



OLRDS

Annual Activity Report 2017-18



**Odisha Livestock Resources
Development Society**

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About the Society

The Odisha Livestock Resources Development Society (OLRDS) is an autonomous body, which was formed in the year 2000 under the Societies Registration Act to reorganize breeding operations in cattle and buffalo of Odisha. This has been formed vide Government Notification No. 10220-3V (D)-7/99/FARD dt.29.05.1999.

OLRDS is the State Implementing Agency for all bovine breeding activities of the State. OLRDS is committed for the socio-economic development of the people through genetic up-gradation of existing cattle and buffalo. The improvement of local cattle and buffalo through genetic up-gradation under the assistance of Central and State sponsored schemes.

The Society focuses on

i) organized breeding through Artificial insemination (AI) or Natural Service by high quality bulls ii) improving access to quality livestock breeding services iii) arranging and in time supply of breeding inputs to field iv) educating farmers for genetic improvement of their cattle and buffaloes v) initiating appropriate research work for conservation of important indigenous breeds so as to prevent the breeds from deterioration and extinction.

Functions of OLRDS

In Odisha, National Project for Cattle and Buffalo Breeding (NPCBB) has started since 2001-02, which is being implemented by a State Implementing Agency (SIA) i.e. Odisha Livestock Resources Development Society (OLRDS). The breeding project aims at providing systematic breeding services to cattle and buffaloes of the state to improve their genetic potentiality and productivity. It has adopted various approaches like production of quality semen, strengthening and expansion of AI network, provision of breeding services at the doorstep of the farmers, sexual health control measures, creating awareness among the farmers through trainings, shows and rallies, refresher training for the professionals etc. This has resulted higher transformation of existing cattle and buffalo resources in term of their genetic makeup and increase in total production, thereby substantially contributing to the state GDP.

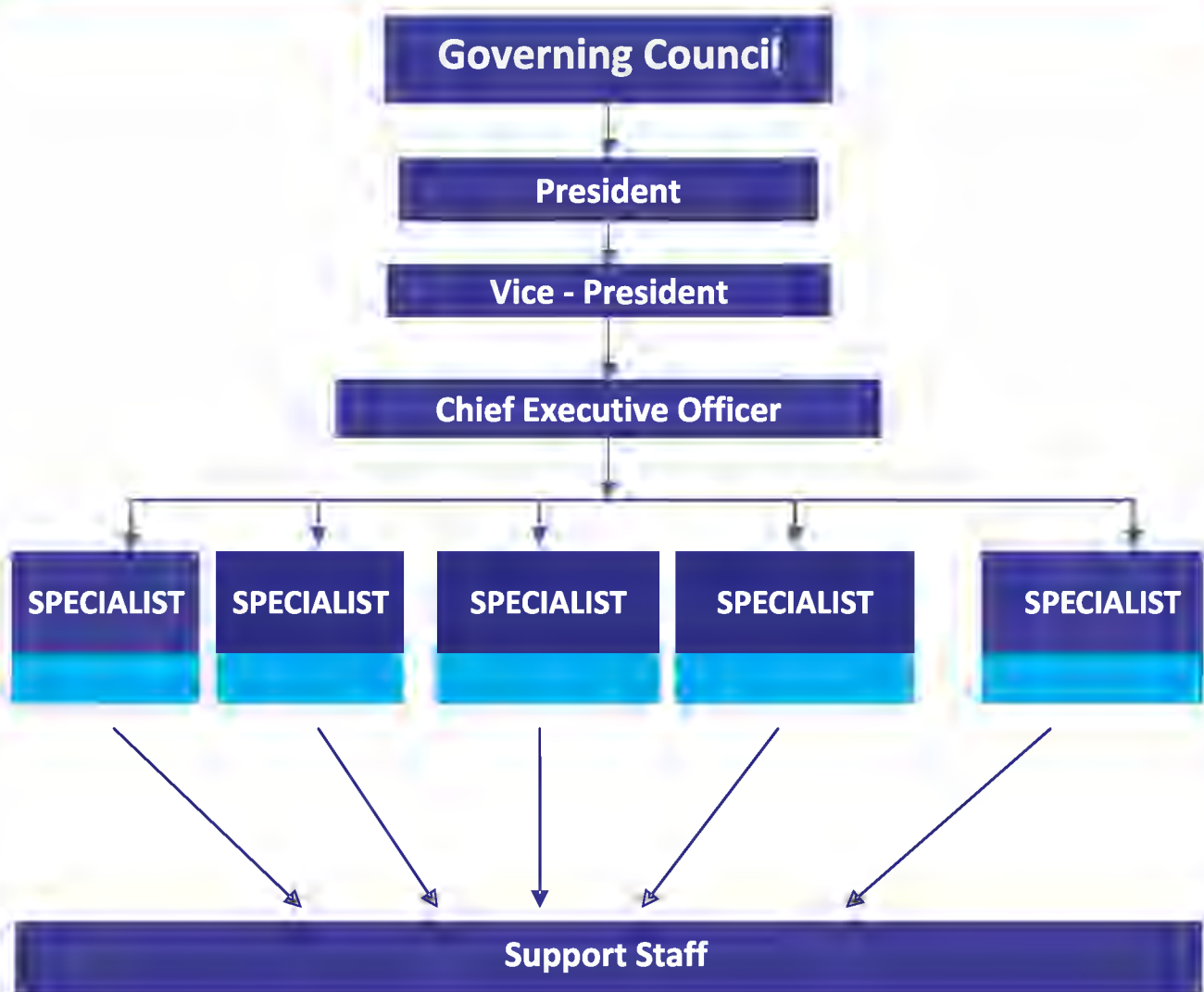
Some of the key functions being performed by the State Implementing Agency (SIA) i.e., OLRDS are as follows;

