

TECHNICAL REPORT ON NEH ACTIVITIES

उत्तरपूर्वी पहाड़ी कार्यकलाप की तकनीकी प्रतिवेदन



2021-22



ICAR-DIRECTORATE OF FOOT AND MOUTH DISEASE

ARUGUL, BHUBANESWAR, ODISHA-752050

भा.कृ.अनु.प.- खुरपका मुँहपका रोग निदेशालय

अरुगुल, भुवनेश्वर, ओडिशा- 752050





Technical report of NEH activities

2021-22



ICAR-Directorate of Foot and Mouth Disease
Arugul, Jatni, Bhubaneswar
Odisha-752050

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Foreword



ICAR-DFMD has a wide spread presence in the NEH states with a network of one FMD regional centre and six collaborating centres. The same network has been utilized to increase the awareness and capacity building in support of FMD control in the country and other animal health related activities. Institute in collaboration with the network centres conducted a total of 47 programmes which includes FMD awareness camps, training of NEH FMD network centres & veterinarians from animal husbandry department on sample collection, diagnosis & probang sampling, awareness on FMD control in pig/ yak/ mithun/ goat population, capacity building of NEH women farmers for FMD & animal health management, training of rural youth for intensive animal husbandry, organization of animal health camps & FMD vaccination programme and intensive FMD surveillance at international borders involving a total of 3314 beneficiaries during the period under report.

This report is a useful compilation of all such activities conducted in NEH region during the year 2021-22. I hope this will be of interest to the farmers, students, academicians and planners and other stakeholders in the NEH region in particular and country in general.

R. P. Singh

Director, ICAR-DFMD

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1. Executive summary

NEH programme of ICAR-Directorate of Foot and Mouth Disease was implemented with the aim to support surveillance activities & epidemiology of FMD in terms of FMD awareness as per the institute mandate as well as to support NADCP on FMD activities. For the year 2021-22, the participating centres were NRC on Mithun, NRC on Yak (ICAR institutes), Regional research Centre at C.V.Sc., A.A.U., Khanapara (SAU) as well as State FMD collaborative centres at Imphal, Aizwal, Kohima, Itanagar, Agartala under Animal Husbandry Departments of respective Governments. The collaborating centres conducted various activities such as FMD awareness camp, animal health camps, vaccination and training programmes for farmers as well as for the professionals, FMD surveillance at international border areas etc. with the support of ICAR-DFMD as a part of it.

The FMD regional centre Guwahati, Assam being a major partner organized a total 21 activities including 7 awareness programmes/activities on FMD, 6 animal health camps, 2 FMD prevention and control programmes, 5 training on FMDCP to the youths and women of various region of the state. A regional level workshop on “Diagnosis, Prevention and Control of FMD” was organized at Guwahati for the veterinarians during the period. Imphal FMD collaborating centre of Manipur had organized 5 individual programmes throughout period which consisted of 3 numbers of awareness programme and an animal health camp. One day state level seminar on FMDCP was organised among the veterinary practitioners of the state. The Aizawl FMD collaborating centre of Mizoram conducted 7 programmes on FMD at various parts of the state including 2 workshop/training programme, 2 animal health camps and 3 awareness programme against the disease. At Tripura, Agartala FMD collaborating centre organized 3 awareness camps, 2 training programme among the rural tribal women and one day sample collection and a FMD prevention & control programme against goat/pig, as a whole a total 6 activities were conducted during the period. For the state of Arunachal Pradesh, Itanagar FMD collaborating centre located at Nirjuli organized a one day training programme on sample collection of FMD among the state veterinary practitioners. Also ICAR-NRC on Yak located at western part of the state conducted 2 FMD awareness camps and a vaccination programme among the yak rearing farmers. On the other hand, ICAR-NRC on Mithun located at Jharnapani, Nagaland organised 4 awareness cum animal health & FMD vaccination camp on Mithun and spread awareness against the disease among the Mithun farmers of the state.

As a whole a total 47 programmes were organised by the 7 NEH centres during the year 2021-22 in terms FMD awareness activity at north-eastern hill region to spread awareness about the disease among the people of the target region.

2. Introduction

The North-Eastern (NE) states of India also known as Seven sister & one brother states or Northeast are paradise unexplored and familiar for its natural beauty, diversity, ecology, culture and unique wildlife. North Eastern Region (NER) comprises eight states namely Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura which constitutes 8% of the country's geographical area. Flanked by hills and with the mighty river Brahmaputra slashing a central path between its north and south, the North East is bounded by the states of Manipur, Meghalaya,

Mizoram, Nagaland, Tripura with Assam comprising the heart with Arunachal Pradesh lies to its north, Bangladesh and Myanmar lie to its southwest and east. The torrential Brahmaputra deposits its rich alluvial silt along the banks of the plains of Assam. Tropical rain forest, rich in flora and fauna, spread their arms across Arunachal Pradesh into Assam. It is a land where tea is an industry, handicrafts a major occupation and martial arts a favoured sport. North-East India has a population of over 45 million, which is 3.76 % of whole India's population. The overall density of population is 159 persons/km². The most densely populated parts of this region are the plains of Brahmaputra and Barak in Assam, the Imphal plain of Manipur and the western part of Tripura. Total livestock population in eight states is 243 Lakhs (20th Livestock census) which is 4.54 %, share of Indian livestock population.

