# DBT FUNDED NER PROJECT ON
ADVANCED ANIMAL DISEASE DIAGNOSIS AND SERVICE MANAGEMENT CENTERS

- Establishment of state-of- the art disease diagnostic facilities
- Development of diagnostics and vaccines
- Creation of online animal health database & animal disease map
- Supporting international animal /animal products trade
- Improving the competency & technical skill of manpower in animal disease diagnosis
- Strengthen national isolates' repository
- Surveillance for new & eTADs for emergency preparedness & response
- Identification of disease free zones using GIS technology
- Animal-human continuum in zoonotic diseases diagnosis
- Disease ecology in respect of climate change

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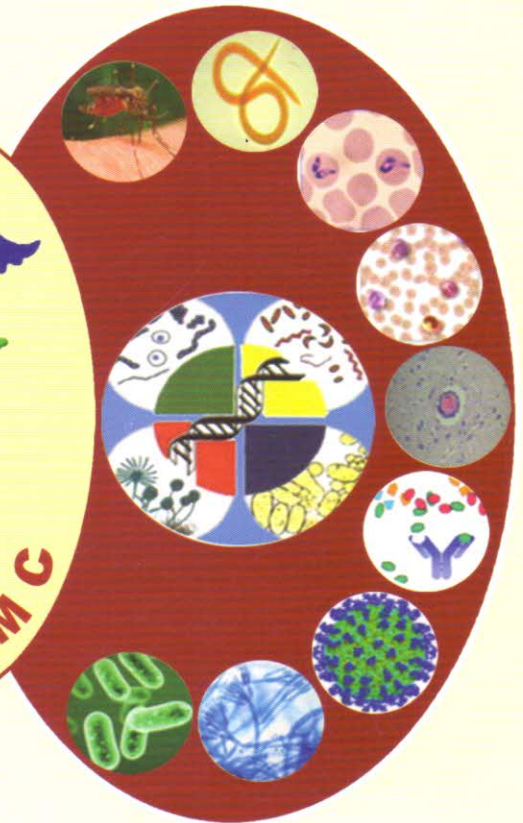
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INTRODUCTION

Rapid globalization opens free trade resulting in continuous movement of human and animals across the world. The North Eastern Region of India, owing to its unique geographical location sharing five international borders and frequent international movements of men/material/animals, including vector population bears a constant threat of incursions of exotic, transboundary diseases to India's main land through this North East corridor. Hence, to effectively deal with such threats, it is paramount important to strengthen regional infrastructure and capabilities in the direction of developing latest diagnostics and organizing rigorous surveillance for the highly contagious and ravaging diseases so as to have complete vigil on the disease situation of emerging and exotic infections and to build a formidable defense to guard the territories. Surveillance and monitoring can depict disease dynamics of livestock and envisage their role in food safety and security, nutritional security, animal welfare, human well-being and national/global economy. Realising the above facts the present project has been framed as an important step towards this direction with following objectives :

1 Research on transboundary and endemic animal diseases of NER, so as to develop core competence on rapid diagnosis and control of such diseases. This would be done by way of establishment of three core laboratories across the NE region.

2 Training of the State Veterinary personnel on the importance and periodicity of disease reporting, use of advanced / molecular diagnostic kits to detect diseases and sampling techniques.

3 Development of human resources in the form of PG level students to man this sector technologically using frontier technologies. Capacity building of the core faculty in advanced laboratories of the world.

4 Development of a public – public partnership module encompassing three public partners for effectively handling the animal – man – environment continuum chain.

Activity Milestone:

Sl No	Project Activity	Year1	Year2	Year3	Year4	Year5
1	Building Design	■				
2	Building Construction	■	■			
3	Procurement of Equipment	■	■			
4	Recruitment of Permanent Staff	■	■	■		
5	Recruitment of Project Staff	■	■	■		
6	Research Activity	■	■	■	■	■
7	Diagnostic Production at AAU, Kharapara , validation	■	■	■	■	■
8	Training of lab personals, Diagnostic Products available at DIO labs		■	■	■	■

The DBT Center in NE on Advanced Animal Disease Diagnosis and Services management is a tripartite concept involving three core NE laboratories, three National Labs and eight Directorates of Animal Husbandry and Veterinary in NER. In respect of zoonotic diseases collaboration will be sought from Medical Research Institutes of NER particularly ICMR, Dibrugarh/NEIGRIHMS/Nazareth hospital, Shillong.

