



GOVERNMENT OF ODISHA

ANNUAL ACTIVITY REPORT
2018-19

FISHERIES & ANIMAL RESOURCES DEVELOPMENT
DEPARTMENT

CONTENTS

ANIMAL RESOURCES DEVELOPMENT SECTOR

SL.NO.	SUBJECT / DESCRIPTION	PAGE
Chapter–1.0 Sectoral Profile		
1.0	Introduction	27
1.1	Financial Resources 2018-19	28 - 29
1.2	Vision, Mission & Goal	29
1.3	Institutional Mechanism	29 - 30
1.4	Supply of Livestock Outputs	30 - 31
1.5	Thrust Areas of Animal Resources Development Department	31 - 32
Chapter–2.0 Dairy Development		
2.1	Odisha Livestock Resources Development Society (OLRDS)	32 - 33
2.2	Artificial Insemination in Cattle & Buffalo	33
2.3	Frozen Semen Bank (FSB)	33
2.4	Information Network for Animal Productivity & Health (INAPH)	34
2.5	Recording and Performance Analysis of Cross Bred Bovines	34
2.6	Control of Infertility among Bovines	34 - 35
2.7	Conservation and Improvement of Native Breed	35 - 36
2.8	Integrated Livestock Development Programme (ILDLP)	37
2.9	Cattle Breed Improvement Programme (CBIP) by J.K. Trust	37 - 38
2.10	Cattle Breed Improvement and Small Ruminant Development Programme (CBSRIP)	38
2.11	Risk Management & Livestock Insurance	38
2.12	Seminars / Workshops	39
2.13	Strengthening of Dairy Organization	39
2.14	Interest Subvention on Long Term Credit Support to Livestock Farmers	39
Chapter–3.0 Small Animal Development		39 - 40
Chapter–4.0 Poultry Development		40 - 41
Chapter–5.0 Fodder Development		42

SL.NO.	SUBJECT / DESCRIPTION	PAGE
5.1	Seasonal Fodder Minikit Programme	42
5.2	Perennial Fodder Production	42
5.3	Distribution of Hand Operated Chaff Cutter	43
5.4	Fodder Seed Production Farms in the State	43
5.5	Fodder Demonstration Farms	43
Chapter-6.0 Livestock Health Care Service Delivery		43
6.1	Mobile Veterinary Unit (MVU)	44
6.2	National Animal Disease Reporting System (NADRS)	44
6.3	Assistance to State for Control of Animal Disease (ASCAD)	44
6.4	Control Programme (CP)	45
6.5	Vaccine Production & Preventive Vaccination in Livestock & Poultry	45
6.6	Society for Prevention of Animal Diseases (SPAD)	45 - 46
6.7	Establishment of Animal Help Line with Veterinary Ambulance	46
6.8	Support to Private Goshalas	46
6.9	Animal Disease Research Institute (ADRI)	47 - 51
Chapter-7.0 National Livestock Mission (NLM)		51 - 54
Chapter-8.0 Training & Capacity Building		55
8.1	In-Service Training and Exposure Visit	55 - 57
8.2	Society for Management of Information, Learning & Extension (SMILE)	57 - 59
8.3	Information, Education and Communication Programme	59 - 61
Chapter-9.0 Animal Welfare Activities		61
9.1	State SPCA Odisha	61 - 62
Chapter-10.0 Other Sister Organisation		62
10.1	Utkal Gomangal Samiti (UGS)	62 - 63
Chapter-11.0 Odisha State Poultry Products Co- operative Marketing Federation Ltd (OPOLFED)		63-64
Chapter-12.0 The Odisha State Cooperative Milk Producers' Federation Ltd.(OMFED)		64
12.1	Activity Report for the year 2017-18	64 - 66

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 2017-18. Next to Agriculture, Animal Husbandry has the most important economic activity in the rural areas.

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 41.97 million as per 2011 Census or 3.47% of the population of India. Approximately 83% of the population is rural. The population of Odisha has increased by about 1.4% per annum over the past 10 years compared to 1.7% 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 2018-19 :

The financial resources are broadly divided into three categories and budget release and expenditure is summarized in Table -1 to 5

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

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

(Rs. in Lakhs)

Sl. No.	Resource Head	Budget Estimates Including Supplementary	Amount Released	Expenditure (Upto 31.03.2019)
1	Administrative Expenditure- (Establishment Operation and Maintenance Scheme)	35805.13	35805.13	28463.82
2	Programme Expenditure (State Sector Scheme)	8399.59	8179.21	7906.97
3	Programme Expenditure (Central Sector Scheme)	0.00	0	0
4	Programme Expenditure (Centrally Sponsored Scheme)	9133.11	3230.32	3081.04
Total:		53337.83	47214.66	39451.83

Table-2: Budget Head 2404- Dairy Devt.- Animal Husbandry

(Rs. in Lakhs)

Sl. No.	Resource Head	Budget Estimates Including Supplementary	Amount Released	Expenditure (Upto 31.03.2019)
1	Administrative Expenditure	153.79	153.79	147.91
2	Programme Expenditure	4345.57	4104.92	4099.47
Total		4499.36	4258.71	4247.38

Table-3: Budget Head 4059-Capital Outlay on Public Works- Animal Husbandry

(Rs. in Lakhs)

Sl. No.	Resource Head	Budget Estimates Including Supplementary	Amount Released	Expenditure (Upto 31.03.2019)
1	Programme Expenditure (Capital Outlay on Public works)	438.14	438.14	438.14

Table-4: Budget Head 4403-Capital Outlay on AH -Animal Husbandry

(Rs. in Lakhs)

Sl. No.	Resource Head	Budget Estimates Including Supplementary	Amount Released	Expenditure (Upto 31.03.2019)
1	Programme Expenditure (Capital Outlay on AH)	2575.28	2508.89	2508.89

Table-5: Budget Head 4404-Capital Outlay on DD--Animal Husbandry

(Rs. in Lakhs)

Sl. No.	Resource Head	Budget Estimates Including Supplementary	Amount Released	Expenditure (Upto 31.03.2019)
1	Programme Expenditure (Capital Outlay on DD)	7279.29	7279.29	7279.29

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 2.09 million MT to 3 million MT per annum by 2023-24.
- ❖ Increase animal Meat production from 98.83 TMT to 120 TMT per annum by 2023-24.
- ❖ Increase egg production from 57 lakh eggs per day to 120 lakhs eggs per day by 2023-24.
- ❖ Increase poultry meat production from 84.59 TMT to 110 TMT per annum by 2023-24.