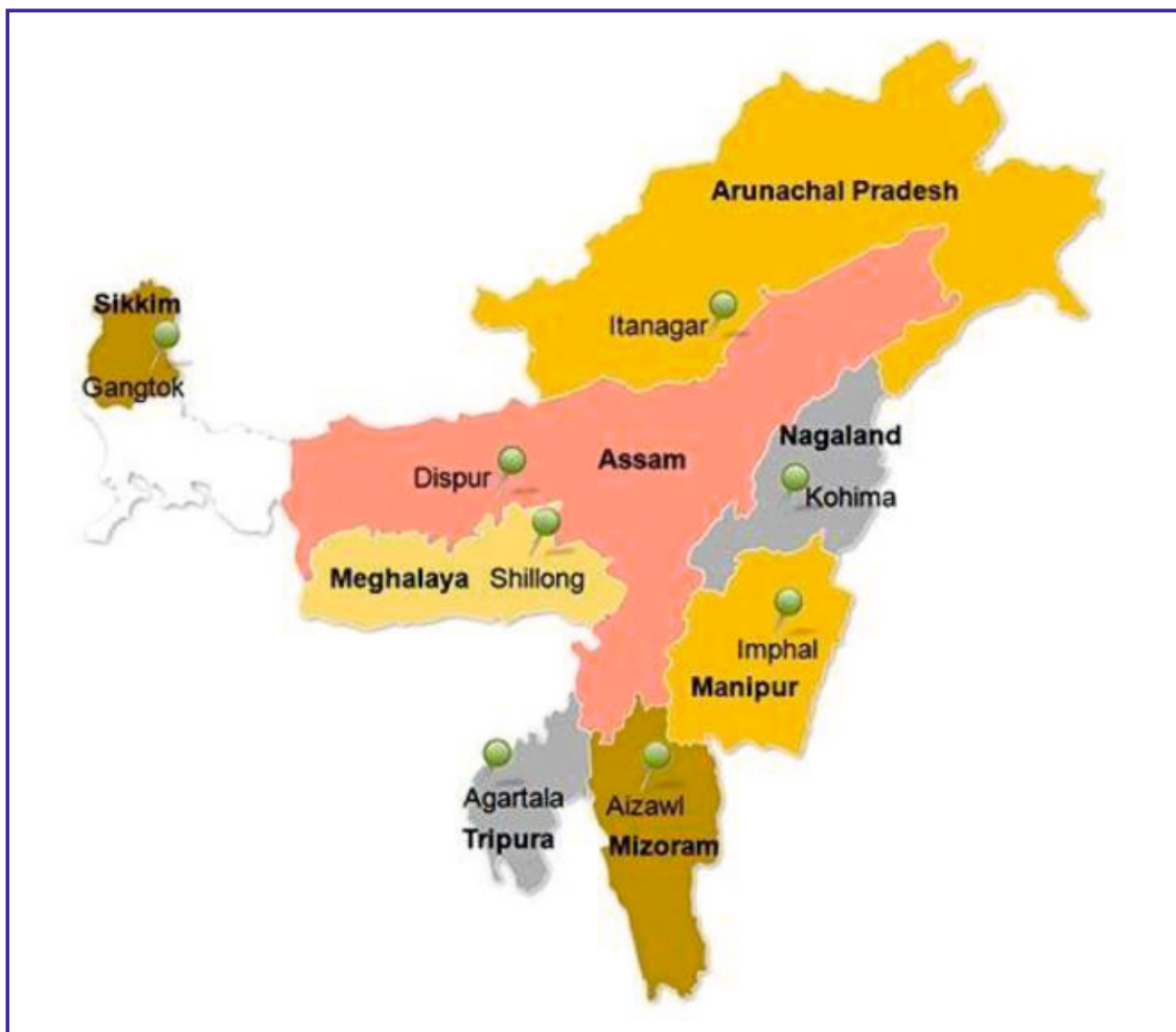


Fig.1: Political Map of Northeast India

During the year 2021-22, NEH component of ICAR-Directorate of Foot and Mouth Disease, was implemented with the aim to support surveillance, epidemiology and control of FMD - as per the institute mandate as well as to support NADCP on FMD activities to bridge the gap from the other part of the country. The goal was to accelerate the pace of FMD control activities of the Region so that it may enjoy growth parity with the rest of the country. The institute created liaison with the centres already working on FMD like NEH ICAR institutes (NRC on Mithun & Yak), SAUs (Regional

research Centre at C.V.Sc., A.A.U., Khanapara) as well as State FMD collaborative centres at Imphal, Aizwal, Kohima, Itanagar, Agartala under Animal Husbandry Departments of respective Governments. The institute has delineated the following technical programme after critical review of issues, prospects and challenges in animal husbandry for better outreach of the programme in NEH regions

- Foot and Mouth Disease awareness camps, development & distribution of technical literature
- Training of NEH FMD network centres & Veterinary officers on sample collection, diagnosis & probang sampling
- Skilled Development programme for farm women in the theme of FMD/animal health management and livestock production
- Organization of animal health camps & FMD vaccination programme
- Intensive FMD surveillance at international borders in coordination with other states
- Organization of workshops/webinars/seminars for entire NEH region
- FMD vaccination programme in semi-domesticated animals like yak and mithun

3. Details of the programmes done by NEH centres/institutes

3.1. Regional Research centre, Khanapara, Guwahati

About the centre:

Regional Research centre, AICRP on FMD, Guwahati was established on 1973. Since its inception, the centre works on generation of base line epidemiological data of FMD for disease control programme. The centre is located at Department of Microbiology, C.V.Sc., AAU, Khanapara, Guwahati with state-of-the-art laboratories for understanding the epidemiological survey of FMD in NE Region. The centre co-ordinates 5 Network units in Mizoram, Manipur, Nagaland, Arunachal Pradesh and Tripura. In addition, RRC Guwahati has been reporting the FMD outbreaks & control programme in Meghalaya and Sikkim. Presently RRC, Guwahati has also running the PDFMD-PDADMAS collaborative network project on *Assessment of socio-economic impact of FMD & its control in India* and ICAR funded *Tribal Sub Plan Project*.

Event No-1

Regional level Workshop cum training programme on Diagnosis, Prevention and Control of Foot and Mouth Disease

Date: 27-10-2021 to 29-10-2021

Venue: Regional centre, AICRP-FMD, College of Veterinary Science, A.A.U., Khanapara, Guwahati, Assam



Fig.2: Glimpses of Workshop cum training at RRC, Guwahati

Details of the programme: A three day workshop cum training programme on “*Diagnosis, prevention & control of Foot and Mouth disease (FMD) of livestock*” was organized by the centre from 27th to 29th October, 2021 at Department of Microbiology, College of Veterinary Science, AAU, Khanapara. A total of 28 veterinary officers/students from FMD collaborating centres of North Eastern states/colleges participated in the said programme. In the inaugural programme, the invited delegates delivered lectures on different aspects on diagnosis, prevention and control of FMD. Besides theoretical aspects, hand-on training on DIVA ELISA was also performed. In the valedictory session a training manual on “*Regional level Workshop cum training programme on Foot and Mouth Disease control*” was also released in the event by Dr. N Kalita, the Director of Research, AAU, Khanapara.

Event No-2

FMD awareness camp

Date: 11-11-2021, 15-12-2021, 28-12-2021, 11-01-2022, 15-02-2022, 21-03-2022, 28-03-2022 and 30-03-2022

Venue: KVK, Kahikuchi, Kamrup (11-11-2021), Bishnupur (15-12-2021) & Gongapukhuri (28-12-2021), Sarabari of Darrang, Tepesia (11-01-2022), Tamulpur (15-02-2022), Khanapara (21-03-2022), Moirakuchi (28-03-2022) of Kamrup and Rongtara, Karbi Anglong (30-03-2022), Assam



Fig.3: FMD awareness programmes by RRC Guwahati

Details of the programme: A total of 8 awareness camps on FMD were organised in Kamrup, Darrang and Karbi Anglong districts of Assam in the year 2021-22 where a total 355 farmers (243 male & 112

females) were benefitted by the programmes. Amongst the participants leaflets prepared in local language (Assamese), its aetiology, transmission and preventive measures were distributed among the participants.

Event No-3

Organization of animal health camps and FMD vaccination programme

Table 1: Details of the health camps and Vaccination programmes organized by RRC, Guwahati

| Sl No | Name of the programme | Venue | Date | Number of Beneficiaries | Number of animal covered |
|-------|--|---------------------------------|------------|-------------------------|--|
| 1 | Animal health camp & vaccination programme | Nine mile, Khanapara | 21-11-2021 | 45(M)+17(F) =62 | 133 goats, 110 cattle and 48 pigs were treated and 131 goats, 210 cattle and 72 pigs were vaccinated against FMD |
| 2 | Animal health camp & vaccination programme | Burha, Darrang | 24-11-2021 | 37(M)+23(F) =60 | |
| 3 | Animal health camp & vaccination programme | Bajali, Pathsala | 11-12-2021 | 36(M)+19(F) =55 | |
| 4 | Animal health camp & vaccination programme | Moranodipar, Darrang | 14-12-2021 | 47(M)+4(F)= 51 | |
| 5 | Animal health camp & vaccination programme | Gongapukhuri, Sarabari, Darrang | 28-12-2021 | 34(M)+17(F) =51 | |
| 6 | Animal health camp & vaccination programme | Medhikuchi, Ghorighuli, Tepesia | 03-02-2022 | 32 farm families | |

Event No-4

FMD prevention and control in goat population

Date: 14-12-2021 & 30-12-2021

Venue: Moranodipar, Darrang (14-12-2021) & Changsari, Kamrup (30-12-2021) Assam

Details of the Programme: Two FMD prevention and control programmes were organized at Moranodipar of Darrang and Changsari village of Kamrup district on 14-12-2021 and 30-12-2021 respectively. A total of 98 cattle and 104 numbers of goats were vaccinated against FMD. Also distributed anthelmintic, vitamins etc. Collected pre-vaccinated sera samples from goat for sero-monitoring.

Event No-5

Training of rural youth for intensive animal husbandry

Date: 23-12-2021 & 20-03-2022

Venue: SAMETI, Khanapara (23-12-2021) & Sorupathar, Golaghat (20-03-2022), Assam

Details of the Programme: Two training programmes were organized on scientific pig farming with special reference to FMD prevention. A total of 118 farmers (male-111 female-7) participated in the programme.



