

Technical Report on Development Action Plan for Scheduled Tribes तकनीकी प्रतिवेदन जनजातियों के विकास हेतु कार्य योजना

2022-2023



ICAR-NATIONAL INSTITUTE ON FOOT AND MOUTH DISEASE

ICFMD, ARUGUL, BHUBANESWAR, ODISHA-752050

भा.कृ.अनु.प.-राष्ट्रीय खुरपका मुँहपका रोग संस्थान

अरुगुल, भुवनेश्वर, ओडिशा- 752050

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हर कदम, हर डगर
किसानों का हमसफर
भारतीय कृषि अनुसंधान परिषद

Agrisearch with a human touch

तकनीकी प्रतिवेदन

जनजातियों के विकास हेतु कार्य योजना

Technical report

Development Action Plan for Scheduled Tribes

2022-2023



भा.कृ.अनु.प.-राष्ट्रीय खुरपका मुँहपका रोग संस्थान
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ICAR- National Institute on Foot and Mouth Disease
Arugul, Jatni, Odisha -752050

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Arugul, Bhubaneswar, Odisha, India

Compiled by:

Mr. N. S. Singh and Dr. T. Das

Editors:

*Dr. C. Jana, Dr. T. Das, Mr. N. S. Singh, Dr. NR Sahoo, Dr. S. Subramaniam,
Dr. J. K. Mohapatra*

Associate Editors:

*Dr. A. P. Sahoo, Dr. M. Sahoo, Dr. M. Rout, Dr. R. Ranjan, Dr. S. A. Khulape, Dr.
S. S. Dahiya, Dr. JK Biswal, Dr. S. Mallick, Dr. S. Das*

Design:

Mr. Samir Kumar Sarangi

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PREFACE

The National Institute on Foot and Mouth Disease is the premier facility of Indian Council of Agriculture Research, New Delhi catering research and development towards control and eradication of FMD in the country. Continuous disease surveillance and monitoring of FMD is done by the institute across the country through state collaborating units in each state. Additionally, the institute is serving as FAO reference center for FMD. The institute is assigned with the primary mandate of “Surveillance and epidemiology through systemic monitoring of antigenicity and genomic make up of FMD virus strains, maintenance of virus repository and capacity building”. The NIFMD also provide technical-scientific support for planners and national agencies for implementation of FMD control measures. Apart from research and development activities of the institute, the social scientific responsibilities towards communities are dispensed through various flagship programs of GoI under NEH, DAPST and DAPSC schemes. ICAR-NIFMD has actively organized and participated in DAPST activities during the fiscal year 2022-23.



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(Dr R.P. Singh)
Director, ICAR-NIFMD

LIST OF CONTRIBUTORS

Dr Chandrakant Jana Pr. Scientist, ICAR-NIFMD, Mukteshwar, Nainital, Uttarakhand Phone: 05942 286004 Email: drjanac@gmail.com / chandrakanta.jana@icar.gov.in	
Mr. Nayan Sanjeev Singh Technical Officer, ICAR-NIFMD, Mukteshwar, Nainital, Uttarakhand Phone: 05942 286004 Email: sheetalnayansingh@gmail.com / Nayan.Singh@icar.gov.in	
Dr. Tareni Das Scientist, ICAR-NIFMD, Aragul, Bhubaneswar, Odisha Phone: 7735892137 Email: tarenisahoo@gmail.com / Tareni.Das@icar.gov.in	
Dr Sagar A. Khulape Scientist, ICAR-NIFMD, Mukteshwar, Nainital, Uttarakhand Phone: 05942 286004 Email: virtualsagar4max@gmail.com / sagar.khulape@icar.gov.in	
Dr Aditya Prasad Sahoo Sr. Scientist, NSL, ICAR-NIFMD, Bengaluru, Karnataka Phone: 07409462216 Email: rush2aditya@gmail.com / aditya.sahoo@icar.gov.in	
Dr Rajeev Kumar Sharma Professor cum Officer In-Charge, ICAR-AICRP on FMD, Regional Research Centre, C.V.Sc. Khanapara, AAU, Guwahati, Assam Phone: 94350-64887 Email: drsharmark@rediifmail.com	
Dr Pankaj Deka Assistant Professor cum Assistant Virologist, ICAR-AICRP on FMD, Regional Research Centre, C.V.Sc. Khanapara, AAU, Guwahati, Assam. Phone: 70022-12725 Email: drpankajaa@gmail.com	

Dr Devendra Sharma Joint Director and PI Department of Animal Husbandry Govt. of Uttarakhand Phone: 8937001273 Email: devendras642@gmail.com	
Dr Prasoon Dubey Veterinary Officer Grade-I and Co-PI Department of Animal Husbandry Govt. of Uttarakhand Phone: 9411558046 Email: prasoon.dubey@rediffmail.com	
Dr Amit Kanani Deputy Director of Animal Husbandry and PI of State FMD Collaborating Unit, Department of Animal Husbandry, Govt. of Gujarat Phone: 9824021874 Email: amit_kanani@hotmail.com	
Dr Vartika Chandra Assistant Director of Animal Husbandry and Co-PI of State FMD Collaborating Unit, Department of Animal Husbandry, Govt of Gujarat Phone: 9727784001 Email: chandra.vartika@gmail.com	
Dr Shobha Gupta Epidemiologist and Principal Investigator State FMD Collaborating Unit, Jammu Directorate of Animal Husbandry, Jammu and Kashmir Phone: 9419159680 Email: aicrpjmu@gmail.com	
Dr. M. K. Gupta, PI, FMD Network Unit, Ranchi Birsa Agricultural University, Kanke, Ranchi – 834006 Jharkhand Phone: 9431101588 Email: madhurendu.gupta@gmail.com	
Dr Ansar Ahmad CoPI, FMD Network Unit, Ranchi Birsa Agricultural University, Kanke, Ranchi – 834006 Jharkhand	

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LIST OF ABBREVIATIONS

AICRP on FMD	All India Coordinated Research Project on Foot and Mouth Disease
AAU	Assam Agriculture University
ADG (AH)	Assistant Director General (Animal Health)
C.V.Sc	College of Veterinary Sciences
Co PI	Co- Principal Investigator
CSF	Classical swine fever
DDG (AS)	Deputy Director General (Animal Science)
FAO	Food and Agriculture Organization
FMD	Foot-and-Mouth Disease
ICAR	Indian Council of Agricultural Research
IVRI	Indian Veterinary Research Institute
NEH	<i>North Eastern</i> Hill Region
NSL	National Sero -Monitoring Laboratory
PI	Principal Investigator
PPR	<i>Peste des Petits Ruminants</i>
SAARC	South Asian Association for Regional Cooperation
SCSP	Scheduled Caste Sub-Plan
TAH	Temperate Animal Husbandry
TSP	Tribal Sub Plan
U.S. Nagar	Udham Singh Nagar

EXECUTIVE SUMMARY

The NIFMD works on one of the important diseases of cloven-footed animal i.e., foot and mouth disease. The primary mandated activities of the institute are research and development for FMD, serosurveillance and sero-monitoring delivered through 2 laboratories. Apart from research activities for FMD, various outreach and extension programs are carried out as corporate social responsibility. The flagship program of GoI on DAPST 2022-23 has been implemented in 04 states and 01 union territory.

