



Sphere India
National Coalition of Humanitarian Agencies in India

Workshop on MAINSTREAMING ANIMAL ISSUES IN DRR

Release of National Guidelines on Management of Animals in Disasters

India International Centre,
New Delhi
22nd June, 2022



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SUMMARY

Agriculture, with its allied sectors, including livestock, is the largest source of livelihood in India. Around two-thirds of our population live in rural areas and India's large livestock population is central to the country's agriculture and its village economy. The rural population have a special bonding with animals which is always reflected during disasters. While the working animals play an important role in the livelihood of vulnerable communities, their needs are overlooked and unaddressed in disasters. It has been mentioned in the Flood Guidelines of NDMA that on average over 94,000 animals perish in floods alone every year.

While the Disaster Management Act, of 2005 is a very comprehensive Act, there is no mention of animals/ livestock nor of the Animal Husbandry Department anywhere in the Act although livestock is a valuable asset for the rural agriculture-based population. The Sendai Framework of DRR (2015-30), to which India is a signatory, also lays specific emphasis on commitment to strengthening & protection of livelihood and productive assets including livestock and working animals etc.

In the light of the above, it is imperative to initiate a well-chalked-out strategy to ensure that the issues relating to animals in disasters get appropriate attention and their rightful place in the disaster management framework in the country. With this aim the Policy Perspectives Foundation and Sphere India organised a national-level workshop under the aegis of the Ministry of Animal Husbandry (AHD), National Disaster Management Authority (NDMA) and Veterinary Council of India (VCI) at the India International Centre, New Delhi on the 22nd June 2022.

The workshop also featured the release of '**Multi-Stakeholders Coordination Handbook for Management of Animals in Disasters**', at the national level, which is an initiative of Sphere India.

The handbook is envisaged to be an operational guide/ manual for coordination during emergencies. It includes guidance and advice on how different stakeholders and agencies can work together to prioritize Animal Management during disasters. This handbook covers guidelines for animal-centric technical interventions during emergencies which includes human-animal rescue, safe evacuation and transportation, emergency feed, water & veterinary support. It also covers national and international experiences. This handbook shall be used by the various agencies and central & state authorities working on Animal Protection across the country.

INAUGURAL SESSION

In the inaugural session of the workshop on Mainstreaming Animal Issues in DRR, the welcome address was presented by **Mr. P.C. Haldar**, President, PPF and the keynote address was presented by **Mr. K.M. Singh**, Vice President, PPF. Experts from the Animal Management and DRR sectors participated in the workshop. **Mr. Vikrant Mahajan**, CEO, of Sphere India, presented his views on **Multi-stakeholder Coordination**.

The chief guest for the occasion was **Shri. Atul Chaturvedi** (IAS), Secretary, Animal Husbandry & Dairying, Ministry of Fisheries, Animal Husbandry and Dairying (MoFAHD). He released the '**National Guidelines on Management of Animals in Disasters**'. The other distinguished members who graced the occasion included the likes of **Mr. Upamanyu Basu**, Joint Secretary Ministry of Animal Husbandry; **Mr. Kamal Kishore**, Member Secretary, NDMA; **Dr. Krishna S. Vatsa**, Member, NDMA; **Dr. Vinod Bhatt**, Secretary, Veterinary Council of India.

Mr. P C Haldar, *President, PPF*, in his welcome address, stated that a new phase of working has been started post-pandemic. The Centre for disaster reduction of the PPF is the chief force behind today's event. The National Plan released by the animal husbandry department was the first by any department and was acknowledged at the Mexico International Conference as being the first by any country. Now we are in the process of institutionalizing the process. We need much greater cooperation between the centre and state as well as multiple stakeholders.

