

# DEPARTMENT OF ANIMAL HUSBANDRY

## ANNUAL PLAN - 2010 - 2011

### INTRODUCTION

Animal Husbandry is an integral part of the diversified agriculture system. The animal husbandry sector plays a crucial role in the rural economy by providing gainful employment particularly to small, marginal farmers and agriculture labourers. It provides gainful employment and source of income and livelihood among landless labour and additional source of income to families through employment of women. In the agrarian economy Jharkhand livestock plays an important role in contribution to income, employment and women empowerment.

At the end of 9<sup>th</sup> five year plan, the milk production was 7.74 LMT which increased up to 14.01 LMT at the end of 10<sup>th</sup> five year plan similarly egg and meat production at the end of 9<sup>th</sup> five year plan was 411 million and 386 lakh kg. and increased up to 711 million and 426.36 lakh kg respectively, after suitable interventions of different animal husbandry activity.

During the 10<sup>th</sup> plan period by intervention of different Animal Husbandry activity annual milk production increased from 9.51 lakh mt. ton to 14.01 lakh mt. ton, egg production from 661 million to 711 million and meat production from 394.63 lakh kg to 426.37 lakh kg.

According to the 17<sup>th</sup> livestock census, 2003, the livestock in the State is as under:-

Cattle	- 7658721
Buffaloes	- 1343494
Sheep	- 679929
Goat	- 5031016
Pig	- 1107930
Horses and Poney	- 4925
Dog	- 485345
Poultry	- 14429279

Breedable cattle population is 1.90 million and breedable buffalo is 0.39 million. There is improvement among cross breed population and it increased by 24.44% from 2003 to 2008.

In Jharkhand, milk productivity of cow is 1.59 kg. per cattle per day whereas the national average is 3 kg. per cattle per day. The per capita availability of milk in

Jharkhand is 152 gms. as against the national average 240 gms. Similarly in Jharkhand per capita availability of egg is 25 eggs per annum whereas the national average is 42 eggs per annum.

#### **Infrastructure Status**

▪ No. of class - I veterinary hospital	-	424
▪ No. of mobile veterinary hospital	-	04
▪ No. of provincial veterinary hospital	-	23
▪ No. of cattle breeding farms	-	03
▪ No. of State run Poultry Farms	-	02
▪ No. of State run Pig Farms	-	06
▪ No. of State run Goat Farms	-	01
▪ No. of Gokul Gram Vikas Centre	-	64
▪ No. of A.I. Centres managed by the Department	-	405
▪ No. of Dairy Cattle Development Centre managed by BAIF	-	410
▪ No. of Milk Chilling Centres/dairies	-	16
▪ No. of Biological production unit	-	01

The Animal Husbandry programmes have effective role in development of this area with special focus on self employment and economic growth through livestock rearing. During the end of the 11th five year plan the following strategy is proposed to be adopted.

#### **Availability and requirement of major livestock product in Jharkhand (2008-09)**

<b>Item</b>	<b>Production</b>	<b>Availability per capita</b>	<b>Requirement</b>	<b>Deficit</b>	<b>% deficit</b>
<b>Milk</b>	15.97 LT	152gm./day	23.36 LT	7.39 lakh Ton	(-) 31.6%
<b>Egg</b>	717 Million	25 eggs/annum	1143 Million	426 Million	(-) 37.27%
<b>Meat</b>	441.67 Lakh Kg.	7 Gm./day	657 lakh Ton	215.33 lakh Kg.	(-) 32.77%

### Targets and achievements of 11th five year plan

Production	2007-08		2008-09		2009-10		At the end of 11 <sup>th</sup> Plan
	Target	Ach.	Target	Ach.	Target	Anticipated	Target
Milk Lakh (Mt. ton)	14.88	14.42	15.21	14.66	15.59	17.25	16.43
Egg (in Million)	720	713	723	717	726	725	732
Wool (in Lakh kg.)	12.31	1.47	12.78	1.49	13.27	2.00	14.29
Meat (Lakh kg.)	-	441.42	-	441.67	-	446.00	500.00
Treatment	-	1108023	-	1059446	1200000	1120000	2000000
Vaccination	-	977947	-	1820415	2500000	1600000	3000000
Castration	-	91860	-	87417	90000	90000	100000
Artificial Insemination	156000	57877	156000	52503	156000	42000	170000
Animal Health Camp	-	1840	2200	2102	4400	4400	4400