Total 15 tribal dominated district from Assam, Gujarat, Jammu & Kashmir, Jharkhand and Uttarakhand state/union territories were selected on operational area for DAPST 2022-23 scheme. A total of 59 villages were benefited from these programs through various technical interventions. The interventions were carried out for improvement of production and health of livestock in turn empowering livelihood security of targeted community.

The various activities like capacity building programs, demonstration, awareness camp, kisan goshti, animal health camp, critical input distribution for upkeeping of animal health and production were conducted in different villages. The activities were coordinated and implemented by respective PI, Co-PI of collaborating state FMD units and scientists of NIFMD. Total 09 training, 05 demonstration, 10 awareness camp/kisan goshti, 02 animal health camps were conducted. Additional critical inputs like piglets, pregnancy ration, utility crate, calcium supplement, mineral mixture, first aid kits, and routine disinfectant have been distributed among tribal farmers in the operational areas. Total 4093 tribal farmers were benefited through DAPST 2022-23. The activities were highlighted in different levels and digitals.

The state-wise activity plan was designed in discussion with state representatives and executed by constituted team of institute. Several rounds of interactive meetings, field visits and data recordings were carried out for effective monitoring of flagship programs. The institute utilized 99.99% of total allocated budget under the flagship program for the year 2022-2023.

कार्यकारी सारांश

प्रदर्शन, जागरूकता शिविर, किसान गोष्ठी, पशु स्वास्थ्य शिविर, पशुओं के स्वास्थ्य और उत्पादन के रखरखाव के लिए आवश्यक इनपुट वितरण जैसी विभिन्न क्षमता निर्माण गतिविधियों का आयोजन किया गया।

गतिविधियों का समन्वय और कार्यान्वयन संबंधित पीआई, सहयोगी राज्य इकाइयों के सह-पीआई और राष्ट्रीय संस्थान खुरपका मुंहपका रोग के वैज्ञानिकों द्वारा किया जाता है। कुल 09 प्रशिक्षण, पशु स्वास्थ्य शिविर 02 किसान गोष्ठी/जागरूकता शिविर 10 प्रदर्शन 05 का आयोजन किया गया। पिगलेट, गर्भावस्था राशन, उपयोगिता टोकरा, कैल्शियम पूरक, खनिज मिश्रण, प्राथमिक चिकित्सा किट, नियमित कीटाणुनाशक जैसे अतिरिक्त आवश्यक इनपुट को परिचालन क्षेत्र में आदिवासी किसानों के बीच वितरित किया गया है। डीएपीएसटी के 23-2022 4093 माध्यम से कुल आदिवासी किसान लाभान्वित हुए। गतिविधियों को विभिन्न स्तरों और डिजिटल में हाइलाइट किया गया था।

राष्ट्रीय संस्थान खुरपका मुंहपका रोग दो खुर वाले जानवरों की एक महत्वपूर्ण बीमारी यानी खुरपका और मुंहपका रोग पर काम करता है। संस्थान की प्राथमिक अनिवार्य गतिविधियाँ खुरपका मुंहपका रोग के लिए अनुसंधान और विकास करना है, दो प्रयोगशालाओं और 30 सहयोगी राज्य खुरपका मुंहपका रोग केंद्रों के माध्यम से पूरे देश में सेवाएं प्रदान करता है। खुरपका मुंहपका रोग के लिए अनुसंधान गतिविधियों के अलावा, सामाजिक वैज्ञानिक जिम्मेदारी के रूप में विभिन्न आगे बढ़ने की गतिविधियाँ और विस्तार कार्यक्रम चलाए जाते हैं। भारत सरकार के डी०ए०पी०एस०टी० 2022-23 प्रमुख कार्यक्रम 04 राज्य 01 केंद्र शासित प्रदेश में लागू किया गया है। डी०ए०पी०एस०टी० 23-2022 योजनाओं के लिए असम, गुजरात, जम्मू और कश्मीर, झारखंड और उत्तराखंड राज्य / केंद्र शासित प्रदेशों के कुल 15 आदिवासी बहुल जिलों को परिचालन क्षेत्र के लिए चुना गया था। कुल 59 गांवों को इन कार्यक्रमों से विभिन्न तकनीकी बातचीत के माध्यम से लाभान्वित किया गया। लक्षित समुदाय की आजीविका सुरक्षा को सशक्त बनाने के लिए पशुधन इंटरन के उत्पादन और स्वास्थ्य में सुधार के लिए सूचनाएं दी गईं।

राज्यवार गतिविधि योजना राज्य के प्रतिनिधियों के साथ चर्चा करके तैयार की गई और संस्थान की गठित टीम द्वारा निष्पादित की गई। संस्थान ने वर्ष 2022-2023 के लिए प्रमुख कार्यक्रम के तहत कुल आवंटित बजट का 99.99% उपयोग किया।

INTRODUCTION

The ICAR-NIFMD, Bhubaneswar is working on epidemiology and diagnosis of foot and mouth disease across the country through 32 state FMD Centers. The Institute under aegis of ICAR has been actively participating in Development Action Plan for Scheduled Tribes Scheme (DAPST) which is one of the major flagship programs launched by Government of India. The primary objective of the scheme is to provide interventions for welfare, livelihood support and development of Schedule Tribe population. During the year 2022-23, the institute has implemented DAPST activities in total of 4 states (Assam, Gujarat, Uttarakhand and Ranchi), and in Union Territory of Jammu and Kashmir. The respective state Foot and Mouth Disease centers such as CVSc, AAU, Assam; State FMD Collaborative Unit, Gujarat, Department of Animal Husbandry, Government of Gujarat; State FMD collaborative Unit, Rishikesh, Department of Animal Husbandry, Government of Uttarakhand and state FMD collaborative unit, J and K, Department of Animal Husbandry, UT Jammu and Kashmir. The activities for DAPST scheme were planned in sync with the mandate of the institute and are focused on improvement of livelihood and nutritional security of the target population. The objective of the program is to improve livelihood and nutritional security of scheduled tribes.

The activities were designed and implemented in collaboration with PIs and Co-PIs from respective state FMD units addressing problems of the targeted community on account of their uniqueness in inhabitants, socio-economic status, migration trend and comparative backwardness. Under this program, primarily Rabha, Bhil and Kokni, Gujjar, Rudung Kocha and Tharu, Jannasari and Bhotia tribal communities of Assam, Gujarat, Jammu & Kashmir, Jharkhand and Uttarakhand respectively were targeted. The demographic profile with respect to ST population in each state is enlisted in **(Table 1)**. Moreover, the specific need-

based interventions in area of animal health and production were carried out at village level for efficient outreach of activity. Technological interventions were carried out mainly for farm animals like cattle, buffalo, goat, sheep and pig.