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 Odisha 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 (Departmental-3061 + Gomitra-1014+ OMFED-1092 + BAIF-285 + JKT-374)	5826
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 3061 departmental institutions (VD & Livestock Aid Centres), 1092 OMFED AI Centres, 374 JK trust Centres, 285 BAIF Centers and 1014 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 31.12.2018	Vacancy
A	Additional Director	3	0	3
	Joint Director - I	6	2	4
	Joint Director -II /CDVO	37	35	2
	Deputy Director/ SDVO/ ADVO	154	99	55
	Block Vet. Officers/Other Specialists	355	293	62
B	VAS/AVAS/other officers	925	711	214
	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	344	323
	Livestock Inspector	3330	2339	991
	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 1598 TMT during 2008-09 to 2087.5 TMT in 2017-18. Similarly,

meat and egg production has also increased from 62 TMT to 99.88 TMT and 1993 million to 2062 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
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	2087.5	124	98.83	2.16	2062	48
2018-19 (Prov.)	2309	138	104.00	2.29	2336	51

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 Binjharpuri, Ghumsuri, Khariar and Motu Cattle breed

and buffalo breeds such as Chilika & Kalahandi through selective breeding. The Breeder's Societies for six numbers of native breeds have already been formed and steps are being taken up through for identification of elite mothers through FPRS in their respective tracts. 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 through FPRS and are being reared at BBR & BM farms, Cuttack and similarly seven number of Khariar Bull calves are being reared at BBR&BM, Chipilima to be used as future donor bulls.
- ❖ Refresher training of 500 Private Artificial Insemination workers (Gomitra) are being organised in Departmental Training Centres.
- ❖ Exposure visit for 24 nos. Departmental Officers are being organized to acquire advanced technology adopted in other States.
- ❖ Frozen Semen Bank, Cuttack has produced 10.73 lakh semen straws during the year 2018-19 (upto Dec, 2018), to be used for artificial insemination.
- ❖ 14.40 lakhs AI has been done during 2018-19.

2.0 Dairy Development:

2.1 Major achievements of Odisha Livestock Resources Development Society (OLRDS):

- 3061 Departmental institutions have been provided with AI Facility.
- 2768 Departmental Mobile AI centres are also providing doorstep AI service.
- 1014 Private AI workers (Gomitras) have been engaged to render breeding and health related services at farmers' door step in inaccessible areas.
- Six 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), Ghumusuri Cattle Breeder Society (GCBS) and Khariar Cattle Breeders Society (KCBS) have been set up in Native tract of Chilika, Kalahandi, Binjharपुर, Malkangiri, Ganjam & Nuapada respectively towards breed improvement & conservation of all registered breeds of Odisha.
- Nine bull calves of Binjharपुरi breed have already been selected through FPRS and are being reared at BBR & BM farms, Cuttack and similarly seven number of Khariar Bull calves are being reared at BBR&BM, Chipilima to be used as future donor bulls.
- Refresher training of 500 Private AI are being organised in three designated training Institutes of our State.
- Exposure visit for 24 nos. Departmental Officers are being organized to acquire advanced technology adopted in other States.
- Frozen Semen Bank, Cuttack has produced 10.73 lakh semen straws during the year 2018-19, Upto Dec -18) to be used for artificial insemination.
- ISO certified 9001:2008, Grade-'A' Frozen Semen Bank, Cuttack has been modernized & the bull stations have been strengthened. The Strengthening of Frozen Semen Bank is being taken up by availing assistance under Rashtriya Gokul Mission (RGM) and National Dairy Plan (NDP)-1.
- Jersey- 25, RS-08, Hariana-15, Gir-01, CBHF-08 numbers of bulls have been maintained at Frozen Semen Bank, Cuttack for regular collection of semen.

- Bulk LN2 transportation system for different districts has been strengthened.
- District level Semen depots have been strengthened.
- One Regional Training Center at Balasore has been established under RGM and the process of establishment of another training centre at Koraput district is under progress.
- Basic AI Training & refresher training are imparted to field AI workers.
- Control for infertility in adult female bovines has also been implemented.

2.2 Artificial Insemination in Cattle & Buffalo:

Special attention was given for quality frozen semen for insemination purpose. The Artificial Insemination (AI) in Cattle & Buffaloes has been achieved at 14.40 lakhs during 2018-19.

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 National Program on Bovine Breeding (NPBB) and RGM, 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 3061(Static) Departmental AI centres and 2768 number of mobile 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.

2.3 Frozen Semen Bank (FSB):

The Frozen Semen Bank (FSB), Cuttack is the only semen producing station of the State, supplying semen to all the 30 Districts. The institution has got ISO 9001:2008 certifications and awarded with 'A' Grade by the Central Monitoring Unit of GOI. The Frozen Semen Bank, Cuttack is being strengthened under National Dairy Plan1 (NDP-1) for production of quality frozen semen.

The achievements made by FSB, Cuttack are as follows (till December '2018)

Semen production (French Mini-0.25 ml straws)						
Jersey	CBJ	CBHF	Red Sindhi	Haryana	Gir	Total
3,10,715	375540	102530	106935	173030	3885	10,72,635
Breeding bulls (under regular semen collection)						
Jersey	CBJ	CBHF	Red Sindhi	Haryana	Gir	Total
25	21	08	08	15	01	78
LN transportation & distribution system						
LN supplied till December, 2018 in lakh Lts				10,86,003 lakh litres		

2.4 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 on Pilot basis in the 5 Blocks of Cuttack district (Niali 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 data of 12059 numbers of registered animals, 11332 numbers of AI data & 977 number of calf born data were uploaded under INAPH Programme.

2.5 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 the following blocks of our State.

Area of Operation

It is proposed to take up 5 blocks of the dairy potential districts of Odisha where CB population is concentrated.

Sl. No	Name of the Districts	Block	Target for selection of CBJ animals
1	Balasore	Baliapal	200
2	Kalahandi	Koksora	200
3	Khordha	Balipatna	200
4	Rayagada	Rayagada	200
5	Sonepur	Binika	200
Total			1000

2.6 Control of infertility among Bovines :

To induce confidence among the farmers and popularize AI programme, organization of 5000 infertility camps has been targeted under State plan Scheme "Up-gradation of Livestock Health Care Services" for the year 2018-19. Funds for procurement of medicine have already been placed to CDVOs for the purpose by the Directorate. However, for creation of awareness among the farmers funds need to be provided. To bridge this gap, during the year 2018-19, it is proposed to organize 5000 Awareness camps in all the 314 blocks of the State in convergence with 5000 infertility camps organized under State plan scheme "Up-gradation of Livestock Health Care Services".

The detailed activities for the camp are as follows.

1. Infertility –cum- Awareness camp have been organized at the scheduled village from 7 AM to 1 PM.
2. Minimum 30 number of bovine infertility cases were treated per camp.
3. Awareness camp was organized involving minimum 30 numbers of farmers in the same village after completion of Infertility camp. Care should to taken to include more number of farmers from the category of scheduled caste, scheduled tribe and women.
4. In the awareness camp, farmers were made aware about the importance of AI along with recent breeding interventions for successful management of infertility problem of bovines.

2.7 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.
- Six 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), Ghumusari Cattle Breeder Society (GCBS) and Khariar Cattle Breeders Society (KCBS) have been set up in Native tract of Chilika, Kalahandi, Binjharपुर, Malkangiri, Ganjam & Nuapada respectively towards breed improvement & conservation of all registered breeds of Odisha.
- Breed Improvement & Conservation of all registered breeds of Odisha have been initiated in its Native tract. First phase of FPRS in Binjharपुरi Cattle, Chilika Buffalo and Khariar Cattle have already been completed. Data base of 500 elite animals from each breed i.e. Binjharपुरi Cattle and Chilika Buffalo, Ghumusari Cattle and Khariar cattle are available with OLRDS. However the 2nd phase of FPRS has already been started in native tracts of all registered breeds.
- Nine Binjharपुरi bull calves and 7 Khariar bull calves were procured from the farmers door step and reared in the BBR&BM Farm, Cuttack and BBR & BM Farm, Chipilima respectively to be used as future donor bulls by FSB, Cuttack.