- ◆ Conversion of non AI centers to AI centers.
- ◆ Provision of mobile AI facility for rendering doorstep services
- ◆ Self employment for the educated youths by engaging as Gomitras.
- ◆ Uninterrupted and timely supply of logistics and other inputs like LN2, straws, sheaths etc. to the AI Centers .
- ◆ Establishment of Natural Service centers for up-gradation of local cattle & buffaloes in inaccessible areas.
- ◆ Strengthening of the Bull Rearing Centers at Frozen Semen Bank.
- ◆ Production of quality bull semen by adopting strict Bio-security measures.
- ◆ Conduct Field Performance Recording (FPR) of bovines.
- ◆ Organization of fertility camps for sexual health control measures.
- ◆ Synchronization of estrus among cattle and buffaloes.
- ◆ Refreshing the knowledge of the professionals on animal breeding and reproduction through training and exposure visits.
- ◆ Production of Crossbred bulls by inseminating the elite cows with semen of proven sires.
- ◆ Conduct Progeny Testing Programme in field conditions for evaluation of the breeding bulls donating

semen at FSB, Cuttack.

- ◆ Strengthening of Bull mother farms of state.
- ◆ Conservation and improvement of native germplasms through selective breeding.
- ◆ Implementation of Livestock Insurance Scheme.
- ◆ Partnering with agencies like BAIF, JK Trust, NDDB and other external agencies for livestock development of the state.
- ◆ Implementation of Calf Rearing Programme in collaboration with OMFED.

Organization Structure



Management

Odisha Livestock Resources Development Society (OLRDS) is having a Governing Council with following statutory members.

(A) Official members

1	Principal Secretary/ Secretary to Govt., Fisheries & Animal Resources Development Department, Govt. of Orissa.	President
2	Director of Animal Husbandry & Veterinary Services, Orissa	Vice – President
3	Addl. Secretary / Joint Secretary to Govt., Fisheries and Animal Resources Development Department	Member
4	Managing Director, OMFED	Member
5	Addl. Secretary / Joint Secretary to Govt., Planning & Coordination Department	Member
6	Addl. Secretary / Joint Secretary to Govt., Finance Department	Member
7	Joint Director (HID), Veterinary Directorate	Member
8	Joint Director – I, Veterinary Directorate	Member
9	Deputy Director, Frozen Semen Bank, Cuttack	Member
10	Accounts Officer, Veterinary Directorate	Member
11	Chief Executive Officer, OLRDS	Member Secretary (Convener)

(B) Non-official Members

12	Joint Honorary Secretary, Utkal Gomangal Samiti	Member
13	Joint Honorary Secretary, Society for Prevention to Cruelty to Animals, Cuttack	Member
14	Person nominated by Governing Council	Member

HIGHLIGHTS OF ACTIVITIES OF OLRDS FOR 2017-18

- 3009 Departmental institutions have been equipped with AI Facility.
- 2776 Departmental Static AI centres are also providing doorstep AI service.
- 913 Private AI workers (Gomitras) have been engaged to render breeding and health related services at farmers' door step in inaccessible areas.
- Coverage of bovine breedable population under organized breeding increased from 11% in 2002-03 to 27% in 2016-17.
- Five Breeders' Societies namely Chilika Buffalo Promoters' Society (CBPS), Kalahandi Buffalo Producers' Society (KBPS), Binjharपुरi Cattle Promoters' and Producers' Society (BCPPS), Motu Cattle Promoters' Society (MCPS) and Khariar Cattle Breeders' Society (KCBS) have been set up in Native tract of Chilika, Kalahandi, Binjharपुर, Malkangiri & Nuapada respectively towards breed improvement & conservation of all registered breeds of Odisha.
- Nine Binjharपुरi bull calves were procured from the farmers door step and placed in the Livestock Breeding Farm, Cuttack. These calves will act as breeding bulls in future and are expected to donate semen towards insemination of the cows.
- ISO certified 9001:2008, Grade-'A' Frozen Semen Bank, Cuttack has been modernized & the bull stations have been strengthened.
- Bulk LN2 transportation system for different districts has been strengthened.
- District level Semen depots have been strengthened.
- Regional Training Center at Balasore has been established.
- Basic AI Training & refresher training are imparted to field AI workers.
- Control for infertility in adult female bovines has also been implemented.
- 14, 24,418 nos. of A.I. have been conducted during 2017-18 covering around 32% of the breedable population of the State.
- 5,87,537 nos. of progenies were born out of Artificial Insemination.
- 3138 doses of sex sorted semen has been utilised on pilot basis in 05 blocks of Cuttack district.
- 10,87,537 nos. of frozen semen doses were produced at FSB, Cuttack during the year 2017-18.
- 500 nos. of Artificial Insemination Technicians were imparted with Refresher Training of A.I. Programme.
- 2,07,480 numbers of animals have been insured under Risk Mangement and Livestock Insurance.