Table 1: ST population in operational states and UT

State/ UT	Total Population	ST population	Percentage of ST in respect of total population (%)
Assam	31205576	3884371	12.4
Gujarat	60439692	8917174	14.8
Jammu and Kashmir	12267013	1275106	10.4
Jharkhand	32988134	8645042	26.21
Uttarakhand	10086292	291903	2.89

(Source: Census 2011; <https://censusindia.gov.in>)

Operational area

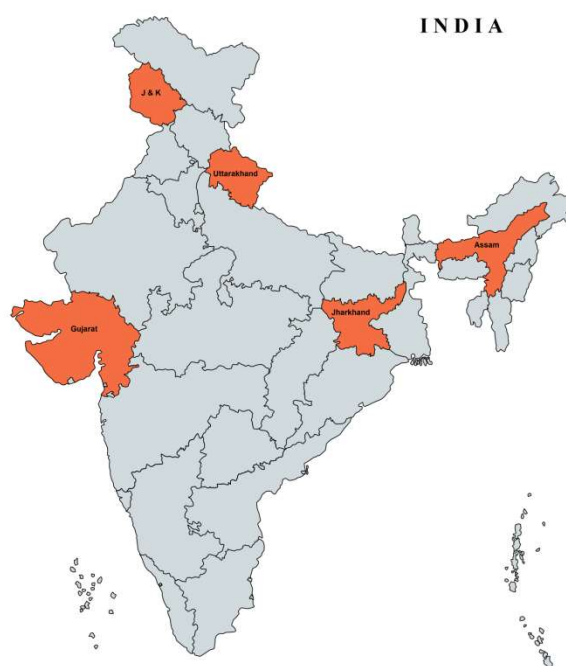
The DAPST activities were implemented in 04 states and 01 UT during 2022-23. Total 15 tribal dominated districts were selected for the interventions from Assam, Gujarat, Jharkhand, Uttarakhand and Jammu & Kashmir. Under this program, tribal population from 59 villages from these states and UT got benefited through various interventions. The details of villages under respective district are summarized in **Table 2**.

Table 2: Operational area of DAPST for the year 2022-23

State / UT	District	Village	Targeted community	Major farm animals in operational area
Assam	Kamrup	<input type="checkbox"/> Medhikuchi	Rabha, Karbi, Bodo and Kachari	Cattle, goat, pig and poultry
		<input type="checkbox"/> Goriaghuli		
		<input type="checkbox"/> Dimoria		
		<input type="checkbox"/> Moirakuchi		
		<input type="checkbox"/> Kahikuchi		
		<input type="checkbox"/> Khanapara		

	Darang	<input type="checkbox"/> Andherighat		
		<input type="checkbox"/> Bishnupur		
	Baksa	<input type="checkbox"/> Tamulpur		
	Golaghat	<input type="checkbox"/> Naojan,		
		<input type="checkbox"/> Saru		
		<input type="checkbox"/> Pathar		
	Nalbari	<input type="checkbox"/> Barama		
Gujarat	Dang	<input type="checkbox"/> Machhani	Bhil and Kokni	Cattle, buffalo, goat and sheep
		<input type="checkbox"/> Ambopadu		
		<input type="checkbox"/> Bhal Khet		
		<input type="checkbox"/> Dagad padu		
		<input type="checkbox"/> Bor Padu		
		<input type="checkbox"/> Kudukas		
		<input type="checkbox"/> Khutal		
		<input type="checkbox"/> Burkhundhya		
		<input type="checkbox"/> Lavariya		
		<input type="checkbox"/> Borigavanth		
		<input type="checkbox"/> Uaga		
		<input type="checkbox"/> Chichinagava thu		
		<input type="checkbox"/> Dhodhulvudu		
		<input type="checkbox"/> Ghodvahul		
Jharkhand	Ranchi	Rudung Kocha		
Jammu & Kashmir	Jammu	<input type="checkbox"/> Taroti	Gujjar, Bakerwal and Gaddies	Cattle, buffalo, sheep and goat
		<input type="checkbox"/> Ladore		
		<input type="checkbox"/> Salehar		
		<input type="checkbox"/> Mattoo		
		<input type="checkbox"/> Nai basti		
		<input type="checkbox"/> Nikki Tawi		
		<input type="checkbox"/> Pakkian		
		<input type="checkbox"/> Pargwal		
		<input type="checkbox"/> Akalpur		
	Kathua	<input type="checkbox"/> Chaloge		
		<input type="checkbox"/> Rehan		
		<input type="checkbox"/> Gatti		
	Rajouri	<input type="checkbox"/> Raipur		
		<input type="checkbox"/> Kamila		

		<input type="checkbox"/> Hathal		
		<input type="checkbox"/> Jhanger		
		<input type="checkbox"/> Lam		
	Reasi	<input type="checkbox"/> Ransoo		
		<input type="checkbox"/> Kothia		
	Samba	<input type="checkbox"/> Rakh Barotia		
		<input type="checkbox"/> Dhaki		
	Udhampur	<input type="checkbox"/> Narsoo		
		<input type="checkbox"/> Darsoo		
		<input type="checkbox"/> Jar Krimchi		
Uttarakhand	Udam Singh Nagar (<i>Aspirational District</i>)	<input type="checkbox"/> Sunkharikala	Tharu, Jannasari and Bhotia	Cattle, buffalo, goat and poultry
		<input type="checkbox"/> Kaundha Khera		
		<input type="checkbox"/> Bannakhera Sari		
		<input type="checkbox"/> Bhagchuri		
		<input type="checkbox"/> Nausar		
	Dehradun	<input type="checkbox"/> Kedarwala		
		<input type="checkbox"/> Thaina		



TECHNOLOGICAL INTERVENTIONS

The baseline survey and field requirement were analyzed to meet the objective of the program. The activities were carried out at respective locations like sensitization program, animal health camp, development and demonstration. In addition, the need based critical inputs for livestock health management were distributed among tribal families at tribal dominated villages in these states, as summarized in **Table 3, Table 4 and Chart-1**.

