



GOVERNMENT OF ODISHA

ANNUAL ACTIVITY REPORT
2017-18

**FISHERIES & ANIMAL RESOURCES DEVELOPMENT
DEPARTMENT**

ANIMAL RESOURCES DEVELOPMENT SECTOR

SL.NO.	SUBJECT / DESCRIPTION	PAGE
Chapter – 1.0 Sectoral Profile		
1.0	Introduction	53
1.1	Financial Resources 2017-18	54
1.2	Vision, Mission & Goal	55
1.3	Institutional Mechanism	56
1.4	Supply of Livestock Outputs	57
1.5	Thrust Areas of Animal Resources Development Department	58
Chapter – 2.0 Dairy Development		
2.1	Odisha Livestock Resources Development Society(OLRDS)	59
2.2	Objectivity of OLRDS	59
2.3	Function of OLRDS	60
2.4	Major Achievements of OLRDS	61
2.5	Artificial Insemination in Cattle and Buffalo	61
2.6	Frozen Semen Bank (FSB)	62
2.7	Information Network for Animal Productivity & Health(INAPH)	63
2.8	Recording and Performance Analysis of Crossbred Bovines	63
2.9	Controlled Breeding Programme	63
2.10	Use of Sex Sorted Semen	64
2.11	Conservation and Improvement of Native Breeds	64
2.12	Integrated Livestock Development Programme - Kalyani	66
2.13	Integrated Livestock Development Centre - J.K. Trust Gram Vikas Yojana	67
2.14	Livestock Insurance	69
2.15	Seminars / Workshops	69
2.16	Facebook Page of OLRDS	69
2.17	Strengthening of Dairy Organization	70
2.18	Dairy Entrepreneurship Development Scheme	70
Chapter – 3.0 Small Animal Development		70
Chapter – 4.0 Poultry Development		72

Chapter – 5.0 Fodder Development		
5.1	Fodder Development Programmes in the State	73
5.2	Fodder Seed Production Farms in the State	73
5.3	Fodder Demonstration Farms	74
5.4	Fodder Minikit Demonstration Programme	74
5.5	NLM Fodder Development Programme	74
Chapter – 6.0 Livestock Health Care Service Delivery		74
6.1	Mobile Veterinary Unit (MVU)	75
6.2	National Animal Disease Reporting System (NADRS)	75
6.3	Assistance to State for Control of Disease (ASCAD)	75
6.4	Control Programme (C.P.)	76
6.5	Vaccine Production and Preventive Vaccination in Livestock and Poultry	76
6.6	Society for Prevention of Animal Diseases (SPAD)	76
6.7	Establishment of Animal Helpline with Veterinary Ambulance	78
6.8	Support to Private Goushalas	78
6.9	Animal Disease Research Institute (ADRI)	78
Chapter – 7.0 National Livestock Mission (NLM)		84
Chapter – 8.0 Training & Capacity Building		
8.1	In-Service Training and Exposure Visit	87
8.2	Society for Management of Information, Learning & Extension (SMILE)	89
8.3	Information, Education and Communication Programme	91
Chapter – 9.0 Animal Welfare		
9.1	State SPCA Odisha	92
Chapter – 10.0 Other Sister Organisation		
10.1	Utkal Gomangal Samiti (UGS)	93
10.2	Natural Breeding Programme	93
Chapter – 11.0 Odisha State Poultry Products Co-operative Marketing Federation Ltd. (OPOLFED)		
11.1	Poultry Activities taken up during 2017-18	94
Chapter – 12.0 Odisha State Cooperative Milk Producers Federation Ltd.		
12.1	Activities Report for the year 2017-18	95

**Animal
Resources
Development
Sector**

ANIMAL RESOURCES DEVELOPMENT SECTOR

SECTORAL PROFILE:

1.0 Introduction

Livestock sector plays an important role in rural economy of the State. The growth rate of livestock sector is steady & it is being achieved despite the fact that the investment in this sector is not substantial. This is the sector where the poor gets benefits directly. 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 ownership of the livestock in the State is more evenly distributed with landless labourers and marginal farmers owning majority of livestock. This is one of the sector in which the rural women play a significant role in Animal Husbandry and are directly involved in most of the operations relating to feeding, breeding, management and health-care of the livestock.

The Animal husbandry sector in Odisha is harbouring a very good number of livestock wealth providing subsidiary income to the farming community of the State. In Odisha according to the Livestock Census - 2012 the total cattle and buffalo population is 123.47 lakh, small ruminants 80.94 lakh, pig 2.80 lakh & poultry birds 198.90 lakhs. There is an increase in cross bred population and decrease of unproductive animals with the implementation of cross breeding programmes. The milk production is steadily rising mainly due to increase in per animal production.

As per TCD(Technical Committee of Direction for Improvement of Animal Husbandry, Dairying Statistics) Odisha ranks 11th in egg production, 13th in meat production and 16th in terms of milk production among Indian States during 2016-17. 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 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.

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 can be 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.

1.1 Financial Resources 2017-18:

The financial resources are broadly divided into three categories and budget release and expenditure is summarized in Table.

- 2403 Animal Husbandry
- 2404 Dairy Development
- 4059, 4403 and 4404 Capital Outlay

Budget Head 2403-A.H- Animal Husbandry:

(Rs. in Lakhs)

Sl. No.	Resource Head	Budget Estimates Including Supplementary	Amount Released	Expenditure (Up to 31.01.2018)
1	Administrative Expenditure- (Establishment Operation and Maintenance Scheme)	32089.90	32087.34	19746.11
2	Programme Expenditure (State Sector Scheme)	7766.53	6254.10	3914.51
3	Programme Expenditure (Central Sector Scheme)	0.01	0	0
4	Programme Expenditure (Centrally Sponsored Scheme)	11313.95	2592.76	2281.49
	Total:	51170.39	40934.20	25942.11

Budget Head 2404- Dairy Devt.- Animal Husbandry

(Rs. in Lakhs)

Sl. No.	Resource Head	Budget Estimates Including Supplementary	Amount Released	Expenditure (Up to 31.01.2018)
1	Administrative Expenditure (Establishment Operation and Maintenance Scheme)	157.31	157.31	108.06
2	Programme Expenditure (State Sector Scheme)	1077.00	1076.97	832.16
	Total:	1234.31	1234.28	940.22

Budget Head 4059-Capital Outlay on Public Works- Animal Husbandry

(Rs. in Lakhs)

Sl. No.	Resource Head	Budget Estimates Including Supplementary	Amount Released	Expenditure (Up to 31.01.2018)
1	Programme Expenditure (Capital Outlay on Public works)	100.00	100.00	98.30

Budget Head 4403-Capital Outlay on AH -Animal Husbandry

(Rs. in Lakhs)

Sl. No.	Resource Head	Budget Estimates Including Supplementary	Amount Released	Expenditure (Up to 31.01.2018)
1	Programme Expenditure (Capital Outlay on AH)	3999.72	3849.84	2214.21

Budget Head 4404-Capital Outlay on DD--Animal Husbandry

(Rs. in Lakhs)

Sl. No.	Resource Head	Budget Estimates Including Supplementary	Amount Released	Expenditure (Up to 31.01.2018)
1	Capital Outlay on DD	1200.01	0	0

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 2.0 million MT to 4.8 million MT per annum by 2020.
- ❖ Increase animal Meat production from 94 TMT to 110 TMT per annum by 2020.
- ❖ Increase egg production from 54.08 lakhs to 100 lakhs eggs per day by 2020.
- ❖ Increase poultry meat production from 82 TMT to 100 TMT per annum by 2020.
- ❖ Fodder production from 160 lakh tons to 200 lakh tons per annum by 2020.

1.3 Institutional Mechanism:

There are 541 veterinary hospitals/ dispensaries, 3239 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.

Departmental Infrastructure:

Institution	Number
Veterinary Hospitals and Dispensary (VD)	541
Livestock Aid Centre (LAC)	3239
Frozen Semen A.I. Centres (VD-526 + LAC-2576 + Gomitra-913 + OMFED-1002 + BAIF-100 + JKT-64)	5181
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	8
Poultry Breeding Farms + Duck Breeding Farms	8+2
Fodder Farms (13) + Seed Production Farms (8)	13+8
Sheep breeding farm	1
Goat Breeding Farms	6
Pig Breeding Farms	1

(Artificial Insemination in cattle and buffalo is carried out through 3102 departmental institutions (VD & Livestock Aid Centres), 1002 OMFED AI Centres, 64 JK trust Centres, 100 BAIF Centers and 913 Gomitras in the state).