A. ACTIVITIES UNDER RASTRIYA GOKUL MISSION (RGM)

I. Increasing the breeding coverage of bovines

I. a. Introduction

The Odisha Bovine Breeding Policy, 2015 has been notified by the State Government intending to improve socio economic condition of people through genetic up-gradation of cattle and buffaloes through systematic Bovine Breeding.

Odisha is having a good livestock potential, where most of the animals are indigenous. During the year, 14.24 lakh Artificial Insemination (A.I.) in bovines have been achieved covering around 32% of the breedable population of the State. Steps have been taken to make departmental Non-A.I. centers, AI compatible and

static AI centers were provided with mobile facility in order to provide breeding services at the doorstep of farmers.

Govt. of India is emphasizing 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 RGM, it is planned to cover 100% of bovine breedable population under organised breeding with special focus on genetic up-gradation of indigenous non-descript bovines.

In the current year, micro-planning was made to demarcate the areas for Artificial Insemination Centres of various agencies such as Departmental AI Centres, OMFED Societies, BAIF and JK trust centres. Keeping in view the vacancies of staff in the Departmental AI centres, those operational areas were distributed amongst the other agencies in order to ensure availability of bovine breeding services to the farmers.

I.b. Conversion of Non – AI Centres to AI compatible

With the Conversion of 200 Non – AI Centres to AI centres during the year 2017-18, the number of Artificial Insemination (AI) centres compatible with AI facility has been increased to 3009 centers.

I. c. Provision of mobile AI facility

Mobile AI facilities are available in 2776 nos. of departmental AI centers for providing AI services at the doorstep of the farmers.

I. d. Engagement of private AI worker (Gomitra)

913 Private AI workers (Gomitra) are working in the field. People are able to avail A.I. services for their cattle and buffaloes at their doorstep. The institutional gap is bridged to a great extent by providing service in the areas where department service is not able to reach.



I. e. Extending Breeding services through Milk Producers' Co-operative Society

At present 1002 nos. of Milk Producer's Cooperative Services (MPCS) Secretaries are providing breeding services, where Government AI facility is not available. The Artificial Insemination activity is being taken up in a coordinated manner so that more number of breedable population can be covered under organized breeding. Possible support is being rendered from the department to these AICs managed by the district milk unions for maintaining the optimum reproductive health status of the animals through Infertility Treatment camps.

I.f. Trend in A.I. done

The number of AI achieved and progenies born for the year 2017-18 is 14.24 lakh and 05.87 lakh respectively. The district wise comparative AI and progenies born since 2014-15 to 2017-18 has been placed at appendix A shows that there is an increase in Artificial Insemination done to 14.24 lakhs in 2017-18 from 11.65 lakhs in 2009-10.

II. Quality Control in Livestock Breeding Services

Steps have been taken to maintain the quality of the frozen semen, which is the critical input for livestock breeding. As per the field requirement, the production schedule was planned and the shortfall in the production level was bridged by procuring good quality crossbred and buffalo frozen semen from leading organizations of our country.

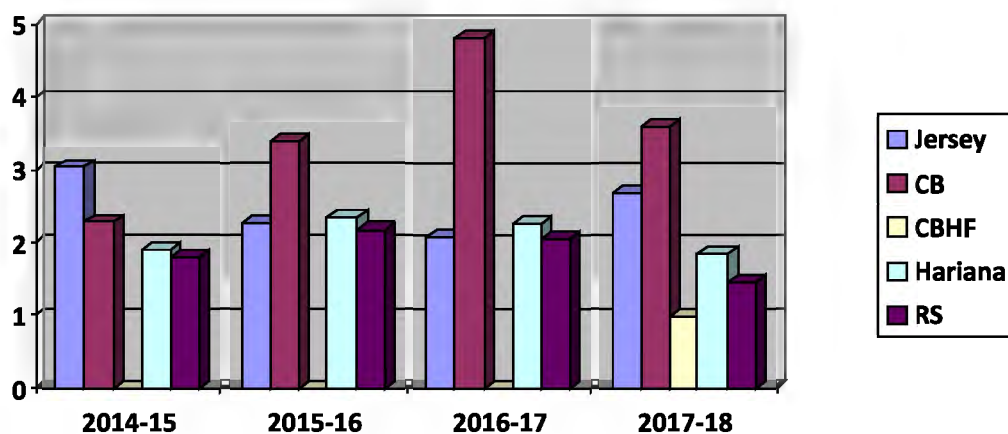
II. a. Rearing Donor Bulls

Single pen accommodation has been created for rearing bulls in the frozen semen station, Cuttack. About 80 donor bulls of different breeds like Haryana, Red Sindhi, Pure Jersey and crossbred Jersey are being maintained in the Frozen Semen Station for collection of semen. Moreover, 14 nos. of donor bulls were purchased this year and maintained at FSB, Cuttack for semen collection.

