act XXI) on 18.05.2007 and presently functioning at the Directorate of Animal Husbandry & Veterinary Services, Odisha, Cuttack.

Aim and Objective of SPAD:

The major objectives of the society are as follows.

1. To co-ordinate with the other Departments & agencies in organizing trainings, seminars, workshop & animal health improvement activities.
2. To raise public awareness and community participation through appropriate social mobilization for improvement of Livestock Health Status of Odisha.
3. To mobilize resources from all possible sources with the approval of Governing Body to foster the cause of Livestock Development through proper restoration of animal health.
4. Generate subsistence income and gainful employment by providing training to field veterinary staff for control and prevention of Bacterial and viral diseases.
5. To Improve & maintain standard quality of Veterinary Biological products in production & marketing keeping pace with the changing trends.
6. To facilitate the process for complying with GMP & GLP norm and acquiring for ISO - 9002 certification. (Total Quality management).
7. To facilitate appropriate Research Work for proper improvement of animal health & to provide specific extension pertaining to Livestock healthcare and management.
8. To ensure Proper Disease Surveillance, Epidemiological survey and forecasting to combat contagious diseases of Livestock and Poultry.
9. To provide the quality vaccine at village level farmer's doorstep.
10. Recycling of funds generated by sale of Inputs and services for sustainability of animal health activities.
11. To disseminate appropriate technology by undertaking proper investigation and study for prevention & control of diseases through seeking co-operation from farmers
12. To protect farmers interest of reducing environmental pollution
13. To facilitate expert potentialities of Biological by establishing contact with similar institutions in India and abroad for securing services & expertise to obtain requisite equipments & instruments for the purpose.

Financial resource of the Society and Accounts

- i) Grants from Government of India and Government of Odisha or from any donor agency or donations received from any known source.
- ii) Funds generated as **User Fees** relating to maintenance of animal health, rental and other charges for accommodation and use of facilities as would be decided by the governing body

The society assists during emergency to procure vaccine, medicines as well as mobility during natural calamities. Besides, the funds of the Society is utilized for strengthening OBPI, DDL, CIL & ADRI, for training & awareness Programme, animal health control programme and mass deworming of breedable Cows etc.

6.7 Animal Disease Research Institute (ADRI)

The Animal Disease Research Institute, Phulnakhara is a state level referral laboratory of the department dealing with research and diagnosis of different livestock diseases as well as disease monitoring & surveillance in the state. The institute further imparts training to the field functionaries working in different capacities of this department for up-gradation of their scientific know-how. The institute also renders expertise service during the phase of different natural calamities like flood, cyclone, avian influenza etc.



Different Divisions / Projects functioning at ADRI :

As of now, the Animal Disease Research Institute is functioning with the synergistic effect of following key laboratories (Divisions) and Projects/Schemes.

1. Pathology Division
2. Parasitology Division
3. Bacteriology Division
4. Virology Division
5. Bio Safety Level - II Laboratory
6. Herbal Division
7. Projects / Scheme such as
 - (i) Strengthening of Disease Surveillance by ADRI*
 - (ii) AICRP on ADMAS
 - (iii) AICRP on FMD
 - (iv) SPAD project on Epidemiological Study of Bovine Mastitis
 - (v) Training Programmes

1. Activities of Pathology Division –

- ❖ Regular and Routine hematological study and urine analysis.
- ❖ Post-mortem examination of livestock and poultry.
- ❖ Histo-pathological examination of tissue samples

Table 23

Sl. No.	Parameters	No. of samples
1	No. of blood samples tested for haemogram study	5560
2	No. of urine samples analyzed for different bio-chemical study.	425
3	No. of Post-mortem conducted for poultry	2925
4	No. of P.M. conducted for large and small animals	16
Numbers of farmers benefited		3463

2. Activities of Parasitology Division –

- ❖ Regular and routine testing of blood samples for blood protozoan diseases. Faecal samples / skin scrapings for endo and ecto- parasitic diseases.