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

Group	Category of Posts	Sanctioned Strength	Men in Position as on 31.12.2017	Vacancy
A	Additional Director	3	0	3
	Joint Director - I	6	0	6
	Joint Director . II /CDVO	37	30	7
	Deputy Director/ SDVO/ ADVO	154	136	18
	Block Vet. Officers/Other Specialists	355	297	58
B	VAS/AVAS/other officers	925	473	452
	Fodder Officer with Sanctioned Strength (FDO-4 + AFDO-17 + SAFDO-22)=43	43	FDO-3, AFDO- 8, SAFDO- 18	FDO-1, AFDO- 9, SAFDO- 4
C	VT & VT cadre	667	369	298
	Livestock Inspector	3330	1877	1453
	Field Fodder Staff with Sanctioned Strength (JFDO- 30, A.S.O./Field Asst.- 95 = 125	125	JFDO- 23, A.S.O./ Field Asst.- 43	JFDO-7, A.S.O./ Field Asst.- 52

1.4 Supply of Livestock Outputs:

Livestock sector outputs like milk, meat, eggs has enhanced appreciably. The milk production has increased from 1620 TMT during 2007-08 to 2002 TMT in 2016-17. Similarly, meat and egg production has also increased from 58 TMT to 94 TMT and 1549 million to 1974 million respectively in the same period. The year wise production and per capita availability of milk, egg and meat is given in Table.

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
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	1938	118	92	2.04	1927	43
2016-17	2002	120	94	2.06	1974	46
2017-18 (up to Dec.18)	1396.49	---	72	---	1487.84	---

1.5 Thrust areas of Animal Resources Development Department:

In consonance with the strategy outlined in the Long Term Perspective Plan, number of schemes has been taken up on dairy, poultry, small animal & fodder development under State Plan & Centrally Sector Schemes during 2018-19. Some of the thrust areas during the current Year are explained as follows.

- ❖ 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 State Plan Schemes.
- ❖ 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 100 % 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.
- ❖ Increasing artificial insemination amongst indigenous cattle through heat synchronisation camps.
- ❖ 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 Binjharपुरi, Ghumsuri, Khariar and Motu Cattle breed and buffalo breeds such as Chilika & Kalahandi through selective breeding. Breeder's Societies formed and steps are being taken for identification of elite mothers through FPRS. Artificial Insemination (AI) in the breeding tract of above breeds will be initiated during the year 2018-19 when the selected bull calves that are being reared at BBR & BM farms will attain the donor age.
- ❖ Nine bull calves of Binjharपुरi breed have already been selected basing on the FPRS and are being reared at BBR & BM farms, Cuttack to act as future donor bulls.
- ❖ Attempts have been made for providing essential medicines at the grass root level veterinary service institutions. Further general Animal Health Camps, Nutritional Management camps, deworming camps for small animals are being organised in each block of the State.
- ❖ 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, JE, Brucellosis, 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 30 nos. Veterinary professionals are being 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 115.39 lakh (up to Dec-17) doses of different veterinary biological were produced in our State.
- ❖ During this year 248.04 lakh (up to Dec-17) doses of different vaccination has been carried out in our State.
- ❖ Frozen Semen Bank, Cuttack has produced 8.16 lakh semen straws during the year 2017-18 (Upto Dec.-17) to be used for artificial insemination.
- ❖ 10.23 lakhs AI has been done during 2016-17 (up to Dec-17).

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.

2.2 Objectives of OLRDS:

- Timely supply of AI inputs to the field AI centres by strengthening LN₂ bulk transport and storage and distribution system.
- Conversion of static AI centres to mobile.
- Conversion of non AI centres to AI centres.
- Training of AI workers, professional & Gomitras.
- Strengthening of bull stations.
- Identification of bull mothers in the field by introducing field recording system.
- Supply of bulls for natural service in inaccessible areas.

2.3 Functions of OLRDS:

- Conversion of non A.I. Centres to A.I. Centres.
- Provision of mobile A.I. facility to for rendering doorstep services.
- Self-employment for the educated youths by engaging as Gomitras.
- Uninterrupted and timely supply of logistics and other inputs like LN2, Straws, Sheaths etc. to the A.I. Centres and maintenance of cold chain for semen.
- Establishment of Natural Service centres for up-gradation of local cattle in inaccessible areas.
- Strengthening of the Bull Rearing Centres at Frozen Semen Bank.
- Production of quality bull semen by adopting strict Bio-security measures.
- Conduct Field Performance Recording System (FPRS)
- Selection of Elite Cows basing on their milk yield.
- Organization of Infertility treatment camps for sexual health control measures.
- Synchronization of oestrus among cattle and buffaloes.
- Refreshing the knowledge of the professionals on animal breeding and reproduction through training and exposure.
- Productions of crossbred bulls by inseminating the elite cows with proven bull sire semen.
- Conduct Progeny Testing Programme in field conditions for evaluation of the breeding Bulls donating semen at Frozen Semen Bank, Cuttack
- Strengthening of Bull mother farms of State.
- Physical characterization of Native cattle and buffalo germplasm of Odisha
- Conservation and improvement of native germplasm through selective breeding.
- Implementation of Livestock Insurance Scheme.
- Partnering with agencies like BAIF, KLDB, NDDDB,JK TRUST and other external agencies for livestock development of the State.
- Implementation of Calf Rearing Scheme in collaboration with OMFED under RKVY funding.
- Provision of technical consultancy to create alternate livelihood to the fisher folks under Integrated Coastal Zone Management Project (ICZMP).

2.4 Major achievements of OLRDS:

- 2985 Departmental institutions have been provided with AI Facility.
- 2725 Departmental Static AI centres are also providing doorstep AI service.
- 913 Private AI workers (Gomitras) have been engaged to render breeding and health related services at farmers door step in inaccessible areas.
- Coverage of breedable population under organized breeding increased from 11% in 2002-03 to 27% in 2016-17.
- Five Breeders Societies namely Chilika Buffalo Promoters Society (CBPS), Kalahandi Buffalo Producers Society(KBPS) , Binjharपुरi Cattle Promoters and Producers Society (BCPPS), Motu Cattle Promoters Society (MCPS) and Khariar Cattle Breeders Society (KCBS) have been set up in Native tract of Chilika, Kalahandi, Binjharपुर, Malkangiri & Nuapada respectively towards breed improvement & conservation of all registered breeds of Odisha.
- Nine Binjharपुरi bull calves 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.
- Jersey- 05, RS-04, Haryana-02, Gir-02, Binjharपुरi-09. 10 numbers of bull calves have been selected from West Bengal and will be procured shortly.
- ISO certified 9001:2008, Grade-Aq Frozen Semen Bank, Cuttack has been modernized & the bull stations have been strengthened.
- Bulk LN2 transportation system for different districts has been strengthened.
- District level Semen depots have been strengthened.
- Regional Training Center at Balasore has been established.
- Basic AI Training & refresher training are imparted to field AI workers.
- Control for infertility in adult female bovines has also been implemented.

2.5 Artificial Insemination in Cattle & Buffalo:

Special attention was given for quality frozen semen for insemination purpose. The AI in Cattle & Buffaloes has been achieved by 10.23 lakhs during 2017-18(up to Nov 17) which is 61 % of the proportionate target.

Govt. of India is emphasising on doubling the income of dairy farmers within coming 5 years. In order to increase the income of the farmers the productivity of livestock has to be increased. Under NPBB, it is planned to cover more bovine breedable population under organised breeding with special focus on genetic up-gradation of indigenous non-descript bovines.

Currently the state is covering around 27% of the target of breedable population under Artificial Insemination in indigenous cattle, which has to be enhanced to at least 50% by 2020. Accordingly the breeding plan are made to cover more than 50% of the targeted breedable population (45% of total breedable population) in indigenous cattle under AI programme whereas in CB animals 90% of targeted breedable population (70% of total breedable population). In case of buffalo, 30% of targeted breedable population i.e. 40% of total breedable population should be covered.

The Department has taken steps to implement cross-breeding programme in order to cover more breedable cattle and buffalo under organised breeding to create four lakh cross bred/Graded female calves at the farmer's house. The artificial insemination service is being rendered through a network of 3102 Departmental AI centres at the door step of the farmers. Currently, our state covers 27% of breedable bovine population with artificial insemination, however it is targeted that 100 per cent of the breedable population will be covered under AI program by 2020.

2.6 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 Aq Grade by the Central Monitoring Unit of GOI. The Frozen Semen Bank, Cuttack is being strengthened under National Dairy Plan1 (NDP1) for production of quality frozen semen.

The achievements made by FSB, Cuttack are as follows (till December 2017)

Semen production (French Mini-0.25 ml straws)				
Jersey	Crossbred	Red Sindhi	Haryana	Total
199210	360070	116015	140935	816230
Breeding bulls maintained				
Jersey	Crossbred	Red Sindhi	Haryana	Total
17	40	10	20	87

LN transportation & distribution system	
Semen banks strengthened	05 districts
LN Transport container (TA-55)	250
LN supplied till December, 2017 in Lts	911911 litres

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

National Dairy Development Board (NDDB) has developed an information system called Information Network for Animal Productivity and Health (INAPH) is under implementation in the 5 Blocks of Cuttack district since August, 2016 and is replicated in all Bovine Breeding Research & Bull Mother Farms (BBR&BM) of the State during this year under reporting.

All over the state, 98 numbers of master trainers were trained under INAPH TOT (Training of Trainers) and 5192 numbers of AI Technicians were trained under End-user Training programme which was arranged by OLRDS in coordination with NDDB. Till date 9558 number of animals were registered and 9267 number of AI & 177 number of calf born was uploaded under INAPH Programme.