II. b. Strengthening of Frozen Semen Bank Laboratory

The frozen semen-processing laboratory established in 1978 has been strengthened during this year. The laboratory was renovated to provide more space and by creating a separate room for storage and dispatch of semen. It is well equipped with modern equipments to produce 15 lakh doses of semen per year. All the critical equipments are under AMC and measuring equipments are calibrated by Regional Reference Standard Laboratory, Bhubaneswar.

The breed-wise semen production is given in appendix C.



III.c. Process control and certification of FSB, Cuttack

The breeding Jersey/ Cross Breed bulls are procured from CCBF, Chipilima and Sunabeda; and Haryana bulls are procured from Rohtak. The bulls are regularly tested for diseases like Brucellosis, Vibriosis, Trichomoniasis and Tuberculosis by RDDL, Kolkata and State Laboratory. The bulls are also screened for IBR. Karyotyping of all donating bulls is done by NDDDB.

- ◆ Frozen Semen Bank (FSB), Cuttack has been upgraded to match the Good Management Practice Norms prescribed by Government of India. Strict bio-security measures have been developed. The laboratory rooms like processing and quality control, semen collection centre and sewerage system of the station have been set up as per the Central Monitoring Unit (CMU) norm. FSB, Cuttack has got ISO 9001:2008 certifications and awarded with "A" grade by Central Monitoring Unit and stood second position in the eastern region and 6th position in the country.

II. d. Cold Chain Management

Maintenance of cold chain is being promptly taken up by the society at Frozen Semen Station and field institutions through uninterrupted supply of Liquid Nitrogen. During the year 2017-18, 12, 53,401 litres of Liquid Nitrogen (LN₂) was distributed to field AI centers from Frozen Semen Station, Khapuria, Cuttack. Arrangements have been made by providing transport vehicles to different districts for intra-district transportation of LN₂. Procurement of 10 vehicles for 10 districts is under process.

The condition of Liquid Nitrogen containers are being supervised time to time for preservation of semen straws. Containers (Transportation/Storage and Biological) of various capacities were being supplied and replaced time to time, to prevent the cessation of services to farmers. The cryo containers presently available for Cold Chain Management is as follows

Sl. No.	Type	Number available
1	Jumbo-12	41
2	IN-50	260
3	TA-55	1542
4	IX-47	33
5	IX-35	905
6	YDS-3	4178



II. e. Information Network for Animal Productivity and Health (INAPH):

For effective monitoring of bovine breeding activities "Information Network for Animal Productivity and Health (INAPH)" developed by National Dairy Development Board (NDDB) was implemented in the State on Pilot basis in 5 Blocks of Cuttack district. During this year, it was replicated in all Bovine Breeding Research & Bull Mother Farms (BBR&BM) of the State.

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. During the year 2017-18, 10,595 number of animals were registered and 10,001 number of AI & 528 number of calf born was uploaded under INAPH Programme.



II. f. Conservation of Native Germplasm

The indigenous cattle breeds and locally adapted lesser known breeds even with relatively large population size are not only declining fast, but are subjected to genetic erosion. Improving the over-all performance of locally

adapted breeds with better package of management and breeding practices will often produce more sustained benefits than strategies involving replacement of crossing with exotic breeds. This calls for an immediate action for systematic conservation, genetic improvement and sustainable utilization of locally adapted breeds of cattle.

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



II. g. 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 assess 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 conducted in five blocks namely Basudevपुर, Gop, Kesinga, Atabira and Hatadihi of Bhadrak, Puri, Kalahandi, Bargarh and Keonjhar districts respectively with a physical target of 1000.

II. h. Controlled Breeding Programme:

Under RGM, Controlled Breeding Programme of Non-descript cows was undertaken in 30 districts of the State with an aim to double the income of farmers by adopting advanced reproductive technology namely synchronized breeding of indigenous cows. Indigenous semen such as Gir, Sahiwal, RS and Haryana was utilised for inseminating the cows. 17600

II. i. Use of Sex Sorted Semen:

Artificial Insemination using sex sorted semen (Exotic) was taken up in 5 INAPH operated blocks of Cuttack district namely Niali, Kantapada, Nischintakoili, Salepur & Mahanga on pilot basis for enhancing milk production in the State of Odisha. 3138 numbers of sex sorted semen doses were supplied to the field. Block wise detail report on Sex Sorted Semen of Cuttack district is summarized below.



Sl. No.	Name of the Block	Total no. of straws received	Total no. of straws utilised	No. of calf born up to 31.03.2018		
				Female	Male	Total
1	Niali	653	653	118	2	120
2	Nischintakoili	653	653	14	2	16
3	Mahanga	645	645	29	0	29
4	Salepur	576	576	2	0	2
5	Kantapada	629	629	19	2	21
Total		3138	3138	182	6	188

II. j. National Mission on Bovine Productivity (NMBP)

NMBP, a sub-scheme under RGM was implemented in Odisha with an objective to enhance productivity of bovines. Two components namely Pashu Sanjivani and E-Pashuhaat were taken up in Odisha.

