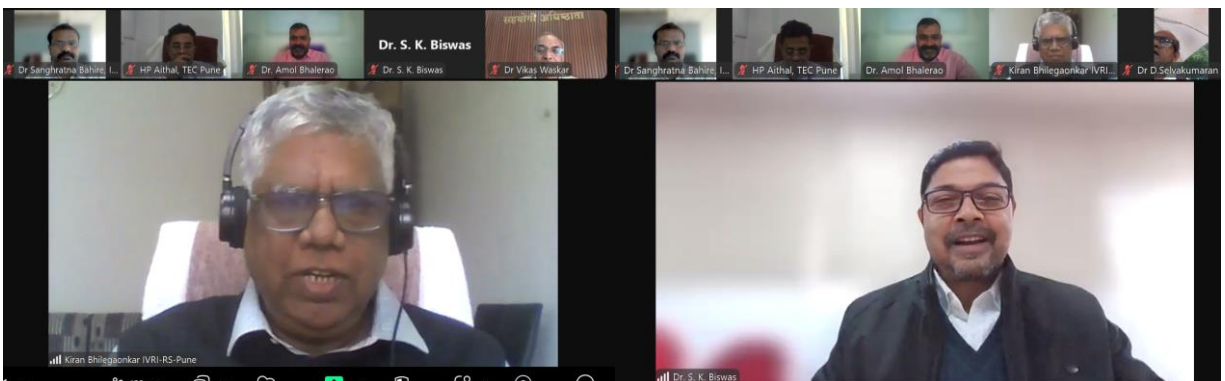


## TEC-IVRI, Pune Organized 3-day Online Training on Sample Collection Techniques for Animal Disease Diagnosis

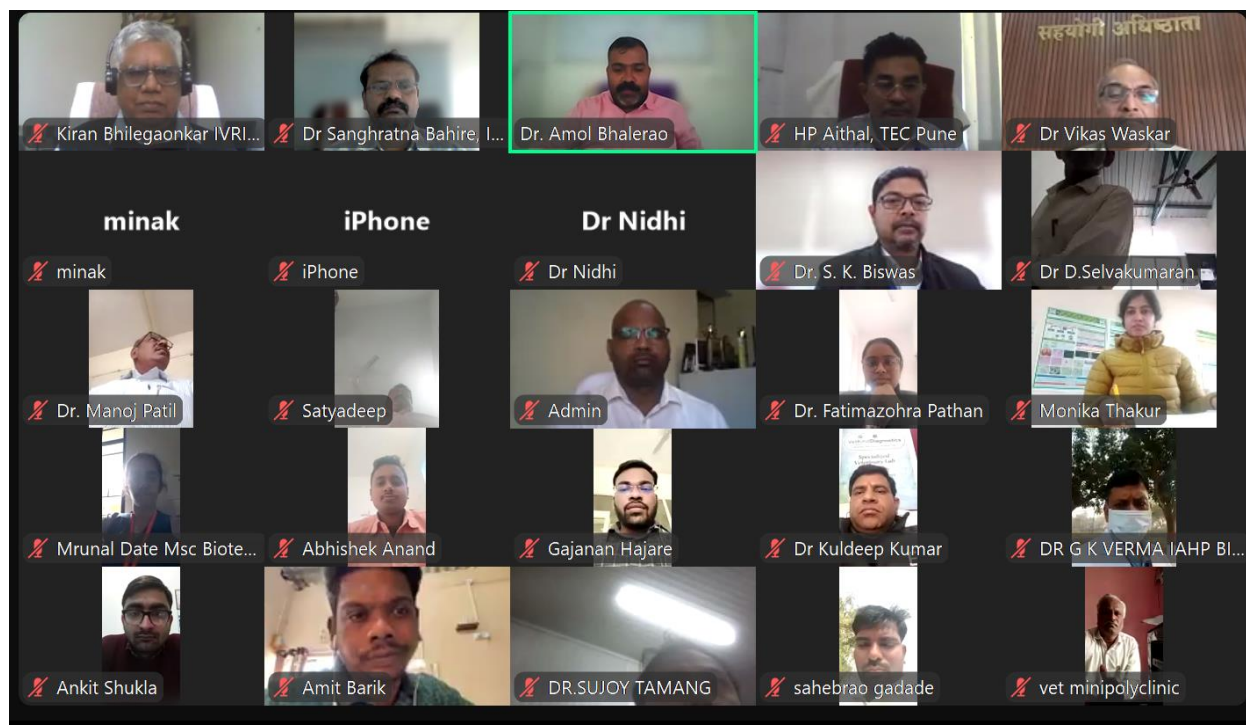
The Training and Education Centre (TEC), Pune of ICAR-Indian Veterinary Research Institute, in collaboration with Krantisinh Nana Patil College of Veterinary Science (KNPCVS), Shirwal, successfully organized a three-day online national training programme on “Sample Collection Techniques for Animal Disease Diagnosis” from 3rd to 5th February 2026. The programme was designed for veterinarians and para-veterinary professionals to enhance their field-level diagnostic competencies and promote scientific, standardized, and biosafe sample collection practices.