2.8 Recording and Performance Analysis of Cross Bred Bovines:

To augment milk production through progressive enhancement of the genetic make-up of the CB bovine population of an area it is highly necessary to inseminate the cow with semen having more production potential than that of the particular animal. So, estimation and analysis of the milk production performance of the CB bovine population of an area is of utmost importance in order to make effective breeding intervention to boost milk production. To access the milk production potential of Cross Bred (CB) Bovine Stock in a specific area so as to Plan for future breeding intervention a Participatory Research Activity called **Recording and Performance Analysis (RPA) of Cross Bred Bovines** involving the farmers has been launched in five blocks namely Basudevpur, Gop, Kesinga, Atabira and Hatadihi of Bhadrak, Puri, Kalahandi, Bargarh and Keonjhar districts respectively with a physical target of 1000.

2.9 Controlled Breeding Programme:

Under RGM, **Controlled Breeding Programme** was undertaken in 30 districts of the State from 2nd October, 2017 to 8th October, 2017 . The aim of the **Programme** was to double the income of farmers by adopting advanced reproductive technology namely synchronized breeding of indigenous cows. Two NGO namely JKT and BAIF were involved in the Program. Indigenous semen such as Gir, Sahiwal, RS and Haryana was utilised for inseminating the cows.

Achievement under the program is as follows.

Date of AI	No. of Districts covered	AI Done (No. of Animals)	No. of Animals found pregnant	Conception rate (%)	Calves Born	
					Male	Female
02.10.2017 to 08.10.2017	30	17600				

2.10 Use of Sex Sorted Semen:

Imported Sexed Bovine Semen (Exotic) is being implemented in 5 INAPH operated blocks of Cuttack district on pilot basis like Niali, Kantapada, Nischintakoili, Salepur & Mahanga for enhancing milk production in the State of Odisha.

3138 numbers of semen doses were supplied basing on the CB Breedable Population where traceability is easier. Block wise detail report on Sex Sorted Semen of Cuttack district is summarised below.

Sl. No.	Name of the Block	Total no. of straws received	Total no. of straws utilised	No. of calf born up to 31.12.2017		
				Female	Male	Total
1	Niali	653	653	118	2	120
2	Nischintakoili	653	653	14	2	16
3	Mahanga	645	645	29	0	29
4	Salepur	576	576	2	0	2
5	Kantapada	629	629	19	2	21
Total		3138	3138	182	6	188

2.11 Conservation and Improvement of Native Breeds:

- Four breeds of cattle namely Binjharपुरi, Ghumusari, Khariar & Motu and two breeds of buffalo namely Chilika & Kalahandi of Odisha have been recognized as cattle and buffalo breeds .
- Five Breedersq Societies namely Chilika Buffalo Promoters Society (CBPS), Kalahandi Buffalo Producers Society(KBPS) , Binjharपुरi Cattle Promoters and Producers Society (BCPPS), Motu Cattle Promoters Society (MCPS) and Khariar Cattle Breeders Society (KCBS) have been set up in Native tract of Chilika, Kalahandi, Binjharपुर, Motu & Khariar respectively.
- Breed Improvement & Conservation of all registered breeds of Odisha have been initiated in its Native tract. First phase of FPRS in Binjharपुरi Cattle and Chilika Buffalo have been completed. Data base of 500 elite animals from each breed i.e. Binjharपुरi Cattle and Chilika Buffalo is available with OLRDS.
- Nine Binjharपुरi bull calves were procured from the farmers door step and reared in the BBR&BM Farm, Cuttack. These calves will serve as future donor bulls.
- 20 Bull mothers have been procured from the native tract of Binjharपुरi cattle basing on the FPRS done during 2015-16 and are being reared in the BBR&BM farms, Cuttack.
- Farmers possessing 276 elite heifers born to elite mothers have been supported with vitamins and minerals in the native tract of Binjharपुरi cattle.

RECOGNISED NATIVE BREEDS OF ODISHA

BINHARPURI BREED OF CATTLE
GHUMUSARI BREED OF CATTLE



INDIA_CATTLE_1500_GHUMUSARI_03032
INDIA_CATTLE_1500_BINJARPURI_03033



KHARIAR BREED OF CATTLE
MOTU BREED OF CATTLE



INDIA_CATTLE_1526_MOTU_03031
INDIA_CATTLE_1526_KHARIAR_03034



CHILIKA BREED OF BUFFALO
KALAHANDI BREED OF BUFFALO



INDIA_BUFFALO_1500_CHILIKA_01012
INDIAN_BUFFALO_KALAHANDI_01013



2.12 Integrated Livestock Development Program - Kalyani

1. **Cattle Development Programme:** This is implemented in 10 districts of our state namely Angul, Baragarh, Bolangir, Nuapada, Sambalpur, Sonepur, 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 indian dairy breeds like Red sindhi, Gir, Sahiwal, Tharparkar and exotic breeds cross like Jersey, Holstein Friesian, subsequent follow-up and input support (mineral mixture, de-wormers etc) services.

The achievements till December 2017 is as follows:

Year-wise Achievements against Target since inception for cattle development centers																
	2011-12		2012-13		2013-14		2014-15		2015-16		2016-17		2017-18 (till Dec.)		Total	
Activity	Targ.	Achiv.	Targ.	Achiv.	Targ.	Achiv.	Targ.	Achiv.	Targ.	Achiv.	Targ.	Achiv.	Targ.	Achiv.	Targ.	Achiv.
Exposure visit to farmers	100	71	100	96	100	96	100	150	100	105	100	94	0	0	600	612
Training of farmers	150	3690	600	11850	600	11315	600	11489	600	361	600	531	600	459	3750	39695
Infertility camps	150	115	300	298	300	509	300	350	300	158	300	254	300	215	1950	1899
Synchronization Camp	150		300	185	300	370	115	140	0	81	100	253	100	100	1065	1129
AI	50000	30083	55000	37383	60000	53365	65000	64045	70000	81622	75000	88008	80000	75023	455000	429529
Calf Born			15000	14113	18290	13124	20425	20157	23586	25049	35293	30930	30131	24725	142725	128095
Female calf born			7500	6852	9145	6298	10212	9505	11933	17647	17647	14875	15066	12176	71503	67353
Refreshing Training			4	1	4	3	4	5	4	0	4	3	0	2	20	14

2. **Goat Development Programme:** This programme is undertaken in 5 districts namely Mayurbhanj, Sundargarh, 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 December 2017 are as follows:

Sl. No.	Activity	Target	Achievement up to Dec'17
1	Training of supervisors	25	25
2	Training of field guide	125	125
3	Goat group formation	875	875
4	Selection of buck keeper	875	875
5	Training of Goat keeper at field level	6500	5255
6	Selection, insurance of bucks and procurement of buck distribution	962	999
7	Deworming, Mineral Mixture and supplement of buck	875	875
8	Weight monitoring at birth, periodically and before sale	30300	66523
9	Buck Service	43875	68973
10	Kids born through breeding services	30300	66523

3. Technology–Knowledge and Strategic Partnership :

Development of Chiplima 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 2016-17 till January, 32.50 hectare of land was covered producing 18.65 MTs of foundation seed.

2.13 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 till December, 2017 is as follows

Sl. No	Name of the District	No. of AI done			No. of castration	No. Infertility	Deworming	Vaccination
		Cow	Buff	Total				
1	Cuttack	9914	194	10108	1837	189	9245	99301
2	Dhenkanal	2502	24	2526	367	44	3099	24150
3	Nayagarh	2847	118	2965	402	56	2095	23830
	Total	15263	336	15599	2606	289	14439	147281

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 510 Centres .

The detail achievements under ILDC under Tribal Project for the year 2017-18 till December 7 are as follows:

Sl. No.	Name of the component	Achievements
1	Total No. of AI done	98664
2	Calf Born	27573
3	No. of Castration	24075
4	No. of Infertility cases treated	4531
5	Deworming	74077
6	First Aid	91491
7	Vaccination	562144

Cattle Breed Improvement Project (CBIP) with CSR support of L&T Financial Services:

During the year 2016-17, L&T FS came forward to support the dairy farmers of the 3 districts of Bhadrak, Cuttack and Jajpur by providing the services for Artificial Insemination and other veterinary support at 100 ILD Centres for a period of 5 years under Corporate Social Responsibility. JK Trust, after getting the permission of the State Govt., started the program implementation from March 2016. The progress of the program implementation for the year 2017-18 till November 7 are as follows:

Sl. No.	Name of the component	Achievements
1	Total No. of AI done	23653
2	Calf Born	6886
3	No. of Castration	7592
4	No. of Infertility cases treated	595
5	Deworming	19913
6	First Aid	19911
7	Vaccination	89030

2.14 Livestock Insurance:

During the year 2016-17, the Risk Management as a component of sub-mission on Livestock Development under National Livestock Mission (NLM) was implemented through OLRDS in all the 30 districts of the State covering 202387 animals (LA=106835, SA=95552) during the year.

This component aims . .

- To manage risk and uncertainties by providing protection mechanism to the farmers against any eventual loss of their animals due to death.
- To demonstrate the benefit of insurance of livestock to the people. The indigenous / crossbred milch animals, pack animals (Horses, Donkey, Mules, Camels, Ponies and Cattle/ Buffalo Male) and Other Livestock (Goat, Sheep etc.) will be under the purview of this component.