Recognised native breeds of Odisha

BINJHARPURI BREED OF CATTLE
INDIA_CATTLE_1500_BINJARPURI_03033



GHUMUSARI BREED OF CATTLE
INDIA_CATTLE_1500_GHUMUSARI_03032



KHARIAR BREED OF CATTLE
INDIA_CATTLE_1526_KHARIAR_03034



MOTU BREED OF CATTLE
INDIA_CATTLE_1526_MOTU_03031



CHILIKA BREED OF BUFFALO
INDIA_BUFFALO_1500_CHILIKA_01012



KALAHANDI BREED OF BUFFALO
INDIAN_BUFFALO_KALAHANDI_01013



2.8. Integrated Livestock Development Programme (ILDP) by BAIF Development Research Foundation.

To boost up Artificial Insemination of Non Descript Dairy cows, Integrated Livestock Development Programme has been launched in Odisha in joint collaboration of Govt. of Odisha and BAIF Development Research Foundation, Pune with a budget allocation of Rs.24.83 Crore for a period of three years. The programme is being implemented through establishment of 285 Cattle Development Centres (CDC) covering 16 districts of the State such as Angul, Bargarh ,Balangir, Boudh, Cuttack , Ganjam, Jagatsinghpur, Jajpur , Kalahandi , Kendrapara Koraput, Nawarangpur, Nuapada, Puri, Sambalpur and Sonapur. The specific objectives of the programme are:

- I. Creation awareness among farmers, about the socio economic benefits of improving the local animals.
- II. Production of improved animals out of local non descriptive low productive animals.
- III. Generation of employment & income for rural families through Livestock component.

List of District wise Cattle Development Centres is as follows.

Sl. No.	Name of District	No. of CDCs
1	Angul	21
2	Bargarh	20
3	Balangir	35
4	Boudh	7
5	Cuttack	15
6	Ganjam	10
7	Jajpur	15
8	Jagatsinghpur	20
9	Kalahandi	10
10	Kendrapara	30
11	Koraput	10
12	Nuapada	10
13	Nawraangpur	20
14	Puri	25
15	Sambalpur	25
16	Sonepur	12
Total		285

The total number of AI done under ILDP programme is 90781 and number of calf born is 29236. (Up to Dec-2018).

2.9. Cattle Breed Improvement Programme (CBIP) by 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 made from the date of commencement to till December, 2018 is as follows

Total number of AI done: 64063
Total number of Calf born: 17316
Total number of Castration done: 11395
Total number of Infertility camps organised: 2372
No of Deworming done: 78923
Vaccination done: 551450

2.10 Cattle Breed Improvement and Small Ruminant Development Programme (CBSRIP)

The "Cattle Breed and Small Ruminant Improvement Programme" (CBSRIP) has been launched by the Fisheries and Animal Resources Development Department(F&ARD) incollaboration with JK Trust Gram Vikas Yojana through establishment of 310 Integrated Livestock Development (ILD) centers in 15 districts of our State such as Cuttack, Balasore ,Bhadrak ,Bargarh ,Boudh ,Ganjam ,Kalahandi ,Keonjhar ,Koraput, Mayurbhanj, Malkangiri, Nawarangapur, Nuapada, Rayagada and Sundergarh under RKVY.

Under this programme each of the ILD Centre will be manned by a trained Artificial Insemination (AI) Worker called "Gopal" who primarily provides AI along with other veterinary support services like castration, first aid, vaccinations, deworming etc. at the door steps of the farmers.

The achievements made from the date of Commencement (April-2018) till December, 2018 is as follows

- Total number of AI done: 49763
- Total number of Castration done: 13810
- Total number of Infertility camps organised: 2613
- No of Deworming done: 53642
- Vaccination done: 479787

2.11 Risk Management & Livestock Insurance

Govt. of India assisted National Livestock Mission carries the component of Risk Management and Insurance of the Livestock is currently under implementation covering 30 districts of the State of Odisha with OLRDS as the State Implementing Agency. The scheme envisages management of risk and uncertainties by providing protection mechanism to Livestock owners against any eventual loss of their animals due to death along with demonstration of benefit of the insurance of the Livestock. The scheme extends benefit of subsidies to the livestock owners with marginal /nominal reciprocation.

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).

During the current year 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.

2.12 Seminars / Workshops:

The Workshop on 'Enhancing Farmers' income through up-grading Animal Resources - Role of Veterinary Officers' held on 01.11.2018 at Rabindra mandap, Bhubaneswar inaugurated by Honourable Chief Minister, Odisha was attended by Women SHG involved in Animal Husbandry activities.

2.13 Strengthening of Dairy Organization :

The scheme envisages supply of breeding inputs to field Frozen Semen Artificial Insemination centres of the department for conducting FSAI and production of high pedigree female's 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 AI target during 2018-19, high pedigree semen straws, supply of liquid nitrogen, AI sheath will be required. Now the Bovine Breeding Research and Bull Mother Farms' are maintained with 551 heads of animals and during the current year 9 nos 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 to rear quality bull mothers of both native and crossbred breeds for production of pedigreed donor bulls for FSB and for natural service in inaccessible areas where AI service is impracticable, Infrastructure development, induction of bull mothers of different native breeds/crossbred and Operational cost of management of these farms will be taken up. Management of Breeding Information in livestock will be strengthened.

2.14 Interest Subvention on Long Term Credit Support to Livestock Farmers

Term loan support to livestock farming: Livestock farmers used to avail term loan from banks for equipments, machineries, shed, procurement of livestock and other activities towards asset creation in dairy farming through the ongoing schemes like DEDS, PDE, self finance etc. In order to increase the uptake of term loan in the state, it is proposed to provide interest subsidy/ subvention of 3% of the interest rate charged on term loan availed by the dairy/ poultry/ goaterly/ sheep farmers. Further, additional interest subvention of 2% will be provided to the farmers for regular/ timely repayment of their loan instalment/ dues.

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 2018-19, under State plan scheme "Genetic up-gradation programme" a sum of Rs.16.00 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:

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



Plan under Small Animal Development Sector for the year 2018-19:

1. Small Scale Goat/ Sheep Farming:

During 2018-19, under State Plan Scheme "Small Scale Goat/ Sheep Farming" 4161 farmers were targeted to be benefited with a subsidy Rs.17,500/-(as subsidy @50%) each to establish goat/sheep units.

2. 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 and the Project has been completed in this financial year.

4.0 Poultry Development:

Poultry has been the fastest growing sector in providing employment to a significant number of people in the State. Poultry rearing is done mostly for the egg and meat production.

In order to boost poultry production in the state, the State Govt. have accorded Poultry as Agriculture Status. The State is still lagging behind the national average in per capita availability of eggs. Against the National per capita consumption i.e 74 eggs per Annum during the year 2017-18, in Odisha, it is only 48 eggs. As per the new Odisha Poultry Development Policy 2015 notified by the Government, there is a target to achieve production of 100 lakhs of eggs per day by 2020. As per the policy, various steps are being taken by the department to enhance the egg production in the State.