Fig.4: Training of rural youth for intensive Animal husbandry

Event No-6

Training programmes for farm women FMD/ Animal health management

Date: 24-12-2021 & 11-01-2022

Venue: Gorighuli (24-12-2021) & Tepesia (11-01-2022), Kamrup, Assam

Details of the programme: One Day training on scientific goat farming was organized at Gorighuli village of Kamrup district on 24th December, 2021 for rural farm women. A total of 20 farm women of the village were participated in the programme.



Fig.5: Training programme for farm women FMD/ Animal health management

Another training programme on FMD was organised on 11th January, 2022 at Tepesia region where anthelmintics, vitamins and mineral mixture etc. were also distributed for 100 pigs, 40 goats and 35 cattle. FMD related literatures were also distributed and a total of 20 women farmers were benefitted from the programme.

Event No-7

Intensive FMD surveillance at international borders in co-ordination with other states

Details of programmes: A total of 1543 sera samples (Bovine-1300, Ovine-169 & Porcine-74) were collected from fringe areas of Kaziranga National Park, Pobitora National Park and Manash National Park of Assam which were subjected to NSP DIVA ELISA. Till now 360 samples were analysed where 55 (15.28%) samples were found to be positive for NSP.

Event No-8

Capacity Building Programme at Karbi-Anglong, Assam

Date: 22-02-2022

Venue: Sarmen Hanse, Lumbajong, Karbi-Anglong

Details of the Programme: A capacity building programme was undertaken to identify the constraints in rural farming and livestock productivity at Sarmen Hanse, Lumbajong of Karbi Anglong district of Assam. A total of 45 farmers (31 male & 14 female) were benefitted from the programme.

3.2. Imphal FMD collaborating Centre

About the centre: Imphal FMD collaborating centre was established in 2001 at Directorate of Veterinary and Animal services, Imphal, Manipur without funding and has been working as a full-fledged centre and investigation laboratory since 2002 to support the diagnostics related to FMD in Manipur. The centre is collaborating with ICAR-DFMD and NADCP projects to carry out sero-monitoring and sero-surveillance of FMD and to make awareness about FMD and its impacts.

Event No-1

Awareness programme on NADCP

Date: 10-09-2021

Venue: Moreh, Tengnoupal District, Manipur

Detail of the programme: The bordering town Moreh in Tengnoupal District of Manipur neighboring to Myanmar which is also a commercial town where foreign trade with different products from neighboring countries e.g. Myanmar, China, Thailand, Korea, Vietnam etc. are flourishing. There, to create awareness to people of this place and to restrict the illegal import of livestock animals by traders, the place has been identified for conducting Awareness Programme on NADCP on FMD and Brucellosis Control Programme (FMD-CP/ Brucellosis-CP). The Function was organized with the dignitaries on dais and 86 (eighty six) farmers (with 35 women and 51 men) participants among which many young educated farmers were present.



Fig.6: Awareness programme on NADCP at Moreh, Tengnoupal district, Manipur

Event No-2

State level seminar on FMD-CP

Date: 20-11-2021

Venue: Farmers' Training Centre, Veterinary Complex, Sanjenthong, Imphal

Details of the programme: One day state level seminar on “Foot and Mouth Disease & its control programme towards eradication” was conducted on 20th November, 2021 at the Farmers' Training

Centre, Veterinary Complex, Sanjenthong, Imphal. Altogether 105 beneficiaries participated in the seminar.



Fig.7: Seminar organized by State Collaborating unit, Manipur

Event No-3

Veterinary aid camp with FMD vaccination and awareness

Date: 26-12-2021

Venue: Tangkham Village, Sawombung block, Imphal-East, Manipur

Details of the programme: A Veterinary aid camp with vaccination of cattle against Black Quarter & Haemorrhagic septicaemia, Brucella and Anti-Rabies along with Awareness on Foot and Mouth Disease was organized by FMD-Control Unit, Imphal, Manipur along with District Veterinary Office, Imphal-East on the 26th December, 2021. The programme started at 7:15 a.m. participated by altogether 12 staff members at Tangkham Makha Leikai Village, Imphal-East, Sawombung Block, Manipur.



Fig.8: Animal health campat Tangkham village, Sawombung block, Imphal-East

After the vaccination programme farmers were gathered and awareness programme was conducted with 58 farmers.

Event No-4

Awareness cum Training on FMD and Vaccination Strategies for Control & Eradication

Date: 08-03-2022

Venue: Khumbong, Imphal-West, Manipur

Details of the programme: Awareness cum Training on FMD and Vaccination Strategies for Control & Eradication at Khumbong, Imphal-West held on the 8th March, 2022. Leaflets on FMD were distributed among the farmers. A total of 81 farmers were benefitted from the programme.



Fig.9: Awareness cum Training on FMD and Vaccination Strategies for Control & Eradication at Khumbong, Imphal-West

Event No-5

Veterinary aid camp with FMD vaccination and awareness

Date: 27-03-2022

Venue: Tukhel Village, Manipur

Details of the programme: A veterinary aid camp cum vaccination camp against important infectious diseases of animals was organized at Tukhel village on 27th March, 2022 in collaboration with Rotary Club of Imphal where vaccination against BQ+HS (78), Brucellosis (12) and Rabies (88) were done along with distribution of vitamin/feed additives to the poultry farmers. A total no. of 54 (cattle) and 88 (dogs) were also dewormed during the camp and 11 farmers were provided with further consultations.



Fig.10: Awareness cum veterinary aid & vaccination camp on Tukhel Village, Manipur

3.3. Aizawl FMD collaborating Centre

Aizawl FMD collaborating centre was established in 2000 at Directorate of Animal Husbandry and Veterinary services, Aizawl, Mizoram and it has been actively working to control FMD since 2005 by

sero-monitoring and sero-surveillance of FMD in Mizoram. The centre is collaborating with DFMD from 2005 onwards and NADCP to create awareness about FMD and its impacts to control and eradicate the disease.

Event No-1

FMD awareness campaign

Date: 11-11-2021

Venue: Muthi village, Aizawl, Mizoram

Details of the programme: Awareness campaign on FMD was held on 11th November 2021 at Muthi village which is about 10 kms from Aizawl City where a total of 37 farmers attended the programme. The programme was chaired by Dr M. Zohmingthangi, Deputy Director (DI&E), P.I, AICRP-FMD and gave lecture on importance of vaccination against FMD. A presentation on “*FMD and collection of materials for diagnosis of FMD*” was given by Dr Esther Lalzoliani, Co. P.I, AICRP-FMD, Mizoram. It was followed by discussion and interaction with farmers. The awareness campaign was also attended by Village Council President and Village Council members who were very cooperative and ready to help the Department in the coming vaccination programme and other activities. Dr.Saipari Sailo, Veterinary officer, Durtlang has attended the programme. She encouraged famers and seeks cooperation for successful implementation of department activities. Vitamins and minerals supplements as well as technical literature on FMD (local language), were distributed among the farmers.



Fig.11: Awareness cum training programme at Muthi Village, Mizoram

Event No-2: Animal health camp

Date: 15-12-2021

Venue: Sailam Village, Aizawl District

Details of the programme: A programme on animal health camp was organized at Sailam village, Aizawl district on 15th December, 2021. The local people were actively participated the programme along with their livestock as well as companion animals for treatment & vaccinated against various diseases. A total of 57 pigs, 28 dogs, 11 cattle, 5 cats, 9 goats and 517 numbers of poultry birds were treated in the camp. Additionally, 59 pigs, 26 dogs and 480 nos of poultry birds were vaccinated against CSF, ARV and RD, respectively.