As per the guidelines, benefit of subsidy was restricted to 5 animals per beneficiary per household for all animals except for sheep, goat, pig and rabbit, where the benefit will be restricted to 5 cattle units (1 cattle unit = 10 sheep/goat/pig/rabbit).

M/s New India Assurance Company Ltd. was selected to take up the Risk Management activities under National Livestock Mission for coverage of different types of livestock under safety net.



2.15 Seminars / Workshops:

The Regional Review Meeting of National Livestock Mission (EASTERN & N.E.R. STATES)+ was conducted under the Chairmanship of Secretary, DADF, Gol on 8th September,2017 involving 12 States of the country.

The seminar on Doubling of farmers income+ held on 27.11.2017 at Jaydev Bhawan inaugurated by Honorable Chief Minister, Odisha was attended by SHG of Fisheries and Animal Resources Development Sector.

2.16 Facebook page of OLRDS:

The Face book page (www.facebook.com/Olrds) of OLRDS launched on 2nd September -2015 with an aim 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. Within a short period of time, the Face book page of OLRDS has been able to reach nearly about two lakh people.

2.17 Strengthening of Dairy Organization:

An amount of Rs.10.76 Crores was released from Govt. during the year 2017-18 under the above State Plan Scheme has been utilized during the current Financial Year. The scheme envisages supply of breeding inputs to field FSAI centres of the department for conducting FSAI and production of females towards augmentation of milk production in the state. The logistics like cryo-containers,

AI gun, equipments, spares, annual maintenance cost, infrastructure repair and renovation in the semen station, processing units and field institutions will be taken up for rendering uninterrupted services to the farmers. To achieve 24 Lakh AI during 2017-18 for which high pedigree semen straws, supply of liquid nitrogen, AI sheath will be required. Now the Bovine Breeding Research and Bull Mother Farm are maintaining 551 heads of animals. During the current year 9 numbers of bull calves have been sent to FSB, Cuttack for breeding purpose. The Bovine Breeding Research and Bull Mother Farm of the State are to be strengthened to full capacity (1020 heads) to rear quality bull mothers of both native and crossbred variety for production of pedigreed donor bulls for FSB and for natural service in the inaccessible area where AI service is impracticable. Infrastructure development, induction of bull mothers of different native breeds/crossbred and operational cost of management of these farms has been taken up. Management of Breeding Information in livestock has been strengthened.

2.18 Dairy Entrepreneurship Development Scheme:

It is a Central Sector Scheme. 1000 beneficiaries (500 Small Dairy Unit + 500 Dairy Parlour) has been targeted during the current financial year. An amount of Rs.317 lakhs as back ended subsidy has been allocated to NABARD for Odisha state during this year. As against the total garget of 1000, 1177 DEES units have been sanction and disbursed during this year.

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 2017-18, under State plan scheme Genetic up-gradation programme a sum of Rs.19.99 lakhs 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 farmers levels for up-gradation of the indigenous sheep Goat and Pig for enhancing the production and productivity.

List of the Govt. Farm:

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

Support to Farmers:

During 2017-18, under State Plan Scheme %Support to Farmers+160 farmers have been benefited 25,000/-(as subsidy @50%) each to establish goat/sheep units. Rs.80.00 Lakh has been spent for the purpose.

Small Scale Goat/ Sheep Farming:

During 2017-18, under State Plan Scheme %Small Scale Goat/ Sheep Farming+2850 farmers would be benefited with a subsidy Rs.17,500/-(as subsidy @50%) each to establish goat/sheep units. Rs.500.00 Lakh has been provisioned.

Conservation of Local Sheep / Goat Germplasm:

An amount of Rs.50.60 lakh has been provided to Comptroller, OUAT, Bhubaneswar for conservation and Development of Kendrapara Sheep under RKVY funding.

**Proposed plan under Small Animal Development Sector for the year 2018-19:**

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 2018-19, under State plan scheme %Genetic up-gradation programme+a sum of Rs. 16.00 lakhs has been provisioned 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 farmersqllevels for up-gradation of the indigenous sheep Goat and Pig for enhancing the production and productivity.

During 2018-19, under State Plan Scheme %**Small Scale Goat/ Sheep Farming**+ 7150 farmers would be benefited with a subsidy Rs.17,500/-(as subsidy @50%) each to establish goat/sheep units. Rs.1252.50 Lakh has been provisioned.

4.0 Poultry Development: (Achievements during the year 2017-18 up to Dec-2018)

Poultry has been the fastest growing sector in providing employment and income to a significant number of people in the state. The backyard poultry also plays a vital role in supporting livelihoods of million poor people particularly the tribal and the scheduled caste. Poultry Development Policy has been implemented in the State from 2016-17.

The achievement of poultry development programme during 2017-18 is given below:

- “ There are 8 State Poultry farms and 2 Duck breeding farms functioning in the State under Central assistance, having present parent stock capacity of 3434 low- input technology poultry birds and 1190 ducks. From these farms, 2.42 lakh numbers of day old chicks and 0.32 lakh of day old ducklings were supplied to interested farmers at reasonable price.
- “ In order to boost backyard poultry in the State, assistance was provided to 7500 BPL beneficiaries in selected 30 districts with centrally sponsored plan scheme under NLM.
- “ About 87 commercial layer farms having 62 lakh birds producing 50.00 lakh eggs per day. In addition, around 7 lakhs of eggs per day is being produced from Backyard poultry . Hence the total production of egg per day is 57 lakhs against the requirement of 85 lakhs eggs per day.
- “ 6250 broiler farms with commercial broiler bird strength of 97.00 lakh are in operation. Broiler placements are to the extent of 20 to 25 lakh day-old . chicks per week and 18 to 23 lakh adult broiler birds are entering to the market for meat purpose.
- “ During 2017-18, 48 number of district poultry hatcheries were made functional under the financial assistance of SGSY infrastructure fund to produce day old chicks to meet the demand of backward poultry rearing scheme in the State and 4 lakhs of chicks have been produced and supplied to farmers.
- “ Under State Agricultural Policy, Capital Investment Subsidy given for setting up 11 layer farms in different districts of Odisha during 2016-17 and during 2017-18 subsidy has been released for one hatchery at Nimapada.
- “ 4 nos. of Chicken Fresh outlets are established at OUAT,IRC Village, Saheed nagar, Chandrasekharpur by OPOLFED

**Backyard Poultry****Commercial Poultry****5.0 FODDER DEVELOPMENT:****Introduction:**

The animal husbandry sector plays a vital role in economic development of the State. Attention has been given for productivity, through Artificial Insemination (A.I), Health Care, Fodder Development, Credit, Subsidies and Marketing. The Feed and Fodder comprises the daily ration of a livestock development but it could not be fully explored due to lack of extension methodology to be adopted at grass root level. Cultivation & feeding of nutritious fodder has not yet been adopted by the farmers of the State to exploit the production potential of Cross Breed(C.B) animals. There is wide gap between demand and supply of fodder in our state. In order to reduce the gap and create the awareness among the animal rearers of State, various fodder development activities has been taken up by the Department.

5.1 Fodder Development Programmes in the State:

- i) Fodder Seed Production Programme (Farm).
- ii) Fodder Production & Demonstration Programme (Farm).
- iii) Minikits Demonstration Programme (Farm produce & Gol).
- iv) NLM Fodder Development Programme.

5.2 Fodder seed production farms in the state:

Under the aegis of Director of Animal Husbandry & Veterinary Services, there are eight (8) numbers of fodder seed production farms which are located in different Agro-climatic zones of Odisha. 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 (minikits), fodder production in the Departmental dairy farms. Besides these, the fodder/pasture seeds produced in these farms are being sold to Soil Conservation Department, Forest Department and public for undertaking fodder /pasture development programme in the State. For production of certified fodder seed funds has been allocated from non-plan scheme. Towards production of fodder seeds Rs.11.5 lakhs has been allotted to different farms to cover an area of 65 Acs. for fodder seed production.

5.3 Fodder Demonstration Farms:

The state has 13 fodder farms where fodder & root slips of different fodder crops are produced. The fodder and root slips produced in these farms are sold to dairy farmers and other agencies of the State. To maintain these farms fund are allocated from Non-plan scheme. At present 5.2 lakhs Nos. of root slip and about 810 Qtl. of fodder have been produced. An amount of Rs.2.5 lakhs has been allotted to different farms to produce fodder and planting materials.

5.4 Fodder Minikit Demonstration Programme:

Under this programme, fodder seed minikits are distributed free of cost to the farmer to take of seasonal fodder production. The minikits are supplied by Govt. of Odisha out of its own production at Departmental farms. During this year, 6764 Nos. of minikits have been supplied to the farmers of the State.



There are 8 nos. fodder seed production farms in the State. The fodder seeds produced at these farms are distributed to the farmers on free of cost. In the year 2017-18, 6044 Nos. of Kharif minikits and 720 Nos. of Rabi minikits have been distributed to different districts of the State.