Table 24:

Sl. No.	Parameters	No. of samples tested
1	No. of F/S examined in different species	1715
2	Estimation of Egg Per Gram	85
3	No. of skin scrapings examined	12
4	No. of blood smears examined for blood protozoa	10969
	Sample +ve for Theileria	1040
	Sample +ve for Babesia	01
	Sample +ve for Trypanosoma	222
	Sample +ve for Anaplasma	05
Numbers of farmers benefited		6143

3. Activities of Bacteriology Division and SPAD project on Epidemiological study of Bovine Mastitis

- ❖ Isolation and identification of bacteria, mycoplasma and fungi along with antibiotic sensitivity study.
- ❖ Implementation of the project "Standard Therapeutic Regimen of Bovine Mastitis with respect to Epidemiological survey in field condition".



Table 25 :

Sl. No.	Name of the samples tested	No. of Samples Tested
		2015-16
1	No. of milk samples tested for MCMT, Culture and antibiogram study	565
2	No. of Blood samples, Uterine samples and other tissue samples tested for culture and antibiogram study	107
Total nos. of farmers benefited for diagnosis & treatment		672

4. Activities of Virology Division & AICRP on FMD (Collaborative Centre)

- ❖ Implementation of the objectives of All India Co-ordinated Research Project on Foot and Mouth diseases (ICAR Project).
- ❖ Surveillance and Diagnosis of Foot and Mouth Disease (FMD) to develop a complete picture of the prevalence of the disease in the State.



Table 26:

Sl. No.	Type of Samples	Total samples collected	No. of tests conducted	No. of samples sent to PD FMD, Mukteswar & IIL, Hyderabad
1	Tongue Epithelium for s-ELISA test	13	13	13
2	Serum samples for DIVA ELISA test	4108	3363	1152
3	Serum samples for LPB ELISA test	4514	178	1645
4	Serum samples from small animals (Sheep & Goat)	1081	61	216

5. Bio-Safety Level-II Laboratory & Avian Influenza Surveillance Programme

A.D.R.I. team have been proactively engaged for surveillance of Avian Influenza both in domestic and migratory fowls.

Tracheal swabs Cloacal swabs, serum samples and environmental samples are collected from poultry birds, wild birds and migratory birds from water bodies like, Chilika Lake (Nalabana), Ansupa Lake, Bhitarkanika bird Sanctuary etc.. Details of serum samples



tested at BSL – II Laboratory of ADRI and the samples despatched to different referral laboratories for screening against A.I. as detailed below:

Table 27:

Total samples collected	Serum samples tested BSL-II Lab. of ADRI	Samples sent to RDDDL, Kolkata / NIHSAD, Bhopal & tested			
	Serum	Serum	Swabs	Dead birds	F/S & Env. Samples
7744	603	1359	5472	05	305

6. Activities of Herbal Division

- Research on indigenous medicinal plants of Veterinary importance.
- Preparation of herbal drugs for dermatitis and various skin diseases of small animals (Experimental trial).
- Maintenance of herbal garden and herbarium and identification of medicinal plants for therapeutic use.



7. Activities of different Projects / Schemes functioning at ADRI

(I) State Plan Scheme "Strengthening of Disease Surveillance by ADRI"

(a) Strengthening of Disease Surveillance

In order to strengthen the Early Warning Signal (EWS) in shape of Animal Disease Surveillance, a State Plan Scheme is being successfully implemented on proactive basis for control and containment of unprecedented disease outbreak and economic loss. All DDL/ CILs/ SVL are engaged in surveillance work to cover all the districts uniformly at a time. In addition, all animal and poultry disease outbreaks are attended instantly in every nook and corner of the state for prompt diagnosis and providing effective treatment for its control/ containment.



Table 28: The occurrence of different outbreaks in the State are enlisted below.

Sl. No.	Name of the disease	No. of outbreaks reported	No. of animals affected	No. of animals died	No. of district affected
1	FMD(Bovine)	20	1597	82	07
2	H.S.(Cattle, Pig,Goat)	07	408	285	06
3	B.Q.	15	75	58	08
4	Anthrax	18	125	125	04
5	PPR (Goat)	5	109	55	02
6	Classical Swine Fever (Pig)	01	57	42	01

(b) Surveillance on Bovine Spongiform Encephalopathy (BSE)

To achieve negligible status on BSE for the state, Brain samples are collected from the dead animals such as Cattle & Buffalo showing the nervous symptoms prior to their death from various villages and different slaughter houses for its screening against BSE at RDDI, Kolkatta.