Fig.12: Animal health camp at Sailam Village, Aizawl District Mizoram

Event No-3: Animal health camp

Date: 17th December 2021

Venue: Khawrihnim Village, Mamit District

Details of the programme: Another programme on animal health camp was held at Khawrihnim village of Mamit district of Mizoram on 17th December 2021. Various groups of livestock as well as companion animals were treated and vaccinated during the camp. Since FMD vaccines were not yet received, FMD vaccination couldn't have been done at the programme. A total of 25 pigs, 25 dogs, 8 cattle, 1 cat, 4 goats and 457 numbers of poultry birds were treated in the camp. Additionally, 31 pigs, 23 dogs and 28 nos of poultry birds were vaccinated against CSF, ARV and RD, respectively.



Fig.13: Animal health camp at Khawrihnim Village, Mamit District

Event No-4

Awareness cum Training programme

Date: 19-01-2022

Venue: DAH & VO Conference Hall, Lunglei

Details of the programme: FMD Awareness Campaign Cum Training on Sample Collection for Paravets was conducted for Paravets stationed at Lunglei town and its surrounding areas. 20 nos of paravets attended the programme and 3 Veterinarians working in the District Veterinary



Fig.14: Awareness cum Training programme at Lunglei

Hospital also attended the Programme. Technical literature on FMD, materials for sample collection were distributed to all the participants.

Event No-5: Awareness programme for the dairy farmers

Date: 20-01-2022

Venue: DAH & VO Conference Hall, Lunglei

Details of the programme: FMD Awareness Campaign was conducted for dairy farmers at Lunglei and attended by 24 nos of dairy farmers attended the Camp. The meeting was chaired by Dr Vanlalhruaia, district AH & Veterinary officer. Dr M Zohminthangi PI AICRP on FMD highlighted about NADCP and gave lecture on the importance of vaccination against FMD. PowerPoint presentation on the disease, control and prevention was given by Dr C Neihthangpuii, Veterinary officer working in the FMD laboratory. It was followed by discussion and interaction with the farmers. Technical literature on FMD, vitamins, mineral mixtures and anthelmintics were distributed to all the farmers



Fig.15: Awareness programme for dairy farmers at Lunglei

Event No-6: State level Workshop on FMD

Date: 25-03-2022

Venue: Veterinary Rest House, Selesih

Details of the programme: State level workshop on FMD was conducted for veterinarians serving in the state Animal Husbandry & Veterinary department, Government of Mizoram. The workshop was inaugurated by Director, Animal Husbandry & Veterinary and a total of 76 veterinarians from all over the state attended. The Deputy Director (DI&E)/ PI chaired the programme and the Joint Director (LH) delivered a speech on FMD and actions to be taken under NADCP followed by discussion and interaction.



Fig.16: State level Workshop on FMD

3.4. Agartala FMD collaborating Centre

AICRP on FMD, Agartala FMD collaborating centre was established to undergo sero-monitoring and sero-surveillance of FMD in cloven footed animals of the state of Tripura. It is situated at State disease

investigatory laboratory, Abhaynagar, Agartala, Tripura-799005. The centre is collaborating with DFMD and NADCP project to create awareness about FMD and its impacts to control and eradicate the disease.

Event No-1:

FMD awareness programme

Date: 12-11-2021 & 17-11-2021

Venue: Boxanagar, Sepahijala district on 12th & Dakshin Radhapur, Belbari, West Tripura district on 17th November

Details of the programme: Two FMD awareness programme were organized on 12th November & 17th November at Boxanagar, Sepahijala district & Dakshin Radhapur, Belbari, West Tripura district, respectively. In the programme, local Panchayati Raj Institution bodies and representative of local bodies as well as department officers were present. PowerPoint presentation was shown to farmers for better understanding of the disease and control measures to be adopted. Lectures about FMD, its control & prevention was delivered in local dialect by department officers. Many rural youths participated in the programme. A total 68 no farmers participated in the awareness camps. After the programme leaflet about FMD was distributed to all.

Another day, serum samples from cattle were collected in tribal areas. In this camp, Veterinary officers briefed about the importance of FMD vaccination in livestock for better health care. Both farmers and farm women participated in this camp with their queries related to animal husbandry. The experts addressed the issues during interaction. Extension literature in local language (Bengali) were distributed among the farmers.



Fig.17: awareness camp on FMD in Tripura

Event No-2

FMD awareness programme & distribution of leaflet

Date: 10-12-2021

Venue: Kathalia, Sepahijala dist., Tripura

Details of the programme: A programme on FMD awareness along with distribution of leaflet was held on 10th December 2021 at Kathalia, Sepahijala district. In the programme, local PRI bodies and representative of local bodies as well as department officers were present. PowerPoint presentation was shown to farmers for better understanding of the disease and control measures to be adopted. Lectures about FMD, its control & prevention was delivered in local dialect by Department officers. A total of 100 farmers participated in the programme. After the programme leaflet about FMD was distributed to all.



Fig.18: Awareness camp at Kathalia, Sepahijala dist., Tripura

Event No-3

Training for NEH women farmers

Date: 10-12-2021 & 21/12/2021

Venue: Mahavir GP, Dhalai District & Champaknagar, West Tripura district, Tripura

Details of the programme: Two training programmes for NEH women farmers was conducted at Mahavir GP, Dhalai district and Champaknagar of West Tripura district on 10-12-2021 & 21/12/2021 respectively. The programmes were carried out successfully by Concerned Veterinary officers of Mahavir and Champaknagar areas by involving PRI bodies of particular districts. A total of 102 farmers were benefitted from the programmes.



Fig.19: Training programmes for NEH women farmers on FMD awareness at Champaknagar, West Tripura district

Event No-4

FMD awareness programme & distribution of technical literature

Date: 28-01-2022

Venue: Bamutia

Details of the programme: A programme on FMD awareness along with distribution of leaflet was held on 28th January 2022 at Bamutia. In the programme, Lectures about FMD its control & prevention was delivered in local dialect by Department officers. Total 15 Females & 30 Males participated in the programme. After the programme leaflet about FMD was distributed to all.

Event No-5

FMD prevention and control in pig/goat population

Date: 28-01-2022

Venue: Avanga

Details of the programme: A programme on FMD prevention and control in pig/goat was held on 10th February, 2022 at Avanga. A total of 10 Females & 20 Males were participated in the programme and benefitted by informations given by the officers. After the programme leaflet about FMD was distributed to all.

3.5. Itanagar FMD collaborating Centre

About the centre

Itanagar FMD collaborating centre is located on Disease investigatory laboratory, Department of Animal Husbandry and Veterinary, Nirjuli, Itanagar, Arunachal Pradesh 791109 was established in the year 2002-03 undertaking activities like sero-monitoring and sero-surveillance on FMD. The centre is collaborating with DFMD, conducting various camps, training and awareness programme for capacity building among local people against FMD.

Event No-1

One day laboratory training on FMD sample collection

Date: 26-11-2021

Venue: Department of animal husbandry veterinary and dairy development NADCP-FMD state unit, Disease investigation laboratory, Nirjuli, Arunachal Pradesh

Details of the programme: One day laboratory training on sample collection in Foot and Mouth disease control program was conducted on 26th November at Department of animal husbandry veterinary and dairy development AICRP-FMD state unit, Disease investigation laboratory, Nirjuli where total number of 92 block representatives attended the program from 25 districts. The program is particularly for the lab technicians and Stockman to give them basic knowledge about the collection of the samples & its process, and transportation of the samples to the laboratory so that lab technicians can get the right result.



