

**CENTRAL INSTITUTE FOR RESEARCH ON GOATS, MAKHDOOM,  
P.O.FARAH – 281122, MATHURA (UP) INDIA**

**Brain Storming Session on Field Data Recording and Information Management Systems for  
Conservation and Improvement of Goats. Aug 30, 2010**

**Concept Note.**

Animal evaluation in farm and field conditions have been going on over decades in the country. However, due to inherent social, cultural practices and different farming systems, the performance and pedigree recording are not practiced at farmers level. This prohibits various types of evaluations, be it for genetic or for production performance purposes. Various long term projects i.e AICRP and Networks, having major objective of bringing upon improvement in production over generations, envisage to record pedigree and performance in farm and field conditions. However, variable flock structures, farming systems, behaviour of breeds, production performance, lack of awareness among staff etc prompted different units under AICRP to record the performance as per their convenience. The Barbari, Black Bengal Surti are reared in small numbers as more than 80% farmers maintain 5 or less goats, on the other hand, Marwari, Ganjam, Sirohi goats are reared in large numbers wherein more than one buck are kept along with flocks. In such situations, recording pedigree in large flocks; which move with two or more bucks and cross through out the year, is really tedious and difficult and in small flocks time consuming and costly. The milk production and lactation length in Jamunapari, Beetal, Jakharana and few other Indian goat breeds are higher than that of Black Bengal, Ganjam therefore, same recording system for lactational performance can't be followed for various breeds.

For bringing upon improvement in any goat breed, pedigree and performance records are the essential and fundamental requirements. These parameters are required not only for genetic evaluation of breeding animals but also for monitoring of production trends over generations and spaces. The FAO's Global Plan of Action for Animal Genetic Resources gives high emphasis on pedigree and performance recording on animal genetic resources if they are to be conserved and suitably improved for future human use and consumption.

The International Committee for Animal Recording (ICAR International), based at Rome, develops technical bulletins on performance recording, processing and management of data and their statistical treatment. These standards are finalised by more than 50 member countries based on their farming systems and they may not be as such applicable in Indian social and farming systems as the production systems and potential of European and American breeds are different than that of local breeds.

Goat breeds of Indian origin are to be covered under performance and pedigree recording programmes, which we must do without any delay and fail, then an information management system is to be developed to store data, retrieve and process for generation of information and statistically analyse it for animal evaluations, production and marketing trends. The INTERBULL, an international organization does similar job for more than 50 member countries. They predict the breeding values of bulls used across countries after processing the production data in most appropriate manner and using state of art statistical software i.e. ASREML, PEST-VCE, WOMBAT etc.

It is therefore, essential to develop a uniform recording code for diversified performance and production data suitable for Indian goat farming systems. Emphasis should be given to develop an information management system where data is stored at a central place which should be available to cooperating units for addition, processing and evaluation on day-to-day basis. Similarly, the compiled data will require statistical treatment using state of art statistical technologies for animal evaluation and monitoring of trends therefore, a central authority will be required for maintenance of such information system. Therefore, following objectives are proposed for discussion on forthcoming brainstorming session.

1. To chalk out uniform code for pedigree and performance recording under diversified goat husbandry practices being followed in the country
2. To incorporate information required as mentioned in Global Plan of Action for Animal Genetic Resources.
3. To document indigenous knowledge on Genetic Improvement and Conservation.
4. To create an information system for management of information on Goat Genetic resources, farming systems and performance.
5. To decide modalities for statistical treatment of such data/Information.

### **Proposed programme**

**Introduction of delegates and their welcome. Approx. Time 5 min. 9.30 AM**

**Technical Session – I Approx. Time 3.25 hrs. 9.35 - 1 PM**

Chairman

Reporter

Theme | Approches on Field data recording:

- (a) Introduction of the theme
- (b) Present data recording and presentation system in AICRP on Goat Improvement Programme
- (c) Technical standards for Goat data recording as approved by International committee for Animal Recording.
- (d) Working groups for preparation of following format
  - (i) Inventory (ii) Growth (iii) Milk (iv) Reproduction (v) Disease etc.