Table 29:

Sl. No.	Year	No. of Brain samples collected and despatched	No. of samples found +ve	No. of samples found -ve
1	2015-16	05	-	05

(c) Surveillance on Brucellosis/John's Disease (JD)/Tuberculosis (TB)

Brucellosis causes abortion storm in productive dairy animals and having zoonotic importance. To assess the prevalence of Brucellosis in animals of our state surveillance is carried out. Brucellosis Control Programme was already launched in the State with an aim to collect random bovine serum samples covering all the 30 districts to be screened by MRT / RBPT & ELISA test. Similarly Govt. farm animals are regularly screened against TB and JD.

Table 30:

Sl. No.	Disease	No. of samples / animals tested	No. found +ve	+ve Percentage
1	Brucellosis	32	0	0
2	JD	32	0	0
3	TB	32	3	9.3

(II) All India Co-ordinated Research Project on Animal Disease Monitoring and Surveillance (AICRP on ADMAS, ICAR Project)

- ❖ To maintain a data bank on the epidemiology of economically important diseases.
- ❖ Beside outbreaks, screening of serum samples from all species of apparently healthy animals to ascertain prevalence of different contagious and zoonotic diseases.

Table 31:

Species wise serum collection for Sero-diagnosis of different diseases for the year 2015-16

	Cattle	Buffalo	Sheep	Goat	Pig	Total
Total no. of serum samples collected	157	31	44	92	7	331
+ve for Infectious Bovine Rhinotrachitis	-	-	-	-	-	-
+ve for Brucellosis	-	-	-	-	-	-
+ve for Leptospirosis	-	-	-	-	-	-
+ve for Classical Swine Fever	-	-	-	-	06	-

(III) Training Programmes of ADRI

Resource persons of this institute are imparting skill up-gradation and refresher training to Veterinarians and Para-Veterinarians of the State under ASCAD programme to augment their technical-know-how. Further different types of Training Programmes on disease control are conducted in this Institute as follows.



Table 32:

Particulars	No. of training batch	No. of Trainees
Vets Trained (ASCAD)	10	164
Para-vets Trained (ASCAD)	10	200
Hand Set Training to Vets under Brucella C.P.	01	30
Hand Set Training to Vets on screening test for Brucellosis, TB & JD under FPRS & CB Bull Production Programme	01	20

7.0 National Livestock Mission:

National Livestock Mission (NLM) a CSS under National Livestock Mission was started during 2014-15 to achieve sustainable growth and development of Livestock sector. Three submission viz. Livestock Development, Feed and Fodder Development and skilled Development, Technology transfer and extension pertaining to state perspective have been proposed under NLM, germane to improvement of Livestock productivity and initiatives under this programme. During the year 2014-15 GOI had sanctioned Rs.525.69 Lakh as central Share and in CS::SS::75:25) basis Rs.141.83 Lakh had been sanctioned as State Share, amounting to Rs.667.52 Lakh had been drawn on 24.02.2015. The following activities have been implemented through the Principal, VOTI, FSB, CDVOs of the State, Asst. Director (PR), GM OMFED and J.D, Chipilima.

A. LIVESTOCK DEVELOPMENT

During the year 2014-15, 1113 Nos. of BPL beneficiaries were benefited with total expenditure of Rs.41.75 Lakhs in 11 Hud Hud affected district i.e. Gajapati, Ganjam, Kalahandi, Kandhamal, Kendrapara, Keonjhar, Koraput, Malkangiri, Nuapada, Nabarangpur and Rayagada @ Rs50/- per bird and @ 45 birds per BPL beneficiary with grant of night shelter of bird @ 1500/- per unit.



1. Under the programme Modernization and development of Breeding Infrastructure-Strengthening of State Govt. Sheep Breeding farm, an amount of Rs.33.00 Lakhs (C.S.24.75 Lakhs, S.S.8.25 Lakhs) was placed to J.D, Chipilima. Out of which fund had already been placed to R.D. Dept, Sambalpur and the civil work is going on and 74 nos. of ewe and 2 Ram were induced.
2. Under the programme Risk Management – Insurance Coverage for animals (including Small Animal) 60,000 Animals were insured through UIIC, 10 Satya Nagar, BBSR. With an expenditure of Rs. 142.10 Lakhs (C.S.106.02 Lakhs, S.S. 36.08 Lakhs) and till date 142 nos. of death claims have already been settled and the claim amount were handed over to the concerned farmers through CDVOs.