This project will operate in initially for five years at a total outlay of as 3564.99 lakhs. All network partners in holistic approach will coordinate in animal diseases monitoring (endemic, ubiquitous, transboundary animal and public health diseases), development of sensitive disease diagnostic protocols and user friendly diagnostic kits, data base management and training to the regional and state level scientists and technical manpower, supplying diagnostic reagents.
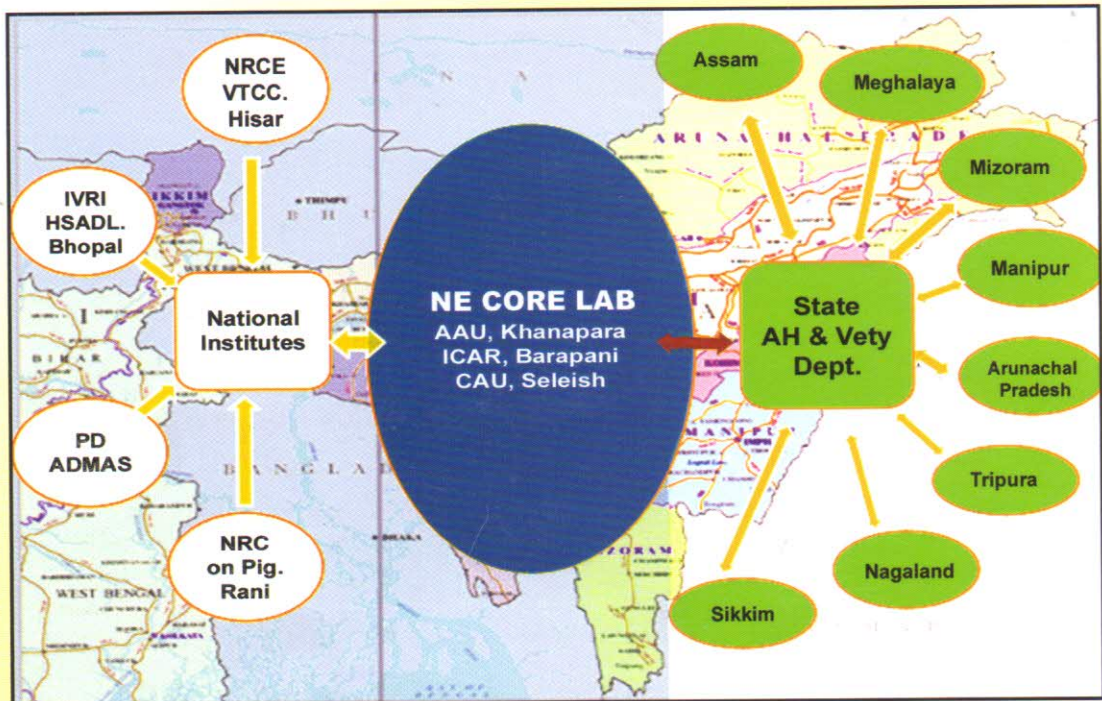
Creation of such facility would address the issue of health services in context of the animal- human-environment continuum. A real-time incorporation of disease prevalence data from all the nodal centers would thus help in critical assessment and monitoring of disease incidence rates and also in development of control and preventive strategies in a prospective manner. This would help in scientifically countering disease incursion from large transboundary areas in vast stretches of the North East to Indian soil. Successful implementation of the project can lead over all development of animal health management package in the NER through early warning systems and reliable diagnostic assistance for effective control of endemic as well as eTAD diseases. The livestock diseases so controlled would help in augmenting overall economic productivity of the states in the NER and country as a whole.

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