Odisha with the commercial layer population of 70.00 lakhs in 122 nos. commercial layer farms producing 63 lakhs eggs per day. In addition around 7 lakhs eggs per day is being produced from Back Yard Poultry. It is an important state with respect to the poultry farming and poultry related industry. However, to increase the per capita availability of eggs, and to meet the nutritional requirement, the layer poultry farming has to grow substantially.

The following programme have already taken up to enhance the Poultry meat and Egg production of the State during 2018-19.

- Under Encouragement of Commercial Poultry Entrepreneur and Backyard poultry Production Programme, it has been targeted to support 29,000 nos. of landless SC/ST farmers in shape of supplying 50 nos. of LIT birds of 04 weeks old with a temporary night shelter. A sum of Rs. 3000/- per farmer is to be expended and budgetary provision of 878.11 lakh has been sanctioned and the amount has already been allocated to all the districts. The selection process of farmer has been completed and 4 weeks old chicks are supplied in phase wise through empanelled suppliers.
- A sum of Rs.1012.00 lakh has been sanctioned to support farmers through Layer farming in Deep Litter system in SHG mode. Around 1600 WSHG of State are to be supported under this project. Each WSHG will be supported with 200 sexed layer birds with a project cost of 0.90 lakh with 60% subsidy.
- Around 20,000 farmers are to be provided with 50 nos. of LIT birds of 04 weeks old with a project cost of Rs.3000/ farmer in TITLI affected district like Ganjam, Gajapati, Kandhamal, Puri, Cuttack & Rayagada. The bird distribution programme is going on. For this an amount of Rs.600.00 lakh has already been sanctioned.
- During 2018-19, 48 number of district poultry hatcheries are in operation to produce day old chicks to meet the demand of backward poultry rearing scheme in the State and 4.56 lakhs of chicks have been produced and supplied to farmers till Dec, 2018.
- 4 nos. of Chicken Fresh outlets are established and operational at OUAT, IRC Village, Saheed Nagar, Chandrasekharpur through OPOLFED.



Commercial Poultry Farm



Rural Backyard Poultry

5.0 Fodder Development:

Introduction:

The fodder plays a vital role in economic development of the State. The Feed and Fodder comprises the daily ration as well as production ration of the livestock. The economic development through livestock can only be possible where there is availability of feed and fodder. Cultivation & feeding of nutritious fodder has not yet been fully 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 livestock rearers of State, various fodder development programme has been taken up by the Department.

Fodder Development Programmes in the State:

- i) Seasonal fodder cultivation Programme
- ii) Perennial fodder cultivation Programme
- iii) Distribution of Hand operated chaff cutter
- iv) Fodder Seed Production Programme (Farm).
- v) Fodder Production & Demonstration Programme (Farm).

5.1 Seasonal Fodder Minikit Programme:

Under this programme, fodder seed minikits are distributed free of cost to the farmer to take up seasonal fodder production. The minikits are supplied by Govt. of Odisha out of its own production at Departmental farms and procured from Govt. agency across the Country. During this year, 16191 Nos. of minikits have been supplied to the farmers of the State under State plan and 2851 Nos of minikits have been supplied out of the production from departmental fodder seed production farms. The target of area of seasonal fodder cultivation is 4047.75 Ac. The said area has been achieved. Further, 82.5 Ac under rabi and 506.5 Ac under Kharif were covered out of seeds produced from Departmental farm.



Maize

5.2 Perennial Fodder Production:

Perennial fodder can be viable for three to four years and production as compare to seasonal is much more in case of hybrid Napier crop. The perennial fodder cultivation required assured irrigation and fertilisation for higher yield. During 2017-18, there is proposal for cultivation of perennial fodder crop over an area of 4904.5 Ac. Out of which 1335 .00 Ac has been achieved since 31.12.2018.

5.3 Distribution of hand operated chaff cutter:

Under RKVY, it has been targeted for distribution of 5300 Nos. hand operated chaff cutter in the State. As per requirement placed by Chief District Veterinary Officers 2771 Nos. of chaff cutter has been indented for supply to different district. Out of 2771, 1141 nos of chaff cutter have been distributed to different districts.



Hand operated Chaff cutter

5.4 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 5.00 lakhs has been allotted to different farms to cover an area of 88 Acres. for fodder seed production. As on December 2018, 1489550 numbers of roots/slips have been produced by the Seed production farms in the state.

5.5 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 881750 Nos. of root/slip and 7374.1 Qtl. of green fodder have been produced. An amount of Rs. 6.3 lakhs has been allotted to different farms to produce fodder and planting materials.

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 Asst Surgeon and one Para-vet 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-2018

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	58436	110643	2849855	3845650
Total	58436	110643	2849855	3845650

6.2 National Animal Disease Reporting System (NADRS):

The NADRS involves a computerized network integrating MIS and GIS linking each Block, District & the State headquarters to the Central Disease Reporting & Monitoring Unit at DADF, Newdelhi. All the 314 blocks, 30 CDVO offices, Animal Disease Research Institute, Phulnakhara and the Directorate of AH&VS, Odisha, Mangalabag, Cuttack have been 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 2018-18(up to December-18):

Sl. No	Activities	Phy Target	Achievement
	Immunisation against economically important disease		
1	HS vaccine	9400000	5420900
2	BQ Vaccine	7200000	4262200
3	ENT Vaccine	1400000	709400
4	Goat Pox Vaccine	2000000	968800
5	R2B Vaccine	4000000	2566700

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	Achievements
1	Immunisation against economically important disease	
i	Theileriosis Vaccine	100850 doses utilized
ii	PPR Vaccine	1935650 doses of vaccine utilized
iii.	FMD	7502000 doses of vaccine utilized
iv	Anthrax	1257750 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 2018-19 (up to December-2018)

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)	94.00	O.B.P.I.BBSR	75.383
2.	B.Q.V.	73.30	O.B.P.I.BBSR	59.527
3	RD (R ₂ B)V	40.00	O.B.P.I.BBSR	55.838
4	ASV	22.00	OBPI (SU) BAM	18.280
5	ENT	14.00	OBPI (SU) BAM	13.661
	Total	243.30		222.689

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.

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 Help Line with Veterinary Ambulance :

In the urban areas, Helpline addresses any emergency help required for stray Animals like Dogs, Cow, bulls etc. On receipt of help line call, the Ambulance reaches 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 are done on the spot. Three Number of such Ambulance for Bhubaneswar, Cuttack & Berhampur Municipality area are in function.

6.8 Support to Private Goshalas:

Stray animals lead a miserable life due to lack of proper feeding, health care measures. Few private Gaushals provide shelter to these animals & provides feeding, health care measures etc. But these facilities are insufficient. There are 41 registered Gaushals functioning in our State. These registered private Goushals are supported with financial assistance to meet feeding cost so as to increase their activities towards rehabilitation of old, sick & abandoned animals.

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. 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
 - ❖ 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.

