



OLRDS

Annual Activity Report 2014-15



**Odisha Livestock Resources
Development Society**

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Background:

1.0 Introduction: Odisha Livestock Resources Development Society (OLRDS)

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

After the winding up of the NPCBB Programme in 2013, OLRDS is involved in implementation of all central and State Sponsored Schemes related to Bovine breeding and development.

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

1.1. Objectives of OLRDS

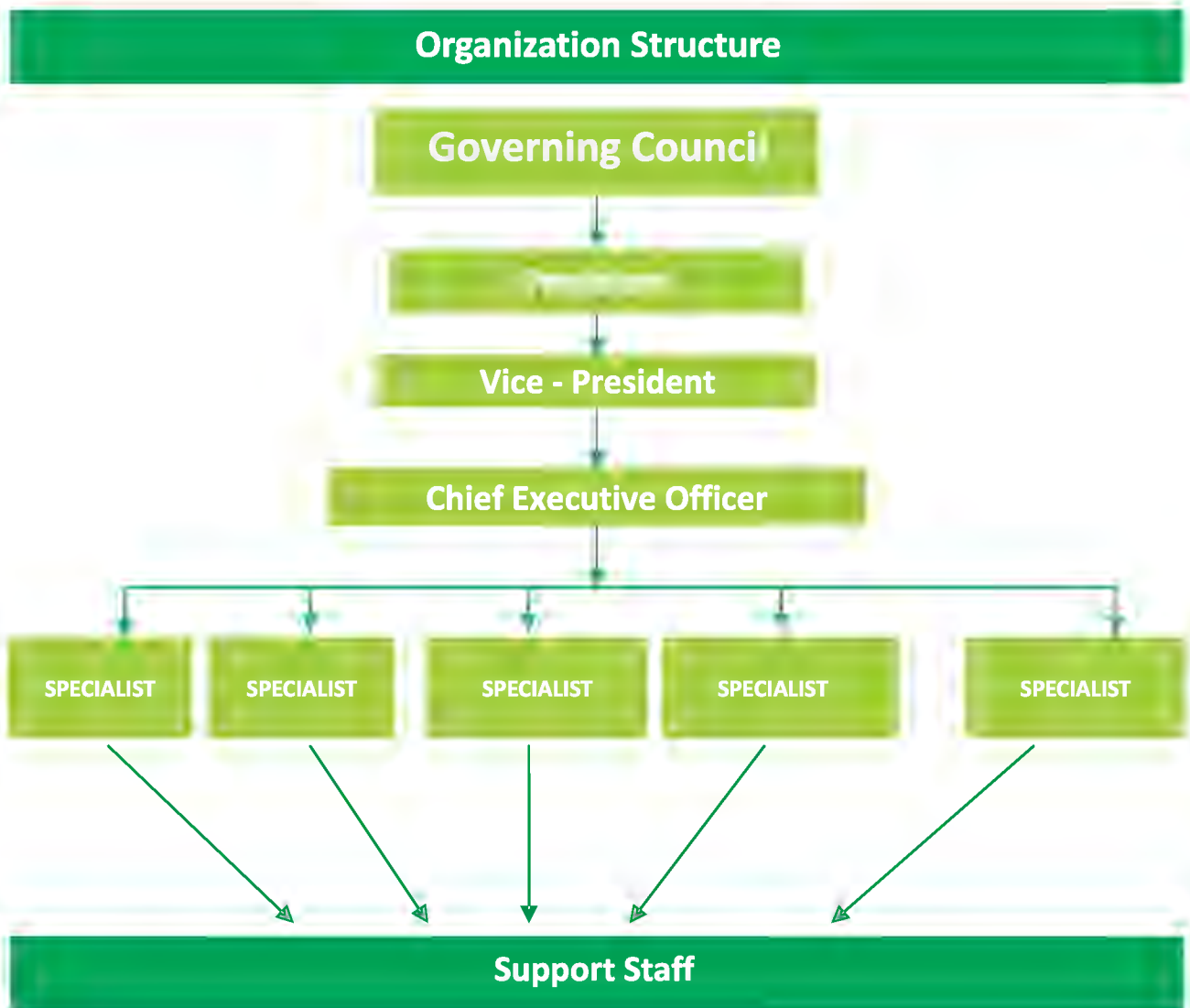
- ◆ To ensure timely supply of AI inputs to the field AI centres by strengthening LN₂ bulk transport, storage and distribution system.
- ◆ To convert static AI centres to mobile.
- ◆ To convert non AI centres to AI centres.
- ◆ To train the AI workers, professional & Go-Mitra.
- ◆ To strengthen bull stations.
- ◆ To identify bull mothers in the field by introducing field performance recording system.
- ◆ To Supply bulls for natural service in inaccessible areas.

1.2. Functions of OLRDS

- ◆ Conversion of non A.I. Centres to A.I. Centres.
- ◆ Provision of mobile A.I. 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 A.I. Centres and maintenance of cold chain for semen.
- ◆ Establishment of Natural Service centres for up-gradation of local cattle in inaccessible areas through Utkal Gomangal Samiti.(UGM)
- ◆ Strengthening of the Bull Rearing Centres at Frozen Semen Bank.
- ◆ Production of quality bull semen by adopting strict Bio-security measures.
- ◆ Conduct Field Performance Recording System (FPRS)
- ◆ Selection of Elite Cows basing on their milk yield.
- ◆ Organization of Infertility treatment camps for sexual health control measures.
- ◆ Synchronization of oestrus among cattle and buffaloes.

- ◆ Refreshing the knowledge of the professionals on animal breeding and reproduction through training and exposure.
- ◆ Productions of crossbred bulls by inseminating the elite cows with proven bull sire semen.
- ◆ Conduct Progeny Testing Programme in field conditions for evaluation of the breeding Bulls donating semen at Frozen Semen Bank, Cuttack
- ◆ Strengthening of Bull mother farms of State.
- ◆ Physical characterization of Native cattle and buffalo germplasms of Odisha
- ◆ Conservation and improvement of native germplasm through selective breeding.
- ◆ Implementation of Risk Management component under Sub Mission-Livestock Development of National Livestock Mission.(NLM)
- ◆ Partnering with agencies like BAIF, KLDB, NDDDB and other external agencies for livestock development of the State.

