



A HANDS-ON-TRAINING  
On  
**OESTRUS SYNCHRONIZATION  
AND ARTIFICIAL INSEMINATION  
IN SHEEP**  
(30.09.2016 to 06.10.2016)



Division of Animal Physiology and  
Biochemistry  
ICAR- Central Sheep and Wool Research Institute  
Avikanagar, Via- Jaipur, Rajasthan-304501

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**Hands-on-training on  
Oestrus Synchronization and  
Artificial Insemination in Sheep**  
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**Introduction**

Oestrus synchronization and Artificial Insemination (AI) are novel reproductive techniques having potential economic benefits to the sheep farmers. By adopting these techniques farmers can breed their ewes round-the-year in groups of their desired sizes. This allows them easy management of the newborn lambs and pregnant ewes. They can produce animals at selling age in batches. Moreover, farmers will get additional lambs per ewe which will give extra income to them.

**Division of Animal Physiology and  
Biochemistry**

The division is well equipped with advanced facilities on semen collection, processing, evaluation and artificial insemination in sheep. The division has developed a simple, low-cost and handy technique for oestrus synchronization in sheep at farmers' flock. The techniques were also standardized for application in other ruminant species like cattle, buffalo and goat. The vaginal sponges used for oestrous synchronization in these

species are being produced by our division and were widely tested at different parts of the country. The techniques were found quite effective. Therefore the participants could also be able to apply the techniques in these species in addition to sheep following this training. The division has well qualified and trained scientific and technical staffs who are regularly imparting training on oestrus synchronization and AI in sheep to the various stakeholders. Therefore, the training will be useful for field vets, KVK scientists and Assist. Professors of universities /colleges etc. engaged in sheep husbandry.

### Course contents

Ovine reproductive physiology, hands-on-practice on induction and synchronization of oestrus in sheep, preparation of vaginal sponges (demo), preparation of semen diluents, semen collection, subjective evaluation, semen dilution and short-term preservation, transport of semen and fixed time AI at farmers' flock, ultrasonography for pregnancy diagnosis in sheep, lectures on risk and control of disease transmission through AI, factors affecting success of AI and care of ram and ewes, import-export regulations of semen, recent techniques of semen evaluation

### Eligibility

Veterinarians working as Veterinary officers in the state animal husbandry departments, subject matter specialist (SMS) of KVK, Scientists in National Projects on sheep, Assistant Professors in colleges dealing with sheep husbandry.

### Financial assistance

The training is sponsored by Central Wool Development Board, Ministry of Textiles, Govt. of India. Facilities of boarding and lodging to the participants will be made available **free of cost** at Institutes P.G. hostel. No TA/DA will be given and travel expenses should be borne by their parent organization/department.

### Certificate

A certificate will be awarded to the participants at the end of the training.

### How to reach

ICAR-C.S.W.R.I., Avikanagar is located in Malpura Tehsil of Dist. Tonk, Rajasthan. It is about 90 Km away from Jaipur on Jaipur-Malpura state highway and connected by Rajasthan roadway buses which are frequently available from Sindhi camp bus stand which is

about 2 Km away from Jaipur Railway junction.

### Weather

The weather at Avikanagar during September-October is quite comfortable with 20-30 °C temperature and 70-90% relative humidity.

- Last date of application: **27<sup>th</sup> Sept., 2016**
- Communication to selected participants: **28<sup>th</sup> Sept., 2016**
- Commencement of training: **30<sup>th</sup> Sept., 2016**