Pathological Sample tested for the year 2018-19 (upto December 2018)

Sl. No.	Parameters	No. of samples tested		
		ADRI	CILs, SVL & DDLs	Total
1	No. of blood samples tested for hematological study (Hb%, DC)	7018	17587	24605
2	No. of urine samples analyzed for different bio-chemical study.	1931	1926	3857
3	No. of Post-mortem conducted	1013	1902	2915

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.

Samples tested for the year 2018-19(upto December 2018)

Sl. No.	Parameters	No. of samples tested		
		ADRI	CILs, SVL & DDLs	Total
1	No. of F/S examined in different species	2396	22990	25386
2	No. of blood smears examined for blood protozoa	14036	8665	22701
	Sample +ve for Theileria	6734	3460	10194
	Sample +ve for Babesia	0	77	77
	Sample +ve for Trypanosoma	8	2008	2016
	Sample +ve for Anaplasma	76	12	88

3. Activities of Bacteriology Division

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

Samples tested for the year 2018-19 (upto December 2018)

Sl. No.	Name of the samples tested	No. of Samples Tested		
		ADRI	CILs, SVL & DDLs	Total
1	No. of milk samples tested for MCMT, Culture and antibiogram study	545	1526	2071
2	No. of Blood samples, Uterine samples and other tissue samples tested for culture and antibiogram study	1137	831	1968

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 01.04.2018 to 31.12.2018

A.	(i) Number of Pre-Vac serum samples collected	-	6089
	(ii) Number of Post-Vac serum samples collected	-	5969
	(iii) Number of random serum samples collected	-	2596
	(iv) Number of serum samples collected from FMD outbreak area	-	1087
		Total	15741
B.	(i) Number of serum samples tested for FMD by DIVA ELISA Test	-	783
	(ii) Number of samples found positive & percentage of Prevalence-		342(43.67%)
	(iii) No. of Pre-vac serum samples tested for FMD by SPC ELISA Test-	1 st Round –	1753
		2 nd Round –	3600
	(iv) No. of Post-vac serum samples tested for FMD by SPC ELISA Test-	1 st Round –	1591
		2 nd Round –	3378

Report on Activities on PPR-CP from 01.04.2018 to 31.12.2018

(i)	Number of serum samples collected from sheep & goats	-	1021
(ii)	Number of serum samples collected from PPR outbreak area	-	50
		Total	1071

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 in the table.

Samples collected and tested for screening against AI for the year 2018-19 (upto Dec.18)

Total samples collected	Serum samples tested BSL-II Lab. of ADRI	Samples tested at NIHSAD, Bhopal					Samples tested at RDDDL, Kolkata			
	Serum	Serum	Swabs	Dead birds	F/S & Env. Samples	Total	Serum	Swabs	F/S & Env. Samples	Total
16382	2457 (All-ve)	198	233	29	16	476 (51 +ve)	1494	8441	2514	12449 (All-ve)

(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 2018-19 (upto December 2018)

Sl. No.	Disease	No. of samples received / collected	No. of samples / animals tested	No. found +ve	+ve Percentage
1	Brucellosis	666	480	NIL	0

(c) Anthrax C.P.

19 Districts out of 30 are prone to Anthrax outbreak in Odisha. Out of them Koraput, Rayagada, Sundargarh & Bargarh are mostly affected. Tissue, blood and blood soaked soil (as much as possible) are collected only from suspected case of Anthrax.

Sl. No.	Disease	No. of samples collected & tested at NIVEDI
1	Anthrax	26 (+ve cases – 6)

(d) 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, Kolkatta.

Samples collected and tested for screening against BSE for the year 2018-19 (upto December 2018)

Sl. No.	Year	No. of Brain samples collected and tested
1	2018-19	13 (All -ve)

(e) 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 2018-19 (upto December 2018)

Sl. No.	Disease	No. of samples / animals tested	No. found +ve	+ve Percentage
1	JD	157	0	0
2	TB	159	0	0

(f) Surveillance on Salmonellosis in Poultry birds

Sl. No.	No. of samples / animals tested	No. found +ve	+ve Percentage
1	365	26	7.12%

(g) Disease O.B. investigation

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 2018-19 (upto December 2018).

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)	83	2548	116	13
2	B.Q.	3	14	14	1
3	Anthrax	3	24	24	3
4	PPR (Goat)	6	221	153	4
5	Theileriosis	4	37	24	2
6	Goat Pox	5	191	71	4
7	Worm Infestation (Fasciolosis)	1	5	3	1
8	Avian Influenza	8 Epicentres	-	13182 birds culled	1

6.(i) Training Programmes of ADRI

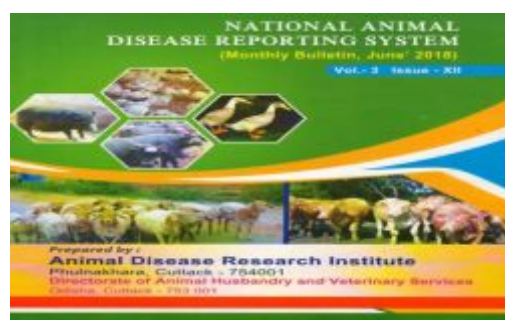
Resource persons of this institute are imparting refresher training to in service Veterinarians and Para-Veterinarians of the State under different disease control programme to augment their technical-know-how.

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

Particulars	No. of Trainees
Vets & Medical personnel Trained on Anthrax outbreak investigation	30
Livestock Inspectors pursuing training for 2 years Diploma Course.	52
Total -	82

(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 farmers' Field.
- Liaison with KVK to organise DFT.
- Organise field trial and validate

During the year 2018-19 the following activities in ARD sector have been taken up in our State under National Livestock Mission. An amount of Rs. 599.33 Lakhs (CS:374.57 Lakh::SS:224.76 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)- 2018-19

This component includes all credit cum subsidy linked activities implemented through NABARD. Under the component, an amount of Rs. 83.00 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 2018-19, 121 broilers (1000 capacity with a unit cost of Rs. 3.13 lakh) and 122 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. District cover under EDEG-PVCF Broiler (Balasore, Boudh, Cuttack, Dhenkanal, Jagatsinghpur, Subarnapur) & IDSRR-Goatery (Kandhamal, Koraput, Mayurbhanj, Nawarangpur, Sundargarh).

2. Innovative Poultry Productivity Project (IPPP)- Broiler and Low Input Technology (LIT) birds (CS:SS:60:40):-

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. Bolangir, Bhadrak, Jajpur, Sundargarh, Balasore and Mayurbhanj.

a. IPPP- Broiler (CS:SS:60:40)

Two hundred farmers in 9 blocks in 4 districts like Titilagarh & Saintala block of Bolangir district, Bhadrak & Basudevapur block of Bhadrak district, Badachana & Binjharapur block of Jajpur & Rajaganjapur, Kuanramunda & Sundargarh Sadar block of Sundargarh district have been assisted for establishment of broiler units under the programme. Six hundred hybrid broiler chicks are 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, Bolangir, Bhadrak, Jajpur & Sundargarh for establishment of 200 small broiler units @ Rs. 1,12,500/- per unit and farmer selection has been completed by Dec, 2018.

b. IPPP-Low Input Technology (LIT) bird (CS:SS:60:40)

Four Hundred farmers of Oupada & Nilagiri block of Balasore district and Thakurmunda & 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 have been supplied to each farmer in two phases with a financial support of Rs. 35,000/- per unit. During 2018-19 2nd phase (200 LIT birds) of supply of birds has been made to each unit of these two districts with a financial outlay of Rs. 10,000/- per unit.