Fig.20: Dr Gyanmya Baki Garam while giving press statement

3.6. ICAR-National Research Centre on Yak

About the centre

ICAR-National Research Centre on Yak is a premier research institute proactively engaged in research and development of yak (*Peophagus grunniens L.*) and is responsible for research strategy formulation for sustainable development of yak husbandry in the country. The institute was established in 1989 at Dirang (1500 m above msl) in West Kameng district of Arunachal Pradesh under the aegis of Indian Council of Agricultural Research (ICAR). The institute is working together with various institutes and agencies in prestigious projects targeting sustainability and economic empowerment of yak farmers such as AICRP on FMD at yak rearing region of Arunachal Pradesh for sero-monitoring and sero-surveillance of FMD in yak and to create awareness among the yak farmers.

Event No-1

Name of the programme: FMD Awareness programme

Date: December 01-12-2021 to 03-12-2021

Venue: Jangda, Thingbu and Jang in Tawang district, Arunachal Pradesh

Details of the programme: ICAR-NRC on Yak organized Awareness cum vaccination programme for yak at remote villages of Tawang district, Arunachal Pradesh in collaboration with Department of Animal Husbandry and Veterinary, Govt. of Arunachal Pradesh.

Day-1: On 1st December, 2021, the team proceeded to Jangda for conducting FMD Awareness programme among tribal yak and yak-cattle hybrid farmers of Rho and Jangda villages at the Jangda Helipad. The programme began with visiting grazing pastures few kilometers ahead of the programme venue for serum sampling and vaccination of yak-cattle hybrids. Serum sample was collected from ten (10) animals and four (04) were vaccinated with RakshaTriovac.



Fig.21: Awareness camp on FMD at Jangda village in Tawang, Arunachal Pradesh

Later, the awareness programme was organized at Jangda Helipad and was attended by thirty five (35) tribal farmers associated with yak and yak-cattle hybrid farming. This was followed directly by technical session, where Dr.Joken Bam, Scientist, ICAR-NRC on Yak briefed the participants on the impact of Foot and Mouth Disease in livestock in India. Also a folder on FMD in Hindi developed by the institute was distributed to the participants. During the programme, through Scheduled Tribe Component fund of the ICAR-NRC on Yak, each participants were also provided with concentrate feed (50 Kgs) and veterinary medicines (Butox Liquid and Himax ointment). Later the farmers also interacted with the scientist on common disease in their livestock and ways of management.

Day-2: On 2nd December, 2021, the team proceeded to Thingbu, a yak herder's village located 57 Km away from Jang at an elevation on 10,990 feet above MSL for conducting FMD Awareness programme among tribal yak farmers of Thingbu and nearby villages. After reaching the village the team collected serum samples from five (05) and vaccinated six (06) yaks grazing around the village. Later, like the first day a similar awareness programme was organized in the school premises of Thingbu which was attended by Sixty (60) tribal yak farmers. During the technical session, Dr. Joken Bam, Scientist, briefed Foot and Mouth Disease, National Animal Disease Control Programme (NACDP) and the role of ICAR-DFMD which was translated in Monpa local dialect by Dr.Thupten Tashi for clear understanding of the farmer participants. Exact inputs were also distributed under Scheduled Tribe Component fund of the ICAR-NRC on Yak, to each participant.



Fig.22: Awareness camp on FMD at Thingbu village in Tawang, Arunachal Pradesh

Day-3: At the office of the Senior Veterinary Officer, Jang, Five (05) yak farmers from Jang village was made aware about FMD and were distributed with a Hindi folder on FMD and inputs under SCT fund of ICAR-NRC on Yak. After the programme, 490 Raksha Triovac vaccine doses were handed over to SVO, Jang for vaccination of yak, yak-cattle, hybrids and other ruminants under Tawang district.



Fig.23: Awareness camp on FMD at Thingbu village in Tawang, Arunachal Pradesh

Event No-2

Name of the programme: One day training programme for women farmers on FMD

Date: 23-03-2022

Venue: Nyukadung village, Arunachal Pradesh

Details of the programme: ICAR-NRC on Yak, Dirang organized a One day Training programme for women farmers to create awareness among the women farmers on FMD and its impact on the livestock. The programme was organized in collaboration with the department of Animal Husbandry and Veterinary, Dirang, West Kameng, Govt. of Arunachal Pradesh and ICAR-DFMD. Lectures about different aspects of prevention and control of FMD were given by scientists of the institute followed by a short interaction with the women farmers. A total of 20 women farmers participated in the programme and benefitted from it.



Fig.24: One day training programme for women farmers on FMD

Event No-3**Name of the programme:** FMD vaccination programme**Date:** 24-03-2022 to 26-03-2022**Venue:** Chander, Lubrang and Mandala village of Arunachal Pradesh**Details of the programme:** ICAR-NRC on Yak, Dirang organized FMD vaccination programmes for yaks at three villages of West Kameng district, Arunachal Pradesh.**Day 1:** On 24th March, 2022 the team proceeded from Dirang to Chander for conducting FMD vaccination of the Yaks of Chander village and Govt. yak farm. Total of 20 yaks of different age groups were vaccinated and distributed mineral mixtures, ointments, anthelmintics to the yak farmers.**Day 2:** On 25th March, 2022 the team proceeded from Dirang to Lubrang village for conducting FMD vaccination of the Yaks of Chander village and Govt. yak farm. A total of 43 yaks of different age groups were vaccinated and distributed mineral mixtures, ointments, anthelmintics to the yak farmers.**Day 3:** On 26th March, 2022 the team proceeded from Dirang to Mandala village for conducting FMD vaccination of the Yaks of Chander village and Govt. yak farm. A total of 19 yaks of different age groups were vaccinated and distributed mineral mixtures, ointments, anthelmintics to the yak farmer. A total of 50 yak farmers from the three villages were benefitted from the camp.**Fig.25:** FMD vaccination programme on yak**3.7. ICAR-National Research Centre on Mithun****About the centre**

The ICAR-National Research Centre on Mithun was established in June 1988 at Jharnapani, Medziphema in the state of Nagaland under the aegis of the Indian Council of Agricultural Research to provide impetus on the research work on mithun (*Bos frontalis*). It has been playing key roles to

preserve, conserve and propagate superior quality mithun germplasm for a sustainable production system and subsequent utilization for better nutritional and socio-economic support to the farmers. The mandate of the institute has been developing the scientific and sustainable mithun rearing system and for catering to the needs of mithun farmers.

The centre is collaborating with ICAR-DFMD to carry out sero-monitoring and sero-surveillance of FMD on mithun and to make awareness against FMD among the farmers.

Event No-1

Organization of animal health camps and FMD vaccination programme in Mithun

Date: 09-12-2021

Venue: Porba Village, Phek District, Nagaland

Details of the programme: An animal health camps and FMD vaccination programme in Mithun was organized at Porba Village, Phek District, Nagaland. Lecture was deliberated on the impact and disease progression of FMD in Mithun. In this camp, the importance of vaccination for prevention and control of FMD occurrence were also highlighted. Total 100 farmers attended the programme and 93 mithun were vaccinated against FMD. Medicines for treatment of wound were also distributed to the farmers.