Pashu Sanjivani: The programme aims to identify all in-milk Bovines with Unique Identification (UID) and maintenance of health and breeding record followed by uploading of data on National Data Base i.e. in Information Network for Animal Productivity & Health (INAPH), thereby, health status, breeding details and productivity status of the animals can be accessed by all the stakeholders and at the same time the farmers can be advised with suitable options to enhance the productivity of the animals. Under NMBP, 440833 numbers of ear tags, 1500 numbers of ear tag applicators, 1500 numbers of Tablet PCs have been procured and Printing of Nakul Swasthya Patra (Health Card) is under process at Govt. Press, Cuttack.

I. E-Pashudhanhaat: It is an e-market portal by Govt. of India to facilitate the trade of Bovine germplasm viz. frozen semen, embryo & live animals which can be accessed by any farmer, breeder and any other agencies. Details of the breeding bulls available at FSB, Cuttack Following information were uploaded in

the e-Pashudhan Portal. Details of the bulls available at FSB, Cuttack have been uploaded with pedigree records (Jersey- 39 , Jersey Cross- 67 , HF Cross- 10 , Haryana- 29 ,Red Sindhi- 21).Bull wise semen production details are being uploaded on daily basis.Further,17 bull calves procured under FPRS have been uploaded in the portal for sell.

III. Education and Training

The Society had taken steps for providing the information through electronic media by developing the website. The farmers will have access to information in terms of knowledge to increase the production.



For refreshing the knowledge on cattle and buffalo breeding among the field functionaries, 1000 nos. of existing A.I. workers like Vets, Paravets and Gomitras were trained with Refresher Training of A.I. Programme during the year.

IV. Meeting, work shop and Seminar

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



One seminar on “Doubling of farmer's income through Dairy and Allied Farming Practices” was held on 27.11.2017 at Jaydev Bhawan .It was inaugurated by Honorable Chief Minister, Odisha.



The Society participated in State level Krushi Mahotsav organized at Bhubaneswar from 6.3.2018 to 9.3.2018 at the Biju Pattnaik Football Playground at Baramunda , Bhubaneswar. Bovine Breeding activities were showcased to the farmers and visitors.



V. Risk Management & Livestock Insurance

To extend a safety net to the Livestock farmers against any eventuality 'Risk Management' as a component of sub-mission on Livestock Development under National Livestock Mission (NLM) was implemented through OLRDS in all the 30 districts of the State covering 207480 animals (LA=109808, SA=97672).

This component aims —

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

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

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



Physical Achievement of Livestock Insurance for the year 2017-18

Sl. No.	Achievement – No. of animals insured			Total
	Name of the District	Large animal	Small animal	
1	Angul	4575	2089	6664
2	Balasore	6053	2980	9033
3	Bhadrak	4531	2416	6947
4	Balangir	3237	1845	5082
5	Bargarh	3427	2123	5550
6	Boudh	1432	999	2431
7	Cuttack	5376	8120	13496
8	Dhenkanal	2271	2815	5086
9	Deogarh	2239	2284	4523
10	Gajapati	732	1681	2413
11	Ganjam	4456	5940	10396
12	Jagatsinghpur	4616	1676	6292
13	Jajpur	3483	3564	7047
14	Jharsuguda	1466	744	2210
15	Kalahandi	3733	6832	10565
16	Kandhamal	2898	3299	6197
17	Kendrapara	6594	4177	10771
18	Keonjhar	3456	5751	9207
19	Khorda	3401	3915	7316
20	Koraput	1500	4999	6499
21	Malkangiri	1663	2374	4037
22	Mayurbhanj	10525	6354	16879
23	Nabarangpur	3900	1977	5877
24	Nayagarh	2775	1811	4586
25	Nuapada	1113	2582	3695
26	Puri	6032	3182	9214
27	Rayagada	2750	3898	6648
28	Sambalpur	3180	2422	5602
29	Subarnapur	2305	1011	3316
30	Sundargarh	6089	3812	9901
	Total	109808	97672	207480

V. Face book page of OLRDS:

The Face book page (www.facebook.com/Olrds) of OLRDS has been opened with an aim to create a social network platform for dissemination of information related to recent technology, knowledge and to act as a potential medium to reach a large number of people on a daily basis which includes a scope to (the viewers) post their comments. Within a short period of time, the Face book page of OLRDS has been able to reach nearly two lakh likes.

On 12th April, 2017 OLRDS got International Icon Award and Gold medal by the Institute of Economic Studies at Kuala Lumpur, Malaysia. OLRDS has been nominated as one of the Finalist among 162 entries for the Social Media for Empowerment Awards, 2017.

VI. Integrated Livestock Development Program – Kalyani

To provide gainful self-employment to the rural livestock keepers through dairy and livestock development programmes “Integrated Livestock Development Program – Kalyani” was implemented in collaboration with BAIF Development and Research Foundation. It has four sub-schemes as follows:

1. Cattle Development Programme:

This was implemented in 10 districts of Odisha namely Angul, Baragarh, Bolangir, Nuapada, Sambalpur, Sonepur, Kalahandi, Boudh, Nabarangpur, Koraput where in 100 CDCs were established to provide door step AI services to breed the local / CB cows using superior Indian dairy breeds like Red Sindhi, Gir, Sahiwal, Tharparkar and exotic breeds cross like Jersey, Holstein Friesian and subsequent follow-up and input support (mineral mixture, de-wormers etc) services.

