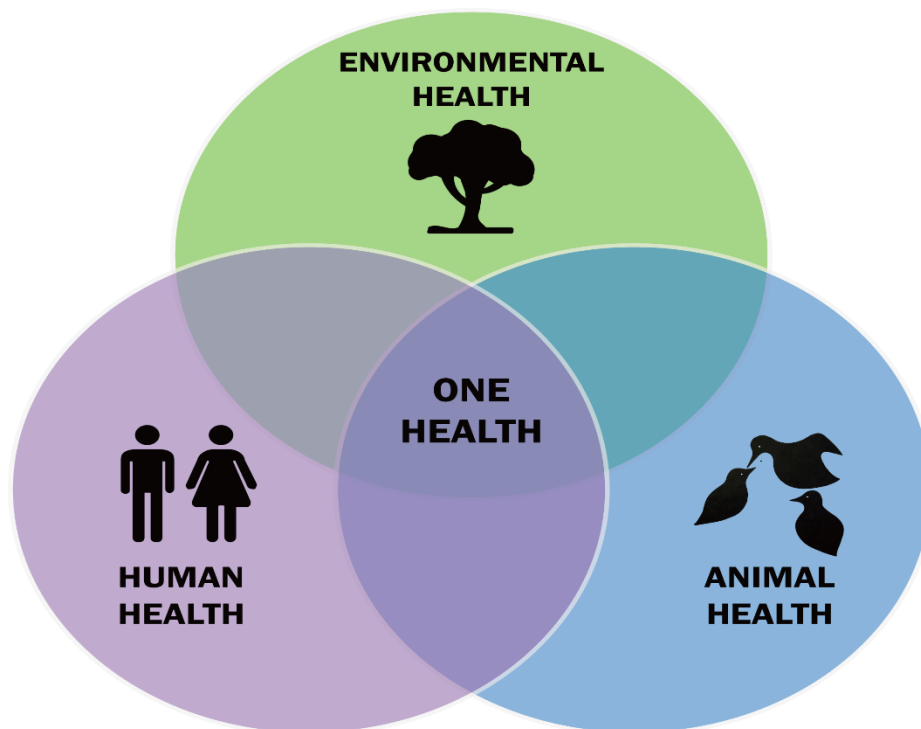




**PROCEEDING OF HANDS-ON TRAINING OF LABORATORY TECHNICIANS OF
NER STATE PARTNERS**

Organized under DBT's

**“Establishment of a Consortium for One Health to Address Zoonotic and
Transboundary Animal Diseases in India including Northeast Region”**



**Department of Microbiology, College of Veterinary Science,
AAU, Khanapara, Guwahati, Assam**

From 1st to 6th August, 2022

PROGRAMME OF ACTIVITIES

Training schedule for Laboratory Technicians under DBT-One Health Consortium Programme at ADMaC Lab, CVSc, AAU, Khanapara

Venue: DBT-ADMaC Laboratory, Departments of Microbiology, CVSc, AAU, Khanapara.

Date: 01/08/22 to 07/08/22.

