

# **ANNUAL ACTION PLAN AND TECHNICAL PROGRAMME FOR RDDL (ER), KOLKATA**

## **2017 - 2018**

Technical Programme for the year 2017 -18 may be finalized for smooth functioning and to inform Animal Husbandry, Dairying & Fisheries Department, Govt. of India ; proposed as follows :

1. To provide referral and consultancy services to the state diagnostic laboratories for economically important Livestock and poultry diseases.
2. Development of epidemiological Data Bank including epidemiological maps of economically important livestock diseases of the region.
3. Screening of Bulls, teaser animals and bovine semen against sexually transmitted diseases including estimation of microbial load in Frozen Semen Straw in the region.
4. qPCR based diagnosis with special reference to detection BoHV-1 in bovine semen sample.
5. Surveillance work of infectious causes of abortion in Livestock population in organized farm and in the rural areas.
6. Surveillance work on BSE based on Histopathological studies and ELISA based diagnosis of brain samples (as per target of Govt. of India) and detection of MBM from cattle feed.
7. Screening of brain samples from Bovine Sp. exhibiting neurological disorders for Listeriosis.
8. Immune status studies on Ranikhet Disease in vaccinated organized and backyard poultry population.
9. Application of molecular biological techniques for routine diagnosis of different livestock & poultry diseases (other than Avian Influenza) with special reference to Capri pox, PPR, Classical Swine Fever, Duck Viral Enteritis, Duck Viral Hepatitis, New Castle Disease, Brucellosis, Listeriosis, Anthrax, HS, CCPP, Tuberculosis. etc.

10. Routine application of PCR techniques for diagnosis of haemoprotozoan infection in cattles like Babesiosis, Anaplasmosis and Theileriosis etc.
11. Routine Sero-surveillance work and antigen detection in swab / tissue samples of Avian Influenza as per guideline of Govt. of India and framed surveillance strategies adopted by different states under jurisdiction of RDDDL (ER), Kolkata.
12. Diagnosis of Rabies infection in post-mortem material by immuno-chromatographic technique.
13. Proximate Analysis of animal and poultry feed.
14. To impart analytical facilities of pesticides, antibiotics and drug residues in livestock and poultry products by HPLC.
15. A) Study of nutritional status in infertility cases.  
B) Clinical Haematology and Bio-chemistry to aid disease diagnosis.
16. Soil testing of Anthrax spore in the endemic area.
17. Testing of export / import materials as per OIE protocol.
18. Maintenance of Repository of infective agents isolated from the Eastern Region.
19. Organizing training programme for veterinary & para-veterinary work force.
20. Detection of microbial agents responsible for clinical and sub-clinical mastitis and its antibiogram.
21. Monitoring of State Sponsored Scheme on disease investigation.
22. Monitoring of Centrally Sponsored Scheme of NPRE/AICRP on FMD.
23. Surveillance on Tuberculosis and Johne's disease by Tuberculin / Johnin Sensitivity Test.
24. DNA sequencing of repository of infective agents isolated from the different states under the jurisdiction of RDDDL, ER.