5.5 NLM Fodder Development Programme:

Beside above programme the fodder development section also implement the Fodder development programme under **National Livestock Mission**. Under NLM Perennial Fodder production in farmers field has been undertaken and seasonal Fodder Minikits has been distributed to the farmers. Under perennial fodder production in 273 Hectares of farmers field has been taken and 36,646 Nos. of Minikits has been distributed to the farmers during 2017-18.

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 Mobile Veterinary Unit (MVU):

The scheme Mobile Veterinary Unit has been implemented in all the Blocks of the state to reach the different 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. 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.

Performance of Mobile Veterinary Units up to December-2017

Name of the Scheme	No. of MVU Days	No. Village Covered on Repetition	No. of Livestock covered under Treatment, castration, operation	No. of Livestock covered under vaccination
Mobile Veterinary Unit	55428	106710	2667933	3875772
Total	55428	106710	2667933	3875772

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, New Delhi. All the 314 blocks, 30 CDVO offices, Animal Disease Research Institute, Phulnakhara and the Directorate of AH&VS, Odisha, Mangalabag, Cuttack have been provided with Broadband connectivity for immediate disease reporting to the state and to Govt of India. The network connectivity is available in 322 nodes out of 346 nodes. The regular disease reporting status stands at 250 nodes.

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

This is a continuing CSS scheme with funding pattern of 60:40 as CS: SS from the year 2017-18 (earlier it was 75:25 as CS: SS). The scheme is implemented to control economically important diseases of livestock & poultry by way of immunization.

Achievement under ASCAD during the year 2017-18(up to December-17):

Sl. No.	Activities	Physical Target	Achievement
Immunisation against economically important disease			
1	HS vaccine	1000000	5184400
2	BQ Vaccine	7200000	4196700
3	ENT Vaccine	2500000	1032400
4	Goat Pox Vaccine	3000000	1723100
5	R2B Vaccine	4000000	2437800

6.4 Control Programme (C.P.):

In order to control most economically important & contagious diseases of animals in the State like PPR, Theileriosis, FMD & Anthrax following control programmes have been included under C.P. up to the December 2017-18

Control Programmes (C.P):

Sl. No.	Activities	Physical Target	Achievements
1	Immunisation against economically important disease		
i	Theileriosis Vaccine	631500	222300doses utilized
ii	PPR Vaccine	5000000	1740300 doses of vaccine utilized
iii.	FMD	18400000	6497300 doses of vaccine utilized
iv	Anthrax	2200000	887900 doses of vaccine utilized

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 of different vaccines are enumerated at Table below.

Vaccine Production and Supply during 2017-18 (up to December-2017)

Sl. No.	Name of the Vaccines	Target (in lakh doses)	Name of the Manufacturing Unit	Progressive Production (in lakh doses)
1	2	3	4	5
1	H.S.V. (Alum)	100.00	O.B.P.I.BBSR	54.74
2	B.Q.V.	72.00	O.B.P.I.BBSR	39.07
3	RD (R ₂ B)V	40.00	O.B.P.I.BBSR	4.148
4	ASV	22.00	OBPI (SU) BAM	9.358
5	ENT	25.00	OBPI (SU) BAM	6.643
	Total	259.00		113.959

6.6 Society for Prevention of Animal Diseases (SPAD):

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 Establishment of Animal Helpline with Veterinary Ambulance:

This is the new scheme which is proposed during 2016-17 to take up for casualty treatment to animals. In the urban areas, Helpline will address any emergency help required for stray Animals like Dogs, Cow, bulls etc. On receipt of help line call, the Ambulance will rush to the place of incident with team of Veterinary Doctor & Compounder to treat the animal right on the spot. Any types of dressing and stitches will be done on the spot. Two Number of such Ambulance for Cuttack & Berhampur Municipality area are in function.

6.8 Support to Private Goshalas:

This is the new scheme which is proposed during 2016-17 to support Goshalas for rehabilitating old, debilitated, unproductive and stray animals in the Goshalas. Due to financial constraint, Goshalas are not able to provide required care and management to cattle sheltered at their place. It is needless to mention that Goshalas is our cultural and religious heritage. 5 Numbers of Private Goshala have been funded under the above scheme to support the Goushals to increase their activities towards rehabilitation of old, sick & abandoned animals during 2016-17. During 2017-18, steps have been taken to include more numbers of Private Goshalas

6.9 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, outbreaks of avian influenza & Japanese encephalitis 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) Training Programmes
 - (v) Publication of monthly NADRS bulletin

1. Activities of Pathology Division & ICAR Project-AICRP on ADMAS (All India Co-ordinated Research Project on Animal Disease Monitoring and Surveillance)

(a) Pathology Division

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

Pathological Sample tested for the year 2017-18 (Up to December 2017)

SI.No.	Parameters	No. of Samples
1	No. of blood samples tested for hematological study (Hb%, DC)	6462
2	No. of urine samples analyzed for different bio-chemical study.	1606
3	No. of Post-mortem conducted for poultry	1065
4	No. of P.M. conducted for large and small animals	10

(b) ICAR Project - AICRP on ADMAS,

- ❖ 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.

Species wise serum collection for Sero-diagnosis of different diseases for the year 2017 (Up to December 2017)

	Cattle	Buffalo	Sheep	Goat	Pig	Total
Total no. of serum samples collected	-	-	457	483	-	940

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.

Pathological Sample tested for the year 2017-18 (Up to December 2017)

SI.No.	Parameters	No. of samples tested
1	No. of F/S examined in different species	2515
2	No. of blood smears examined for blood protozoa	12925
	Sample +ve for Theileria	5542
	Sample +ve for Babesia	05
	Sample +ve for Trypanosoma	13
	Sample +ve for Anaplasma	88

3. Activities of Bacteriology Division

- ❖ Isolation and identification of bacteria, mycoplasma and fungi along with antibiotic sensitivity study.

Pathological Sample tested for the year 2017-18(upto December 2017)

Sl. No.	Name of the samples tested	No. of Samples Tested
1	No. of milk samples tested for MCMT, Culture and antibiogram study	492
2	No. of Blood samples, Uterine samples and other tissue samples tested for culture and antibiogram study	965

4. Activities of Virology Division & ICAR Project-AICRP on FMD (All India Co-ordinated Research Project on Foot and Mouth diseases).

- ❖ Surveillance and Diagnosis of Foot and Mouth Disease (FMD) to develop a complete picture of the prevalence of the disease in the State.

Report on Activities on FMD CP from 01.04.2017 to 31.12.2017

1. FMD-CP

(i) Number of Pre-Vac serum samples collected	-	4757
(ii) Number of Post-Vac serum samples collected	-	2568
(iii) Number of random serum samples collected	-	554
(iv) Number of serum samples collected from FMD outbreak area	-	53
2. Number of serum samples tested by FMD DIVA (Non-Structural Protein) ELISA Test	-	2700
Number of samples found positive & percentage (Prevalence)	-	1677(62.11%)
3. Number of serum samples tested by FMDV Type Q ELISA Test	-	452
Number samples found positive & Percentage	-	374 (82%)
4. Number of serum samples tested by FMDV Type A ELISA Test	-	450
Number of samples found positive & percentage	-	323 (72%)
5. Number of serum samples tested by FMDV Type Asia-1 ELISA	-	450
Number of samples found positive & percentage	-	331 (73%)

Report on Activities on PPR-CP from 01.04.2017 to 31.12.2017

(i) Number of serum samples collected from sheep & goats	-	2168
(ii) Number of serum samples collected from PPR outbreak area	-	54
(iii) Number of serum samples tested by PPR c-ELISA Test	-	1560
Number of samples found positive PPR Antibody & percentage	-	1092(70%)

5. Activities of Bio-Safety Level-II Laboratory & State Plan Scheme “Strengthening of Disease Surveillance by ADRI”

(a) Avian Influenza Surveillance Programme

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

Tracheal swabs, Cloacal swabs, serum samples and environmental samples are collected from poultry birds, wild birds and migratory birds of 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:

Samples collected and tested for screening against A.I for the year 2017-18 (upto Dec. 2017)

Total samples collected	Serum samples tested BSL-II Lab. of ADRI & diagnosed -ve	Samples sent to NIHSAD, Bhopal & all tested -ve					Samples sent to RDDDL, Kolkata & all tested -ve			
	Serum	Serum	Swabs	Dead birds	F/S & Env. Samples	Total	Serum	Swabs	F/S & Env. Samples	Total
9830	2994	186	169	-	01	356	-	5378	1102	6480

(b) Brucellosis Surveillance Programme

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 lunched 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.

Samples collected and tested for screening against brucellosis for the year 2017-18 (Up to December 2017)

Sl.No.	Disease	No. of samples / animals tested	No. found +ve	+ve Percentage
1	Brucellosis	1483	20	1.35

(c) Theileriosis C.P.

Sl.No.	Disease	No. of samples collected	No. of samples tested	No. found +ve	+ve Percentage
1	Theileriosis	1123	182	57	31.31

(d) Anthrax C.P.

Sl.No.	Disease	No. of samples collected
1	Anthrax	843

(e) Other Activities of State Plan Scheme “Strengthening of Disease Surveillance by ADRI”**(i) 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.