Date	Morning Session (9:30 AM-1:00PM)	Resource Person	Afternoon Session (2:30 PM to 4:30 PM)	Resource Person	
01/08/22 Monday	<ul style="list-style-type: none"> Registration, Inauguration and high tea Brief review about the project: its aims and objectives. Collection of field samples, epidemiological data and dispatch Lab visit 	Dr. N.N. Barman Dr. Abhijit Deka Dr. Hiramoni Sarmah Mr. Mrinmoy Sarmah	LUNCH (1:00 PM TO 2:00 PM)	<ul style="list-style-type: none"> Preparation of field sample collection and outbreak investigation kit Importance of Post Mortem examination and practical demonstration and sample collection for bacterial, viral & parasitic study. Biosafety and lab waste management 	Dr. Biswajit Dutta Dr. Sarat Sonowal Dr. Hiramoni Sarmah Dr. Uttam Rajkhowa Mr. Mintu Kalita
02/08/22 Tuesday	<ul style="list-style-type: none"> Washing and sterilization of glass and plastic wares. Laboratory reagents and bacteriological media preparation. Sample collection, transportation and processing for bacteriological isolation. 	Dr. Arfan Ali. Ms. Ankita Choudhury Mr. Mridul Boro		<ul style="list-style-type: none"> Processing of samples for cultural examination, colony morphology study, staining and identification Antibiotic Sensitivity Test procedure and its importance. 	Dr. Arfan Ali. Dr. Pinki Sarma Ms Ankita Choudhury Mr. Mintu Kalita Mr. Hirok Horonia
03/08/22 Wednesday	<ul style="list-style-type: none"> Collection, transportation and processing of materials for viral disease investigation. Blood collection, serum separation 	Dr. Pankaj Deka Dr. Madhusmita Dehingia Mr. Manbendra Kalita		<ul style="list-style-type: none"> Serological tests for different viral diseases. Diagnosis of Brucellosis and Mastitis. Tuberculin test & ELISA 	Dr. Pankaj Deka Dr. Uttam Rajkhowa. Mr. Manbendra Kalita Ms. Chinmoyee Rajkumari
04/08/22 Thursday	<ul style="list-style-type: none"> Collection & transportation of material for parasitic disease investigation Blood smear examination for haemoparasites detection. 	Dr. Saidul Islam Mr. Manbendra Kalita Mr. Mrinmoy Sarmah		<ul style="list-style-type: none"> Collection and transportation of samples for helminthic and protozoal disease investigation. Faecal examination. 	Dr. Saidul Islam Mr. Manbendra Kalita Mr. Mrinmoy Sarmah
05/08/22 Friday	<ul style="list-style-type: none"> Task and Assignment (Self practice) 	Dr. Rupam Dutta Dr. Arfan Ali		<ul style="list-style-type: none"> Collection of blood from different farm animals and birds. Separation of serum from blood, tissue sample processing 	Dr. N.N. Barman. Dr. Pankaj Deka. Dr. Lukumoni Buragohain Dr. Uttam Rajkhowa
06/08/22 Saturday	Report preparation Website access.	Dr. Abhijit Deka Mr. Mintu Kalita. Mr. Mrinmoy Sarmah		Feedback, Interactive session, Valedictory function and certificate distribution.	Dr. Arfan Ali Dr. Durlav Bora Dr. Sophia M. Gogoi

A six days hands-on training of Laboratory technicians of NER state partners under DBT project entitled “**ESTABLISHMENT OF A CONSORTIUM FOR ONE HEALTH TO ADDRESS ZOOTIC AND TRANSBOUNDARY DISEASES IN INDIA INCLUDING THE NORTHEAST REGION**” was held at College of Veterinary Science, AAU, Khanapara, Guwahati, Assam from 1st to 6th August 2022.

The meeting started with a warm welcome to all the participants of the training programme by **Dr. N.N. Barman**, Principal Investigator cum NER Co-ordinator, One Health Consortium, AAU, Khanapara. Dr. Barman explained the importance of One Health programme and aim and objectives of the project.



Dr. Abhijit Deka, Asst. Prof. Department of Pathology, College of Veterinary Science, AAU, Khanapara, took a class on how to collect sample, epidemiological data and dispatch the samples for testing. Sample collection and transportation in sterile and good condition plays an important role in valid test result delivery. Dr. Abhijit also explained about the data collection and filling up of questionnaire while visiting for sample collection. The session was followed by ADMaC Laboratory visit by the participants.

In the afternoon session, Dr. Biswajit Dutta, Asst. Prof. Department of Pathology conducted practical class on “Preparation of field sample collection and outbreak investigation kit”. This was followed by practical demonstration and hands on training of Post Mortem examination and sample collection for bacterial, viral & parasitic study.