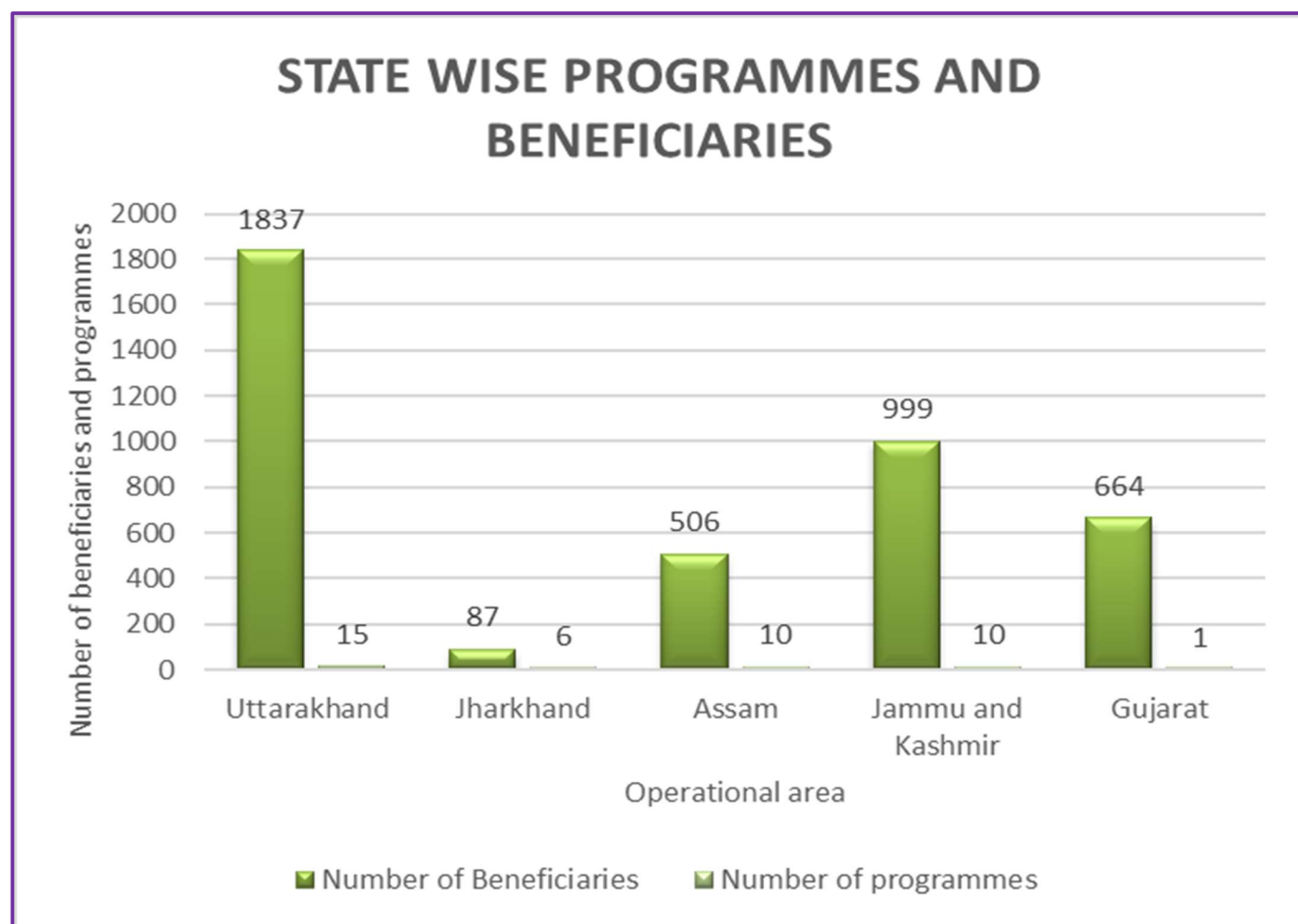
Table 3: Details of interventions carried out during 2022-23

Interventions	Implementing organization	Number of Programme quantity	Number of beneficiaries
Training and skill development programme (09)	□ RRC, AICRP FMD, Deptt. of Microbiology, CVSc, AAU, Assam	4	178
	□ ICAR-NIFMD, Mukteshwar, Uttarakhand	2	52
	Department of Animal Husbandry Govt. of Uttarakhand	1	300
	□ □ State FMD Collaborative Unit, Jammu, Department of Animal Husbandry, J&K	1	30
	• Ranchi	1	26
			Sub total-586
Demonstration conducted (05)	□ ICAR-NIFMD, Mukteshwar, Uttarakhand	2	65
	Ranchi	3	26
			Sub total-91
Awareness camps and Kisan Gosthi (10)	□ ICAR-NIFMD, Mukteshwar, Uttarakhand	1	52
	□ RRC, AICRP FMD, Dept. of Microbiology, CVSc, AAU, Assam	1	36
	Jharkhand	1	25
	• State FMD Collaborative Unit, Jammu, Department of Animal Husbandry, J&K	6	379

	Department of Animal Husbandry Govt. of Uttarakhand	1	300
			Sub total 792
Animal Health camps (vaccination camp) (02)	<input type="checkbox"/> RRC, AICRP FMD, Deptt. of Microbiology, CVSc, AAU, Assam	1	28
	<input type="checkbox"/> ICAR-NIFMD, Mukteswar, Uttarakhand	1	52
			Sub total 80
Inputs distribution for livestock production and health care	All units	83 Piglet	
<input type="checkbox"/> Goat/Piglet			
<input type="checkbox"/> Mineral mixture			83
<input type="checkbox"/> Feed			
<input type="checkbox"/> Calcium supplements			
<input type="checkbox"/> Milk can		Animal Feed 2130 Kg	373
<input type="checkbox"/> Portable Vermibed		Medicine 249 Kg	609
<input type="checkbox"/> Utility carte		Utility crate	143
		Thermometer	30
<input type="checkbox"/> Disinfectant		Spray	17
			Subtotal =1255
Artificial insemination			664
Testing samples of Soil, plant, water, feed, fodder, and livestock	ICAR-DFMD, Mukteswar, Uttarakhand	1	158
Digital outreach	ICAR-DFMD, Mukteswar, Uttarakhand	2	400
Others (mobile advisory Service)	ICAR-DFMD, Mukteswar, Uttarakhand	1 (Personel)	67

Table 4: State wise interventions and beneficiaries

Interventions	State/UT										Total Beneficiaries
	Uttarakhand		Jharkhand		Assam		Gujarat		Jammu and Kashmir		
	No of activity	Beneficiaries	No of activity	Beneficiaries	No of activity	Beneficiaries	No of activity	Beneficiaries	No of activity	Beneficiaries	
Training	3	352	1	26	4	178			1	30	586
Demonstration	2	65	3	26	-	-			-	-	91
Awareness camp and <i>Kisan Gosthi</i>	2	352	1	25	1	36			6	379	792
Animal health camp	1	52	-	-	1	28			-	-	80
Artificial insemination							1	664			664
Inputs distribution	4	549	1	10	2	106			3	590	1255
Testing samples of soil, plant,					2	158					158
Other (digital)	3	467	-	-	-	-			-	-	467
Total	15	1837	6	87	10	506	1	664	10	999	4093