Shri. K M Singh, *Vice president, PPF*, in his keynote address opinionated that along with the members from the NDMA, participation from state government representatives is also very important. India is an agrarian society and animals constitute a large part of their livelihoods as livestock. In the past few years, there had been a loss of animals during the disasters but the disaster management act lacks the focus on animals. There is a need to take some steps for the protection of animals. In 2005-06 post-Katrina, the United States of America amended their act and now the animal's needs had been acknowledged worldwide. SENDAI framework also recognized it. A lot of work had been done by the government, but still, coordination among various stakeholders is missing. In the year 2000, World Animal Protection (WAP), conducted an exercise to identify the gaps in the management of animals during emergencies and identified the gaps such as inadequate human resources, lack of training resources, absence of disaster management in the plans, and lack of farmers' involvement and knowledge institutions.

He mentioned the various decisions by the NDMA for improving the animal's cause in the country, it included the establishment of VERU, for skill development of students, para-vets etc and awareness generation. Currently, there are 6 VERU units in the country. The second decision of NDMA included the training of NDRF personnel. Till 2018, 300 trainers had been trained but it needs to be revived post corona; also need to focus on training of SDRF. The third decision was the development of one training module by NIDM on the same and the last decision was the effective management of animals during emergencies. He also spoke about Uttarakhand's high court judgement and concluded by saying that in today's conference AHD, NDMA and veterinary dept. are there along with six state representatives. He wishes for the success of this endeavour which will pave a new way for animal management during emergencies.

Shri. Atul Chaturvedi (IAS), *Secretary, Animal Husbandry & Dairying, MoFAHD* started his address by thanking his former teachers. He shared that earlier when he was the CEO of the State Disaster Management Authority (SDMA), Assam, he did a lot of work in the sector. He acknowledged the size and contribution of the sector to the growth of the nation. Since 2014 its contribution is constantly growing. He stated that the manufacturing sector grows at 4-4.5 % and the agriculture sector grows at 2 % but the DRR sector is growing at the rate of 8 %. The exports of buffalo and fish are roughly estimated to be INR. 70, 000 crores. This sector is known as the ATM for the farmers. The animal holding in the country is 2-5 animals per family. It is one of the areas that work for disaster mitigation for the farmers and helps them to sustain themselves during and after floods. He mentioned one study conducted by MANAGE (National Institute of Agricultural Extension Management), which stated that farmers who own livestock in addition to agriculture never commit suicide. We need to invest in disaster preparedness for this sector and disaster risk mitigation. Also, the animal diseases front is lagging behind and needs utmost attention. They are in the process of revising the first disaster risk reduction plan, 2016. Their department releases a lot of advisories on the sector. Another important aspect is the emergence and re-emergence of biological diseases and if the animals are not healthy then the humans also cannot stay healthy. For the wildlife and domesticated animals, we need preparedness on animal health because the food and nutrition come from there and it affects the health of the country and the economy. They are working with Bill and Melinda Gates Foundation (BMGF) and the World Bank (WB) on the framework and platform for animal health, human health and wildlife health. They are in the process of digitizing the whole canvas of animal management, including the population of the 5 species: cattle buffalo, pigs, goats and sheep and developing the **National Digital Livestock Mission**. The Animal Pandemic Preparedness initiative is still missing. India can take lead as we have the largest livestock population.

There is a need for Ecosystem-coordination in transboundary issues so that the diseases in animals do not spread rapidly. The last aspect shall be vaccine development and R&D on it. India can lead the path and become a world leader in it.

Mr. Vikrant Mahajan, *CEO, Sphere India*, mentioned the importance of livestock in the world and their protection during disasters. India had made a strategic lead, post Plan 2019 and mainstreamed animals across the country and its section 2.5 mentions livestock and wildlife. It shows the commitment of the government to animal welfare. We have inherent community strength and need to focus on them also. He mentioned the name of the organizations working with animals such as Donkey Sanctuary, Heifer International etc. There is a need to mobilize stakeholders. In future, there are plans to work in collaboration with NIDM, and build capacity. The resources from other organizations such as Amul, Mother dairy, etc can be mobilized.