1.3. Organizational Structure of OLRDS



1.4. Composition of Governing Body / Board of Directors of SIA

Orissa Livestock Resources Development Society (OLRDS) is having a Governing Board 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

1.5. Present Staff position of OLRDS

OLRDS has no sanctioned posts. However, as per the Government order no 4496-2 V-13/2012/FARD dated 24.04.2012 .Four specialist posts of FSB, Cuttack and one post from State Feed Analytical Laboratory, Bhubaneswar are being permanently deployed to work at OLRDS. Further, considering the workload Government also deploys the experienced technical and non technical staff to OLRDS. Moreover, for smooth functioning of day to day work, OLRDS also engages contractual staffs as per the requirement on approval of the President and Governing Body. Various staffs working /engaged at OLRDS is as follows.

2.0. Overview:

Odisha Livestock Resources Development Society (OLRDS) is a govt. registered society dedicated for implementation of the bovine breeding activities in the State. OLRDS is responsible

for planning, coordinating, supporting, reviewing and reporting different bovine breeding activities undertaken in the State of Odisha as State Implementing Agency.

To achieve the Aim and Objectives of OLRDS, budgetary support from Central Plan schemes, State Plan schemes and RKVY assisted projects are being received.

Under Central Plan Scheme, National Programme for Bovine Breeding (NPBB), an amount of Rs.1106.08 lakh has been sanctioned by GoI for supporting the different bovine breeding activities. Further, under Central Plan Scheme Livestock Insurance Scheme (LIS), insurance of animals have been taken up to provide a safety net to the livestock farmers on eventuality of death of the precious animals.

To increase the coverage of breedable bovines under organised breeding State Plan schemes namely Kalyani has been taken up in collaboration with BAIF. Further, to make the State self sufficient in CB bovine semen production, Participatory Research Activity (PRA) namely, FPRS and CB Bull Production Programme involving farmers of the State have been initiated under the State Plan Scheme Strengthening of Dairy Organisation

To boost milk production, strengthen training infrastructures and motivate the AI technicians as well as farmers for AI in the State, a number of new projects namely Cattle Breed Improvement Project (CBIP), Establishment of Frozen Semen Training Institute, Use of Sexed Sorted Semen, Calf Rearing Scheme and Incentives to Gomitra have been taken up under RKVY.

Artificial Insemination is the key bovine breeding intervention undertaken in the field level to enhance the productivity. OLRDS shoulders the responsibility of monitoring of the above activity. To make the programme self driven, Users Charge (UC) at fixed rate is being collected towards the service delivery. Smooth collection and utilisation of UC is monitored by OLRDS.

3.0. Ongoing schemes presently implemented by OLRDS

- A. Central Sponsored schemes
 - i. NPBB, 2014-15
 - ii. Livestock Insurance Scheme
- B. RKVY Assisted Projects
 - i. Cattle Breed Improvement Project (CBIP)
 - ii. Establishment of Frozen Semen Training Institute
 - iii. Use of Sexed Sorted Semen
 - iv. Calf Rearing Scheme
 - v. Performance based Incentives to Gomitra
- C. State Sponsored schemes
 - i. Integrated Livestock Development Programme, Kalyani
 - ii. Strengthening of Dairy Organisation
 - iii. Field Performance Recording System and Bull Production Programme
 - iv. Conservation of threatened breeds

- D. Other Major activities
- i. Artificial Insemination
- ii. Users Charges
- iii. Website

Component wise Physical and financial target under NPBB 2014-15 (Sanctioned by GoI) is as follows.

SN	Components/Sub- Components	Target	
		Phy.	Fin. In Lakhs
1.0	Extension of Field AI Network		
1.1	Establishment of Pvt. AI Centers through NGOs, Basic training, equipments, tapering grant etc for the Pvt AI Workers	-	-
1.2	Refresher Training for Existing Pvt. AI Workers	100	3.00
2.0	Strengthening Existing AI network		
2.1	Conversion of Non AI Center to AI Center	100	40.00
2.2	Conversion of Static AI Center to Mobile Centers	100	16.00
2.3	Refresher Training of Existing AI Worker	500	15.00
3.0	Managerial Grant to SIA & Grants linked to activities		
3.1	Managerial Grant to SIA		20.00
3.2	Concurrent evaluation		4.00
4.0	Strengthening of LN Transport & Distribution System		
4.1	Bulk LN Transport, Storage & Distribution System upto AI Center		
4.1.1	LN Tanker	2	50.00
4.1.2	Transport Vehicle for Intra-district Transport	10	60.00
4.1.3	Procurement Storage & Transport Cryocontainers	300	60.00
4.2	Strengthening District Semen Depots	5	50.00
5.0	Monitoring of AI Programme		
5.1	Identification of Females to be covered under AI	20000	7.00
5.2	Identification of AI Born Calves	-	-
5.3	Recording & Performance Analysis in CB Bovine Stocks	1000	20.00
5.4	Computerization	200	100.00
6.0	Development & Cons. of Ind. Breeds		
6.1	Conservation and Improvement of Native Breeds	4	280.00
7.0	Manpower Development		
7.1	Development of Training Module & Accreditation of Training Centers	6	6.00
7.2	Establishment/ Strengthening of Training Center	2	10.00
7.3	Establishment of Regional Training Center	1	200.00
7.4	Trainers' Training Programme	100	5.00
7.5	Training of Professional(Outside State)	100	25.00
7.6	Organisation of Seminar & Workshops	1	5.00
8.0	Procurement of Bulls for Natural Services & AI		
8.1	Procurement of AI Bulls	50	35.00
8.2	Bulls for NS	100	30.00
8.3	Registration of Bulls for Natural Service & Support to Bull Hosts	100	3.00
9.0	Control of Infertility among Bovines	628	62.80
	Project Cost		1106.80

A. Major components under National Programme for Bovine Breeding, 2014-15

1.0. Extension of field AI net work.

1.2. Refresher Training for Existing Pvt. AI Workers

Objective:

To impart refresher training to Gomitras on recent bovine breeding activities for smooth delivery of services.