B. FEED AND FODDER DEVELOPMENT

1. Fodder Seed production/ procurement and distribution(CS:SS-75:25):- under this programme 40,000 minikits of certified seeds with an expenditure of Rs.138.00 Lakhs, in which 200 acres of Maize has been cultivated in Nabarangpur district from 20 quintals of foundation seed and 125 acres of Cow pea has been cultivated in Dhenkanal dist from 10 quintals of foundation seed to fulfil the target to distribute 40,000



minikits of certified seeds in free of cost to Livestock farmers to produce Fodder in their for Livestock feeding by reducing the cost of Milk and Meat production.

2. **Under Establishment of Fodder Block Making Unit (FBMU)-** 4 Fodder Block Making units has been proposed with an expenditure of Rs.75.00 Lakh C.S. & Rs. 25.00 Lakh OMFED share. By this 4 units proposed to establish under Cuttack Milk Union, out of which one at Adashpur of Cuttack Dist already started production @ 5 Metric Tonne per day, other 3 at Mahanga of Cuttack District, Duhuria of Kendrapara Dist. & Balikuda of Jagatsinghpur Dist. are under Civil construction stage for installation of the Machine.

C. Skill Development, Technology Transfer and Extension:-

1. Under IEC support for Livestock extension Rs. 66.67 Lakhs has been expended for preparation of serials & episodes in CS:SS::75:25 basis. Serial "**PARASAMANI Season-II**" is weekly telecasted on Friday 7:30 P.M. & Saturday 9:30 A.M. in Door Darshan, Odia to create awareness for Livestock Development.



2. Under Training & Capacity building 5 batches of @ 20 Nos. of Vets per batch Trainings are imparted for Vets in Frozen Semen Bank (FSB), Khapurua, Cuttack & for Para Vets & Farmers Trainings are imparted at District Level with an expenditure of Rs.51.00 lakhs CS= 100%. In this 614 batches of Training



Programmes are conducted to train 11025 Nos. of Farmers, 880 Nos. of Para Vets & Fodder Field Staff, 100 Nos. of Veterinary (In service) officers, 900 Nos. of other Stakeholders of Animal Husbandry Programme totalling to 12,905 nos. of people regarding Advance & modern Livestock Development technologies.

3. Livestock Mela:-

Under this component Rs. 60.00 lakhs has been expended in CS:SS::75:25 basis to conduct 30 Livestock Melas i.e. 1 Mela for 2 days in each district to encourage people for qualitative & quantitative Livestock rearing as well as to clarify the doubts & ambiguity of Livestock Farmers through farmers- Scientist direct interactions. In this programme successful Livestock Farmers are awarded prizes for their Livestock exhibits.

4. Exposure Visit of Livestock Extension Facilitator (Vets/ Para Vets):-

Under this component Rs.30.00 Lakhs expended which is C.S = 100%. Under this 48 Exposure Visit programmes are conducted i.e. 4 Exposure Visits through VOTI, BBSR for in service Vets & 44 Exposure Visits for In service Para Vets. Under this 40 Vets have visited successful sites of Animals husbandry Development



outside Odisha to update their knowledge on modern & Advance Livestock Practices. Under this programme 440 Nos. of Para Vets also have Visited successful sites on animal husbandry Development outside the State.

5. Exposure Visit of Farmers:-

Under this programme Rs.30.00 lakhs expended to conduct 30 batches of Exposure Visit of Farmers i.e. 1 batch of 10 Nos. of livestock Farmers in each district. 300 Farmers have been Visited successful sites outside odisha to study & update their knowledge on Modern Advanced livestock Rearing practices under Animal husbandry Development.

8.0 Training & Capacity Building:

8.1 In-service Training and Exposure Visit:

The Department duly acknowledges capacity development of its human resources and good investment is made for building their competency. There are seven numbers of training institutes functioning in the department to provide different types of training program for different levels of in-service personals. 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.