Activity	Target	Achievement
Exposure visit to farmers	100	94
Training of farmers	600	531
Infertility camps	300	254
Synchronisation Camp	100	253
AI	80000	95412
Calf Born	14000	16777
Female calf born	-	8388
Refreshing Training	4	3

2. Goat Development Programme:

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

The achievements are as follows:

Sl. No.	Activity	Target	Achievement
1	Training of supervisors	25	25
2	Training of field guide	125	125
3	Goat group formation	875	875
4	Selection of buck keeper	875	875
5	Training of Goat keeper at field level	6500	7712
6	Selection, insurance of bucks and procurement of buck distribution	1007	1097
7	Deworming, Mineral Mixture and supplement of buck	1,40,000	112439
8	Weight monitoring at birth, periodically and before sale	15400	33466
9	Buck Service	21000	38300
10	Kids born through breeding services	15400	33466

3. Technology–Knowledge and Strategic Partnership :

Development of Chiplima Fodder Farm – 40 hectares of land available at Chiplima Fodder farm were undertaken by *Kalyani*- BAIF for development of fodder seed and planting material production farm.

V. Integrated Livestock Development Centres - JK Trust Gram Vikas Yojana :

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

Each of these ILD centres was operated by a local educated unemployed youth called 'Gopal' who covered about 8-10 villages within a radius of 5-8 Kms. It provided much needed Artificial Insemination & veterinary support services to all the dairy farmers in the project area.

The achievements for the year 2017-18 are as follows

Sl. No.	Name of the district	No. of AI done			No. of castration	No. Infertility	Deworming	Vaccination
		Cow	Buff	Total				
1	Cuttack	13183	205	13388	2414	304	11982	127016
2	Dhenkanal	3124	30	3154	527	46	3903	30210
3	Nayagarh	3653	133	3786	540	67	2773	30300
	Total	19960	368	20328	3481	417	18658	187526

Cattle Breed and Small Ruminant Improvement Project (CBSRIP) by JK Trust Gram Vikas Yojana under RKVY in Odisha:

Cattle Breed and Small Ruminant Improvement Programme (CBSRIP) was undertaken by J.K Trust Gram Vikas Yojana through 510 "Integrated Livestock Development (ILD) Centres established under RKVY in 13 districts of the state.

The detail achievements of all the ILDCs under CBSRIP for the year 2017-18 up to Dec. 2017 are as follows:

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

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

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

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

X. Strengthening of Frozen Semen Bank under National Dairy Plan - I

For Strengthening of Frozen Semen Bank , Cuttack. NDDB released an amount of Rs. 60.00 lakh out of the sanctioned amount of Rs. 702.17 lakh for the period 2017 - 18 to 2018 - 19 in favour of OLRDS, Bhubaneswar (End Implementing Agency) for implementation of the project National Dairy Plan-I in the State of Odisha. under the project three personnels as identified by NDDB attended the training on World Bank guidelines on implementation of sub project under NDP- I , two laboratory technicians of FSB,Cuttack have been trained on Laboratory Techniques for Lab.Technicians at AAU, Anand, Quality Control Officer(QCO) of FSB, Cuttack has attended the training on Laboratory Techniques for evaluation and quality control of frozen Semen for QCO of semen Station at AAU, Anand, Gujarat, one Designated officer of FSB,Cuttack has attended the training on modern cryo preservation technology for QCO and Veterinary Officer at KLDB, Mattupatty, Kerala. Process for execution of Civil works and procurement of equipments has been taken up as per the guidelines of NDDB.

XI. Awards & Achievements

1. Best AI Technicians award

For outstanding work in the field of Artificial Insemination and Bovine Breeding the following 3 Veterinarians of Odisha have been honoured with Best AI Technician National Award under RGM in the East Zone (WB, Jharkhand, Odisha, Bihar & Chhatisgarh).

Name of the Veterinarian	Position
Dr.Basanta Kumar Behera, BVO Nischintakoli, Cuttack	1 st
Dr.Sanjib Kumar Patel, BVO Attabira, Baragarh	2 nd
Dr. Sasanka Sekhar Nayak,BVO Niali,Cuttack	3 rd

The Awardees were honoured on the eve of National Milk Day on 1st June, 2018 at A P Shinde Hall, NASC Complex, Pusa, New Delhi by Hon'ble Union Minister of Agriculture and Farmers Welfare.

2. Best Field Veterinarian Award

For extraordinary achievement in the field of Veterinary treatment and contribution for overall development the following 3 veterinarians Odisha were honoured with the National Award Best Field Veterinarian under RGM in the East Zone (WB, Jharkhand, Odisha, Bihar & Chhatisgarh).