Status :(up to 2013-14)

1650 Gomitras were engaged for rendering Artificial Insemination service at the doorstep of the farmer under the Central Sponsored Scheme National Project for Cattle and Buffalo Breeding (NPCBB).

For effective service delivery, Gomitras need to be imparted with refresher training about recent development of bovine breeding.

Interventions undertaken during the year

A Meeting with the all the stake holders was organised to finalise the modalities namely identification of training institutes, training calendar, detailed guidelines, participant list, training module, training curriculum along with financial break up. It was finalised to conduct the above training in collaboration with SMILE at Frozen Semen Bank, Cuttack in the subsequent year.



2.0. Strengthening of existing AI net work.

2.1. Conversion of Non AI Center to AI Center

Objective:

- To provide AI facility for the farmers at non AI centres
- To cover more number of breedable females under AI

Status :(up to 2013-14)

Government of Orissa decided to open new Livestock Aid Centres (LAC) in Gram-Panchayats having no field institutions. Accordingly, 300 new LACs have already been established and rest 600 new LACs will be established in a phased manner. These new LACs are to be converted to AI centres with provision of desired AI inputs.

Interventions undertaken during the year

- During the year 2014-15, it has been decided to provide AI inputs to convert 100 new LACs AI centers.
- Detail list of equipments with specification has been finalised through Technical Committee.
- District wise requirement was placed to DAH & VS, Odisha for placing the indent towards procurement.

2.2. Conversion of Static AI Center to Mobile Centers

Objective:

- To provide mobile AI facility at the doorstep of the farmers
- To cover more number of breedable females under AI.

Status :(up to 2013-14)

- As proposed at 2.1, the new AI centers will be converted to mobile centers with provision of mobility AI facility. In this context, it is proposed to convert 100 static AI centers to mobile centers during the year 2014-15 with required inputs.

Interventions undertaken during the year

- ◆ During the year 2014-15, it has been decided to provide AI inputs to convert 100 static AI centers to Mobile AI centers
- ◆ Detail list of equipments with specification has been finalised through Technical Committee.
- ◆ District wise requirement was placed to DAH & VS, Odisha for placing the indent towards procurement.



2.3. Refresher Training of Existing AI Worker

Objective:

- To impart training to field AI workers(veterinarians and para-veterinarians) on recent developments on Bovine breeding
- To strengthen and improve the AI service delivery system through trained man power

Status :(up to 2013-14)

Day by day a number of new interventions are being taken in field of Bovine breeding. For effective delivery of breeding services, the knowledge and skill of the existing AI workers need to be updated.

Interventions undertaken during the year

A Meeting with the all the stake holders was organised to finalise the modalities namely identification of training institutes, training calendar, detailed guidelines, participant list, training module, training curriculum along with financial break up. It was finalised to conduct the above training in collaboration with SMILE.



- ◆ It has been decided to impart refresher training to 500 AI workers (100 veterinarians and 400 para-veterinarians) at designated training institutes of the State.

3.0. Managerial grant to SIA and Grants Linked to Activities

3.1. Managerial grant to SIA

Objective:

- To meet the day to day expenditure of SIA

Status :(up to 2013-14)

Orissa Livestock Resources Development Society is the State Implementing Agency (SIA) for effective implementation of all bovine breeding activities of the State and need to be supported to meet the managerial expenses namely hiring contract employees, honorarium to other supporting staff, hiring of vehicles, water and electricity, TA and DA of staff deputed for seminars, workshops etc., and for monitoring of the component wise project work in the field.

Interventions undertaken during the year:

- Payment of monthly salary of contractual staff engaged by OLRDS along with meeting day to day expenses of OLRDS.

3.2. Concurrent Evaluation

Objective:

- To conduct impact assessment of NPBB by organisation selected by GoI.
- To facilitate impact assessment of NPBB through GoI selected organisation.

Status :(up to 2013-14)

NPBB is a new central sponsored programme being implemented in Orissa and need to be evaluated to take remedial measures (if any) for future interventions.

Interventions undertaken during the year:

- GoI has been moved for indicating the organisation / Agencies for Concurrent evaluation.

4.0. Strengthening of LN Transport and Distribution System

4.1. Bulk LN transport, storage & Distribution System up to AI centre

(i) LN Tanker

Objective:

- To procure LN Tanker for procurement of LN from industrial source to different designated destinations of the state for inter- district distribution.

Status :(up to 2013-14)

- Arrangement for effective transportation of various breeding inputs to reach at different levels in time is crucial for smooth implementation of AI programme by any of the agencies. Bulk transport of LN from the source of production, reaching at storing points, distribution among the field institutes are to be performed properly to prevent disruption in providing the service to the farmers.
- There are two LN tankers available at FSB, Cuttack out of which one has been under repair leaving one tanker to procure LN from outside the State. Three tankers are required to cater the requirement of the State having 10 districts per location.

Interventions undertaken during the year:

LN distribution is being taken up by private suppliers. Hence, Joint Director, FSB, Cuttack has been requested to furnish the actual requirement for Strengthening of LN Transport and Distribution System.

4.1. Bulk LN transport, storage & Distribution System up to AI centre

(ii) Transport Vehicle for intra-District Transport

Objective

To procure Transport Vehicle for intra- district transport of LN at regular interval to each AI centre in the field under DGS&D rate contract.