#### Key Targets for Annual Plan (2010-11)

- Treatment of Animals - 1500000
- Vaccination - 2500000
- Castration - 90000
- Meat Production - 442 lakh Kg.
- Milk Production - 19.10 L. M.T.
- Egg Production - 729 Million
- Training of farmers - 1200
- Animal Health Camps - 4400
- Piglet production by the State Farm - 8000
- Chicks production by the State Farm - 200000
- Paravet Training - 100
- Artificial Insemination - 156000

#### Major initiatives taken during 11<sup>th</sup> Plan

- Renovation of 115 veterinary hospitals.
- Establishment of four mobile polyclinics at Ranchi, Dhanbad, Jamshedpur & Garhwa.
- Establishment of one referral vet hospital at Dumka.
- Establishment of 19 additional vet hospitals.
- Establishment of 405 Artificial Insemination Centres under breed improvement programme.
- Strengthening of pig breeding farms at Ranchi & Gauriakarma.
- Routine organisation of Animal health camps.
- BAIF Development Research Foundation has been nominated for the implementation of goat breed improvement programme through establishment of 20 goat development centres in six districts namely Ranchi, Gumla, Simdega, Chaibasa, Hazaribagh and Giridih.
- Establishment of Pashupalan Prashikshan Kendra at Ranchi and strengthening of Pashupalan Vidyalaya at Gauriakarma.
- Establishment of four disease diagnostic laboratory at regional level.
- Promotion of backyard poultry farming.

#### **Major Achievement 2009-10**

- Under animal Health coverage programme 8.30 Lakh animals have been treated, 4.96 lakh animals vaccinated and about 55 thousand unbreedable males have been castrated upto the month of October 2009.
- About 360 animal health camps have been organised in village/panchayat/block level under RKVY.
- Under poultry development till October 2009, 86520 chicks have been produced for backyard poultry under RKVY.
- Under piggery development 2100 piglets have been produced by the pig breeding farm and distributed among beneficiaries.
- Under control of communicable disease of animals 3358 doses of anti rabies (pre bite & post bite) vaccination have been done, 5240 birds have been randomly tested for pullorum disease and 300 bovine animals have been randomly tested for Brucellosis.
- Animal Health & Production Institute, Kanke, Ranchi carried out following activity:

##### **Vaccine Production -**

- 1.86 lakh doses of Anthrax
- 2.7 lakh doses of B.Q.

##### **Samples sent for testing to RDDDL, Kolkata**

- 1134 bird samples for Avian Influenza

- 03 Brain samples for testing Bovine Spongyform encephalopathy  
Feed analysis - 122 samples  
Post mortem examination - 500 livestock & poultry.

### **Objective of the 11th Five year Plan**

- To increase the livestock production such as milk, egg, meat and wool.
- To enhance the draught capacity of bullocks by intensive implementation of controlled breeding programme.
- To consolidate and strengthen the existing infrastructure facilities for livestock development in the State.
- To promote the animal husbandry as a viable subsidiary source of income of rural population by providing improved facilities of cross breeding.
- To promote proper management and animal health coverage.
- Creation of awareness amongst milk producer, animal and poultry keepers.
- Training of staff dealing with extension.
- Paravet training to rural unemployed educated youth.
- Control of fatal zoonotic diseases (those diseases which transmit from animal to man and vice-versa) of animals in order to make people's life safer.
- Strengthening/establishment of veterinary hospital, mobile polyclinic and Referral Veterinary Hospital.

### **Strategy**

- To increase the productivity of animals through breed improvement programmes like opening of additional 500 A.I. Centers, establishment of 20 goat development centers and strengthening of 6 pig breeding farms.
- Replacement of local pigs with 7000 piglets of T & D breed produced in Govt. farm annually.
- Promotion of backyard poultry farming through introduction of 2 lakh birds annually produced by the state run poultry farm.
- Strengthening of 200 vet hospitals in terms of infrastructure & building phase wise and up gradation of 23 district veterinary hospitals
- Establishment of 100 new vet hospitals.
- Organisation of 4400 Animal Health Camps annually.
- Establishment of additional farm, mobile polyclinics & one referral vet hospitals.
- Programme for control of zoonotic diseases (those diseases which transmit from animal to man and vice-versa) in animals through immunization of 10000 livestock against Rabies and routine screening of 10000 birds for pullorum and 5000 cattle for Brucellosis.
- Strengthening of state run six pig, two poultry & three cattle farms phase wise.