*The inaugural session was presided over by Chief Guest, Dr. Vikas S. Waskar, Associate Dean, KNPCVS, Shirwal*


A total of 366 participants registered from across India, reflecting strong national interest, of which 177 participated in the training, and 96 participants successfully qualified in the final evaluation to receive certificates. A pre-training evaluation was conducted to assess baseline knowledge, followed by a post-training assessment, which clearly indicated significant improvement in

understanding correct sample selection, documentation, preservation, cold-chain maintenance, biosafety, biosecurity, and safe transportation of samples from field to laboratory.








## Checklist for field sample collection



**Sample collection kit:**

- Scissors
- Knife
- Forceps
- Scalpel
- Syringe
- Swabs
- Collection tubes/containers/ vacutainers
- Zip lock Plastic bags
- Permanent water proof pen
- Documentation forms/Note pads
- Documentation device: Camera, cell phone etc
- Restraints: Rope, nose grip, pig restrainer etc
- Disinfectant
- Cool box/ice box/Cool gel pack
- Garbage bags etc.



Dr. S. K. Biswas

The programme began with ICAR-IVRI song, followed by a welcome address by Dr. S.K. Biswas, Principal Scientist, CADRAD, IVRI, Izatnagar. Dr. Sanghratna V. Bahire, Scientist (SS), TEC-IVRI, Pune, presented a brief overview of the training objectives and highlighted the importance of proper sampling in accurate disease diagnosis and surveillance. Dr. Kiran Bhilegaonkar, Station In-charge and Principal Scientist, TEC, IVRI Pune, elaborated on the mandate and capacity-building activities of TEC. The Chief Guest, Dr. Vikas S. Waskar, Associate Dean, KNPCVS, Shirwal, emphasized the crucial role of quality sample collection in strengthening diagnostic laboratories and controlling zoonotic and emerging diseases. The inaugural session concluded with

a vote of thanks by Dr. Vitthal Dhaygude, Professor, KNPCVS, Shirwal. Dr. Amol K. Bhalerao coordinated the inaugural session.

**Preservation and Fixation**

- **Fixative:** 10% Neutral Buffered Formalin (NBF) is the standard fixative.

1. 37-40 % Formaldehyde	- 100 ml
2. Distilled water	- 900 ml
3. Sodium phosphate monobasic	- 4.0 g
4. Sodium phosphate dibasic (anhydrous)	- 6.5 g

(Mix thoroughly and ensure a pH of approximately -7.0-7.4)  
**Ratio:** 20 times the volume of tissue

- **Time:** Fix for 24-48 hours.
- **Special fixatives** for special purpose

**FAECAL EXAMINATION FOR PROTOZOAN PARASITES**

Sr. No.	Technique	Outcome
1	Floatation	Oocyst
2	Sedimentation	Trophozoite, Cyst
3	Formalin ether sedimentation technique	Trophozoite, Cyst, Oocyst
4	Modified Mc Master technique	Oocyst per gram (OPG)
5	Modified Zeihl Neelsen's Staining	<i>Cryptosporidium</i> spp. oocyst

The three-day technical programme covered comprehensive and disease-specific sampling procedures delivered by eminent experts. Dr. Sanghratna V. Bahire delivered a lecture on the basic principles and introduction to sample collection for disease diagnosis. Dr. Mukesh Bhatt, Scientist, CADRAD, IVRI, Izatnagar, covered procedures for bacteriological sample collection, documentation, preservation, and transportation, while Dr. S.K. Biswas addressed virological and molecular diagnostic sampling techniques. Dr. G. Chigure from COVAS, Parbhani, explained parasitological sampling procedures, and Dr. Chanchal Debnath from West Bengal University of Animal and Fishery Sciences, Kolkata, discussed mycological investigations. Dr. Vitthal Dhaygude elaborated on tissue and biopsy sample collection for histopathological diagnosis, and Dr. S. Nagarajan from NISHAD, Bhopal, discussed sampling protocols for high-containment pathogens. Specialized sessions included CNS sample collection for rabies and other neurotropic infections by Dr. Shrikrishna M. Isloor, Professor, Veterinary College, Bengaluru. All sessions were highly interactive, with participants actively raising field-based questions and sharing practical challenges, which were effectively addressed by the experts.



The programme was coordinated by Dr. S.K. Biswas, Dr. Sanghratna V. Bahire, and Dr. Vitthal Dhaygude. The valedictory session concluded the programme with participant feedback and appreciation for the scientific depth and practical relevance of the training. Overall, the programme significantly enhanced the knowledge and awareness of veterinary professionals regarding standardized, quality-assured, and biosafe sample collection techniques, thereby contributing to improved animal disease diagnosis, surveillance, and animal health management in the country.

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