Status : (up to 2013-14)

For intra-district transportation of breeding inputs to different AI centers in time districts are to be supported with LN transported vehicle. These vehicles will be used to replace the old vehicles provided under NPCBB in phased manner.

Interventions undertaken during the year:

CDVOs have been requested to furnish the requirement of LN Transport Vehicle of their districts.

4.1. Bulk LN transport, storage & Distribution System up to AI centre

iii. Procurement, Storage & Transport Cryocontainers

Objective

- To procure cryo containers as per the requirement and distribute to the field for storage and distribution of LN to the field.
- To replace the old and non functional cryocontainers in the field.
- To ensure quality AI services.
- To reduce the rate of evaporation of LN.

Status : (up to 2013-14)

LN containers are critical input for Storage, transportation and distribution system of breeding inputs of the State. These containers are damaged due to regular use and need to be replaced. 600 numbers of LN containers were supplied during the year 2013-14 under NPCBB.

Interventions undertaken during the year:

- Assessment of requirement of Cryo-containers is being taken up through CDVOs of respective district and FSB, Cuttack.



4.2. Strengthening District Semen Depots

Objective

- To strengthen the district Semen depot for storage and distribution of Various AI inputs
- To ensure smooth supply of AI inputs to the field

Status :(up to 2013-14)

The Frozen Semen Bank Khapuria, Cuttack is the central institution for production of quality bull semen for the State. Semen and other breeding equipments are usually transported from this institute to the District Semen Depots, where these are stored for field distribution. As per the schedule of distribution of the concerned districts, these inputs are distributed to the field institutions in regular intervals.

There are 30 Semen Depots in Odisha with one each in every district. Under NPCBB, each of the 30 district semen depots were Strengthened @ Rs 1.5 lakh each. These depots are required to be strengthened for smooth implementation of livestock breeding activities of the district in terms of infrastructure, inputs, etc.

Interventions undertaken during the year:

- Technical Committee meeting has been organised to identify the districts and finalise the guidelines for Strengthening District Semen Depots. It has been finalised that the funds @ Rs10.00 lakh per district will be placed to CDVO, Angul / Mayurbhanja / Ganjam / Koraput and Joint Director, FSB, Cuttack for strengthening of District semen depots.

5.0. Monitoring of AI Programme

5.1. Identification of Females to be covered under AI

Objective

- To identify 20,000 cows covered under AI with 12 digit poly-urethane ear tags with unique ID number on pilot basis.
- To impart TOT training to master trainers and end users training to AI technicians of the operational area
- To upload the AI, Pregnancy diagnosis and progeny born details in INAPH data base.
- To plan for future breeding strategy by utilising the data base of INAPH.

Status :(up to 2013-14)

Govt. of India has made it mandatory to identify the female bovines covered under AI. The animals will be identified with 12 digit UID ear tag and the database will be uploaded in the INAPH database.

Interventions undertaken during the year:

- As per the guidelines of GoI, NDDB has been contacted for implementation of INAPH in Odisha.





- It has been finalised to take up the activity on pilot basis in some selected pockets of the State in collaboration with NDDDB.

5.2 Identification of AI born Calves (funds not released)

5.3. Recording & Performance Analysis in CB Bovine Stocks

Objective

- To estimate and analyse the population average of milk production potential of the Cross Bred bovines of an area maintained by the farmers.
- To create a data base of milk production potential of the sample population so as to focus for specialised breeding intervention if needed.
- To calculate the Milk Production Potential of CB bovine Stock of the area under Study.
- To fix a bench mark for supply of appropriate semen straws.

Status : (up to 2013-14)

Odisha possesses very good stock of crossbred animals (CBJ and CBHF). Under State plan Scheme, Field Performance Recording programme (FPRS) has been taken up in some selected districts for performance analysis of these stocks and production of CB bulls. This programme need to be continued at other pockets of the State .

Interventions undertaken during the year

- Meeting for implementation of the programme was conducted involving all stakeholders.

5.4. Computerisation

Objective

- To maintain the information system smoothly.
- To develop & maintain the database for Data analysis and selection of High Genetic Merit Cows and calves
- To establish a two way communication for transfer of data and records.
- To process data for efficient reporting system.
- To facilitate result based management
- To ensure timely recommendation for improvements and course correction

Status :(up to 2013-14)

- Bovine breeding and various AH related activities are being taken up by the field functionaries. It has been essential to maintain the data base at various levels for reference and appraisal. For smooth maintenance of breeding data, report return and other related information, computerization of Field institutions is highly essential. As Moreover, organizations relating to breeding like FSB, Bull Mother Farms, Bull Calf Rearing Farms and others will also be provided with computers for smooth functioning of these organizations.

Interventions undertaken during the year

- District wise and institutional wise requirement was assessed.
- NIC & OCAC were contacted for finalisation of Technical specification and procurement guidelines.



6.0. Development and Conservation of Indigenous breeds

6.1 Conservation and improvement of Native breed

Objective

- To improve the production and reproduction performance through scientific intervention and increase the number of quality animals of the Indigenous Breed of Odisha
- To select elite mothers on the basis of lactation milk yield and to procure and exchange bull calves from the selected elite mothers after satisfying the Minimum Standard Protocol.

Status :(up to 2013-14)

Four cattle (Binjarpuri, Ghumusari, Khariar & Motu) and two buffalo (Chilika & Kalahandi) breeds of Odisha have been identified and registered as the indigenous native breeds of our Country. The populations in form of the above breeds possess some unique characteristics which have enormous social and economic importance.

These animals have been associated with the concerned farming community of our State since long for their livelihood and other purposes. Therefore, characterization (both physical & molecular) of these germplasms to establish their uniqueness, their conservation & further improvement is to be made which will prevent these populations from dilution.

This bio-diversity of animal population need to be conserved.

Interventions undertaken during the year

- Meeting was organised in the native tract of the breeds involving farmers and other stake holders namely OUAT, KVKs wherein it was resolved for constitution of breeder societies for the respective registered indigenous breeds.
- Farmer's awareness programme in native tract of each breed taken up.