- Strengthening of animal health & production institute for production of different Bacterial vaccines viz H.S.- 16 lakh, B.Q.-11 lakh, Anthrax – 2 lakh & Viral vaccines viz Ranikhet – 20 lakh, Swine fever – 0.5 lakh annually.
- Training of 200 animal & poultry keepers every year as nodal keepers.
- Training of 100 paravets annually.
- Establishment of 19 additional disease diagnostic laboratory.
- Establishment of referral vet. hospital at Divisional level besides mobile clinic.

### Targets for 2010-11

Milk lakhs (in M. ton)	Egg (in million)	Wool (in lakh kg)	Meat (in lakh kg)
15.97	729	13.66	----

## **2. EARMARKED (RKVY)**

### **2.1 Animal Health Camp**

Under this scheme Pasu Chikitsa Sivirs will be organised at village/panchayat/block level by concerned veterinary officers for the treatment, vaccination, deworming and also to create general awareness of healthy animal husbandry practices among animal keepers.

### **2.2 Promotion of Poultry**

Under this scheme it is proposed for sectoral development of poultry by assisting private poultry farmers/breeders/ SHG in the establishment of poultry farms/hatcheries etc. Chicks produced by the Govt. poultry farms will also be utilized in this scheme for broiler/layer/backyard poultry farming.

### **2.3 Promotion of Goat Breeding**

This scheme is being implemented by BAIF Development Research Foundation, Pune through 20 goat development centres in six districts of Jharkhand namely Ranchi, Gumla, Simdega, W. Singhbhum, Hazaribagh and Giridih. Through this scheme 20000 goat keepers will be benefited in five years covering about one lakh goats. The administrative approval of this scheme for five years has already been given by the advisory council. The main objective of this scheme is to improve the production potential of local breed of goats through use of Black Bengal breeding Buck to promote better health care and management practices like feeding, deworming, castration, vaccination etc.

### **2.4 Promotion of Improved Pig Breeding Unit**

Under this scheme a unit of 4 female and 2 male pigs of T & D breed will be distributed among SC / ST and other general cast beneficiaries for promotion of pig rearing in the states. Assistance will be given to the beneficiary in terms of

Housing, feed for 6 months, medicine and vaccines etc. About 1200 farmers will be benefited with this scheme. It is proposed for strengthening of pig breeding farms at Ranchi and Gauriakarma. The administrative approval of this scheme for the year 2009-10 to 2011-12 has already been given by the SLSC (State level sanction committee) as well as the advisory council under RKVY as 100% state assistance.

### **3. STATE SHARE TO CSS**

#### **3.1 Swine fever control under ASCAD Scheme [ 75 : 25 ]**

Under this scheme the immunization of livestock against disease like Swine Fever, Haemorrhagic Septicemia, Black Quarter, Foot and Mouth disease, Pestis des petit in Ruminants (PPR) and Anthrax will be done. There is proposal for modernization of Biological production unit at State level as well as strengthening of regional level disease diagnostic laboratories and creation of cold chain maintenance will be done. Human resources activities like awareness of livestock holders to have their animals vaccinated and development of system for monitoring and forecasting of animal diseases will also be done. The fund for this scheme will be shared by the Central and State on 75:25 basis.

#### **3.2 Integrated sample survey for estimation of milk, egg, meat and wool production in the State (50:50)**

The broad objective of this scheme is to collect and analyze the data for estimation of livestock products species wise. Under this scheme a continuous survey is carried out by the surveyor in the selected villages of all the districts round the year to collect the data. These data are later on analyzed to estimate the productivity of state animal wealth. As per the Government of India this scheme is designed as salary based where 50% salary shared by the Central Government and rest is to be born by the State. Only establishment expenditure and some infrastructural support is being proposed.