Exposure visits for Vets organized during 2015-16 (Upto Jan., 2016)

Sl. No.	Place of Visit	Period	No. of Participants	Source of Fund
1	CIRG, Mathura	6 th to 10 th October, 2015	10	NLM
2	CPDO, Hissarghata	16 th to 21 st November, 2015	8	NLM
3	CPDO, Hissarghata	21 st to 26 th September, 2015	8	NLM
4	CSWRI, Rajasthan	28 th September to 1 st October, 2015	18	State Plan 2013-14
5	NDRI, Karnal	20 th to 25 th December, 2015	8	State Plan 15-16
6	Sheep Breeding Farm, Hissar	7 th to 11 th December, 2015	7	State Plan 15-16
7	Sheep Breeding Farm, Kodaikanal	28 th to 31 st October, 2015	10	NLM
	TOTAL		69	

Livestock owners are also trained at block and District level. Under various schemes, livestock farmers are trained on Animal Husbandry subjects. The details are given below.

Sl. No.	Name of Event	No of Batches	Name of Scheme
1	Skill Upgradation Training on Dairy/Sheep/Goat farming	314 batches involving 6280 farmers	State Plan – Up-gradation of skill in self-employment under ARD sector

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.

Training of Veterinary Officers at VOTI (Upto February, 2016)

Sl. No.	Training Name	Period	Participant Attended
1	Disaster Management	06-Apr-15 - 06-Apr-15	23
2	Climate Change & Livestock Management	07-Apr-15 - 07-Apr-15	23
3	Disaster Management	09-Apr-15 - 09-Apr-15	24
4	Climate Change & Livestock Management	10-Apr-15 - 10-Apr-15	24
5	Metabolic Disease & Mastitis Control	15-Apr-15 - 16-Apr-15	27

Sl. No.	Training Name	Period	Participant Attended
6	Metabolic Disease & Mastitis Control	17-Apr-15 - 18-Apr-15	24
7	Entrepreneurship Development	20-Apr-15 - 24-Apr-15	12
8	Metabolic Disease & Mastitis Control	25-Apr-15 - 25-Apr-15	21
9	Soft Skill	27-Apr-15 - 29-Apr-15	13
10	Canine Disease & its treatment	30-Apr-15 - 30-Apr-15	22
11	Training of Trainers	04-May-15 - 08-May-15	19
12	Livestock Environment Interaction	11-May-15 - 13-May-15	17
13	Livestock Environment Interaction	14-May-15 - 16-May-15	13
14	Entrepreneurship Development	18-May-15 - 22-May-15	20
15	Disaster Management	23-May-15 - 23-May-15	22
16	Soft Skill	25-May-15 - 27-May-15	13
17	Canine Disease & its treatment	28-May-15 - 28-May-15	21
18	Disaster Management	29-May-15 - 29-May-15	22
19	Climate Change & Livestock Management	30-May-15 - 30-May-15	22
20	Accounts & Administration	02-Jun-15 - 06-Jun-15	18
21	Accounts & Administration	08-Jun-15 - 12-Jun-15	19
22	Training of Trainers	16-Jun-15 - 20-Jun-15	12
23	FPRS-TOT	13-Jul-15 - 17-Jul-15	20
24	Feed & Fodder-TOT	21-Jul-15 - 25-Jul-15	21
25	Infertility-TOT	27-Jul-15 - 31-Jul-15	19
26	Conservation-TOT	03-Aug-15 - 07-Aug-15	12
27	Assisted Reproductive Technology-TOT	10-Aug-15 - 14-Aug-15	17
28	Induction Training	26-Aug-15 - 09-Sep-15	16
29	Livestock Diseases and Its Control(2015)	21-Sep-15 - 25-Sep-15	19
30	Livestock Diseases and Its Control(2015)	05-Oct-15 - 09-Oct-15	19
31	Livestock Diseases and Its Control(2015)	13-Oct-15 - 17-Oct-15	16
32	Livestock Diseases and Its Control(2015)	02-Nov-15 - 06-Nov-15	16
33	Livestock Diseases and Its Control(2015)	16-Nov-15 - 20-Nov-15	15
34	Livestock Diseases and Its Control(2015)	23-Nov-15 - 27-Nov-15	15
35	Livestock Diseases and Its Control(2015)	30-Nov-15 - 04-Dec-15	14
36	Livestock Diseases and Its Control(2015)	07-Dec-15 - 11-Dec-15	18