Chart 1: State wise programs and beneficiaries


1. Training and Skill Development Programme

a) Training on scientific management of Pig

The FMD Regional Centre CVSc, AAU, Assam, Guwahati conducted 04 trainings programmes at different tribal dominated villages of Assam with 178 beneficiaries. The topics of trainings broadly included, training on scientific management of pig, Goat farming a profitable entrepreneurship. Resource persons involved in those training programmes were Dr Rajeev Kr. Sharma, Professor cum Officer In-Charge, state FMD laboratory, Guwahati; Dr Pankaj Deka, Assistant Virologist, state FMD laboratory, Guwahati and Dr Arfan Ali, Assistant Professor, Department of Veterinary Microbiology, CVSc, AAU, Khanapara. A total of 178 tribal farmers participated in the said trainings. Also, extension literatures in local language on the relevant topics in respective trainings were distributed amongst the participants. Details are summarized in (Table 5).





b) Training on Capacity building on FMD at tribal dominated villages of Uttarakhand

The State FMD Collaborating Unit, Rishikesh organized three training programs on Capacity Building on FMD at village of **district Udham Singh Nagar (US Nagar), Uttarakhand** in the month of February 2023 under DAPST program. A total of 300 farmers from adjoining tribal villages participated in this program with their queries related to livestock health and production. In the training Dr. Devendra Sharma, PI, Dr. Parasoon Dube, Co-PI, Dr. S. B. Pandey, Chief Veterinary Officer, Dr. Jitendra Kumar, Veterinary Officer. Mr. Ajay Bhatt, Minister of State for Defense of India, Mr. Saurabh Bahuguna, Minister Animal Husbandry participated in the programme.



c) Training on goat housing and Management of infectious disease for animals at Uttarakhand

The ICAR-NIFMD, Mukteswar organized Training Program at villages Sunkharikala and Zhankat of Uttarakhand in the month of March 2023 under DAPST program. A total of 52 farmers from adjoining tribal village participated in this program with their queries related to livestock health and production. In the

training Dr. S.A. Khulape delivered talk on management and control of infectious Animal Disease. Shri Nayan Sanjeev Singh interacted and shared experience for importance of disinfection of Animal Shed for better animal productivity. The program concluded with input distribution in the form of chelated calcium supplement, DCP, potash and liver tonic to improve general animal health.



d) Training on FMD at tribal dominated village of Jammu

The State FMD Collaborating Unit, Jammu organized training on FMD village of Jammu in the month of September 2022. Under DAPST program. A total of 30 farmers from adjoining tribal village participated in this program with their queries related to livestock health and production. In the training Dr. Shobha Gupta, PI/Co-PI, Dr. Heena Sharma, VAS, Dr. Ankur Abrol, VAS, Dr. Rakshanda Bhagat, VAS, Dr. Naresh Gupta, LDO, Dr. D.K. Sharma, CAHO, Dr. Hummera Ilahi, VAS, and Dr. Animka, VAS participated in the program.

e) Training on Capacity building at Ranchi



The State FMD Collaborating Unit, Ranchi organized a three days training on capacity building village of Ranchi in the month of March 2023 under DAPST program. A total of 26 farmers from adjoining tribal village participated in this program with their queries related to livestock health and production.



Table 5: Training details (09 numbers, participants 586)

Sl. No.	Title	Venue	Date and Duration	Participants
1.	Training on scientific management of pig	Hatimuria, Assam	05.06.2022	55
2.	Training and demonstration on FMD	Khanpur, Jammu	28.09.2022	30
3.	Training on goat housing and management	SunkhariKala, Uttarakhand	02.12.2022	37
4.	Goat farming a profitable entrepreneurship	Jayantipur, Assam	09.01.2023	45
5.	Capacity Building training on FMD awareness and Control	Dev Nagar, Uttarakhand	23.02.2023	300
6.	Capacity Building Training	Rudungkocha, Ranchi	02 to 04.03.2023	26
7.	Scientific management of Pigs training	Hatimura, Assam	28.06.22	40
8.	Scientific management of Pigs training	Andherighat, Assam	03.07.2022	38
9.	Training on goat value chain	Kaundha Khera, Uttarakhand	13.05.2022	15

2. Demonstration

One of the FMD network unit and ICAR-NIFMD, Mukteshwar campus carried out 03 demonstrations in various health aspects in tribal dominated villages. Total 91 tribes benefited through these interventions. The details of programme were summarized in **(Table 6)**.

Table 6: Demonstration on animal health

Sl. No.	Theme area	Venue	Date	Participants	Organizer
1.	Hands of training in handling pig taking rectal temperature, maintaining the pig house, marketing disease control bio security measures etc.	Rudung Kocha, Ranchi	02-04.03.23	26	FMD Network unit, Ranchi
2.	Management of infectious disease for farm animals	Zhankat, Uttarakhand	29.03.23	52	ICAR-NIFMD, Mukteshwar
3.	Demonstration of on mineral mixture supplementation to dairy animals	Kaundha Khera, Uttarakhand	13.05.22	13	ICAR-NIFMD, Mukteshwar

a) Demonstration of on mineral mixture supplementation to dairy animals

ICAR-NIFMD, Mukteshwar campus conducted a demonstration programme at Kaundha Khera village, Sitarganj, district Udam Singh Nagar, Uttarakhand on 13.05.2022. A total of 13 tribal farmers participated in the programme.



b) Animal shed disinfection and FMD vaccination in small ruminants

The state FMD collaborating unit, Ranchi organized three demonstrations on feed supplement on pre and post FMD vaccination, deworming effect on FMD vaccination, method demonstration on animal shed disinfection and FMD vaccination in small ruminants at Rudung Kocha village district Ranchi from 02.04.2023 to 04.03.23, three farm visits for hands on demonstration in handling

pig, taking rectal temperature, maintaining the Pig house, Marketing, disease control, biosecurity measures etc.

c) Demonstration on Management of infectious disease for farm animals

ICAR-NIFMD, Mukteshwar conducted a demonstration program at Zhankat village, Sitarganj, district Udham Singh Nagar, Uttarakhand on 29.03.2023. The theme of the demonstration was “Management of infectious disease for farm animals”. A total of 52 tribal farmers participated in the program. Dr. Sagar Ashok Khulape, Scientist delivered talk on management and control of infectious animal diseases. Shri Nayan Sanjeev Singh, Technical Officer interacted and shared experience for importance of disinfection of animal shed for better animal productivity.

3. Awareness Camp and Kisan Gosthi

Awareness camps and kisan gosthi were organized in different location by the units (Table – 7, 8, 9 and 10). The experts shared their field experience on animal experiences on animal husbandry and health care as well as addressed different queries of farmers related to husbandry practice during interaction. Extension leaflets were distributed in many programs.