#### **3.3 State Veterinary Council (50:50)**

The State has established State Veterinary Council in the year 2006-07 under the Indian Veterinary Council Act, 1984 with an objective to regulate veterinary practice, maintenance of state veterinary practitioners register and for matter connected with, for monitoring the standard professional conduct, etiquette and code of ethics for veterinary professionals and upgrading the professional knowledge/skill of registered veterinary practitioner. Only establishment expenditure and some infrastructural support is being proposed.

#### **3.4 National Rinderpest Eradication Programme (100%)**

This is 100% Central Scheme under which the Government of India is working since long to eradicate the 'Rinderpest' a highly fatal disease of Cattle & Buffalo. The OIE (Office of International des Epizootics) has already declared India as a Rinderpest free infection Country. However the Routine Surveillance Programme is being conducted in all villages of the state as well as main routes of transportation as per the direction of the Government of India.

### **3.5 ASCAD Training (100%)**

This is also 100% Central Scheme under which training of vets and para vets are being organised in order to uplift their knowledge with regard to treatment and diagnosis of different animal diseases.

### **3.6 Integrated Sample Survey Training (100%)**

This is also 100% Central scheme under which training of Statistical officers & staff are being conducted under integrated sample survey of milk, meat, egg and wool scheme.

### **3.7 Livestock Census Programme**

This is 100% Central scheme in which state has to conduct livestock census in every 5<sup>th</sup> year. The 18<sup>th</sup> livestock census was conducted during the year 2007-08. However the compilation work is going on and for that purpose as per the direction of the Government of India the training, tabulation and printing of booklets and other miscellaneous work have to be done during the annual plan year 2010-11.

## **4. STATE PLAN SCHEMES**

### **Continuing Schemes**

#### **4.1 Direction and Administration**

This scheme is meant to meet the establishment expenditure for the offices of seven districts and one Regional office established under State plan. In addition to that infrastructure developments of other district and Regional offices are also being proposed so that proper implementation of different Animal Husbandry activity as well as its follow up and monitoring can be done properly. Apart from this infrastructure development of two new District Animal Husbandry Offices viz. Ramgarh & Khunti is also being proposed.

#### **4.2 Animal Health Programme**

##### **4.2.1 Modernisation of Hospitals & Dispensaries**

Under this scheme infrastructural support of hospitals in terms of building, medicines instruments, furniture etc are being proposed.

##### **4.2.2 Establishment of class - I dispensaries**

This scheme is meant to meet the establishment expenditure of nineteen veterinary dispensaries established under State Plan and also to provide infrastructural support in terms of building, medicine, instruments, furnitures etc. are being proposed.

#### **4.2.3 Mobile Polyclinic & Referral Veterinary Hospital**

Under this scheme an expenditure on infrastructural support and the running cost of four mobile polyclinic established under the state plan located at Ranchi, Jamshedpur, Dhanbad and Garwah and one referral hospital located at Dumka is being proposed. Establishment of one referral hospital at Dhanbad is also being proposed.

#### **4.2.4 Control of Animal Diseases**

The main objective of this scheme is to control diseases such as Rabies and Pullorum which are fatal zoonotic disease. Under pullorum control programme birds are tested randomly in organized and unorganized poultry farms to detect pullorum and if they are found positive, farmers are advised for its control and containment. Contrary to this in Rabies control programme bovine and canine species of animals are vaccinated pre bite as well as post bite exposure to secure the life of animal and animal handlers. Since 2009-10 one more communicable disease i.e. Brucellosis has also been included in this programme. Under this scheme, it is being proposed to meet the establishment expenditure as well as infrastructural support.

### **4.3 Breed Improvement Programme**

#### **4.3.1 Frozen Semen Bank**

The main objective of this scheme is to gradual genetic improvement of local non descript milch cattle and at the same time preserving the germplasm of the indigenous descript cattle. For this purpose the department has 405 A.I. Centres. The uninterrupted supply of liquid nitrogen and frozen semen is the lifeline of this programme. Under this scheme it is proposed for supply of liquid nitrogen, frozen semen straw and other articles required for running the programme.

#### **4.3.2 Jharkhand State Implementing Agency**

This agency has been formed under the guidelines of the Central Govt. to implement the national project for cattle & Buffalo Development.