3. Rural Backyard Sheep Development Programme (CS:SS:B::60:30:10):

For encouraging the rural farmers for sheep rearing to support their livelihood and income, it has been planned to implement Rural Backyard Sheep development programme in Odisha from the year 2018-19. Young ewes of 4-5 months and rams are being supplied to the poor farmers and SHG members to assist them. Farmer selection has been completed by Dec, 2018. The programme is being taken up in districts like Bolangir, Kendrapara & Koraput in cluster basis.

Under the component, an amount of Rs. 89.10 lakh has been sanctioned for implementation of the programme.

4. Rural Backyard Goat Development Programme (CS:SS:B::60:30:10):-

For assisting the rural farmers for Goat rearing and to support their livelihood and income, it has been planned to implement Rural Backyard Goat development programme in Odisha from the year 2018-19. Young does of 4-5 months and bucks are being supplied to the poor farmers/ SHG members to assist them. Farmer selection has been completed by Dec, 2018. The programme is being taken up in districts like Balasore, Kandhamal, Nayagarh & Kalahandi in cluster basis. Under the component, an amount of Rs. 118.80 lakh has been sanctioned.

5. Rural Backyard Pig Development Programme (CS:SS:B::60:30:10):-

Pigs are being reared by the poorest of poor and backward classes of the society with less social and financial security. To increase the productivity in Pigs the interested poor farmers and SHG members will supported to established small pig units with young gilts and boars. It will be helpful to increase the income of the farmers also will ensure nutrition.

88 farmers have been selected by Dec, 2018. The programme is being taken up districts like Mayurbhanj & Sundargarh in cluster basis. Under the component, an amount of Rs.16.63 lakh has already been sanctioned.

B. Sub-Mission: Skill Development, Technology Transfer & Extension (CS:SS:60:40):-

i. Training and Capacity Building

Under Training & Capacity building 20 batches @ 20 Nos. of farmers per batch of Trainings on Broiler Management & 40 batches @ 20 farmers per batch of Trainings on Management of Low Input Technology Bird & 126 batches @ 20 farmers per batch per block for training on Small Animal Management & 180 batches @ 20 farmers per batch for training on Dairy farmers on Fodder Development & 20 batches @20 member per batch for training of Paravets on AH Activities & 30 batches @ 30 members per batch for training for other Stakeholders on AH schemes and programmes at District Level & 10 batches @ 20 members per batch training on In-service of Veterinary Officers on Small Animal Poultry Management have been planned to conduct in different districts and VOTI during this year, 2018-19 with an expenditure of Rs.109.80 lakhs CS:SS::65.88:43:92).

Abstract of Physical and Financial outlay under NLM- 2018-19						
(Rs. In Lakh)						
Sl. No.	Planned Activities	Physical	Financial			
			Central Share	State Share	Total	Beneficiary Share
A.	Livestock Development					
1	Innovative Poultry Productivity Project for Broiler (CS:SS::60:40)	200 Beneficiaries	135	90	225	0
2	Innovative Poultry Productivity Project for Low Input Technology Birds	400 Beneficiaries	24	16	40	0
3	Rural Backyard Sheep development programme (CS:SS:B::60:30:10)	150 Units	59.4	29.7	89.1	9.9
4	Rural Backyard Goat Development programme (CS:SS:B::60:30:10)	200 Units	79.2	39.6	118.8	13.2
5	Rural Backyard Pig Development programme (CS:SS:B::60:30:10)	88 Units	11.09	5.54	16.63	1.85
Total			308.69	180.84	489.53	24.95

B.	Skill Development, Technology Transfer & Extension.					
1	Training & Capacity Building (CS:SS::60:40)	426 Batches	65.88	43.92	109.8	0
Total			65.88	43.92	109.8	0
Grand Total for Planned Activities (A+B)			374.57	224.76	599.33	24.95

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.

Livestock owners are also trained at block and District level. Under state plan scheme, livestock farmers are imparted with 5 days training 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	150 batches involving 3000 farmers	State Plan – Up-gradation of skill in self-employment under ARD sector
2	Skill Up-gradation Training on Sheep & Goat farming	146 batches involving 2920 farmers	State Plan – Up-gradation of skill in self-employment under ARD sector
2	Skill Up-gradation Training on Poultry farming	18 batches involving 360 farmers	State Plan – Up-gradation of skill in self-employment under ARD sector

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

Training of Veterinary Officers at VOTI (Upto December, 2018)

Sl. No.	Name of Training	Period	Participant	Source of Fund
1	Internship for Veterinary Students	11-Apr-18 to 15-Apr-18	20	
2	Induction	22-May-18 - 26-May-18	25	State Plan
3	Induction	28-May-18 - 01-Jun-18	25	State Plan
4	Livestock & Fishery based Livelihood	4-Jun-18 – 8-Jun-18	20	Soil Conservation & Watershed
5	ToT - Feed & Fodder (1 st phase)	11-Jun-18 - 13-Jun-18	20	State Plan
6	Poultry and Small Animal Management	19-Jun-18 - 23-Jun-18	17	CSS - NLM
7	Poultry and Small Animal Management	25-Jun-18 - 29-Jun-18	19	CSS - NLM
8	Poultry and Small Animal Management	02-Jul-18 - 06-Jul-18	20	CSS - NLM
9	Poultry and Small Animal Management	09-Jul-18 - 13-Jul-18	19	CSS - NLM
10	Poultry and Small Animal Management	16-Jul-18 - 20-Jul-18	15	CSS - NLM
11	ToT - Feed & Fodder (1 st phase)	30-Jul-18 - 01-Aug-18	19	State Plan
12	ToT - Feed & Fodder (1 st phase)	02-Aug-18 - 04-Aug-18	19	State Plan
13	Pet Care Management	16-Aug-18 - 18-Aug-18	19	State Plan
14	Extension Management	24-Sep-18 - 26-Sep-18	20	State Plan
15	Extension Management	27-Sep-18 - 29-Sep-18	18	State Plan
16	Feed & Fodder-TOT (2 nd phase)	09-Oct-18 - 11-Oct-18	18	State Plan
17	Feed & Fodder-TOT (2 nd phase)	25-Oct-18 - 27-Oct-18	18	State Plan
18	Feed & Fodder-TOT (2 nd phase)	29-Oct-18 - 31-Oct-18	16	State Plan
19	Infertility Management - TOT	26-Nov-18 - 30-Nov-18	20	OLRDS
20	Infertility Management - TOT	03-Dec-18 - 07-Dec-18	20	OLRDS
21	Conservation & Improvement of Native Germ-plasm-TOT	10-Dec-18 - 14-Dec-18	20	OLRDS
22	Assisted Reproductive Technology - TOT	17-Dec-18 - 21-Dec-18	17	OLRDS
		Total	424	



Poultry and Small Animal Management



Training of Trainers on Feed and Fodder



Training of Trainers on Infertility management



Pet care Management

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 Soil Conservation and Watershed Mission for organising training at VOTI, Bhubaneswar for WMT members. SMILE has facilitated various trainings at Veterinary Officers Training Institute, Livestock Inspectors Training Institutes and District Training Centres.