Mr. Kamal Kishore, *Member Secretary, National Disaster Management Authority (NDMA)*, mentioned the sector's contribution to the economy. He stated that the father of our nation, Gandhi ji, mentioned that society is valued by the way his animals are treated. His key point of discussion included that the key to success is a community-based approach, where animals are part of the household. We need to empower the families in their own ways. Improved early warning systems need to be in place so that each family knows what needs to be done during a disaster. The capacity of NDRF, SDRF and AAPDA Mitra needs to be built along with volunteers. We need to focus on the wild animals and build upon the existing knowledge.

TECHNICAL SESSION

RELEVANT INTERVENTIONS FOR ANIMAL CARE IN DRR

Dr Krishna S. Vatsa, *Member, National Disaster Management Authority*, chaired and moderated the session. He focused the discussion on '**Animal Care and Protection in Disaster Management**'.

KEY DISCUSSION POINTS:

- During the Latur earthquake in 1993, 15,000 animals perished along with 8,000 human beings.
- People tie their animals next to the kitchen and it resulted in huge losses. It happened in the 2005 floods in Mumbai, large Tabela (stable) industry was lost.
- The Yadav community was running the industry and they faced economic as well as emotional loss.
- Our care and support for the animals improve the local economy and well-being. Large-scale floods lead to large-scale animal losses.
- He mentioned that we have serious policy anomalies and it is leading to such huge losses.
- We do not have preparedness for floods, it needs to be corrected in terms of rescue, raised platforms and volunteer training.
- Animal rescue is a specialized function, and there is a requirement for response, recovery and mitigation support.

Dr. P Kumaravel, *Dean, Veterinary College & Research Institute, Tamil Nadu & VERU South Zone Coordinator*, spoke on '**Strengthening Institutional Mechanisms & Veterinary Emergency Response Units (VERU) for protecting animals in emergencies**'. He mentioned that the concept of one health including animals and humans is very crucial and VERUs play an important role in this.

KEY DISCUSSION POINTS:

- VERUs play important role in attending to the animals. It is focused on training the students of disaster management and veterinarians.
- He shared the experience of TANUVAS, where the coordinators go to the field and conduct rescue missions. They have a BLOCK course, skill-based training and simulation exercises for the students. They conduct capacity-building programs for NDRF, and teaching faculty.
- In the case of hydrological disasters and fire accidents, special guidance and training are required for handling the animals.
- They also develop Standard SOP for state disaster plans. His VERUs played a unique role during the Chennai floods. They also work on the empowerment of first responders (rural youth training), and multi-purpose evacuation shelters (MPES).
- The women in the household are responsible for taking care of the animals such as feeding, bathing, milking, and for marketing of produce, therefore women empowerment is required for animal empowerment.

Dr. Pankaj Kumar, *Head Dept. of AH Extn & O/C VERU, Bihar Veterinary College*, spoke on the '**Capacity Building of Veterinarians in Management of Animals in Emergencies**'. He mentioned the genesis of the protection of animals during disasters, especially in north Indian states.

KEY DISCUSSION POINTS:

- In the year 2009 after the KOSI floods, Bihar college established the first VERU in collaboration with WAP.
- They started training for capacity building for multiple stakeholders across the country. Post-disaster intervention is very important for marginalized rural communities. The VERU was the perception of the state of Bihar.
- The VERU objectives include training students, livestock owners, and Animal Husbandry Department (AHD) officers.
- He mentioned the VERU training modules for students which included 14 sessions. He also mentioned the training modules for the Animal Husbandry Department officers. It comprises a 4-day training module including 17 modules.