The occurrence of different outbreaks in the State are enlisted below for the year 2017-18 (Up to December 2017)

Sl. No.	Name of the disease	No. of outbreaks reported	No. of animals / birds affected	No. of animals / birds died	No. of district affected
1	FMD(Bovine)	3	137	10	3
2	H.S.(Cattle, Pig ,Goat)	7	155	78	5
3	B.Q.	6	40	28	4
4	Anthrax	11	54	54	4
5	PPR (Goat)	5	305	163	4
6	Babesiosis	2	30	23	1
7	CCPP	3	114	53	2
8	Theileriosis	1	5	3	1
9	Goat Pox	3	62	26	3
10	Contagious Pustular Dermatitis	1	97	18	1
11	Classical Swine Fever	1	50	35	1
12	Worm Infestation	1	39	25	1

(ii) 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 RDDDL, Kolkata.

Samples collected and tested for screening against BSE for the year 2017-18 (Up to December 2017)

Sl.No.	Year	No. of Brain samples collected and despatched
1	2017-18	8

(iii) Surveillance on John's Disease (JD) & Tuberculosis (TB)

Govt. farm animals as well as Bull calves and mother cows selected for purchase are screened against TB and JD.

**Samples collected and tested for screening against TB & JD for the year 2017-18
(Up to December 2017)**

Sl.No.	Disease	No. of samples / animals tested	No. found +ve	+ve Percentage
1	JD	8	0	0
2	TB	8	0	0

(iv) Surveillance on Salmonellosis in Poultry birds

Sl. No.	No. of samples / animals tested	No. found +ve	+ve Percentage
1	2505	0	0

**6. Activities of Herbal Division**

- Research on indigenous medicinal plants of Veterinary importance.
- Maintenance of herbal garden and herbarium and identification of medicinal plants for therapeutic use.

7. (i) Training Programmes of ADRI

Resource persons of this institute are imparting refresher training to Veterinarians and Para-Veterinarians of the State under different disease control programme to augment their technical-know-how.



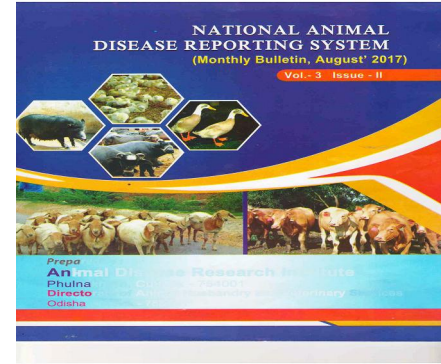
Different types of Training Programmes on disease control are conducted in this Institute as follows.

Training Programmes of ADRI for the year 2017-18 (up to December 2017)

Particulars	No. of Trainees
Vets Trained (under Theileria CP)	60
Para-vets Trained for Pathological Short Course Training	10
Livestock Inspectors pursuing training for 2 years Diploma Course.	53
Total -	123

7.(ii) Publication of monthly NADRS bulletin

Under the CSP National Animal Disease Reporting System+ all disease control activities like sample tested, surveillance conducted, vaccination conducted, occurrence of outbreaks etc. pertaining to the State are compiled and published in the form of monthly NADRS bulletin at the end of each month and communicated to all field institutions and organisations related to Animal Health.



7.0 National Livestock Mission:

National Livestock Mission (NLM), a Centrally Sponsored Scheme (CSS) was started during 2014-15 to achieve sustainable growth and development of Livestock sector. The Mission is designed to cover all the activities required to ensure quantitative and qualitative improvement in livestock production systems and capacity building of all stakeholder.

Three submission viz. Livestock Development, Feed and Fodder Development and skilled Development, Technology transfer and extension pertaining to state perspective have been proposed under this programme, to germane for improvement of Livestock productivity and initiatives under this programme.

Role of National Livestock Mission (NLM)

- Disseminate urgent letter of SLM to block level by assistance of CDVO.
- Collection of feedback for onward transmission to NLM.
- Organisation of Vets/ Paravets/ Farmers training for dissemination latest technology knowhow for better productivity.
- Timely supply of inputs under NLM.
- Maintenance of all records/ reports on NLM.
- Identify critical gaps on Livestock based livelihood.
- Identify with banks/ Insurance Company and other stake holders.
- Liaison with banks/ insurance company and other stake holders.
- Converge with ATMA/KVK/ Local bodies for implementation of all Livestock development activities.
- Organisation of awareness campus.
- Project planning (area Specific) and impact study.
- Prepare extra aids and IEC campaign for district.
- Collection and compilation of success stories/ documentation.

- Identify user groups/ Lead farmers/ Contact person.
- Facilitate the process of organising producer group.
- Orientation of all AH staff on NLM.
- Block Micro plan for each component at district.
- Assist district team for achieving objectives.
- Maintaining of data base.
- Visit farmersqField.
- Liaison with KVK to organise DFT.
- Organise field trial and validate

During the year 2017-18 the following activities in ARD sector have been taken up in our State under National Livestock Mission. An amount of Rs. 744.23 Lakhs (CS:446.54 Lakh::SS:297.69 Lakh) have been allotted by the Gol and under State plan for implementation of various component activities under NLM as mentioned below.

A. Sub-Mission: Livestock Development:

1. Entrepreneurship Development and Employment Generation(EDEG)

This component includes all credit cum subsidy linked activities implemented through NABARD. Under the component, an amount of Rs. 107.00 lakh has already been allotted by Gol towards subsidy to NABARD for establishment of small hybrid poultry broiler units and goatery units. During the year 2017-18, 150 broilers (1000 capacity with a unit cost of Rs. 3.13 lakh) and 184 goatery (10+1) with a unit cost of Rs.0.50 lakh) units have been established with a subsidy amount of Rs. 0.56 lakh/unit for broilers and Rs. 0.125 lakh/unit for goatery.

2. Innovative Poultry Productivity Project (IPPP)- Broiler and Low Input Technology (LIT) birds:-

A new scheme on Innovative Poultry Productivity Project (IPPP) for economic and nutritional support to the farmers, IPPP(Broiler) and IPPP with Low Input Technology Birds have been established in eight blocks of 4 districts of the State i.e. Ganjam, Nayagarh, Balasore and Mayurbhanj.

a. IPPP- Broiler

Two hundred farmers of Ranapur & Nayagarh block of Nayagarh district and Khallikote & Polsara block of Ganjam district have been assisted for establishment of broiler units under the programme. Six hundred hybrid broiler chicks arte being supplied to each farmer in 4 batches (150 per batch) during the year for their economic support including assistance towards construction of poultry shed and feed cost. An amount of Rs.225.00 lakh has been placed to the CDVO, Ganjam and Nayagarh for establishment of 200 small broiler units @ Rs.1,12,500/- per unit.

b. IPPP-Low Input Technology (LIT) bird

Four Hundred farmers of Oupada & Nilagiri block of Balasore district and Suliapada & Rasagobindapur block of Mayurbhanj district have been supported for establishment of units with Low Input Technology birds for their livelihood. 400 LIT bird like Chhabro, Vanaraja, Rainbow Rooster & Kuroilior birds are being supplied to each farmer in two phases with a financial support of Rs.25,000/- per unit.



c. Mother Unit for LIT bird

Four Mother units have been established in 4 blocks of Mayurbhanj & Balasore district as mentioned above for rearing of day old chicks up to 4 weeks of age. An amount of Rs. 4.00 lakh have been placed to the concerned CDVOs for establishment of these units as per the NLM operational guideline (revised as on 27.04.2016).



3. Risk Management and Insurance

Under the programme, the livestock (both Small & Large animals) of the farmers are being covered under Insurance to protect the farmers against un- eventual death of animals. Eighty thousand (80,000) animals have been insured this year to provide a safety net to the livestock owners. M/S New India Assurance Company Ltd, BBSR, have been selected to take up the programme in all 30 districts of the State. An amount of Rs. 333.33 Lakhs have been allotted in favour of the Chief Executive Officer, OLRDS, BHubaneswar along with details of guideline under NLM for smooth implementation of the programme.

B. Sub-Mission: Feed and Fodder Development

For popularisation of Green Fodder Production in our State, 273 Ha. of FarmersqLand have been covered under Perennial Fodder crop during the year 2017-18. The interested farmers have been assisted towards expenses towards land preparation, planting materials like roots & slips, fertilizer and other supporting materials for Perennial Fodder Production in their own land. An amount of Rs.30,000/- per hectare have been provided to the farmers for this purpose. Hence, for covering 273 hectors of land under green fodder, an amount of Rs.81.90 lakh have been placed to all CDVOs for implementation of the programme in their district.



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. Three batches of exposure visit to CSWRI, Gaarsa, H.P.; CSWRI, Kodaikanal; BAIF Foundation, Pune have been planned to send 30 veterinary officers during January/ February, 2018.