Binjharpuri cow



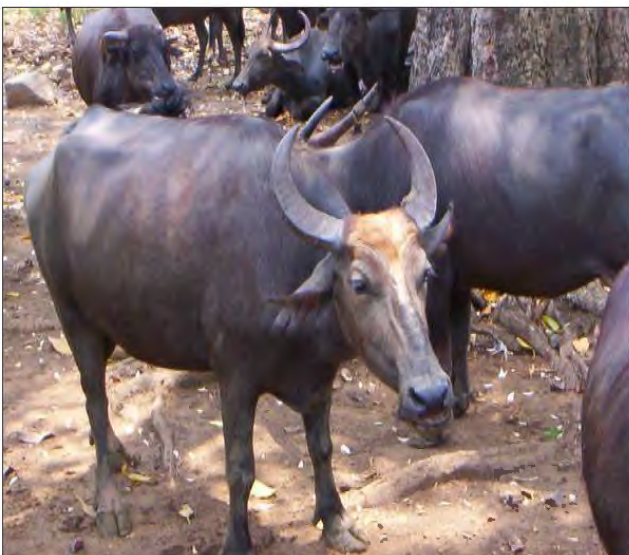
Ghumsari cow



Khariar Cattle



Motu cattle



Chilika Buffalo



Kalahandi Buffalo

7.0. Man power Development

7.1. Development of Training Module and accreditation of Training Centres

Objective

- To develop six training modules in order to distribute uniform training module for all participants.
- To assist SMILE in preparation of training module.

Status: (up to 2013-14)

Different need based training programmes are being organised departmental training institutes under assistance of State and Central plan schemes. To maintain the uniformity in the training at different training institutes, it is essential to develop model training modules. Till date no training modules have been developed for organising different training related to bovine breeding.

Interventions undertaken during the year

- SMILE has been entrusted for development of the Six training modules namely
 1. Conservation of Native breeds
 2. Field Performance Recording System
 3. Feed and Fodder Technology
 4. Assisted Reproductive Technology
 5. Infertility Management
 6. Basic refresher Training Program.

7.2. Establishment/Strengthening of Training Centres

Objective

- To strengthen the training centres in term of infrastructure and building.
- To create a conducive training environment.

Status: (up to 2013-14)

There are a number of Training Institutes in Odisha namely VOTI (Veterinary Officers' Training Institute Bhubaneswar) ,FSAI Training Center at FSB,Cuttack,3 number of LITCs(Bhanjanagar, Bolangir and Chipilima) involved in imparting training to AI workers. For smooth management of training programme these institutes need to be strengthened.

Interventions undertaken during the year

- Three LITCs namely Bhanjanagar, Chipilima and Bolangir have been identified for strengthening of accommodation facility for participants as per their requirement.

7.3. Establishment of Regional Training Centre (RTC)

Objective

- To establish one regional training centre in the State.
- To select a suitable site for establishment of training centre.

Status:(up to 2013-14)

The State has three Livestock Training Centers (LITC) in three different regions located at Sambalpur, Bolangir & Bhanjanagar (Ganjam). The induction training for the paravets and other programmes relating to training are being conducted in these centers time to time. However, it has been observed that sometimes it is becoming difficult to accommodate desired number of trainees by these centers. Moreover, these institutes are situated far away from districts like Mayurbhanj, Sundergarh, Keonjhar, Balasore & Bhadrak.

So it is essential to establish two Regional Training Centres (RTC) at strategic locations of the State.

Interventions undertaken during the year

- As GoI sanctioned only one (RTC) against the requirement of two, so selection of region for establishment of regional training centre through expert team.
- Site for establishment of one training centre at Remuna, Balasore has been selected.

7.4. Trainers training Program

Objective

- To train 100 Veterinarians from different locations of the State to disseminate the knowledge at their respective areas on different breeding activities.
- To develop TOT curriculum for different components of NPBB
- To organize 5 batches of TOT at VOTI

Status :(up to 2013-14)

A number of Training Programmes for farmers, livestock keepers, grass root level workers are being organized at district and block level under various micro projects being implemented under the assistance of several agencies in a district. For effective training programmes, it is essential to develop Trainers by conducting TOT for various ongoing departmental activities.

Interventions undertaken during the year

- A Meeting with the all the stake holders was organised to finalise the modalities namely identification of training institutes, training calendar, detailed guidelines, participant list, training module, training curriculum along with financial break up. It was finalised to conduct the above training in collaboration with VOTI.
- It has been decided to impart TOT to 100 veterinarians of the State.

7.5. Training of Professionals (outside State)

Objective

- To develop a profile of Veterinarians having expertise or experience in management of bull mother farm, FSB, Officers from intensive pocket and young officers (as a process to develop 2nd line)
- To identify various reputed organizations for exposure visit
- To co-ordinate with training institutes about possible dates, no of participants to visit, no of

batches to be covered, topics to be dealt and financial involvement

Status :(up to 2013-14)

A number of new scientific interventions are being taken up in field of Bovine breeding. To keep pace with these advancements, Veterinarians of the State need to be updated. A number of reputed organizations namely KLDB, NDDB, IVRI, NBAGR etc. are involved in imparting training related to modern scientific technologies in the field of Bovine Breeding. These institutes need to be liasoned for training slots.

Interventions undertaken during the year

- Reputed training organizations like KLDB (Kerala), NDRI (Karnal) and NDDB (Anand) etc. were contacted for training slots.
- All CDVOs were requested to furnish the participants list to undergo training.



7.6. Organisation of Seminar and Workshop

Objective

- To orient the departmental staff and other stake holders regarding different recent developments under NPBB

Status :(up to 2013-14)

A number of new schemes are being implemented in the state for Dairy Development. For successful implementation of these programmes, it is highly essential to orient the departmental staff along with the stake holders through organization of different Seminars and Workshops.

Interventions undertaken during the year

- Meeting involving different stake holders was taken up.