Table 7: FMD Awareness camps and kisan gosthi at different locations of Uttarakhand

Sl. No.	Village	Block	District	Date	No. of Beneficiaries	Organizer
1.	Zhankat	Sitarganj	U.S. Nagar	29.03.2023	52	ICAR-NIFMD Mukteswar
2.	Dev Nagar	Sitarganj	U.S. Nagar	23.02.2023	300	State FMD Collaborating unit, Rishikesh
Total					352	

Table 8: FMD Awareness camps and kisan gosthi organized by FMD regional Centre, Guwahati at different locations of Assam

Sl.No	Village	Block	District	Date	No. of Beneficiaries
1.	Haldha	Sipajhar	Darrang	04.02.2023	36
Total					36

Table 9: FMD Awareness camps and kisan gosthi organized by FMD regional Centre, Ranchi at different locations of Jharkhand

Sl.No	Village	Block	District	Date	No. of Beneficiaries
1.	Rudung Kocha	Namkum	Ranchi	Sep-22	25
Total					25

Table 10: FMD Awareness camps and kisan gosthi organized by FMD regional Centre, Jammu at different locations of Jammu & Kashmir

S.No	Village	Block	District	Date	No. of Beneficiaries
1	Treen Mayari	Panthal	Reasi	18.10.2022	35
2	Mattal	Tikri	Udhampur	18.10.2022	38
3	Chnni B Rajori	Subderbani	Rajori	24.11.2022	72
4	Rakhbarotia	Vijayput	Samba	29.11.2022	70
5	Rakh Jarogh	Batote	Ramban	19.12.2022	72
6	Jeora Farm	R. S. Pura	Jammu	20.12.2022	92
Total					379

Kisan Gosthi

Organization of Kisan Gosthi

The state FMD collaborating unit, Jammu organized two kisan gosthi on 14.01.2023 at Thakra and Jattan Di Kothey village of block Khour district Jammu. A total number of 55 farmers participated in the programme.

4. Input distribution cum Sensitization programme

a) Distribution of spray pumps, strips of dewormers weighing, containers and phenyl disinfectant

The state FMD collaborating unit, Jammu organized an input distribution camp at Panchayat Sundla block Khoon of the Udhampur district, Jammu on 18.03.2023. A total of 34 farmers (30 males and 04 females) participated in the camp. The crucial inputs for managing the health of livestock were supplied to the tribal communities based on need. Total 17 spray pumps, 50 strips of dewormers weighing 3 g each and 08 containers of phenyl disinfectant weighing 5 L each provided as inputs. Input distribution camp was organized on 19.12.2022 at Rakh Jarogh, Batote village district Ramban. Total numbers of 72 farmers participated and on 20.12.2022 at Jeora Farm, R. S. Pura district Jammu, total 92 farmers participated. In the camps medicines and pamphlets regarding FMD were distributed.

b) Distribution of utility crate and calcium

ICAR-NIFMD, Mukteshwar organized input distribution camp at village Sunkharikala, Kaundha Khera district Udham Singh Nagar, Uttarakhand on 28.04.2022 and 02.12.2022, total 157 and 30 farmers participated in the camp respectively and utility crates and calcium were distributed to farmers.

c) Distribution of Piglet, feed, mineral mixture and handbook

The state FMD collaborating unit, Assam organized input distribution camp on 28.06.2022, a total of 40 HDK-75 variety (Hampshire 75% and Desi 25%) Piglets, 17 quintal feeds, 40 Kg mineral mixture and 40 numbers handbook on commercial Pig farming (Local language) were distributed amongst 40 tribal

families of Hatimura village, Tamulpur, Baksa district. Before distribution, a training programme was conducted, where Dr. Pankaj Deka, Assistant Virologist and Dr. Arfan Ali, Assistant Professor delivered lecture on scientific management of pigs and on 03.07.2022 at village Andherighat of Darrang a total of 33 HDK-75 variety Piglets, 15 quintal feed, 33 Kg mineral mixture and 33 numbers handbook on commercial Pig farming were distributed. At village Jayantipur, district Darrang, 30 piglets along with feed and mineral mixture were distributed

5. Artificial insemination with sex sorted semen

The state collaborating unit Gujarat carried out artificial insemination with sex sorted semen under headship of Dr. Amit Kanani and Dr. Vartika Chandra and total 664 numbers of farmers benefitted.

6. Baseline survey

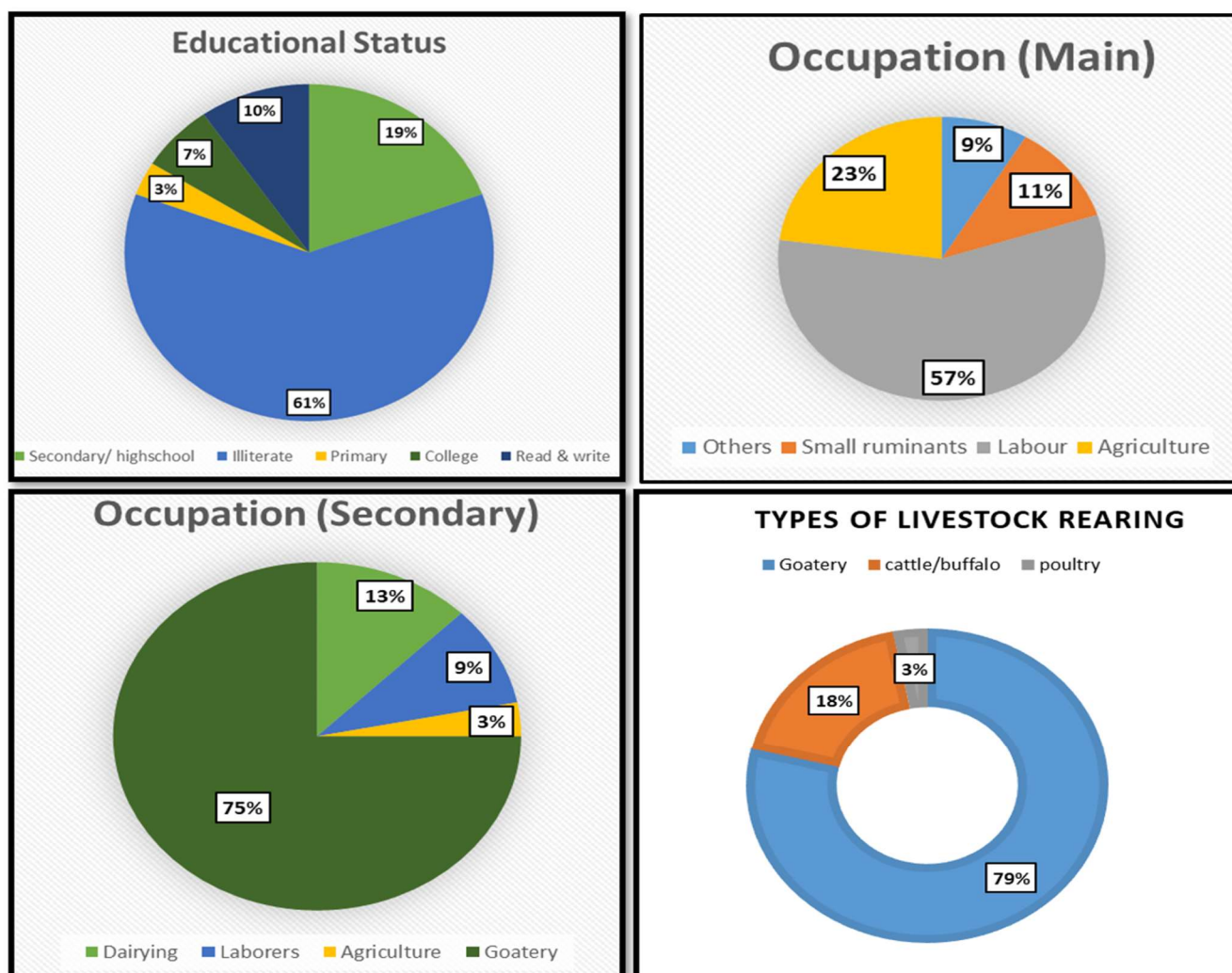
a) Baseline survey among ST stakeholders at Gothabania and Podapada village of Haripur Gram Panchayat, Khordha District, Odisha