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 Up-gradation Training on Dairy farming	100 batches involving 2000 farmers	State Plan . Upgradation of skill in self-employment under ARD sector
2	Training Programme on Backyard poultry rearing for women beneficiaries	50 batches involving 1000 farmers	State Plan . Upgradation 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 (Up to December, 2017)

Name of Training	Period	Participant	Source of Fund
Disaster Management	17-Apr-17 - 18-Apr-17	16	SMILE
Office Management	20-Apr-17 . 22-Apr-17	20	SMILE
Disaster Management	24-Apr-17 to 25-Apr-17	18	SMILE
Internship Training for College students	05-May-17 - 09-May-17	24	----
Internship Training for College students	29-June-17 to 03-July-17	24	----
Livestock Entrepreneurship Development	11-Jul-17 . 15-Jul-17	18	State Plan
Nutritional management & Livestock Health	24-July-17 to 28-July-17	16	State Plan
Pet Animal Management	01-Aug-17 . 05-Aug-17	20	State Plan
Extension Management	21-Sept-17-23-Sept-17	16	State Plan
Stress and Time Management	24-Oct-17 - 27-Oct-17	28	Off-Campus, EEI
Human Resource Management	09-Oct-17 - 13-Oct-17	18	State Plan
Small Animal Production	16-Oct-17 - 18-Oct-17	20	State Plan
Livestock & Fishery based Livelihood in Watershed area	19 Dec . 23 Dec, 2017	20	Dir. of Soil Conservation and Watershed Development



Disaster Management Training under SMILE Funding



Office Management Training



Human Resources Management Training



Nutritional Management and Livestock Health Training

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

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, CIFA, CSWRI and College of Veterinary Science, International Livestock Research Institute & Animal Husbandry, OUAT for organizing different training programme and Workshop at State level. SMILE has organized various trainings at Veterinary Officers Training Institute and Livestock Inspectors Training Institutes. The details are as follows.

Sl. No.	Name of Training	Period	Participant	Name of Institute
1.	Disaster Management	17-Apr-17 - 18-Apr-17	16	VOTI, Bhubaneswar
2.	Disaster Management	24-Apr to 25-Apr-17	18	VOTI, Bhubaneswar
3.	Office Management	20-Apr-17 . 22-Apr-17	20	VOTI, Bhubaneswar
4.	5 days refresher training of AI workers (Para-vets:LI/VT) - NPBB	Dt.18.7.2017 to Dt.22.7.2017	22	LITC, Bhanjanagar
5.	5 days refresher training of AI workers (Para-vets:LI/VT) - NPBB	Dt.25.7.2017 to Dt.29.7.2017	24	LITC, Bhanjanagar
6.	5 days refresher training of AI workers (Para-vets:LI/VT) - NPBB	Dt.1.8.2017 to Dt.5.8.2017	24	LITC, Bhanjanagar
7.	5 days refresher training of AI workers (Para-vets:LI/VT) - NPBB	Dt.8.8.2017 to Dt.12.8.2017	22	LITC, Bhanjanagar
8.	5 days refresher training of AI workers (Para-vets:LI/VT) - NPBB	Dt.28.8.2017 to Dt.1.9.2017	28	LITC, Bhanjanagar
9.	5 days refresher training of AI workers (Para-vets:LI/VT) - NPBB	Dt.4.9.2017 to Dt.8.9.2017	24	LITC, Bhanjanagar
10.	5 days refresher training of AI workers (Gomitra) - NPBB	2.9.2017 to 6.3.2017	90	LITC, Chipilima
11.	Goat Scout . NMPS	11.9.17 to 23.09.2017	41	LITC, Chipilima
12.	Poultry farmers	7.5.2017 to 25.09.2017	95	LITC, Chipilima
13.	Pranimitra	20 to 21-12.2017	42	LITC, Chipilima
14.	5 days refresher training of AI workers (Vets) - NPBB	May, 2017 to Sept,2017	100	FSB, Cuttack
15.	5 days refresher training of AI workers (Vets) - NPCBB	May, 2017 to Sept, 2017	100	FSB, Cuttack



8.3 Information, Education and Communication Programme

This programme plays a very important role for creating awareness among people, especially the Livestock owners of the State 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. IEC programme contributes a lot by providing timely advice about the care and management, feeding and disease control aspects of animals during natural disaster/calamities like flood, heat wave, super cyclone etc.

Achievements are as follows:

Table- IEC activities under Electronic Media 2017-18 (As on 31.12.2017)

SI.No.	Name of Event	Number / Figure
1	No. of programmes broadcast in AIR	74
2	Duration of broadcast in AIR	2,160 Sec.
3	No. of programmes telecast in Doordarshan	76
4	No. of TV spots telecast in Doordarshan	15
5	No. of Mega Tele serial episodes of PARASAMANI season-II Telecast on Doordarshan.	17
6	No. of Departmental website maintained	3

Table- IEC activities under Print Media 2017-18 (As on 31.12.2017)

SI.No.	Name of Event	Number
1	No. of printing materials distributed	10,000
2	No. of advertisement floated in newspapers (Display-10)	84
3	No. of articles published in different newspapers and magazines	54
4	No. of news published in various news papers	117

Organizations of exhibition for buyer-seller meet and transfer of technical know-how to the farmers.

The Buyer-Seller Meet is organize to acquaint the farmers with different breeds of Livestock & Poultry and its rearing practices for their economic benefits. This establishes direct contact between producer, buying agents, processor and users. Cattle exhibition is organized in the districts and state level during Gosambardhana Week to make the people aware on Livestock production management and for scientific interaction between the farmers and the scientists for transfer of technical knowhow on milk, meat and egg production and organized marketing. Annual exhibition is organized during Adivasi Mela at Unit-I, Bhubaneswar where there is display of various activities under ARD sector and interaction takes place between the scientists with the tribal folk of our State to popularize AH activities among them. In order to convey the technical knowhow in livestock farming to aware the people on ongoing schemes in ARD sector district level Krushi Mohastav is also organized in each district.

State Level Gamha Purnima Festival / Mahostav-2017

Our Department organised the state Level Gamha Purnima Festival / Mahostav-2017 which was held on 07.08.2017 at Balia Bhagabatpur of Kendrapara district to celebrate the birth day of Lord Sri Balabhadra Dev with the show casing Go-Pujan, cattle show, animal health camp and farmers training etc.



Observation of 66th Gosambardhana Week-2017:

66th Gosambardhana Week-2017 was observed from 22.10.2017 to 28.10.2017 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 has been organized at Krushnaprasad, GP of Niali Block in Cuttack district on 28.10.2017.

Animal Husbandry Extension Service through Mobile Advisory:-

The state plan scheme %Animal Husbandry Extension Service through Mobile Advisory+implemented in SIM card distribution format will be implemented with the revised modality of inter-telecom-network-compatibility format, as approved by Govt. The new format will be not only hassle free but also acceptable to all farmer and easy for smooth implementation and more coverage of farmers in a short time period. The additional funds required for this purpose will be sourced.

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 and Training programme on animal welfare are being organized by State SPCA to develop animal welfare activities throughout the State.

Sl. No.	Activities	2016-17	2017-18 (up to Dec.-2017)
1	No. of cases prosecuted under PCA Act, 1960.	992	556
2	No. of warning cases issued to offenders	1276	923
3	No. of cases convicted	869	463
4	Fine money imposed on cases convicted and deposited to Govt. account by court concerned	Rs.1,06,010/-	Rs.62,340/-
5	No. of awareness Programme in educational institution, 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.	128	65
6	No. of Animal Birth Control Programme (ABC) organized to eliminate the population of stray dogs and control of Rabies.	3763	2377

10.0 Other Sister Organizations

10.1 Utkal Gomangal Samiti (UGS):

Utkal Gomangal Samiti was established in the year 1936. The aim and objective 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 etc. and to propagate different types of fodder cultivation & encourage public for the same. There are 3 farms one at Patha near C.R.R.I., Bidyadharpur, Cuttack an area of 15 Acres, Bhogara near Khuntuni an area of 17 Acres and at Tirtol an area of 5 Acres in Jagatsinghpur District. Buffalo Bull calves for Natural Service are being maintained at Patha .

10.2 Natural Breeding Programme

The Utkal Gomangal Samiti has taken Natural Breeding programme in remote areas of the State by supplying of Murrah Buffalo Bulls to selected farmers. During last 82 years, a number of stud centres have been increased and Utkal Go-mangal Samiti has also supplied huge numbers of different Breeds of improved varieties of animals throughout the State for up-gradation of local stock. There is no doubt that the Utkal Gomangal Samiti has played a major role in economic growth of the State in Agricultural Sector by providing improved Bulls of Haryana & Murrah Buffalo Bulls.

However this programme is being continued in-accessible areas in the State accessible areas in the State. In the financial year 2017-18 Government has sanctioned Rs.46.00 lakhs only as Grant-in-aid to implement the Programme and management of Office as well as Bull Rearing and Fodder cultivation for feeding of animals

Now, 9 Nos. of Bulls (8 Nos. Murrah Buffalo Bulls + 1 Haryana Bulls) have maintained at Bull rearing Farm of Utkal Gomangal Samiti at Patha. Provision have been made for purchase of 25 Nos. of Murrah Buffalo Bull/ Bull Calves from Central Cattle Breeding Farm, Avadi, Chennai-52 for natural breeding purpose during this year.