Sl. No.	Training Name	Period	Participant Attended
37	Livestock Diseases and Its Control(2015)	14-Dec-15 - 18-Dec-15	15
38	Livestock Diseases and Its Control(2015)	21-Dec-15 - 26-Dec-15	17
39	Creative Thinking Skills for better Problem Solving (Off-Campus, EEI)	28-Dec-15 - 31-Dec-15	26
40	Accounts & Administration	11-Jan-16 - 15-Jan-16	16
41	Accounts & Administration	18-Jan-16 to 22-Jan-16	16
42	Disaster Preparedness in Livestock Sector	27-Jan-16 to 29-Jan-16	20
43	Accounts & Administration	01-Feb-16 to 05-Feb-16	18
44	Pet Care & Management	08-Feb-16 to 10-Feb-16	19
45	Pet Care & Management	15 -Feb-16 to 17-Feb-16	17
46	Wild Life Management	29 -Feb-16 to 04-Mar-16	18
Total			850



Exposure Visit to CIRG, Mathura



Induction Training of Fresh Veterinary Doctors



Livestock Disease & its Control under ASCAD



Disaster Management in Livestock Sector under SMILE

8.2 Society for Management of Information, Learning & Extension:

The Society for Management of Information, Learning and Extension (SMILE) is constituted in the year 2007 and has shouldered the responsibility for Capacity Building of the entire Veterinary workforce working at the different level. The organization is also taking care of the Capacity Building of both technical, non technical and ministerial staff working under the Department. It is also providing scientific knowledge and skill for livestock rearing.

During the year, the society collaborated with EEI, Hyderabad, National Watershed Mission / Central Avian Research Institute (CARI) and College of Veterinary Science & Animal Husbandry, OUAT for organizing different training programme at State level. Department of Personnel and Training, Government of India, under 'Training for All' through Gopabandhu Academy of Administration, Bhubaneswar also provided funds for organization of training programmes on Small Animal Development for Vets and Para-vets.

This year SMILE has organized Disaster Management, Human Resources Management, Soft Skill, ToT to Vets, Accounts and Administrations, Livestock and Fishery based Livelihood in Watershed area, etc.

Area specific training programme on scientific Duck Rearing and Golla Community Members has become one of the measure thrust area of this year. It is also giving emphasis to impart training to the Para-vets on extension and communication. Four nos. of leaflets and three nos. of Training Modules and Teaching material shave been developed to be used in the field Level.



8.3 Information, Education and Communication Programme

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

Achievements are as follows:

Table-36 - IEC activities under Electronic Media 2015-16

Sl.	Name of Event	Number
1	No. of programmes sponsored in AIR	130
2	No. programmes broadcast in AIR	60
3	No. of radio spots broadcast in AIR	15
4	No. of programs sponsored in Doordarshan	132
5	No. of programmes telecast in Doordarshan	92
6	No. of Ad. Film on A.I. vaccination, MVU, New Dairy Scheme, enhancement of subsidy for layer farming and cattle insurance produced	6

Sl.	Name of Event	Number
7	No. of TV spots telecast in OTV, ETV & Doordarshan on occasion of Nabakalebara	56
8	No. of news on scrolls telecast	72
9	No. of Mega Tele serial episodes of PARASAMANI season-II produced	39
10	No. of Mega Tele serial episodes of PARASAMANI season-II Telecast on Doordarshan.	35
11	No. of Departmental website maintained	3

Table-37 - IEC activities under Print Media 2015-16

Sl. No.	Name of Event	Number
1	No. of printing materials distributed	52000
2	No. of advertisement floated in newspapers (Display - 17)	17
3	No. of articles published in different newspapers and magazines	48
4	No. of news published in various news papers	140

Observation of 64th Gosambardhana Week-2015:

64th Gosambardhana Week-2015 was observed from 13.11.2015 to 19.11.2015 and celebrated throughout the state. Both state level and district level functions were organized at different places where different activities such as cattle worship, cattle show, exhibitions, meetings, prize distributions, farmers trainings etc, were organized. Similarly a state level function organized at Kothapada in Mahanga Block of Cuttack district on 17.11.2015.