8.0 Procurement of Bulls for Natural Service and AI

8.1. Procurement of AI bulls

Objective

- To produce quality semen straws for AI by procuring High Genetic Merit (HGM) bulls to make the State self sufficient in semen production.

Status :(up to 2013-14)

The bulls used as donors at FSB, Cuttack are being procured from the Breeding Farms of Gol and

also from the respective breeding tracts basing in the pedigree performance of the bull. During the year 2013–14, 14 numbers (CB-07 and RS-07) of bulls have been procured under NPCBB. Each year around 10-20% of the bulls need be replaced with new stock to meet the requirement of semen straws of the State.

Interventions undertaken during the year:

- Annual requirement of breeding bulls have been assessed by FSB, Cuttack.
- FSB has been requested to contact NDDDB and other SIA for procurement of Bull Calves for frozen semen production.



8.2. Procurement of Bulls for Natural Service and AI

Objective

- To provide the facility for natural service through high genetic Merit bulls in inaccessible pockets of the State for genetic improvement in Bovines.
- To cover more number of breedable females under organised breeding services.

Status:(up to 2013-14)

There are many inaccessible areas in the interior pockets of the State where departmental AI facility has not been made available due to geographical location. However, the breedable females of these inaccessible areas are to be covered under organised breeding. For the purpose, establishment of some Natural Service centres at these pockets are highly essential.

Interventions undertaken during the year:

- As per the proposal 100 natural service stations were to be established through Utkal Gomangal Samiti (UGS) to cover more number of bovines under organised breeding. However, no proposal for establishment of NS Station has been received from UGS.
- Presently, GoI has planned to cover hundred percent of breedable females under AI. But, considering the geographical conditions of Odisha and let loose system of rearing, NS stations are a requirement in some of the remote pockets of the State.
- Utkal Gomangal Samiti (UGS) has been requested to explore the possibility of establishment of Natural service station for bovines.
- Funds will be utilised accordingly as per the requirement.

8.3. Registration of bulls for natural Service and Support to Bull Hosts

Objective

- To identify and register bulls for natural service.
- To support the bull hosts for better health and breeding management of the bulls.
- To cover more number of bovines under organised breeding service

Status :(up to 2013-14)

For maintaining the breeding record of the bulls used for Natural Service (NS), it is essential to select bull host who will be instrumental for record keeping as well as care and management of bulls.

Interventions undertaken during the year:

- As per the proposal 100 bulls were to be identified and registered through Utkal Gomangal Samiti (UGS) to cover more number of bovines under organised breeding. However, no proposal for establishment of NS Station has been received from UGS.
- Utkal Gomangal Samiti (UGS) has been requested to explore the possibility of establishment of Natural service station for bovines.

Registration of bulls for natural Service and Support to Bull Hosts will be taken up after receipt of proposals from UGS Funds will be utilised accordingly as per the requirement

9.0. Control of Infertility among Bovines

Objective

- To enhance reproductive efficiency in cattle and buffalo.
- To deworm the breedable animals.
- To control repeat breeding in bovines.

Status :(up to 2013-14)

To enhance the reproductive efficiency of breedable bovines Infertility camps were being organised under NPCBB. To motivate the farmers for AI and to cover more number of cows under the umbrella of organised breeding, it is highly essential to continue organization of these camps.

Interventions undertaken during the year:

- Technical Committee meeting for finalisation of modalities for organisation of Infertility camps among Bovines has been organised.
- It has been decided to organise 628 Infertility camps in all the 314 blocks of the State @ 2 camps per each block. Further, medicine & hormone for the purpose will be procured through DAH&VS, Odisha.

10.0. Other Activities

10.1. Strengthening of Existing Frozen Semen Station

No funds has been released

A. Livestock Insurance Scheme

During year 2014-15, Livestock Insurance Scheme under Central Plan was being implemented in 9 districts (Cuttack, Jagatsinghpur, Puri, Bargarh, Kendrapada, Khurdha, Keonjhar, Sambalpur and Mayurbhanj) in collaboration with MS / United India Insurance Co.. A total number of 74184 animals were insured against the target of 70000. The premium of the insurance is subsidized to the tune of 50%. The entire cost of the subsidy is being borne by the Central Government.

B. RKVY Assisted Projects

I. Cattle Breed Improvement Project (CBIP) - 64

The "Cattle Breed Improvement Project" (CBIP) has been launched by the Fisheries and Animal Resources Development Department (F&ARD) in collaboration with JK Trust Gram Vikas Yojana through establishment of 64 Integrated Livestock Development (ILD) centers in 03 districts of our State namely Cuttack, Dhenkanal and Nayagarh.

Year wise funds envisaged for the programme is as follows.

<i>Rs. in lakh</i>					
2013-14	2014-15	2015-16	2016-17	2017-18	Total
240.08	147.6	159.06	168.44	181.21	896.39

N.B: Though the programme was approved by State Level Sanctioning Committee (SLSC) under RKVY during the year-2013-14 but actual implementation was taken up during the year 2014-15 after completion of pre project work.

During the year-2014-15, pre project survey, training of AI technicians (GOPAL) and infrastructure development work was taken up by JK Trust for establishment of 64 Integrated Livestock Development (ILD) centres. Under this programme each of the ILD Centre will be managed by a trained Artificial Insemination (AI) Worker called "Gopal" who will primarily provide AI services along with other veterinary support services like castration, first aid, vaccinations, deworming etc. at the door steps of the farmers. Besides, farmers will be made aware of various State Govt. sponsored Animal Welfare Schemes under implementation in the State through extension programme. The project envisages production of progenies of high genetic merit along with enhancement of milk production of the State thereby assuring Dairy based livelihood support to the Livestock owners of the State.