ICAR-NIFMD, Bhubaneswar organized baseline survey among ST stakeholders under DAPST at Gothabania and Podapada village of Haripur Gram Panchayat, Khordha District, Odisha. The percentage of ST community in Haripur GP was 15.03% as per 2011 census. The programme was organized with a long-term vision for the upliftment of scheduled tribe population of the panchayat. The survey was conducted by a team of scientists of ICFMD, namely Dr T Das, Dr M Sahoo and Dr. S Das along with one young professional and one contractual staff of the institute. A total of 32 stakeholders were covered during the survey and

collected necessary information about their livelihood valued by various animal husbandry practices.

The majority of the people belonged to the ST community. Most of the farmers were illiterate, others attended secondary/high schools, whereas only 3 persons were found who could read and write. They were commonly marginal/landless farmers working on others' land earning something for their family.





The majority of the families were daily labourers (57%) earning their livings as wage workers. Out of 23, 8 households (23%) were primarily dependent on agriculture; also few (11%) were engaged in small ruminants while rest (9%) depended on government jobs as their primary source of income.

The villagers depend on secondary sources of income generation for their livelihood, involved in various activities like goatery (75%), dairying (13%), labour work (9%) and agriculture (3%).

The people of Haripur GP rear different livestock and poultry. As a secondary source of income, the livestock reared by them plays an important role to their livelihood. During the survey it was found that 26 out of 32 households were

rearing a total of 191 goats; 6 out of 32 were practising dairying having a total 35 cattle. On the other hand, 1 out of 32 households were rearing 5 poultry in their backyard. The livestock and birds reared by the farmers mostly belonged to indigenous non-descript groups.

The annual income of the households was between 10-40 thousand. In most of the cases the family size was medium to large with 5-10 members, where majority were children below 16 years old. The children attaining the age for schooling used to go to schools for their formal education. The overall health of these families rearing different livestock was sound. They occasionally had milk, meat and fish as source of protein. Most of the farmers were rearing livestock in semi-intensive way where they provide shelter to them at night time. During the daytime the animals were freed and allowed to graze and browse in the open fields.

The people from ST communities practised traditional knowledge in their day-to-day life. Most of the farmers used to apply mustard paste in case of PPR. In case of diarrhoea, they used to tie cotton thread to the hind leg of the affected animals while some used to feed bamboo leaves.

b) Baseline survey among ST stakeholders at Angarapada Gram Panchayat, Jatni block of Khordha District, Odisha

ICAR-NIFMD-ICFMD organized one day baseline survey on 09/02/2023 among ST stakeholders under institute's DAPST scheme at Angarapada Gram Panchayat, Jatni block of Khordha District, Odisha. The percentage of ST community in Haripur GP was 26.02% as per 2011 census. The programme was organized with a long-term vision for the upliftment of scheduled tribe population of the panchayat. The survey was conducted by a team of scientists of ICFMD, namely Dr M Sahoo and Dr T Das along with one young professional and one contractual staff of the institute. A total of 25 stakeholders were covered during the

survey and collected necessary information about their livelihood valued by various animal husbandry practices.



The majority of the people belonged to the ST community. Most of the farmers were illiterate, others attended primary & high schools, whereas only 2 persons were found who could read and write. They were commonly marginal/landless farmers working on others' land earning something for their family.

The majority of the families were daily labourers (45%) earning their livings as wage workers. Out of 25, 7 households (24%) were primarily dependent on dairying; also few (21%) were engaged in agriculture while rest (10%) depended on small ruminants as their primary source of income. The villagers are relying upon secondary sources of income generation for their livelihood, involved various activities like dairying (38%), goatery (31%), labour work (27%) and agriculture (4%).

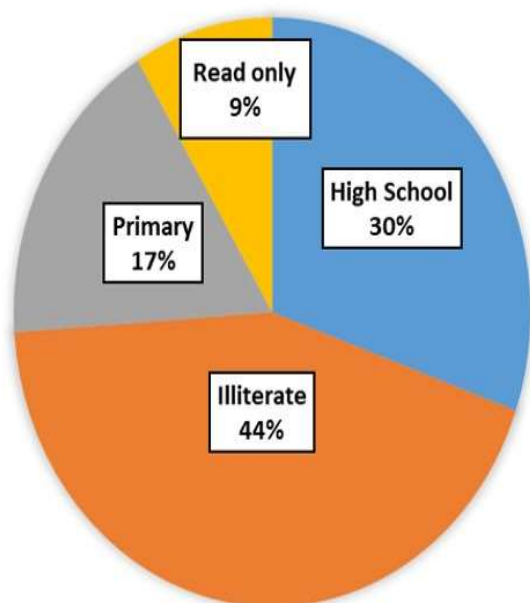
The people of the Angarapada village rear different livestock and poultry. As a secondary source of income, the livestock reared by them plays an important role

in their livelihood. During the survey it was found that 17 out of 25 households were rearing a total of 117 cattle; 11 out of 25 were practising goateries having a total 80 goats. On the other hand, 1 out of 25 households was rearing 10 poultry in their backyard. The livestock and birds reared by the farmers mostly belonged to indigenous non-descript groups. Only one household was rearing a total of 5 improved cross-bred cattle considering dairying as the primary occupation. Most of the farmers were rearing livestock in semi-intensive way where they provide shelter to them at night time. During the daytime the animals were allowed to graze and browse in open fields.