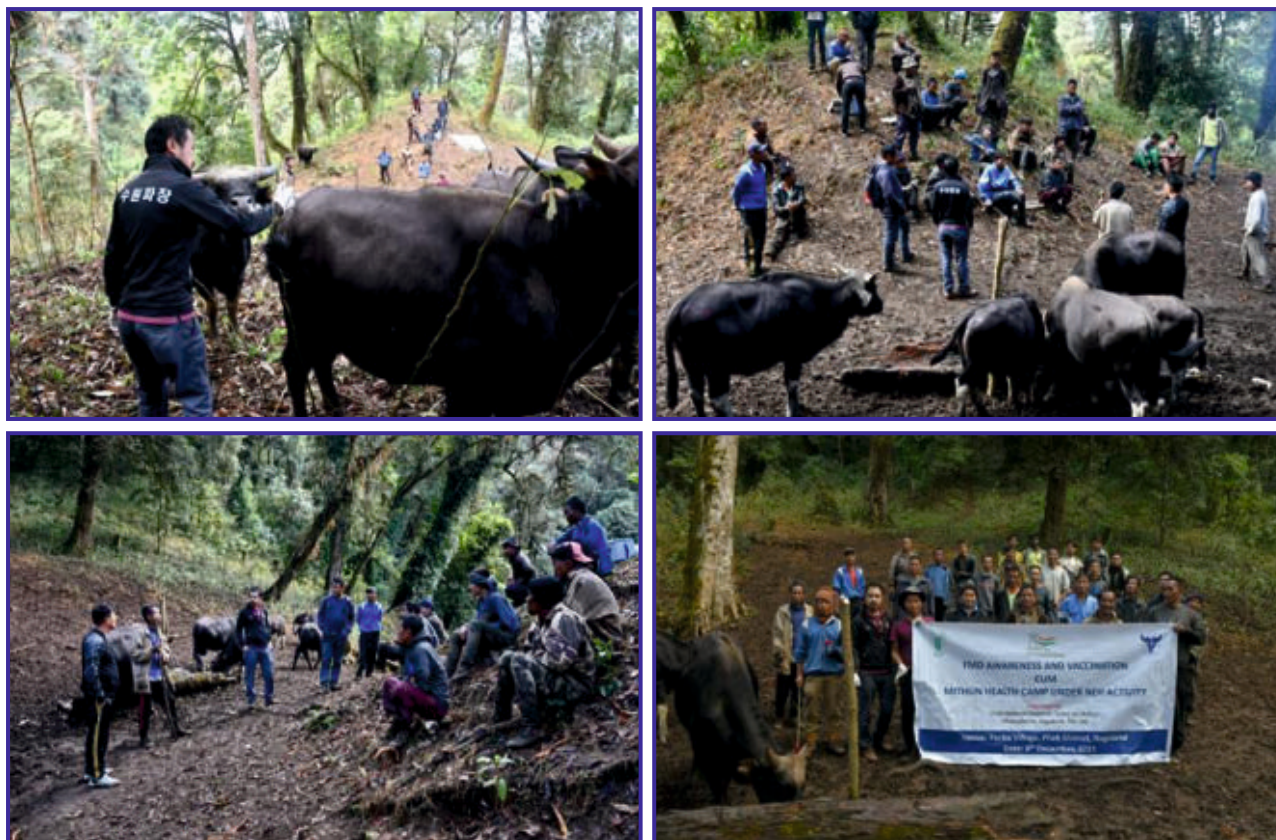


Fig.26: Animal health camps and FMD vaccination programme in Mithun at Porba village, Phek district, Nagaland

Event No-2

Mithun Mela cum Animal Health Camp and input material distribution

Date: 21 & 22-01-2022

Venue: Mirem Village, Arunachal Pradesh

Details of the programme: Mithun Mela cum Animal Health camp and TSP input materials distribution on 21-22 January 2022 at Miren Village, East Siang district, Arunachal Pradesh. A total of 533 mithun farmers attended the programme. 64 mithun were vaccinated against FMD.



Fig.27 : Mithun Mela cum Animal Health Camp

Event No-3

Technology awareness, health camp and input distribution

Date: 05-02-2022

Venue: Jotsoma Village, Nagaland

Details of the programme: ICAR-NRC on Mithun conducted technology awareness, health camp and input distribution at Jotsoma village on 05-02-2022. A total 150 mithun farmers (50 female and 100 male) were benefitted from the programme.



Fig.28: Technology awareness, health camp and input distribution

Event No-4

FMD awareness and Vaccination camp

Date: 04-03-2022

Venue: Thuvopisumi Village, Nagaland

Details of the programme: An awareness cum animal health camp and FMD vaccination programme in Mithun was organized at Thuvopisumi Village, Phek District, Nagaland. Lecture was deliberated on the impact and disease progression of FMD in Mithun. Total 50 male farmers attended the programme and 50 mithuns were vaccinated against FMD

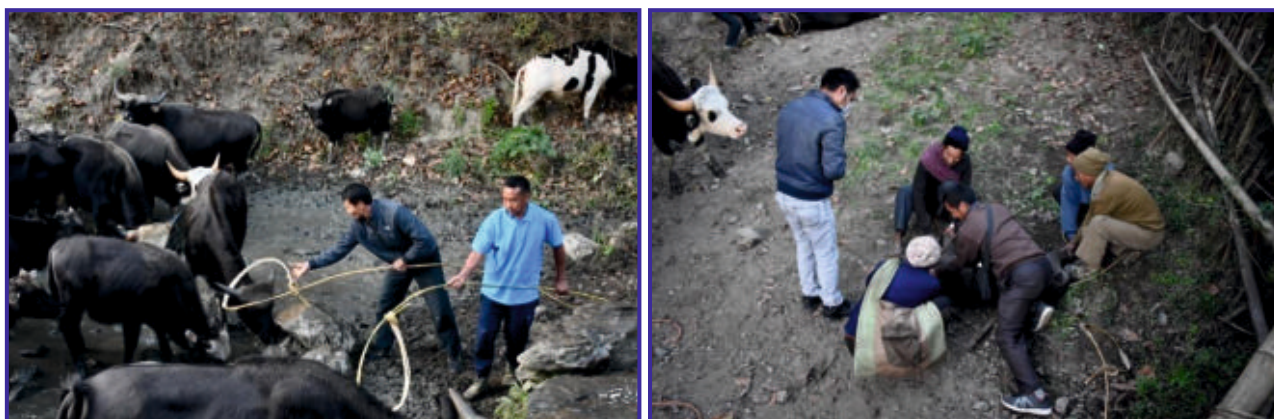


Fig.29: FMD awareness and Vaccination camp

4.1. Funds provided by DFMD for carrying out NEH activities

To perform the activities by the NEH centres they were provided with funds to the tune of 17.50 lakh as first instalment and 16.00 lakh as second instalment, as a whole 33.50 lakhs for the whole year. The funds allotted to the institutions/ centres according to their requirement stated by respective centres in an initial review meeting. The requisite grant under carrying out of NEH activities being the first instalment in the year 2021-22 was drawn as follows:

Table 2: Details of funds released by ICAR-ICFMD for the centres during 2021-22

| Sl. No. | Name of the centre | Grant released in favour of | Allocation (in lakhs) | | |
|---------------------|-----------------------------------|--|----------------------------|----------------------------|--------------|
| | | | 1 st Instalment | 2 nd Instalment | Total |
| 1. | Guwahati FMD regional centre | Comptroller, Assam Agricultural University, Jorhat, (Assam) | 4.50 | 5.00 | 9.50 |
| 2. | Imphal FMD collaborating centre | Director, Veterinary A.H. services, Manipur | 3.00 | 2.50 | 5.50 |
| 3. | Aizawl FMD collaborating centre | Director of Animal Husbandry & Veterinary, Govt. of Mizoram, Aizawl | 3.00 | 2.00 | 5.00 |
| 4. | Itanagar FMD collaborating centre | Director of Animal Husbandry & Veterinary, Govt. of Arunachal Pradesh, Nirjuli, Itanagar | 2.00 | 1.50 | 3.50 |
| 5. | Agartala FMD collaborating centre | Director of Animal Resources Development Department, Govt. of Tripura, Agartala | 2.00 | 2.50 | 4.50 |
| 6. | NRC on Mithun | Director, NRC on Mithun (ICAR), Jharnapani, Medziphema, Nagaland-797106 | 2.00 | 1.00 | 3.00 |
| 7. | NRC on Yak | Director, NRC on Yak (ICAR), Dirang, Arunachal Pradesh | 1.00 | 1.50 | 2.50 |
| Total Amount | | | 17.50 | 16.00 | 33.50 |

