

**GOVERNMENT OF ARUNACHAL PRADESH DEPARTMENT OF ANIMAL
HUSBANDRY & VETERINARY NIRJULI**

NOTIFICATION

Itanagar, Dated the 22nd Dec, 2008.

Subject: Livestock and Poultry Breeding Policies of Arunachal Pradesh, 2008.

No. AHV/P-1065/2002 (Vol-I):: Whereas, the State Cabinet has approved the Livestock and Poultry Breeding Policies of Arunachal Pradesh prepared by the Expert Committee constituted by the govt. of Arunachal Pradesh vide Order No.AHV/P-1065/2002 dated Itanagar, the 14th June, 2005 on 14th July, 2008,

Now, therefore, the Governor of Arunachal Pradesh is pleased to notify the said Livestock and Poultry Breeding Policies of Arunachal Pradesh, 2008, for information of all concerned.

(TAJOM TALOH)
Commissioner (Animal Husbandry & Veterinary),
Govt. of Arunachal Pradesh,
Itanagar.

**LIVESTOCK AND POULTRY BREEDING POLICIES OF ARUNACHAL
PRADESH, 2008**

1. BREEDING POLICY FOR CATTLE:

A. Policy for Milk production:	
Foundation stock of cattle	Indigenous cattle of Arunachal Pradesh
Exotic breed to be used for improvement of local cattle	Jersey, Holstein Friesian
Indian Breed to be used	Tharparkar
Area of coverage	Different agro climatic zones of the state depending upon the suitability as identified under the programme.
Level of Exotic inheritance & Breeding Plan	<ul style="list-style-type: none"> i. The cattle breeding policy for enhancement of milk yield purposes crossing of Jersey/HF sire with indigenous females to produce half-bred and subsequent inter-se-mating of half-bred with concomitant selection. ii. Grading up of the indigenous cattle through use of Indian breed of cattle. Viz. Tharparkar breeds. iii. By using good quality selected indigenous bulls for selective breeding amongst the indigenous cattle in higher altitude to conserve these animals in situ and improve productivity.
Pre-requisites for breeding policy involving Jersey/Holstein Friesian laid down	Arrangements will be made for field data recording system, milk recording system, Artificial Insemination and natural service, pregnancy diagnosis and identification, Open nucleus breeding system (ONBS).
B. Policy for draught animals	There are three policy options suggested for Improvement of draught animal power (DAP) for the state according to the suitability of a particular zone area. These are: (a) Policy for using A.P indigenous and Jersey/HF half-Bred/graded male, (b) policy for using Indigenous bullocks and (c) Up gradation of A.P indigenous cattle by Indian indigenous Breed.

2. BREEDING POLICY FOR BUFFALO:

- (i) **Straight breeding of indigenous/Swamp buffalo with selection** to fulfill three basic requirements of meeting a major part of the draught animal requirement for agricultural activities, augmenting production of quality milk in buffalo dominated areas and conservation of germplasm.
- (ii) **Pure breeding of Murrah buffalo under intensive system of management in farm condition.**
- (iii) **Cross breeding of Swamp and Murrah buffalo on experimental basis in station condition.**

3. BREEDING POLICY FOR MITHUN:

Breeding strategies suggested adopting a straight/Pure breeding of Mithun for conservation and increase in population growth rate, improvement in milk and meat production and improvement of draught power. However, some experimentation on hybridization with cattle can be made under controlled condition in designated farms.

4. BREEDING POLICY FOR YAK:

Present breeding policy for yak (*Poephagus grunniens*) has been suggested and formulated for fulfilling the following objectives:

- (a) Conservation and increased population growth
- (b) Improvement in milk and meat productivity
- (c) Improvement of draught power/pack efficiency
- (d) Improvement of hair/wool production

- **Selective and Straight/Pure breeding of Yak will be carried out through Open Nucleus Breeding System (ONBS) by the state department in collaboration with the NRC (national Research Center) on Yak, Dirang that can be developed as a major source of breeding animals.**

Hybridization of yak using bill cattle females can be tried in controlled station conditions of Yak farms only in the state before its final recommendation for field application.