II. Performance based Incentives for Private AI Workers (Gomitra)

Gomitras are unemployed educated rural youths who are engaged primarily for artificial insemination (AI) in addition to first aid treatment of cattle through the State Implementing Agency (SIA), Orissa Livestock Resources Development Society (OLRDS). These 'Go-mitra' are also called as Private AI Workers and are currently working in the non represented areas of A.H. Department and other agencies like OMFED. Performance linked incentive of Rs. 500/- for each progeny born will be paid to Gomitra those who will be able to confirm over and above 3 calves in a month. The Gomitras will receive Rs. 1000/- per month to act as extension agent for conducting

at least 10 village meetings. The support in form of incentive will be provided for three years.

It is expected that the total number of AI performed by the Gomitras will increase from 1.14 lakh at the present rate to 1.5 lakhs by 2015. Further the Gomitras will be motivated to perform 10% additional AI per month, which will result approximately 5000 more calves per annum.

Year wise funds envisaged for the programme is as follows.

Rs. in lakh

Particulars	2013-14	2014-15	2015-16	Total
For 1650 functional Gomitras	345.50	366.50	387.50	1099.5

Though the programme was approved by State Level Sanctioning Committee (SLSC) under RKVY during the year-2013-14 but actual implementation was taken up during the year 2014-15.

—————number of Gomitras were supported with incentives during the year-2014-15.

III. Establishment of Frozen Semen Training Institute

Livestock production has always been an integral part of the rural economy in Odisha. The Animal Husbandry Sector accounts for nearly 30% of the Gross State Domestic Product from Agriculture & allied activities. The effective delivery of required veterinary services with regard to the livestock breeding and health care basically depends upon the human capacity along with the capacity to manage inputs and their dynamics. Capacity endowment at institutional and personal front is always regarded as vital for accelerating the process of development. Besides, Skill formation, skill up gradation and skill perfection of human capital are essential to drive the efforts towards achieving organizational goal.

Artificial Insemination has found to be an effective measure for genetic up gradation of cattle and buffaloes thereby increasing their productive and reproductive performances. The department has around 3000 AI centers and 1600 private AI centers in addition to around 1400 centers operated by OMFED and 100 centers by BAIF. The departmental personnel working in AI centers are being imparted with short course training to upgrade their skill and knowledge in animal breeding at FSAI training institute located in the premises of FSB Cuttack.

To achieve the objective establishment of a separate Frozen Semen training institute was taken up under RKVY with a total project outlay of Rs.200.00 lakhs. During the year-2014-15, site selection, preparation of Detailed Project Report involving engineering personnel from Rural Development Department of Govt. of Odisha was taken up.

IV. Use of Imported Sexed Semen (Exotic) for Enhancing Milk Production

Artificial Insemination (AI) is a proven and accepted Technical Tool which has boosted up milk production in our Country. Although it has brought out white revolution in form milk production by taking up crossbreeding programme, the male calves born out of this technique are necessary evils and they have become economical, social and environmental burdens. The crux of the problem is so closely associated with the socio-cultural and religious sentiments of the society that it is not possible to adopt any radical method of elimination of these males. Hence, the only way out is to use Sexed Semen whereby 90-95% of progenies will be females and the male

progenies will be automatically eliminated. To achieve the objective of enhanced milk productivity use of sexed sorted semen was advocated under RKVY with a financial outlay of Rs.106.00 lakhs. During the year an expert committee was formed to work out the detail modalities under the programme and activities for procurement of inputs was initiated.

V. Genetic up-gradation of cattle and female calf rearing

Calf Rearing Project has been introduced under Rashtriya Krishi Vikash Yozana (RKVY) to cover crossbred female calves born out of frozen semen artificial insemination during the year-2012-13 with a project outlay of Rs. 8566.64 lakhs for a period of 4 years for covering a targeted calves The Scheme aims at creating asset in the form of crossbred female cows at the farmers' level and enabling them to practice proper care and management. Assistance in the form of balanced calf feed (4 to 28 months),



Insurance and Deworming & Vaccination are made available to the beneficiaries.

During the last 3 years, 26659 cross-bred female calves are covered under the Project against the target of 40000. The provision of balanced calf feed, deworming, insurance of the calves is widely appreciated by the farming community. It has motivated the farmers to produce Cross-bred calves through Artificial Insemination instead of natural indiscriminate breeding and in the long run it will not only enhance the livelihood support of the farmers but also help the state to make good the deficit of milk production.

C. State Sponsored schemes

I. Integrated Livestock Development Programme (ILD), Kalyani

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

The specific objectives are:

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

This project has following 4 main components

1. Cattle Development Programme: Door step livestock services are provided to the rural livestock keepers to breed the local cows by using superior dairy breeds like Jersey, Holstein

Friesian & its crosses. Subsequent follow-up and input support (mineral mixture, de-wormers, etc) services are provided to make the progenies born to adult productive animal. Similar services are being provided for upgrading the local buffaloes where ever needed by using Murrah breed of semen. Till date, 100 cattle development centres have been established in 10 districts.

Achievements of Kalyani Project -2014-15

Sl.No	Activity	Achievement
1	Artificial Insemination Done	64045
2	Progenies Born	20157
3	Infertility Treatment Camps Conducted	350
4	Heat Synchronization Camps conducted	140
5	Farmers' Training Conducted	150

2. Fodder Development Programme: The fodder seeds/ planting material are supplied to farmers in each Cattle Development Centre operational area for raising fodder plot in their own land. 9380 fodder demonstration plots have been raised covering 930.96 hectares of land in farmers' field with organization of 5494 azola pits and 1354 UTPS demonstration units have been made. 1219 chaff cutters and 9905 feeding troughs have been provided to farmers.

3. Comprehensive Goat Development Programme: The goat development programme have been under taken in districts of Mayurbhanj, Sundergarh, Kendujhar, Balangir and Deogarh. Under this programme 250 villages have been covered involving about 20000 farm families. Under this programme 1100 breeding bucks have been provided to the goat keepers for genetic up gradation of their stock. 656 goat farmers have been trained so far during this year. 230721 goats have been dewormed and 152532 goats were vaccinated against PPR and Goat Pox.