Table 3: Activities carried out month-wise by the collaborating units during 2021-22

| Month | State | Date | Name of the programme | Venue | Institution | No. of beneficiaries |
|-----------------|-----------|---|--|--|--------------|----------------------|
| September, 2021 | Manipur | 10-09-2021 | Awareness programme on NADCP | Moreh, Tengnoupal District | Imphal CC | 51(M)+35(F) =86 |
| October, 2021 | Assam | 27 th -29 th Oct,2021 | Regional level Workshop cum training programme on Foot and Mouth Disease control under ICAR-AICRP NEH Activities | C.V.Sc, A.A.U., Khanapara, Guwahati | RRC Guwahati | 14(M)+14(F) =28 |
| November, 2021 | Mizoram | 11-11-2021 | FMD awareness camps and development and distribution of technical literatures | Muthi village, Aizawl | Aizawl CC | 28(M)+9(F) =37 |
| | Assam | 11-11-2021 | Awareness cum training programme on vaccine & vaccination strategy for effective FMD CP | KVK, Kahikuchi, Kamrup | RRC Guwahati | 19(M)+11(F) =30 |
| | Mizoram | 11-11-2021 | Training of rural youth for intensive animal husbandry | Muthi village, Aizawl | Aizawl CC | 11(M)+9(F) =20 |
| | Tripura | 12-11-2021 & 17-11-2021 | FMD sample collection, awareness programme along with distribution of leaflet | Boxanagar, Sepahijala District; Dakshin Radhapur, Belbari, West Tripura District | Agartala CC | 47(M)+21(F) =68 |
| | Manipur | 20-11-2021 | One day state level seminar on FMD and control programme | Farmer training centre, Saanjenthong | Imphal CC | 81(M)+24(F) =105 |
| | Assam | 21-11-2021 | Animal health camp | Ninemile, Khanapara | RRC Guwahati | 45(M)+17(F) =62 |
| | Assam | 24-11-2021 | Animal health camp | Burha, Darrang district | RRC Guwahati | 37(M)+23(F) =60 |
| | Arunachal | 26-11-2021 | One day laboratory | Disease | Itanagar CC | 65(M)+7(F) |

| | | | | | | |
|----------------|-------------------|--------------------------|---|--|--------------------|-----------------|
| | Pradesh | | training on sample collection in foot and mouth disease control programme | investigation laboratory, Nirjuli. | | =72 |
| December, 2021 | Arunachal Pradesh | 01-12-2021 to 03-12-2021 | FMD awareness programme | Jnagda,Thingbu and Jang in Tawang district | ICAR NRC on Yak | 76(M)+24(F)=100 |
| | Nagaland | 09-12-2021 | Organization of animal health camps and FMD vaccination programme | Porba Village, Phek District, Nagaland | ICAR NRC on Mithun | 100(M)+0(F)=100 |
| | Tripura | 10-12-2021 | FMD awareness camp & distribution of technical literature | Kathalia, Sepahijala district | Agartala CC | 80(M)+20(F)=100 |
| | Tripura | 10-12-2021 | Training programme for NEH women | Mahavir GP, Dhalai district | Agartala CC | 10(M)+40(F)=50 |
| | Assam | 11-12-2021 | Animal health camp cum diagnostic service | Bajali, Pathsala | RRC Guwahati | 36(M)+19(F)=55 |
| | Assam | 14-12-2021 | Animal health camp | Moranodipar, Darrang district | RRC Guwahati | 47(M)+4(F)=51 |
| | Assam | 14-12-2021 | FMD prevention and control in pig/yak/Mithun/Goat population | Moranodipar, Darrang district | RRC Guwahati | 99(M)+11(F)=110 |
| | Assam | 15-12-2021 | Awareness programme on FMD CP | Bishnupur, Darrang district | RRC Guwahati | 42(M)+3(F)=45 |
| | Mizoram | 15-12-2021 | Organization of animal Health camp | Sailam Village, Aizawl district | Aizawl CC | 50(M)+68(F)=118 |
| | Mizoram | 17-12-2021 | Organization of animal Health camp | Khawrihnim village, Mamit district | Aizawl CC | 64(M)+40(F)=104 |
| | Tripura | 21-12-2021 | Training programmes for NEH women farmers FMD/ Animal Health management | Champaknagar, West Tripura district | Agartala CC | 3(M)+49(F)=52 |
| | Assam | 23-12-2021 | Training programme on scientific pig farming | SAMETI, Khanapara, Govt. of Assam | RRC Guwahati | 35(M)+21(F)=56 |
| | Assam | 24-12-2021 | Training programme on scientific goat farming | Gorighuli, Kamrup district | RRC Guwahati | 0(M)+20(F)=20 |

| | | | | | | |
|----------------|-------------------|------------------|--|---|---------------------|-------------------|
| | Manipur | 26-12-2021 | Veterinary aid camp with farmers awareness & interaction programme on FMD | TngkhamMakha Leikei, Sawmbung block, Imphal east district | Imphal CC | 152(M)+32(F) =184 |
| | Assam | 28-12-2021 | Awareness cum training programme on FMD CP with special reference to integrated farming system | Gongapukhuri, Sarabari, Darrang | RRC Guwahati | 41(M)+5(F) =46 |
| | Assam | 28-12-2021 | Animal health camp | Gongapukhuri, Sarabari, Darrang | RRC Guwahati | 34(M)+17(F) =51 |
| | Assam | 30-12-2021 | FMD prevention and control programme in goat | Changsari, Kamrup district | RRC Guwahati | 12(M)+13(F) =25 |
| January, 2022 | Assam | 11-01-2022 | Awareness programme cum training programme on FMD | Ghoriaghuli, Tepesia, Dimoria, Kamrup | RRC Guwahati | 0(M)+20(F) =20 |
| | Mizoram | 19-01-2022 | FMD awareness campaign cum training on sample collection for paravets | DAH&VO Conference Hall, Lunglei | Aizawl CC | 20(M)+0(F) =20 |
| | Mizoram | 20-01-2022 | Awareness Campaign on FMD for dairy farmers | DAH&VO Conference Hall, Lunglei | Aizawl CC | 23(M)+1(F) =24 |
| | Arunachal Pradesh | 21 & 22-01-2022 | Mithun Mela cum Animal Health camp and input materials distribution | Mirem village, Arunachal Pradesh | ICAR NRC on Mithun, | 480(M)+53(F) =533 |
| | Tripura | 28-01-2022 | FMD awareness camps and development and distribution of technical literatures | Bamutia | Agartala CC | 30(M)+15(F) =45 |
| February, 2022 | Nagaland | 05-02-2022 | Technology awareness, health camp and input distribution | Jotsoma Village, Nagaland | ICAR NRC on Mithun, | 100(M)+50(F) =150 |
| | Tripura | 10-02-2022 | FMD prevention and control in pig/goat population | Avanga | Agartala CC | 20(M)+10(F) =30 |
| | Assam | 14 to 16-02-2022 | Awareness cum training programme | Tamulpur, Baksa | RRC Guwahati | 37(M)+5(F) =42 |