Participation in India international trade fair at New Delhi:

Our Department participated in the IITF exhibition at Pragati Maidan, New Delhi on the theme of **Make in India** which was held from 14.11.2015 to 27.11.2015. Different AH activities with information about native Breeds of Odisha like Binjarpuri, Motu, Cows & Chilika Buffalo etc. were displayed inside Odisha pavilion. The various OMFED products along with information also displayed at the exhibition stall.



(India International Trade fair at New Delhi)

Participation in Annapoorna- World of Food India, 2015:

Our Department participated Annapoorna- world of Food India, 2015 which was held on 14th to 16th Sept. 2015 at Bombay exhibition Center, Mumbai. Various activities of ARD sector displayed during the exhibition.

Participation in Adibashi Mela-2016:

It was an opportunity to our Department to show cases the different activities & achievement of ARD Sector at Adibashi Mela 2016 in the Adibashi exhibition ground of Bhubaneswar for a Fort night period from 26th Jan. to 09th Feb. 2016.



(Adibashi Mela- 2016 at BBSR)

Participation in State Level Krushi Mahostav-2016.

Our Department Participated the state Level Krushi Mahostav 2016 which was held from 11.03.2016 to 14.03.2016 at Biju Patnaik Playground, Baramunda, Bhubaneswar to show case the different activities and achievement of our department in 40 nos. of Stalls. Thirty successful farmers in Small Animal Development category from 30 districts were felicitated from Hon'ble Chief Minister S.J. Naveen Patnaik.



(State Level Krushi Mahostav- 2016, at BBSR)

9.0 Animal Welfare Activities:

9.1 State SPCA Odisha:

The Prevention of Cruelty to Animals Act 59 of 1960(Central Act) has been enforced in our State for welfare of animals. The Govt. of Odisha vide Notification No.15545/Fy.AH dt.03.08.1976 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 Inspector of SPCA in the field of animal welfare are conducting mobiles 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 rouse 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. The information on animal welfare activities is available in the web site, www.statespcaodisha.com. A detail report on the activities of State SPCA, Odisha for the year 2015-16 (up to February, 2016) is mentioned below

Table – 38:

Sl. No.	Activities	2015-16
1	No. of cases prosecuted under PCA Act, 1960.	682
2	No. of warning cases issued to offenders	1027
3	No. of cases convicted	573
4	Fine money imposed on cases convicted and deposited to Govt. account by court concerned	Rs.80,745/-
5	No. of awareness Programme organized in educational institution, public places, religious places, T.V. & Radio, News paper to create awareness in general towards kindness & compassion to animals.	87
7	No. of Animal Birth Control Programme (ABC) organized to eliminate the population of stray dogs and control of Rabies.	3134

10.0 Other Sister Organizations:**10.1 Odisha 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.

10.1.1 Activities Report for the financial year 2015-16:

- ❖ Construction work of Angul Dairy Plant of 30,000 LPD capacity has already been completed. Production on experimental basis from this Plant shall be started very soon.
- ❖ Salapada Dairy having capacity of 30TLPD has already commissioned 4 months back. Processed & packed milk & milk products are being supplied to the market.
- ❖ In undivided Cuttack & Puri districts, assistance is being given for Mineral Mixture, Calcium and Vaccines. 70,000 milch animals have been included for this purpose under Gomata Samridhi Prakalap-Phase-II (RKVY SPDD NMPS).
- ❖ Assistance of Rs.160.75 lakh is being utilized for making Concrete Flooring of Cow shed. It has been targeted to cover 9300 Milk Producers under this Programme.
- ❖ National Programme for Dairy Development has been initiated in the districts of Keonjhar, Cuttack, Jajpur & Dhenkanal, Balasore & Bhadrak, Puri & Khurda.
- ❖ Ice Cream Plant at Samablpur & Bhawanipatna each with capacity of 3000 litres/day shall be established with a financial outlay of Rs.864.00 lakh for each Plant. Civil construction work is in progress.
- ❖ The proposal submitted to RKVY Cell for Processing and Marketing of Binjharपुरी (A-2) milk with financial outlay of Rs.427.37 lakhs has been approved but funds not released.
- ❖ A Proposal on Procurement of Chilika Buffalo Milk with an estimated cost of Rs.185.90 lakhs has been approved under RKVY but funds not released. Collector Puri has been requested to allot a land measuring 2 acres of land at Krushnaprasad block
- ❖ Tribal Women Dairy Project has been implemented by OMFED in KMNR, BKN, Sambalpur, Balasore, Keonjhar and Mayurbhanj districts with an approved Project cost of Rs.46.45 Crore to be completed in three years
- ❖ Under RIDF, Govt. of Odisha has sanctioned an automated 5 LLPD Dairy Plant with Project Cost of Rs.285.71 Crore to be started very soon to cater the demand of OMFED by 2020.
- ❖ Construction of 150 MT capacities new Cattle Feed Plant supported under RKVY with a Project cost of Rs.26.60 Crore has already been started at Jagannathpur on turnkey basis with NDDB, Anand.