Name of the Veterinarian	Position Awarded
Dr.Sanjib Kumar Patel, BVO Attabira, Baragarh	1 st
Dr.Manoj Kumar Patnaik,BVO Khallikote, Ganjam	2 nd
Dr.Deepak Kumar Senpati,VAS Kalapada, Cuttack	3 rd

The Awardees were honoured on the eve of National Milk Day on 1st June, 2018 at A P Shinde Hall, NASC Complex, Pusa, New Delhi by Hon'ble Union Minister of Agriculture and Farmers Welfare.



3. Social Media Award

OLRDS bagged International Icon Award and Gold medal by the Institute of Economic Studies at Kuala Lumpur, Malaysia. Face book page of OLRDS was nominated as one of the Finalist among 162 entries for the Social Media for Empowerment Awards, 2017 by the Institute of Economic Studies at Kuala Lumpur, Malaysia.



XI. Governing Council (GC)

The 20th meeting of the Governing Council (GC) of OLRDS was held on 27.10.2017 under the Chairmanship of Commissioner-cum- Secretary to Govt., Dept. of F&ARD, Odisha. Members of GC along with Ex-officio members attended the GC Meeting.

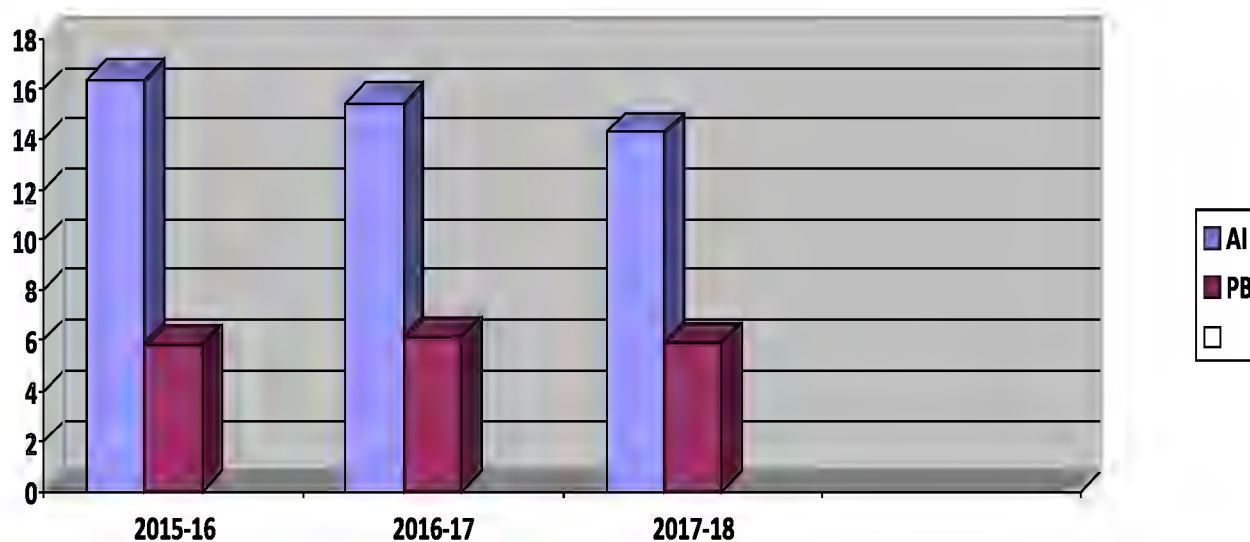


XII. Users Charges

To make the Artificial Insemination programme self driven user charges is being collected at prescribed rate from the farmers. With the approval of the Govt. the user charge for AI was enhanced to Rs. 40 per AI for both Govt. and private players involved in AI service delivery. During the year 2017-18 an amount of Rs.33929849 has been deposited by CDVOs towards user charges at OLRDS.