#### **4.3.3 Cattle Breeding Farm**

Rural cattle population in Jharkhand consist mostly of non descript type of low producing and poor draft animal. They have been cross bred with exotic bulls indiscriminately for increasing their productivity. But due to indiscriminate cross breeding, a level of exotic inheritance in the crossbreed usually happens and this

leads to calf born with several reproductive disorders. Simultaneously cross bred males are poor in draft power. Therefore, to get rid of both the above mentioned problem, it is essential to maintain some nucleus cattle breeding farms with pure indigenous breed of cattle. These farms will produce progeny tested bulls which will be distributed among group of farmers, for grading up their cattle. This needs strengthening of Government farm located at Gauriakarma, Saraikela and Hotwar (Ranchi). For that purpose it is proposed for feed and medicine component of existing livestock of these farms along with some infrastructural support.

#### **4.3.4 Poultry Development**

Poultry keeping is an important allied activity providing supplementary income, employment opportunity and a source of animal protein. In spite of favourable climate condition for poultry rearing and good demand, most of the state requirement is being met from neighbouring state. Keeping this in mind the state contemplates to enhance the production of poultry and its product by providing large no. of chicks to the poultry farmers in subsidised rates. The state run two poultry farms situated at Ranchi and Bokaro are being developed as breeding unit of parent stock where one lakh chicks will be produced during 2010-11 by each farmer.

#### **4.3.5 Sheep and Goat Development**

Under this scheme improved breed of goats (male) produced in the state run Govt. farm will be distributed among selected beneficiary for breeding purpose. To keep and maintain the breeding record as well as to maintain the goat for breeding purpose some incentive will be given to these selected farmers. These farmers will be known as Pashu Mitra who will be the link man between farmers and the Block Animal Husbandry Officer. This scheme will run in those districts which are not covered by BAIF. It is proposed along with the strengthening of the sole Govt. goat farm, Chatra.

#### **4.3.6 Piggery Development**

To meet the establishment expenditure as well as to maintain the livestock of those two pig breeding farms which are not covered under the above mentioned state assisted RKVY scheme.

#### **4.3.7 Establishment of Statistical Cell**

One statistical cell at Regional Director's Office, Medninar (Palamu) has been established under the State plan to monitor the progress of all the schemes and compilation and analysis of reports.

#### **4.3.8 Establishment of Go Seva Ayog**

Go Seva Ayog has been established for the preservation and welfare of the cattle, for supervision and control of institutions and to provide for the matter connected therewith within the State. Establishment expenditure and other infrastructural support is proposed for the Ayog under the State plan.

#### **4.3.9 Extension & Training Programme**

Under this scheme training of 1200 farmers for better management practices of different animal husbandry activity will be given by the Pashupalan Prasikshan Kendra, Ranchi and Pashu Chikitsa Vidyalaya located at Gouriakarma, Hazaribag. For that purpose a sum of Rs. 44.20 lakh is being proposed for training, fooding, lodging and other activity required thereupon.

#### **4.3.10 Strengthening of Animal Health & Production Institute, Kanke**

In order to protect the state animal wealth they need to be vaccinated against different diseases. This requires a large number of different animal vaccines to be produced by this sole biological production unit of the state. Therefore it is being purposed to strengthen this institute in terms of machine & equipments along with running cost of vaccine production.

### **New Schemes**

#### **4.4 Establishment of Veterinary University**

The State Govt. has agreed to establish one Veterinary University in principle.

#### **4.5 Paravet Training**

This is a new scheme under which one hundred selected village farmers who have passed intermediate or 10 + 2 examination, will be given a professional training of first aid veterinary treatment, techniques of artificial insemination etc.

#### **4.6 Establishment of District Disease Diagnostic Laboratory**

It is proposed for the establishment of District Disease Diagnostic Lab to facilitate the prescribed diagnosis and proper treatment of state livestock. This scheme will be funded by NABARD under RIDF.

#### **4.7 Up gradation of district hospitals**

It is proposed for the up gradation of 23 district hospitals and for that the scheme will be funded by the NABARD under RIDF.

#### **4.8 Consultancy Services**

Under this scheme evaluation of the works done under different schemes through an independent institution is being proposed. On the other hand consultancy service may be needed in preparing the DPR of some other schemes.

### **5. TRIBAL SUB PLAN**

A sum of **Rs. 1774.09** lakhs has been earmarked for Tribal Sub Plan out of total proposed outlay of **Rs. 4000.00** lakhs during Annual Plan 2010-11.