Next, Dr. Sarat Sonowal, Asst. Prof. Department of Public Health, College of Veterinary Science, AAU, Khanapara deliver a presentation on Biosafety and lab waste management and he stresses on the importance of waste disposals.



Day 2 of training programme was conducted by Dr. Arfan Ali, Asst. Prof, College of Veterinary Science, AAU, Khanapara took theory and practical classes on Washing and sterilization of glass and plastic wares, Laboratory reagents and



bacteriological media preparation, Sample collection, transportation and processing for bacteriological isolation. In the Afternoon session, Dr. Ali took practical class on processing of samples for cultural examination, colony morphology study, staining and identification, Antibiotic Sensitivity Test procedure and its importance.

Day 3 of training program was on serology, Dr. Pankaj Deka, Asst. Prof, College of Veterinary Science, AAU, Khanapara, took class on Collection, transportation and processing of materials for viral disease investigation.

Practical demonstration was given on Blood collection from Duck followed by serum separation and storage of the samples. Serological tests for different viral diseases such as RBPT test and iELISA for Brucellosis and demonstration of Tuberculin test on cattle were performed.



Day 4 of the training programme was on parasitology, Dr. Saidul Islam, Prof. & Head Department of Parasitology, College of Veterinary Science, AAU, Khanapara took a theory class on importance of parasitological studies and different parasitic diseases along with Collection & transportation of material for parasitic disease investigation. Afternoon session was followed by Laboratory visit to Department of Parasitology. Practical sessions includes Blood smear examination for haemoparasites detection, Collection and transportation of samples for helminthic and protozoal disease investigation, Faecal examination.

Day 5 of the training programme includes completion of individual task and assignment. Blood collection from swine and post mortem of a canine was demonstrated. Under the supervision of Dr. Rupam Dutta, Asst. Prof. Department of Animal Biotechnology, College of Veterinary Science, AAU, Khanapara and Dr.



Arfan Ali, Asst. Prof. Department of Microbiology, College of Veterinary Science, AAU, Khanapara, Individual tasks were given to all the participants to collect blood from birds and to separate serum from it for serological testing.

In the Afternoon Session Dr. Lukumoni Buragohain, Asst. Prof. Department of Animal Biotechnology, College of Veterinary Science, AAU, Khanapara, took a theory and practical class on Tissue sample processing, storage and transportation for disease diagnosis.

Day 6 of the training programme was on report preparation and website access, which was conducted by Dr. Abhijit Deka, Asst. Prof. Department of Pathology, College of



Veterinary Science, AAU, Khanapara. This was followed by taking of feed-back from the participants and valedictory programme.

The Valedictory programme was started at 11.30 am on 6th August 2022, at ADMaC building, College of Veterinary Science, AAU, Khanapara. **Dr. K. Ahmed**, Prof. & Head Department of ARGO, College of Veterinary Science, AAU, Khanapara was invited and has graced the presidential chair for the meeting. **Dr. S. K. Das**, retired Prof & Head of Department of Microbiology, College of Veterinary Science, AAU, Khanapara was invited and was present as the guest of honour for the meeting. Welcome address of the meeting was given by **Dr. N.N. Barman**, Principal Investigator cum NER Co-ordinator, One Health Consortium, AAU, Khanapara. This was

followed by experienced sharing of the participants and Resource persons of the training programme.

Participants express their gratitude towards the organizers and trainers for



organizing such training, which they found useful and beneficial for them. The resource persons found the participants sincere and punctual with enthusiasm to learn new things.

Finally the certificates were handed over by respected Dr. K. Ahmed, Dr. S. K. Das, Dr. Saidul Islam and Dr. N. N. Barman, to each one of the participants for successful completion of the training programme.

Finally, the meeting was concluded with a vote of thanks from **Dr Arfan Ali**, CO-PI of



NER OHC, Asst. Prof., Department of Microbiology, CVSc, AAU, Khanapara.