Livestock owners are also trained at block and District level. Under various schemes, livestock farmers are trained on Animal Husbandry subjects. The details of Farmer Training conducted (upto Dec, 2018) are as follows.

Sl. No.	Name of Event	No of Batches	Name of Scheme
1	Skill Up-gradation Training on Dairy farming	117 batches involving 2340 farmers	State Plan – Up-gradation of skill in self-employment under ARD sector
2	Training on Fodder cultivation	20 batches involving 600 farmers	State Plan – “Feed and Fodder Production in Different Agro-Climatic Zones and Utilization for Livestock of Odisha”
3	Training to Fodder Cooperative members	4 batches involving 120 farmers	- Do -
4	Training on Broiler Management	17 batches involving 340 farmers	NLM
5	Training on Management of Low Input Technology Birds	25 batches involving 500 farmers	NLM
6	Training on Small Animal Management	34 batches involving 1020 farmers	NLM
7	Training on Perennial Fodder Production	36 batches involving 720 farmers	NLM
8	Training of dairy Farmers on Fodder Production	10 batches involving 200 farmers	NLM
9	District Level Training of Duck Farmer	3 batches involving 90 farmers	State Plan
10	Awareness Training on Anthrax	33 batches involving 330 farmers	Anthrax – CP
11	Other Farmer Training	83 batches involving 1660 farmers	DRDA/ ATMA/ etc.
	Total	382 Batches with 7920 farmers	

The detailed training program conducted for Livestock Inspectors and Private AI Workers (Gomitra) are as follows.

Sl. No.	Name of Event	No of Participants attended	Name of Institute	Name of Scheme
1	5 days refresher training of AI workers(Para-vets: LI/VT)	50	LITC, Bolangir	NPBB
2	5 days refresher training of AI workers(Para-vets: LI/VT)	34	LITC, Bhanjanagar	NPBB
3	5 days refresher training of AI workers(Para-vets: LI/VT)	139	FSB, Cuttack	NPBB
4	Two Years basic LI Training	100	LITC, Bolangir	State Plan
5	Two Years basic LI Training	41	LITC, Bhanjanagar	State Plan
6	Two Years basic LI Training	86	LITC, Chipilima	State Plan
7	Two Years basic LI Training	58	ADRI, Phulnakhara	State Plan

8	Two Years basic LI Training	79	DTC, Cuttack	State Plan
9	Two Years basic LI Training	119	FSB, Cuttack	State Plan
10	5 days refresher training of Gomitras	25	FTC, Pipili	NPBB
11	5 days refresher training of Gomitras	25	DTC, Cuttack	NPBB
12	5 days refresher training of Gomitras	25	DTC, Jagatsighpur	NPBB
13	Training on Small Animal Management on broiler and LIT	40	DTC, Balasore	NLM
	Fodder production and feeding practices	120	FTC, Pipili	NLM
14	Fodder Production Technology and Management for fodder staff	80	FTC, Pipili	State Plan
15	Fodder production and feeding practices for fodder staff	80	FTC, Pipili	NLM
	Total	1101		



Skill up-gradation training on Poultry farming at Rengali, Sambalpur



Skill up-gradation training on Dairy farming at Satyabadi, Puri

8.3 Information, Education and Communication Programme

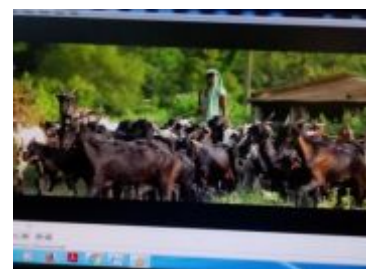
This programme plays a very important role for creating awareness among people, especially the Livestock owners of the State in order to overcome panic situation during occurrence of various emerging diseases like Bird Flu, Swine Flu, Rabies, Anthrax, etc. which are having zoonotic importance and public 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.,



Poultry Farming



ARD Logo



Goat farming

Table- 1 IEC activities under Electronic Media 2018-19
(As on 31.12.2018)

Sl. No.	Name of Event	Number/ Figure
1	No. programmes broadcast in AIR & audio spots	67
2	Duration of broadcast in AIR & audio spots	59,700 Sec.
3	No. of programmes telecast in TV media	37
4	No. of TV spots telecast in Doordarshan	15
5	Audio visual materials prepared for telecast	24
6	No. of Departmental website maintained	4

Table- 2 IEC activities under Print Media 2018-19(As on 31.12.18)

Sl. No.	Name of Event	Number
1	No. of printing materials distributed	50,000
2	No. of advertisement floated in newspapers (Display-10)	50
3	No. of articles published in different newspapers and magazines	54
4	No. of news published in various news papers	75

Table- 3 Other IEC activities 2018-19 (As on 31.12.2018)

Sl. No.	Name of Event	Number/ Figure
1	No. of Wall paintings	120
2	No. of Folklore programmes organized	120
3	Development of ARD Logo	1
4	Livestock Exhibition organized at State Level	2
5	Workshop organized in interest of Farmers at State Level	2

Organization 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. 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-2018.

Our Department organised the state Level Gamha Purnima Festival/ Mahostav-2018 which was held on 26.08.2018 at Podanga of Puri district to celebrate the birth day of Lord Sri Balabhadra Dev with the show casing of Go-Pujan, cattle show, animal health camp and farmers training etc. Further a Fodder training programme and Cattle show was a also organized at Deogarh on the occasion of Gamha Purnima Fest



(State Level Gamha Purnima Festival/ Mohostav-2018)

Observation of 67th Gosambardhana Week-2018:

67th Gosambardhana Week-2018 was observed from 10.11.2018 to 16.11.2018 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 Gualigorada of Satyabadi block in Puri district on 15.11.2018.

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. Government of Odisha vide Notification No.15545/FYAH.dated 3.8.1976 have authorized the Inspectors of State Society for the Prevention of Cruelty to Animals(SPCA), Odisha to exercise power under the said Act. The Inspector of SPCA in the field of animal welfare are conducting mobile courts with help of Police and Judiciary to check animal cruelty cases in different part of the State as well as programmes in educational Institutions, public places, religious places, cattle markets to rouse public consciousness towards kindness and compassion to animals. Besides, Animal Birth Control Programme(ABC), Relief and Rescue operation during natural calamity, T.V. & Radio Programme, Training Programme on animal welfare are being organized by SPCA to develop animal welfare activities throughout the State.

Animal Welfare activities undertaken through SPCA

Sl. No.	Activities	2018-19 (April-Dec,18)
1.	No. of cases prosecuted under PCA Act, 1960	593
2.	No. warning cases issued to offenders	1068
3.	No. of cases convicted	511
4.	Fine money imposed on cases convicted and deposited to Govt. account by court concerned.	Rs.63,690/-
5.	No. of awareness programme in educational institutes, public places, training programme on legal aspects & welfare of animals by involvement of SHG/PRI members/NGO personnel/ Slaughter House people/ Cattle traders/ Teachers/ Advocate/ Police & Forest personnel/ L.I., Gomitra & Sanitary Inspector to create consciousness about animal welfare	60
6	No. of Animal Birth Control Programme organized to check the population of stray dogs and control of Rabies.	2022

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 .