4. Technology-Knowledge and Strategic Partnership for Development of Chipilima Fodder Farm: Under the component the seed production farm, Chipilima has been strengthened. During this year, 40 MTs of breeders fodder seed have been produced which will be multiplied into certified seed in the farmers' field.



Cattle Development Centers (CDC)



Calf rally organised by BAIF



Training of Goat Scouts



UTPS(Urea treated Paddy Straw)

II. Strengthening of Dairy Organisation

1. Field Performance Recording System and CB Bull production Programme

To make the State self sufficient in CB bovine semen production, a Participatory Research Activity (PRA) i.e Field Performance Recording System and CB Bull production Programme-Phase-1 involving the farmers of 13 blocks of 4 districts (Cuttack, Puri, Baragarh and Jagatsinghpur) was initiated under State Plan Scheme in the year-2012-13. During the current year, one State level Workshop was organised involving all stake holders. Further, the activities namely survey and selection of elite cows, block level workshop and identification of cow and Artificial Insemination with HPT semen have been taken up in the operation areas.

To meet the future requirement of CB bulls, 2nd phase of the FPRS and CB programme have been approved to be taken up in 12 blocks of 09 districts. (Balasore, Boudh, Subarnapur, Khurdha, Sambalpur, Koraput, Klahandi and Keonjhar, Ganjam) Activities namely organization of State level Workshop, printing of IEC material, procurement of HPT semen and medicines has been taken up.

2. Conservation of threatened breeds

Odisha possess a number of native b four registered cattle breeds such as Binjharpuri, Motu, Khariar, Ghumsari and two registered buffalo breeds Kalahandi and Chilika. The breeds possess specific characters such as disease resistance, high heat tolerance and production under low input system. Due to fast changing climatic condition in our state, cross breeding resulting dilution of breeds and fodder scarcity resulting decrease in the population size of these breeds day by day. These breeds need to be conserved.

For Conservation and Improvement of above 6 Native Breeds funds were released under State plan .The year wise funds released under State plan is as follows.

Year	Funds Received in Lakhs
2010-11	20.00
2011-12	48.00
2012-13	24.00
2013-14	72.00
Total	164.00

Utilising the funds Conservation and improvement of 3 native breeds namely Binjharपुरi, Khariar (Cattle) and one registered buffalo breed i.e Chilika has been taken up. The programme involves a series of activities with specific timeline for each of them to be taken up accordingly. The following achievements have been made in this regards

- Two breeder's societies namely Binjharपुरi Cattle Producers and Promoters Society (BCPPS) and Chilika Buffalo Promoters Society (CBPS) have been formed in the native tract.
- 500 Elite mothers each from Binjharपुरi, and Chilika have been identified for performance recording.

With the implementation of NPBB during the year-2014-15, by GoI the funds allocated for Development and Conservation of Indigenous breeds of Cattle of Odisha will be taken up in convergence with the available funds under State plan.

E. Other Major activities

I. Artificial Insemination

The Department has taken steps to implement cross breeding programme in order to cover more breedable cattle and buffalo under organised breeding to create one lakh cross bred female calves at the farmer's house. The artificial insemination service is being rendered through a network of 2982 Departmental AI centres (Out of 2982 static AI centres, Mobile facility is available in 2721 centres), Gomitra-1424, BAIF-100, JK Trust-620 and OMFED-1331 at the door step of the farmers. During the year 2014-15 coverage of breedable population under organized breeding is expected to be around 32%. Special attention was given for quality frozen semen for insemination purpose. There is steady increase in Artificial Insemination since last few years. The AI in Cattle & Buffaloes has been achieved by 15.17 lakhs during 2014-15, which is 84 % of the proportionate target. During the year 2014-15 it has been estimated that 5.58 lakh progenies were born.



For genetic maintenance and further improvement of existing CB stock of the State, CB Bull production programme has been taken up in 13 districts of the State in two phases. Elite cows have been selected through Field Performance Recording and were inseminated with high pedigree semen procured from NDDDB. The male calves born out of Artificial Insemination will be procured as future donors at Sperm Station.

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

Presently, 17 Jersey, 17 crossbred, 13 Red Sindhi & 14 Haryana donating breeding bulls maintained at FSB, Cuttack.(in regular basis) Total frozen semen doses produced at FSB, Cuttack during the year 2014-15 is 9.02 lakh.

Liquid Nitrogen supplied by Frozen Semen Bank, Cuttack during the year- 2014-15 is 10.63 lakhs It against the procurement of 10.73 lakhs lt.

I. Users Charges

The modest service charges collected from the farmers towards artificial insemination is deposited at OLRDS to strengthen the economic viability of the Society.

Government vide Resolution No. 22556/FARD dt. 11.12.2001 was pleased to introduce collection of user charges for different services provided by animal husbandry sector. The collection and deposition of User charges for various breeding related activities in the accounts of OLRDS started since July '2002. The users charges is collected by the field functionaries as per the rate fixed by the Government. It is being revised from time to time.As per the guidelines funds collected by the district is to be spend in the ratio of 9: 1 i.e 90 % is earmarked as district share and 10 % as State share. Accordingly the state share is being deposited by the concerned CDVOs on monthly basis. The collected funds and the interest accrued is utilised for administrative expenses and various breeding and developmental activities under approval of the President, OLRDS. The UC deposited in the year 2014-15 and the expenditure thereof is given below.

Year	Collection	Expenditure
2014-15	Rs.1,16,01,199/-	

II. WEBSITE (www.olrds.com)

For dissemination of information related to recent technology, knowledge and to act as a potential medium to reach a large number of people, website of OLRDS (www.olrds.com) is a major platform. During the year 2014-15, various activities undertaken, advertisement, tenders/EOI notice, reports etc were being uploaded.

ANNEXURES

SANCTION ORDER

GUIDELINES

BUDGET

AUDITED...



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