New Proposals submitted under RKVY during 2015-16:

- ❖ Establishment of 10 nos. of ice cream parlours in Bhubanewar Region.
- ❖ Income Generation by Introducing Push Carts, Deep Freezers & visi coolers for ice cream marketing.
- ❖ Working capital for reprocessing of Skimmed Milk Powder (SMP) as one time subsidy under Assistance to Dairy Cooperative Milk Producers Federation.
- ❖ Under RIDF Proposal for construction of 110 nos. DCS Buildings for all District Milk Unions with an estimated project cost of Rs.151.25 Crores.
- ❖ A Product Plant at Bolangir with an estimated project cost of Rs.53.30 Crores has been submitted under RIDF for consideration.

Pending New Proposals:

- ❖ Fishfed Plant at Kaushalayaganga with project cost of Rs.25 crores for which Director Fisheries have requested to allot a land measuring a land of 2 acres of land.
- ❖ Proposal for upgradation of Dairy plant at Tangi from 10TLPD to 30 TLPD
- ❖ Proposal for new 30,000 LPD Dairy plant at Tirtol

10.2 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, Buffalo Bulls and to propagate different types of fodder cultivation, Cattle Feed and encourage public for the same.

- Table-40: Natural Breeding in Cattle & Buffalo in the Year 2015-16 (upto Feb-2016)

Year	No. of Buffalo Bulls	No. of Hariyana & crossbred Bulls	No. of Service done	Progeny Born		Area cultivated in Acres	Fodder Produced in Qtls.
				Male	Female		
2015-16	263	59	6182	2231	2097	8.00	2060.00

Besides Utkal Gomangal Samiti has two Bull Rearing Farms, one at Patha near C.R.R.I., Cuttack and other is at Bhogra near Khuntuni where Bulls/ Buffalo bull calves are being reared up till the attaining the Breedable age. At present, there are 12 young buffalo bull calves and one CB Bulls are maintained at Bull Rearing Farm, Patha. During the year 2015-16 this organisation has already supplied 15 nos. Murrah Bufflo bulls and 3 nos. of Hariyana Bulls (U.G.S.) and 6 nos. of Murrah Buffalo Bulls to the stud centres located in the State with the financial support of O.L.R.D.S. under NPCBB programme.

10.3 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. Till date, 107 PPCS/WPCS, Govt. of Odisha & OSCSTDFCC are members of Federation. Due to paucity of funds of the federation as well as the defunct stage of all most all PPCSs, marketing of farmers output was stopped. However, OPOLOFED's marketing activities like supply of eggs, packed eggs, dressed chicken meat to the consumers of Bhubaneswar and Cuttack is continuing.

During the year 2015-16, three OPOLFED Chicken Fresh outlets were established at Sahid Nagar, IRC Village and OUAT Campus, Bhubaneswar with the financial assistance from Fisheries and ARD Department, Govt. of Odisha.

About 6 lakhs of eggs and 10 M.T. of dressed chicken meat are being marketed by OPOLFED in Bhubaneswar and Cuttack City in every month.

387 nos. of members of different affiliated PPCSs/WPCSs of OPOLFED have been trained for backyard poultry rearing followed by supply of inputs like 28 days low input birds, feed, medicine, feeder and drinkers etc.

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