| | | | | | | |
|-------------|-------------------|------------------|---|--|--------------------|---------------------|
| | | | on FMD CP with special reference to integrated farming system in collaboration with KVK, Baksa | | | |
| | Assam | 15-02-2022 | Animal health camp cum vaccination programme on FMD | Medhikuchi, Ghoriaghuli, Tepesia | RRC Guwahati | 32(M)+0(F) =32 |
| | Assam | 22-02-2022 | Capacity building programme to identify the constraints in rural farming and livestock productivity | Sarmen Hanse, Lumbajong, Karbi Anglong | RRC Guwahati | 31(M)+14(F) =45 |
| March, 2022 | Nagaland | 04-03-2022 | FMD awareness and vaccination camp | Thuvopisumi Village, Phek District | ICAR NRC on Mithun | 50(M)+0(F) =50 |
| | Manipur | 08-03-2022 | Awareness cum Training on FMD and Vaccination Strategies for Control & Eradication | Khumbong, Imphal-West | Imphal CC | 62(M)+19(F) =81 |
| | Assam | 20-03-2022 | Training programme on Scientific Pig farming | Sorupathar, Golaghat | RRC Guwahati | 54(M)+7(F) =61 |
| | Assam | 21 to 23-03-2022 | Awareness cum training programme on FMD CP with special reference to integrated farming system for budding veterinarians. | College of Veterinary Science Khanapara, Guwahati, Kamrup(M) | RRC Guwahati | 61(M)+39(F) =100 |
| | Arunachal Pradesh | 23-03-2022 | One day training programme for women farmers on Foot and Mouth Disease | Nyukmadung village, West Kameng District | ICAR NRC on Yak | 0(M)+20(F) =20 |
| | Arunachal Pradesh | 24 to 26-03-2022 | FMD vaccination camps for yaks | Chander, Lubrang and Mandala top villages | ICAR NRC on Yak | 47(M)+3(F) =50 |
| | Mizoram | 25-03-2022 | State level workshop on FMD | Vety. Rest House, Selesih | Aizawl CC | 56(M)+20(F) =76 |

| | | | | | | |
|--|---------|------------|--|-------------------------------------|--------------|--------------------|
| | Manipur | 27-03-2022 | Veterinary aid camp and vaccination camp | Tukhel Village | Imphal CC | 28(M)+0(F) =28 |
| | Assam | 28-03-2022 | Awareness programme on FMD-CP cum training programme on Scientific Pig farming | Moirakuchi, Digaru, Sonapur | RRC Guwahati | 2(M)+19(F) =21 |
| | Assam | 30-03-2022 | Awareness cum training programme on FMD CP | Rongtara, Rongmongwe, Karbi Anglong | RRC Guwahati | 41(M)+10(F) =51 |

Total number of beneficiaries= 3,314

Total number of male beneficiaries=2,453

Total number of female beneficiaries=861

4.2. Number of Activities done by the NEH Collaborating Centres

Table 4: Number of activities done by individual centres

| Sl. No. | Name of the Collaborating Centre | State | No of events | Total Number of beneficiaries |
|---------|-----------------------------------|-------------------|--------------|-------------------------------|
| 1 | RRC, Guwahati | Assam | 21 | 719(M)+292(F)=1011 |
| 2 | Imphal FMD collaborating centre | Manipur | 5 | 377(M)+107(F)=484 |
| 3 | Aizawl FMD collaborating centre | Mizoram | 7 | 252(M)+147(F)=399 |
| 4 | Agartala FMD collaborating centre | Tripura | 6 | 190(M)+155(F)=345 |
| 5 | Itanagar FMD collaborating centre | Arunachal Pradesh | 1 | 65(M)+7(F)=72 |
| 6 | ICAR-NRC on Yak | Arunachal Pradesh | 3 | 123(M)+47(F)=170 |
| 7 | ICAR-NRC on Mithun | Nagaland | 4 | 730(M)+103(F)=833 |

4.3. Types of activities performed by the NEH Collaborating Centres

Table 5: Types of activities performed by individual collaborating centres

| Type of Activity | RRC, Guwahati | Imphal CC | Aizawl CC | Agartala CC | Itanagar CC | ICAR- NRC on Yak | ICAR- NRC on Mithun |
|---|------------------|--------------|--------------|----------------|----------------|---------------------------|---------------------------|
| FMD awareness camps & development & distribution of technical literature | √ | √ | √ | √ | | √ | √ |
| Training of NEH FMD network centres & vets on sample collection, diagnosis & probang sampling | √ | | √ | | √ | | |
| FMD Prevention & control in pig/ yak/ mithun/ goat population | √ | | | √ | | √ | √ |
| Training programme for NEH women farmers FMD/Animal Health Management | √ | | | √ | | √ | |
| Organization of animal health camps & FMD vaccine programme | √ | √ | √ | | | √ | √ |
| Intensive FMD surveillance at international borders in coordination with other states | √ | | | | | | |
| Training of rural youth for intensive animal husbandry | √ | | | | | | |

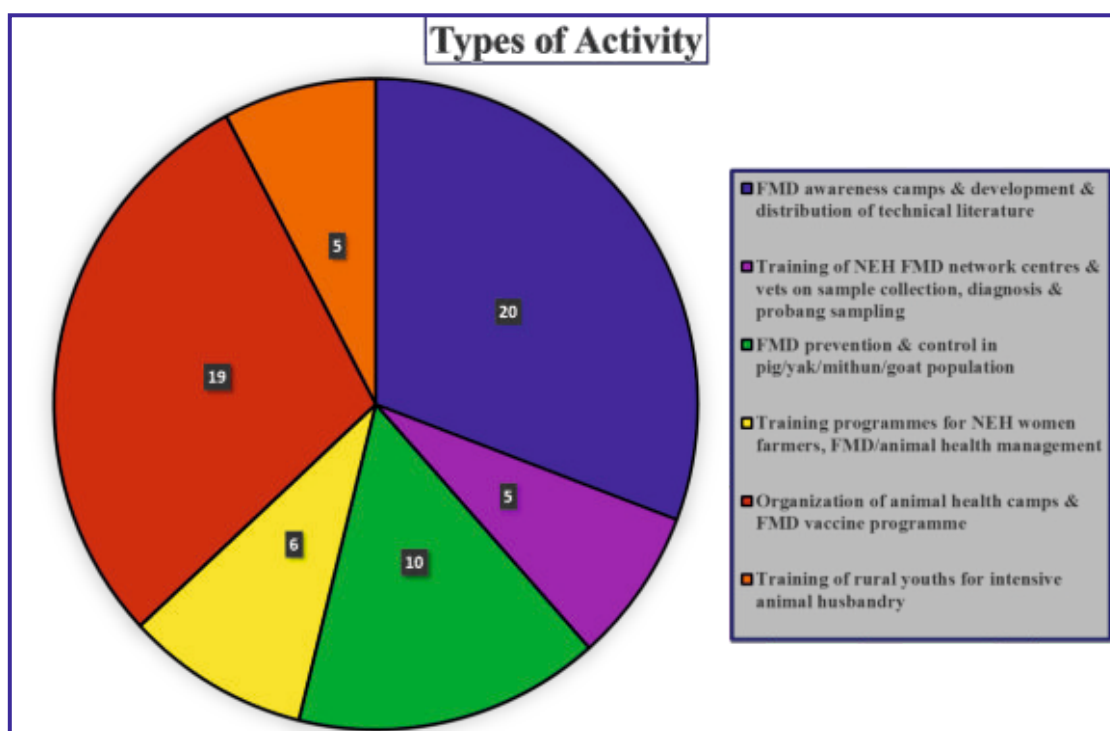


Fig.30: Type of activities performed by different collaborating Centres in year 2021

5. Publication and Media coverage

Media coverage by Capital News, Arunachal Pradesh on 26-11-2021 (Itanagar FMD Collaborating Centre)

One day Laboratory training on sample collection in foot and mouth disease Control Programme

One day laboratory training on sample collection in foot and mouth disease control programme was conducted today at Department of Animal husbandry Veterinary and Dairy development AICRP-FMD (All India Coordinated Research Project on Foot and Mouth Disease) state unit, Disease Investigation Laboratory, Nirjuli.

The programme was sponsored by the ICAR-International Centre for Foot and Mouth Disease where total no of 92 block representatives attended the programme from 25 districts.

Dr Gyamnya Baki Garam (Veterinary microbiologist, Disease Investigation Laboratory, Nirjuli) while briefing about the programme he said that the programme is particularly for the lab technicians and stockman, to give them basic knowledge about the collection of the samples and its process, and transportation of the samples to the laboratory so that lab technicians can get the right result.





International Centre for Foot and Mouth Disease in Bhubaneswar (Odisha)