**6. SPECIAL COMPONENT SUB PLAN**

A sum of **Rs. 300.00** lakhs has been earmarked for Special Component Sub Plan out of proposed outlay of **Rs. 4000.00** lakhs during Annual Plan 2010-11.

**7. FLOW TO DISTRICT PLAN**

A sum of **Rs. 2655.05** lakhs has been earmarked for District Plan out of proposed outlay of **Rs. 4000.00** lakhs during Annual Plan 2010-11.

**8. OUTLAY PROPOSED FOR VARIOUS SCHEMES (Animal Husbandry)**

Sl. No.	Type of Scheme	Annual Plan 2010-11 (Rs. In Lakh)			
		Proposed Outlay	Flow to TSP	Flow to SCSP	Flow to OSP
<b>A.</b>	<b>Earmarked (RKVY)</b>				
1	Animal Health Camp	220.00	72.00	130.00	18.00
2	Promotion of Poultry	161.00	0.00	80.00	81.00
3	Promotion of Goat Breeding unit	189.00	0.00	0.00	189.00
4	Promotion of improved pig breed unit & Strengthening of pig breeding farm	338.48	181.14	90.00	67.34
<b>B.</b>	<b>State Share to CSS</b>				
1	Swine fever control under ASCAD Scheme (75:25)	70.00	0.00	0.00	70.00
2	Integrated Sample survey of milk, egg, meat and wool production (50:50)	20.00	0.00	0.00	20.00
3	Establishment of Veterinary Council (50:50)	15.00	0.00	0.00	15.00
<b>C.</b>	<b>State Plan Schemes</b>				
	<b>Continuing Scheme</b>				
1	Direction and Administration	476.96	265.15	0.00	211.81
2	<b>Animal Health Programme</b>				
	<b>Modernization of Hospital &amp; Dispensaries</b>				
3	<i>Establishment of Class-I dispensaries</i>	592.00	237.50	0.00	354.50
4	<i>Mobile polyclinic &amp; Referral</i>				
5	Control of animal diseases and livestock diseases	43.15	0.00	0.00	43.15

<b>Breed improvement Programme</b>					
6	Frozen Semen Bank	75.00	0.00	0.00	75.00
7	Jharkhand State Implementation Agency	0.10	0.00	0.00	0.10
8	Cattle breeding farm	122.50	94.00	0.00	28.50
9	Poultry Development	140.00	0.00	0.00	140.00
10	Sheep and Goat Development	90.00	20.00	0.00	70.00
11	Piggery Development	154.70	154.70	0.00	0.00
12	Establishment of Statistical Cells	0.91	0.00	0.00	0.91
13	Establishment of GO SEVA AYOG	1025.00	600.00	0.00	425.00
14	Extension & Training Programme	82.20	61.60	0.00	20.60
15	Strengthening of Animal Health and Production Institute, Kanke	88.00	88.00	0.00	0.00
<b>New Scheme</b>					
16	Establishment of Veterinary University	1.00	0.00	0.00	1.00
17	Paravet Training	40.00	0.00	0.00	40.00
18	Upgradation of District Disease Diagnostic Lab	20.00	0.00	0.00	20.00
19	Strengthening of District Hospital	10.00	0.00	0.00	10.00
20	Consultancy Services	25.00	0.00	0.00	25.00
<b>Grand Total</b>		<b>4000.00</b>	<b>1774.09</b>	<b>300.00</b>	<b>1925.91</b>

#### SUMMARY (Animal Husbandry)

Sl. No.	Type of Scheme	Annual Plan 2010-11 (Rs. In Lakh)			
		Proposed Outlay	Flow to TSP	Flow to SCSP	Flow to OSP
A.	Earmarked	908.48	253.14	300.00	355.34
B.	State Share (CSS/CS)	105.00	0.00	0.00	105.00
C.	State Plan Schemes				
	i. Continuing Schemes	2890.52	1520.95	0.00	1369.57
	ii. New Schemes	96.00	0.00	0.00	96.00
D.	EAP ( if any)	-	-	-	-
E.	Other	-	-	-	-
<b>Grand Total</b>		<b>4000.00</b>	<b>1774.09</b>	<b>300.00</b>	<b>1925.91</b>