The abstract on achievement of the year 2017-18 (up to Dec.2017)

Year	No. of Buffalo Bull Stations	No. of Hariyana Bulls stations	No. of Service done	Progeny Born		Area cultivated in Acs.	Fodder Produced in Qtls.	Supply of Grass roots to farmers through CDVO, Jagatsinghpur
				Male	Female			
2017-18	216	59	5481	917	873	5	805.00	74,000 Nos.

Proposed Activities to be undertaken by Utkal Gomangal Samiti, Odisha, Cuttack during the year 2018-19

1. Rearing of 9 Nos. of Murrah Buffalo Bull Calves for supply to the stud centres in the State after attending the breedable age . 25 Nos. of Murrah Buffalo Bull/ Bull Calves are proposed to be purchased from Central Cattle Breeding Frm, Avadi, Chennai during current year . 2017-18 for Natural Breeding purpose..
2. There is a proposal for taking up Fodder Cultivation land in 5.0 acres at Farm of Utkal Gomangal Samiti at Patha near C.R.R.I., Cuttack.
3. Supply of Fodder Roots and Slips to the motivated farmers at Govt. rate in the State for development of fodder cultivation Programme in the State.
4. As per the Economic Strategy, the Bull subsidy of Rs.300/-has been provided to the Bull host per month per stud Centre.

11.0 Odisha State Poultry Products Co-operative Marketing Federation Ltd. (OPOLFED):

Odisha State Poultry Products Co- operative Marketing Federation Ltd (OPOLFED) is a state level apex co- operative organization registered as a 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 Producers Co-operative Society (PPCS) & Women Poultry Co-operative Society (WPCS) at grass root level and the Federation at the apex level. Till date, 34 PPCS/WPCSs, Govt. of Odisha & OSCSTDFCC are members of this Federation. OPOLOFED's marketing activities like supply of eggs, packet 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 and during the year 2016-17, one OPOLFED Chicken Fresh at Chandrasekharpur was established with the financial assistance from Fisheries & ARD Department, Govt. of Odisha.



(Chicken Fresh Outlet at Sahid Nagar)

About 8 lakhs of eggs and 10 M.T. of dressed chicken meat are being marketed by OPOLFED in Bhubaneswar and Cuttack Cities in every month. 587 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.

11.1 Poultry Activities taken up during 2017-18:

- OPOLFED is going to set up 53 nos. of Chicken Fresh Outlets in major cities, suburbs across the State on PPP mode.
- Actions have already been initiated to establish a poultry pellet feed mill at Jeypore, Koraput under SCA to TSP programme with a total project cost of Rs.675 lakhs under the financial support from ST & SC Development Deptt., Govt. of Odisha (Rs.312 lakhs) and F&ARD Department.
- Steps are being taken for capacity building of 2500 members of PPCS/WPCS through imparting training on Backyard Poultry (BYP) rearing followed by input supply like chicks, feed, medicine, vaccine, feeder and drinker etc.

12.0 The Odisha State Cooperative Milk Producers' Federation Ltd. (OMFED)

12.1 Activity Report for the year 2017-18

OMFED, an apex Cooperative in the State, started its operation in the eighties with the vision to procure all the surplus milk of the farmers in order to provide self-employment to the rural folk with remunerative price by forming Anand Pattern Societies and secondly to provide the customers fresh & pure quality milk & milk products in the State through its retail & distribution network. The activities relating to Procurement & Marketing of Milk & Milk Products during the year 2017-18 are noted hereunder.

Milk Procurement:

- OMFED is procuring around 5.10 lakh litres of milk per day from all the 30 districts of the State. As of now, 5800 societies have been organized in which 2.82 lakh farmers have been enrolled, out of which 1.13 lakh are enrolled as women members. Federation has recorded highest Milk Procurement i.e. 6.31 lakhs litre of milk on 9th July 2017. The farmers are also assured to procure all the marketable surplus milk in the societies without imposing any restriction. About 95% of farmers are getting their milk bill payment through their bank transfer.

Milk & Milk Product Marketing:

- OMFED is supplying 5.2 lakh litres Milk & Milk Products to the customers through retail outlets/ distributors in the State.
- Due to purity of OMFED Ghee, on demand of Lord Jagannath Temple and Lingaraj Temple, Federation is supplying OMFED Ghee from September 2017.
- Federation has launched Fat rich Gold Premium Milk & new Milk Products such as Sugar Free Ice cream/Sweet curd, Sugar Free Vanilla Ice cream & Probiotic Curd on 25th September 2017 for lakhs of customers in the State.
- OMFED has started online marketing and home delivery system through M/s. Gozip.com on 30.10.2017.
- OMFED is taking steps to set up 52 no. new modern parlours through DEDS across Odisha to give self-employment to the youths during the period October 17 to January 18 and targeting another 500 parlours through DEDS Dairy Parlour Scheme for 2018-19.
- OMFED has appointed Distributors for enhancing distribution network to market milk & milk products and Ice cream in new areas, townships and virgin clusters having low penetration in different Dairy operational areas during the period July 17 to February 18 OMFED has appointed 11 Milk Distributors, 19 Product Distributors and 17 Ice cream Distributors for enhancing distribution network..
- OMFED has appointed 5350 nos. retailers to sell milk and milk products in the State as on date.
- OMFED has opened Sales Counters in special Jail Jharpada, Bhubaneswar Circle Jail, Choudwar, Berhampur, Baripada & Balasore.
- OMFED has tied up with reputed departmental stores such as modern trade super stores to market its value added products in organized retail & chain of retail stores on long term basis.
- Due to expansion of Plant, the marketing of milk and milk products in Angul is enhanced to 14000 ltrs. and that of Salapada is 25000 ltrs./day.

Cattle Feed:

- Premium Cattle feed (new) is made available to the farmers @Rs.19/Kg. being produced at CFP, Radhadamodarpur.
- OMFED has started Maize Procurement for its manufacturing of Cattle feed from Nabarangpur Farmers' Cooperatives to give the farmers a remunerative price.

Future Plan:

- Due to the increasing trend of Milk Procurement by the farmers a new 50 TLPD Dairy Plant at Haradakhola in Sonepur district will be set up.
- OMFED will provide the customers Ice cream from its new Plant at Sambalpur & Bhawanipatana by end of March 2018.
- OMFED will procure Plant Machineries such as Butter Making machine, Cream Pasteurizer, Milk silo, Cream Tank, Cream Separator etc. to handle excess Milk Procurement/Processing under RKVY of Govt. of Odisha.
- Considering the future projections of milk procurement & doubling the farmers income, the infrastructure at DCS level is already approved under RKVY to provide 19 nos. of 5 KL Bulk Milk Coolers and 39 nos. of 2 KL BMC to the Dist. Milk Unions which will help enhancing the chilling infrastructure by 1.33 LLPD over & above present cooling capacity.
- OMFED is implementing projects like National Project for Dairy Development (NPDD), National Dairy Plan (NDP-I), Tribal Women Dairy Project (TWDP) for Dairy Development in various districts of Odisha. So far OMFED has organized 500 nos. of Dairy Cooperative Societies under NPDD & TWDP and 23,805 nos. of dairy farmers are enrolled and collecting average 58,859 ltrs. of milk daily, which has enhanced the income of milk producers.
- A new 5 LLPD /day fully automated Dairy plant at a project cost of Rs.244.34 crores has been approved by the State Govt. under RIDF funding. The State Cabinet in its meeting held on Dtd.08.02.17 has approved to entrust the work to NDDB for its execution. Govt. of Odisha has already allotted a 51.0 acre land for the purpose at Arilo, Govindpur Mauza under Barang Tahasil of Cuttack District and it is expected that all the Civil, Electrical, Mechanical work shall be commenced shortly.
- Renovation/ Modernization of old Dairy Plants of OMFED:

The Dairy Plants of OMFED located at different districts of Odisha are very old. In order to ensure the procurement of milk from the farmer members round the year, to equip the plant to handle peak load procurement during flush season, Strengthening of cold chain facility and product manufacturing, Federation shall install Dairy equipments of advanced technology to replace the old ones for which Govt. of India has sanctioned Rs.513.08 lakhs fund under RKVY.

- Installation of Automatic Milk Collection Unit (AMCU) at Society level :

Govt. of Odisha has already released Rs.154.04 lakhs for installation of AMCU in all the districts except Mayurbhanj, Sundargarh, Boudh & Kandhamal.

The Societies are collecting more than 300 liters of milk per day and having more than 100 members will be provided with such benefits

- Support to Dairy Cooperatives for Dairy Development :

This project will be implemented at Cuttack Milk Union covering the district of Cuttack, Kendrapara, Jajpur & Jagatsinghpur. 10 KL BMC will be established at Balikuda & Mahanga Unit.

- Modern Dairy Parlour and Marketing through e-Cart:

OMFED is in the process of setting up modern dairy parlor for marketing of milk and milk products and also through 10 nos. e-cart in the Bhubaneswar City initially.

- Online payment to Dairy Cooperative Societies:

Federation has started online payment to dairy cooperative farmers towards their milk bill in their account for maintaining transparency and easy transfer of money.

- As large part of population is lacking Vitamin A & D Federation will start fortifying pouch milk with Vitamin A & Vitamin D by March 2018 with the help of NDDDB & Tata Trust.

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