

**ICAR-National Institute of High Security Animal Diseases,
Anand Nagar, Bhopal-462022, Madhya Pradesh**

Training Report

A training program titled '**Hands-on Training on Diagnostic Techniques for Emerging Animal Diseases**' was organized at ICAR-National Institute of High Security Animal Diseases, Bhopal under the DBT-NER-Advance Animal Diseases Diagnosis and Management Consortium (ADMaC) programme during August 03-08, 2017, as a part of the capacity building initiative for North Eastern (NE) partners. The training was attended by 10 participants from five NE States of India, namely, Assam, Manipur, Mizoram Sikkim and Tripura. The participants comprised of veterinary officers from state disease investigation labs, research fellows and scientists. During the five days of training, the participants were exposed to the general biosafety concepts and practices required to work inside the containment facility and subsequently were given hands-on training for various molecular and serological techniques used in the diagnosis of emerging animal pathogens. The tests included HA and HI assays, ELISA, immunochromatographic strip test, conventional RT-PCR, real time RT-PCR, PCR array, NALF assay and LAMP assay for detection of avian influenza, porcine reproductive and respiratory syndrome and other important avian and swine diseases. Many of the tests developed in-house at NIHSAD were handled successfully by the participants. In addition, the training topics also included other important areas like quality sample collection and transport to diagnostic laboratories, troubleshooting for diagnostic tests, etc. All the trainees had participated enthusiastically in the programme, enhancing their knowledge and experience on conventional and new generation diagnostic techniques for emerging animal pathogens.