Comparative Statement of Artificial Insemination from 2014-15 to 2017-18

SL NO	DISTRICT	2014-15			2015-16			2016-17			2017-18		
		TARGET	ACH.	PROG. BORN	TARGET	ACH.	PROG. BORN	TARGET	ACH.	PROG. BORN	TARGET	ACH.	PROG. BORN
1	Angul	57836	42058	15877	57834	47478	16664	58000	46277	17655	76415	48963	19005
2	Bolangir	60000	57437	13818	61682	61297	24359	63000	55166	26004	80301	57474	21745
3	Balasore	101000	92767	30892	101807	100194	34363	105000	90278	38603	171663	97391	33966
4	Bargarh	93500	84414	37364	93506	93100	34879	95000	91069	36266	112732	85055	41881
5	Bhadrak	72068	52364	18610	72448	60047	19769	74000	61042	19736	101783	47195	21606
6	Boudh	26288	24866	7088	27194	27463	9151	28000	26316	6327	31850	20927	8488
7	Cuttack	167000	157650	63672	168871	169233	65899	172000	174162	69706	237675	143956	61938
8	Deogarh	16600	11997	4769	16175	12534	4981	17000	11888	5382	17479	11270	5492
9	Dhenkanal	52889	37540	14989	52836	40710	16811	53000	41494	17839	63943	38692	17607
10	Gajapati	13300	6611	2452	13073	8334	2982	14000	7754	3512	14636	6244	3517
11	Ganjam	83156	52737	20241	83027	50975	18899	83500	47274	18524	81751	38725	17371
12	Jagatsinghpur	134643	131469	51863	135473	139195	55530	139500	135583	57326	180460	122246	48254
13	Jajpur	79791	52268	16145	79797	57572	20253	81000	55181	23282	88780	52960	20881
14	Jharsuguda	16299	10089	4649	16031	10960	4047	16500	9862	4723	15905	13555	6132
15	Kalahandi	51000	48965	16402	51897	51389	13162	53000	42799	12803	60897	38853	16752
16	Kandhamal	16631	11532	2112	16426	10992	2104	17000	9907	2173	27951	15494	1963
17	Kendrapara	79171	78073	26411	80266	86985	33206	87000	77396	32221	120511	60242	24251
18	Keonjhar	76525	50850	21410	76528	54663	20527	77000	54246	23538	89475	54510	23599
19	Khurda	66525	49953	19594	66555	52493	19828	69500	49015	22067	90859	43694	21276
20	Koraput	46344	50909	9942	55613	44269	11345	57500	38537	8661	63667	39536	11159
21	Malkanagiri	19603	18717	5316	21465	20382	5551	23500	15989	2661	37634	13253	4295
22	Mayurbhanj	86561	60399	21410	85965	65440	22888	90000	60932	25629	89263	54315	24370
23	Nowrangpur	34405	32086	11897	36566	34487	10072	39000	26791	6846	49747	34687	9676
24	Nayagarh	36147	28736	9693	36146	32525	11562	37500	33334	12887	40838	30667	13030
25	Nuapara	22615	21764	4532	25224	23585	6165	25500	23920	5770	28317	22382	6141
26	Puri	129602	112469	48973	129975	131296	45160	132000	124169	59944	202870	98148	50197
27	Rayagada	28741	27721	6705	32847	29522	7617	34000	24174	5680	39804	24316	6530
28	Sambalpur	49894	38582	15792	49894	39670	15761	51000	39453	16926	58234	39971	17516
29	Sonepur	33941	30450	11263	34249	33845	10071	35000	32415	14404	43416	31275	14507
30	Sundargarh	49894	42070	14973	50468	43204	15413	52000	37625	15752	81729	38422	14392
	TOTAL:	1801969	1517543	548854	1829838	1633839	579019	1880000	1544048	612847	2400585	1424418	587537



FROZEN SEMEN PRODUCTION

Year-wise Semen Production during 2015-16 to 2017-18

Breeds	20014-15		2015-16		2016-17		2017-18	
	Total Bulls	Production	Total Bulls	Production	Total Bulls	Production	Total Bulls	Production
Jersey	17	3.04	10	2.26	10	2.08	20	2.68
CB	17	2.27	28	3.38	27	4.82	27	3.59
CBHF	0	0	0	0	0	0	08	0.98
Haryana	14	1.90	15	2.34	13	2.26	15	1.84
RS	13	1.79	18	2.17	10	2.05	10	1.46
Total:	61	9.02	71	10.15	60	11.21	80	10.56

Abstract of activities undertaken during the year 2017-18

(Rupees in Lakhs)

Sl. No	Scheme	Activities undertaken	Target		Achievement	
			Phy	Fin	Phy	Fin
1	RGM	Conversion of Non-AI center to AI center	200	80.00	200	59.52
		Conversion of Existing AI centers to Mobile centers	225	36.00	225	28.76
		Procurement, Storage & Transport Cryo-containers	400	80.00	250	78.18
		Strengthening of Semen Station	1	300.00	1	19.00
		Identification of AI born calves	10000	1.5	in process	1.5
		Development & Conservation of Indigenous breeds	5	350.00	5	292.09
		Managerial Grant to SIA		20.00		10.95
		Procurement of Bulls for AI	150	103.00	10	22.72
2	NMBP	Procurement of inputs	Ear tag 440833, Applicater 1500, Tablet PC 1500	153.40	Ear tag 440833, Applicater 1500, Tablet PC 1500	0
		Uploading in e- pashudhanhat portal	0		183	0
3	RKVY	Cattle Breed Improvement Programme(CBIP)- 64 centres	AI 15,616	159.06	AI 20,328	159.06
		Cattle Breed Improvement and Small Ruminant Programme(CBSRIP)- 510 centres	Calf born 43,350	435.00	Calf born 21,550	0.00
4	NLM	Risk Management & Livestock Insurance	200,000	405.00	207,480	385.00
5	State Plan	Intigrated Livestock Development Programme	AI 80,000, Progeny born 14,000	398.48	AI 95,412, Progeny born 16,777	398.48
6	NDP-1	Strengtheing of Frozen Semen Bank, Cuttack	1	60.00	1	1.13
7	Use charges	Collection of user charges towards AI				363.29
8	Others	Artificial Insemination (AI) in lakh	24		14.24	
		Frozen Semen Straws Production (in lakh)	13		10.56	
		Datas uploading in INAPH software	10,000	3.50	AI 5416, Calf born 528, Animal registration 6532	2.79
		AI with sex sorted semen	3138	106.00	3138	75.6

**Chief Executive Officer
OLRDS**



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