Lunch 1-2 PM

**Technical Session – II Approx. Time 2.25 hrs. 2 to 4 PM**

Theme| Information management systems and statistical treatment of animal Breeding Data.

Software Available

Statistical Packages with CIRG and ICAR

**Technical Session – III 4.10 PM**

Presentation and finalization of formats and presentation of Proceedings.

**List of Experts/Participants in Brain Storming Session to be held on Aug 30, 2010**

S.No.	Name of the Expert	Address	Email No.	Mob.No.
1.	Dr. Dr CS Prasad	ICAR HQ New Deli	<a href="mailto:mala_pras@yahoo.com">mala_pras@yahoo.com</a>	
2.	Dr. B. K. Joshi	Director, NBAGR, Karnal	<a href="mailto:directornbagr@yahoo.co.in">directornbagr@yahoo.co.in</a>	
3.	Dr. D. K.Sadana	Principal Scientist (AG&B), NBAGR, Karnal.	<a href="mailto:sadana.dk@gmail.com">sadana.dk@gmail.com</a>	
4.	Dr. R. K.Pundeer	-do-		
5.	Dr. P. K.Singh	-do-	<a href="mailto:pksinghmathura@gmail.com">pksinghmathura@gmail.com</a>	
6.	Dr. Chand Nimbkar	Director, NARI, Phaltan (MH)	<a href="mailto:chandanimbkar@gmail.com">chandanimbkar@gmail.com</a>	9960940805
7.	Dr. R. K.Nagda	I/c Sirohi Field Unit, Livestock Res. Sttation, Vallabhnagarm Udaipur (Raj.)	<a href="mailto:nagdark2006@yahoo.co.in">nagdark2006@yahoo.co.in</a>	9414734827
8.	Dr. S. K. Singh	Principal Scientist, GG&B Division, CIRG, Makhdoom	<a href="mailto:sks@cirg.res.in">sks@cirg.res.in</a>	
9.	Dr. B. Rai	Principal Scientist, P.C. Unit, CIRG, Makhdoom.	<a href="mailto:brai21464@gmail.com">brai21464@gmail.com</a>	
10.	Dr. P. K.Rout	Principal Scientist, GG&B Division, CIRG, Makhdoom.	<a href="mailto:pramod@cirg.res.in">pramod@cirg.res.in</a>	
11.	Dr. M. A Kirmani	Prof and Head (AGB) Shere-Kasmir University, Srinagar	<a href="mailto:kirmanima@yahoo.com">kirmanima@yahoo.com</a>	
12.	Dr. M.M. Appannavar	Prof and Head (AGB) Bidar Vet. College	<a href="mailto:ppmc.kvafsu@gmail.com">ppmc.kvafsu@gmail.com</a>	
13.	Dr. A.L Aroa	PC, Sheep Project CSWRI, Avikanagar	<a href="mailto:alarora_avk@yahoo.co.in">alarora_avk@yahoo.co.in</a>	
14.	Dr. P. K. Dogra	HPKV Palampur		

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S.No.	Name of the Expert	Date and mode of Arrival	Date of Departure	Room No Alloted
15.	Dr. Dr CS Prasad	By CAR		2
16.	Dr. B. K. Joshi	By CAR		4
17.	Dr. D. K.Sadana	By CAR		9
18.	Dr. R. K.Pundeer	By CAR		9
19.	Dr. P. K.Singh	By CAR		10
20.	Dr. Chand Nimbkar	Nizamuddin Link Express, 4.00 a.m. on Monday 30 August 2010		3
21.	Dr. R. K.Nagda			
22.	Dr. S. K. Singh			
23.	Dr. B. Rai			
24.	Dr. P. K.Rout			
25.	Dr. M. A Kirmani	29 <sup>th</sup> Evening by Air at New Delhi		7
26.	Dr. M. M. Appannavar	29/08/2010 by Kerla Express at Mathura		8
27.	Dr. A. L Aroa			
28.	Dr. P. K. Dogra			