Strategic action plans for execution of breeding policies for Mithun and Yak are being prepared for breeding and reproduction, Management, Nutrition and habitat, Disease & health cover, Draught power of Mithun and Yak, Production technology, Marketing, Transfer of technology, Infrastructure development etc.

5. BREEDING POLICY FOR PIG:

Breeding policy and strategies for improvement of Pig in the state as recommended are as follows:

- For commercial farming of improved exotic purebred/crossbred pigs of proven potential, elite populations of breeds like Hampshire, Large white Yorkshire and Large Black may be maintained for providing quality germ-plasm.
- Cross breeding of indigenous pigs may be carried out using Hampshire Boars. The level of inheritance may be fixed at 50% for both exotic and indigenous pigs with inter-se-mating of the half-bred. In elite herds of organized farms under intensive production system, the inheritance level of exotic breed can be raised to 75%

6. BREEDING POLICY FOR GOATS:

Selective straight/Pure breeding of Arunachal Pradesh indigenous goats and cross breeding of A.P indigenous with **Beetal breed** is recommended for augmenting meat production.

7. BREEDING POLICY FOR SHEEP:

- a. Breeding policy recommends selective breeding of Indigenous sheep (Bonpala) and cross breeding of indigenous sheep in station condition with Merino rams for improving body weight, weight gain and wool characteristics.
- b. Inheritance level of exotic breed may be restricted to 50-75%
- c. Pure lines of Merino and Indigenous sheep may be developed with selection.

8. BREEDING POLICY FOR PONY:

- i) Pure breeding of local ponies in the areas ponies in the areas where they are largely used as pack animals in the state looking into their smaller body size.
- ii) However, a Pony-Donkey crossbreeding pilot project may be carried out with reciprocal mating in farm condition to evaluate pack qualities of different grades of crossbreds/hybrids before making any recommendation as a policy in future.

9. BREEDING POLICY FOR POULTRY:

- i) For egg production under backyard rearing system, beside the strains like Giriraja, Vanaraja, Kroiler, Krishna J. CARI Shyma which have colorful plumage, good egg production and are of small size may be adopted.
- ii) Hatcheries and grower units may be established in the district HQs/Govt. farms for breeding and rearing of parent stocks.

- iii) In order to have large-scale commercial egg production, the breeds and strains, which are already tested in the state viz. WLH, RIR, BV-300, BV-800 etc, may be continued for breeding and rearing.
- iv) For broiler production, introduction of already available hybrid broiler birds namely Hybrocross, Vancobb, Vdencobb-100, Vencobb-400, may be continued as broiler parent stock.
- v) The state may also introduce Turkey and popularize its use for meat purpose.

10. BREEDING POLICY FOR DUCKS:

- i) The local ducks may be bred following selective breeding for meat as well as egg production.
- ii) Selection of sire and dams may be made on the basis of production performance and body weight gain.
- iii) For gaining quick improvement in egg production of indigenous ducks, a cross breeding programme be carried out in farm conditions using **Khaki Campbell males**.

11. Some general recommendations for proper implementation of the Livestock breeding policies and work plan preparation have been made in the main document.

The Governor, Arunachal Pradesh is further pleased to constitute a Technical Committee with the following members to prepare the work plan and to monitor implementation of the breeding policies as formulated.

1.	Dr. Dharmeswar Das, Dean cum Joint Director, I.V.R.I, Iatnagar (Former Dean, College of Veterinary Science, Khanapara, Guwahati)	Chairman
2.	Director, Animal Husbandry & Veterinary, Govt. of Arunachal Pradesh	Member
3.	The Animal Breeder, Directorate of AH & Veterinary, Govt. of Arunachal Pradesh, Nirjuli	Member Secretary
4.	Two/Three Senior Officers of the Department of AH & Veterinary, Govt. of A.P as nominated by the Director, AVH	Members

Sd/- T.TALOH
Commissioner (AH & Vety)
Govt. of Arunachal Pradesh
Itanagar