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 83 years, a number of stud centres have been increased and Utkal Gomangal 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.

In the financial year 2018-19 Government has sanctioned Rs.42.00 lakhs only as Grant-in-aid in Salary Head and Rs.42.00 lakhs in Non-Salary head to implement the Programme and management of Office as well as Bull Rearing and Fodder cultivation for feeding of animals.

Now, 18 Nos. of Bulls (17 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 30 Nos. of Murrah Buffalo Bull/ Bull Calves from Central Cattle Breeding Farm, Avadi, Chennai-52 or Central Institute for Research on Buffaloes at Hissar, Haryana for natural breeding purpose during this year.

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 through the authorised sales booth agents as well as the Chicken Fresh outlet established at SDVO campus Sahidnagar, IRC Village, OUAT Campus & Chandrasekharpur.

In addition to the above, another Chicken Fresh outlet has been established at Kamli Bazaar, Sambalpur during the year 2017-'18 with the financial Assistance of Western Odisha Development Council (WODC). Further, three nos. of Chicken Fresh outlets at CDVO Office Campus, Jagatsinghpur, Kandhamal & Khordha have been established on PPP mode & made operational during the financial year 2017-18 & 2018-19.



(Chicken Fresh Outlet at Kamli Bazaar, Sambalpur)

Activities taken up by OPOLFED during 2018-19 (Up to December 2018):

- OPOLFED has marketed around 58 lakhs of eggs, 6.5 lakhs of packet eggs, 273 MT of chicken meat and 168 MT of poultry feed.
- OPOLFED is going to set up 53 nos. of Chicken Fresh Outlets in major cities, suburbs across the State on PPP mode.
- OPOLFED has taken up the integration of poultry bird programme in Nayagarh district under IPPP.
- 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.
- Action have been taken to introduce poultry food on wheel and also establishment of 52 nos. of Chicken Fresh outlets under RKVY Scheme.



Distribution of Poultry feed and equipments to the TITLI affected area of Gajapati Dist

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

12.1 Activity Report for the year 2017-18

The Odisha State Cooperative Milk Producers Federation was started during the year 1980 under Operation Flood-II programme and Registered under Society Act with Registration No- 6/BBSRDtd. 28.01.1980. Omfed is headed by elected Board of Directors represented by Chairman and Managing Director as CEO. The functions of OMFED are carried out through the affiliated Thirteen District Milk Unions (Cuttack, Puri, Dhenkanal, Sambalpur, Keonjhar, Balasore, Mayurbhanj, KMNR, BKN, Boudh, Kandhamal, Sundargarh & Mayurbhanja). Omfed has its own Eleven Dairies (Bhubaneswar, Balasore, Sambalpur, Keonjhar, Rourkela, Jeypore, Berhampur, Bhawanipatana, Dhenkanal, Slapada and Anugul) and other two Dairies i.e at Tirtol 20,000 LPD & Tangi 10,000 LPD maintained by Cuttack & Puri Milk Union respectively. Three new Dairies are coming up, One 5 Lakh LPD at Govindpur-Arilo near Baranga, 50000 LPD at Sonapur and 20000 LPD at Kendupatna, Cuttack. In addition to this two Cattle Feed plants one is situated at Radhadamodarpur in Cuttack district and another is at Jagannathapur in Khurda District. State Level Apex Cooperative Society having its brand name OMFED, has taken the responsibility to increase the Dairy Development activities in the State like Milk Procurement, Processing & Milk marketing.

Every financial year Omfed has prepared a budget for its turn over including all units in order to carry out its activities from Milk Procurement to Milk Marketing and developmental works. That Budget is duly approved by the Board and after completion of the financial year, the achievements made against the budgetary allocation was reviewed once again by the Board.

During the year 2018-19, Omfed has budgeted turnover of Rs.913.32 Crore and achieved Rs. 718.42 Crore in different fields such as Milk Procurement & Marketing.

Milk Procurement:

- OMFED is procuring around 5.45 lakh litres of milk per day from all the 30 districts of the State. As of now, 5944 societies have been organized in which 2.76 lakh farmers have been enrolled, out of which 1.13 lakh are enrolled as women members. Federation has recorded highest Milk Procurement i.e. 6.42 lakh litre of milk on 4th July, 2018. 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.
- Omfed has organized 261 nos of Tribal Women Dairy Society and enrolled 8718 nos of farmer members and collecting 8936 Ltrs of milk daily. There is a provision to give subsidy on cattle feed, mineral mixture, SS Milk Can, De-worming medicines and different kinds of training programme to tribal women farmer members.
- In order to maintain transparency in milk procurement quality test and price payment to farmers, 1350 no. of Automatic Milk Collection Units (AMCU) have been installed at MPCs.
- Chilling infrastructure of 403 Bulk Milk Cooler with capacity of 8.75 lakh litres is available.
- Milk processing capacity of OMFED reaches to 6.70 lakh litres per day.
- Milk Powder Plant is made operational for conversion of 30000-35000 ltrs of milk to Milk Powder at Bhubaneswar Dairy daily.
- Farmers are provided with incentive of Rs. 927.27 crores towards cattle feed expenditure incurred during the lean period (Sept-March).
- Under RIDF a project for establishment of fully automated 5lakhs litres Dairy plant at Arilo, Govindpur, of Baranga Tahsil has been sanctioned in favour of Omfed. As against the estimated project cost of Rs.244.24 crore, NABARD sanctioned Rs. 244.34 crore out of which Rs. 232.12 crore as RIDF loan and State Govt. share of Rs.12.21 crore.
- It is pertinent to mention here that, agreement to this effect has already been materialized on 28.04.2018 with NDDDB & total amount of Rs. 72.79 Crore has been rewarded to NDDDB for Tender execution of the project work within 33 months.
- During 2018-19, 21 lakh litre of milk has been sold as bulk sale and 1 crore 10 lakh litre of milk has been converted to milk powder and ghee.

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.
- 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, fortified milk with vitamin A& D for lakhs of customers in the State.
- OMFED has started online marketing and home delivery system through M/s. Gozip.com
- 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. OMFED has appointed 42 Milk Distributors, 154 Product Distributors and 28 Ice cream Distributors for enhancing distribution network.
- OMFED has appointed 4879 nos. retailers to sell milk and milk products in the State during 2018-19.
- 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 15000 ltrs. and that of Salapada is 26500 ltrs./day.
- Already 50 nos of e-cart is running successfully for distribution of Ice cream and other milk products.

Cattle Feed:

- Premium and Super mash Cattle feed at Radhadamodarpur, Cuttack and Pallet Cattle feed having 20% crude protein (Nutrigold) Jagannathpur, Khordha are produced and supplied to the farmers at subsidised rate @ Rs.19/Kg. During 2018-19, 31000 MT has been supplied and subsidy @ Rs. 2/- per Kg. amounting 6.00 crore has been extended to MPCs members.
- OMFED has started Maize Procurement for its manufacturing of Cattle feed from Nabarangpur Farmers' Cooperatives to give the farmers a remunerative price. OMFED has paid Rs.14.72 Crore to maize cultivators towards procurement of 8923.85 MT of maize.