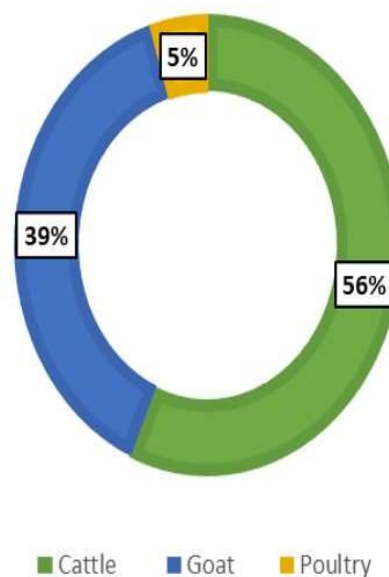
The annual income of the households was in between 10-40 thousand. In most of the cases the family size was medium to large with 5-10 members, where majority were children below 16 years. The children attaining the age for schooling go to schools for their formal education. The overall health of these families rearing different livestock is sound. They occasionally take milk, meat and fish as source of protein.

The people from ST communities practised traditional knowledge in their day-to-day life. Most of the farmers used to apply turmeric paste in case of wound injury. In case of diarrhoea, they used to feed affected goat with burned excreta and also tie cotton thread to hind leg in order to cure the affected animals. To cure lesions around mouth of the affected animals they usually apply mustard seed paste.

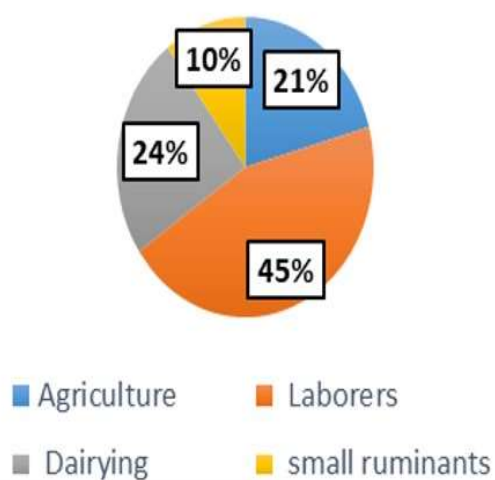
EDUCATIONAL STATUS



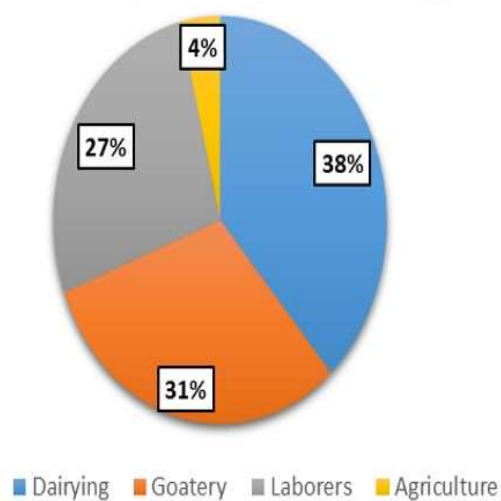
Types of livestock rearing



Occupation (Main)



Occupation (Secondary)



MONITORING AND EVALUATION

The activities under DAPST were coordinated and monitored by constituted local team at the institute (**Table 11**). The Principal Investigators and Co-Principal Investigators of five state FMD collaborating units were actively engaged in implementing the program in different states. The villages were selected for technological intervention after baseline-demographic survey and constraint analysis. Total seven virtual meetings were conducted to evaluate the performance of activities at different locations. The data recording, details of beneficiaries, media coverage and quarterly reporting to Council were carried out as a part of monitoring and evaluation.

Table 11: Local monitoring and evaluation team of the Institute

Sl. No.	Name of the Scientist	Role as
1.	Dr C. Jana, Pr. Scientist, ICAR-NIFMD, Mukteshwar	Nodal officer
2.	Mr Nayan Sanjeev Singh, ICAR-NIFMD, Mukteshwar	Nodal officer (From Dt. 10. 11. 2022 to Dt. 16. 03. 2023)
3.	Dr. Tareni Das, Scientist, ICAR-NIFMD, Bhubaneswar	Nodal officer (Since Dt. 17.03.2023)
4.	Dr Sagar Ashok Khulape, Scientist, ICAR-NIFMD, Mukteshwar	Member
5.	Dr Aditya Prasad Sahoo, Sr. Scientist, ICAR-NIFMD, Bengaluru	Member
6.	Dr J.K. Biswal, Sr. Scientist, ICAR-NIFMD, Bhubaneswar	Member
7.	Dr S. Mallick, Scientist, ICAR-NIFMD, Bhubaneswar	Member
8.	Mr. Tara Kumar, AAO, ICAR-NIFMD, Bhubaneswar	Member

BUDGET UTILIZATION

The Institute received Rs 15.00 lakhs as total budgetary allocation under DAPST for the year 2022-23. The Institute utilized 99.99 % of total allocated scheme budget during the financial year 2022-23.

Table 11: Total allocation for the year 2022-2023 (as released up to 31.03.23) = Rs. 15.00 Lakhs

Sl. No.	Name of Centre	Utilized as on 31.03.23 (Rs. In Lakh)
1.	Guwahati FMD Regional Centre	200000
2.	State FMD Collaborating Unit, Gujarat	150000
3.	State FMD Collaborative Unit, Jammu, J&K	150000
4.	State FMD Collaborative Unit, Ranchi	150000
5.	State FMD Collaborative Unit, Risikesh, Uttarakhand	150000
6.	ICAR-NIFMD, Aragul, Bhubaneswar	699885
	Grand Total	1499885
	Utilization (%)	99.99

Activity Photographs of Ranchi Unit



Activity Photographs of Assam Unit



Activity Photographs of Jammu Unit



Activity Photographs of ICAR-NIFMD Mukteshwar



Contact details of Collaborating Centre

ICAR-National Institute on Foot and Mouth Disease

Arugul, Jatni, Khorda, Odisha

Phone: 06742601104; Website: nifmd.icar.gov.in

ICAR- National Institute on Foot and Mouth Disease

Mukteswar, Nainital 263 138, Uttarakhand

Phone: 05942-286004

Address of state FMD Collaboration Unit, Gujarat

FMD Typing Scheme

Department of Animal Husbandry, Govt. of Gujarat

First Floor, Pashupalan Sankul Makarba,

Ahmedabad-380051 (Gujarat)

Phone: 079-26823185

Address of state FMD Collaboration Unit, Assam

Regional Research Centre,

ICAR-AICRP on FMD, College of Veterinary Science

Khanapara, Assam Agriculture University,

Guwahati- 781022, Assam

Email: rreghyfmd@gmail.com

Address of state FMD Collaboration Unit, Jammu

Epidemiological Unit, Directorate of Animal Husbandry Department,

Jammu and Kashmir

Email: aicrpjmu@gmail.com Phone: 01912502922

Address of state FMD Collaboration Unit, Rishikesh

State FMD Collaborating Centre,

Uttarakhand, Rishikesh, Dehradun-249203

Department of Animal Husbandry Government of Uttarakhand

Address of state FMD Collaboration Unit, Ranchi

Birsa Agricultural University,

Kanke, Ranchi – 834006,

Jharkhand

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**ICAR-National Institute on Foot and Mouth Disease
International Centre for Foot and Mouth Disease
Bhubaneswar (Odisha)**