Shri Manoj Yadav, *DIG Training, NDRF* presented on ***Capacity Building of Responders for Swift Rescue of Animals in Disasters***. He stated that NDRF is about operations on the ground and discussed the challenges faced during such operations;

KEY DISCUSSION POINTS:

- He shared his real-time experiences during the Kashmir floods where there were huge losses.
- He also mentioned the physical, social and economic impacts. He also talked about the post-disaster effects in terms of carcasses disposal and health-related issues.
- 198 million livestock are prone to floods annually and a similar number is affected by droughts. He discussed the role of NDRF during disasters, rescue operations, and evacuation.
- The rescuers are trained professionally for 19 weeks of training across the country. Familiar Exercise (FEMEX) is for the awareness of the community and school children.
- Till now 67 lakhs people and 11 lakhs children had been sensitized.
- He also shared the challenges faced before, during and after the disasters. It included identification of safe location, stocking and recovery routes.

PRESENTATIONS: KERALA, RAJASTHAN AND ASSAM

Dr. Sekhar L. Kuriakose, *Member Secretary, Kerala State Disaster Management Authority*, discussed the role of NGO involvement, challenges in the inclusion of change theory in risk reduction planning and creating a network of trained cadre. He shared many local-level initiatives during the course of his presentation which includes the involvement of PRIs, management of snakes, etc.

Dr. Anand Sejra, *Additional Director, Department of Animal Husbandry, Govt. of Rajasthan* shared the action plan of the state government during droughts. He said that their state has the second-largest livestock population in India including 1.39 crores of cattle, 1.36 crores of buffaloes, 17 lakhs sheep, 2.08 crores of goats and 2.13 lakhs camels. They make arrangements for fodder depots and cattle camps and also organize mass vaccination of the animals on regular basis.

Mr. Poorva, *Secretary, DAHD, Govt. of Assam* shared about the Issues & Challenges, possible solutions and way forwards to Animal inclusive Disaster Management with respect to the state of Assam. The key highlights of their AiDRR plan included boat clinics, mobile veterinary units, livestock insurance and low-cost shelters.

VALEDICTORY SESSION

Dr. Monika Gupta, *Senior. Veterinary Officer, Govt. of UP*, led the discussion on animal management during emergencies. She informed that:

- VERU is a great initiative and shared one of her experiences from north-eastern regions where people refused to leave their houses without their poultry animals. She thanked NDRF for cooperating with them.
- There is a need for a multi-disciplinary inter-sectoral approach to handling animals during disasters. Disaster management is a state subject and so is animal management.
- The scheme called “Pashu-Mitra” was very good and it can be combined with “Aapda Mitra” and can be renamed “Pashu-aapda Mitra”.
- Discussion on transboundary diseases and transboundary zoonotic diseases is missing during state coordination.
- We need to work with the Ministry of Environment as it is the nodal ministry for wildlife. We need to focus on sharing and highlighting the success stories for animal protection and rescue.
- Traditional knowledge about animals is very important and is currently missing from the universities also. It will add to the technological knowledge.
- We can coordinate with NIDM for skill-based knowledge sharing.

Dr. Vinod Bhatt, *Secretary, Veterinary Council of India* gave the special address. He stated that we are now in the recovery phase of CORONA which had pushed us to the corners. It questioned our preparedness for disasters.

- He mentioned that many times we are helpless because we were not prepared for the preparedness.
- The veterinary council of India is enacted by the parliament and it monitors veterinary education in the country.
- It is the right time to make some guidelines in the graduate level syllabus for students to prepare for the challenges.
- The ground reality is very different and we need to plan our education guidelines on the same.
- There is a need for rapid maintenance of the preparedness plans in a professional manner.

Mr. Upamanyu Basu, *Joint Secretary, Ministry of AHD*, addressed the valedictory session by summarizing the proceedings of the workshop. He highlighted that when there is a call for action all you need is your heart to respond to any emergency situation.

- He recommended that the VERU course should be part of the second-year university program. There is a lack of coordinated efforts on the ground.
- He is heading the largest vaccination program for animals for the normal as well as zoonotic diseases (that can be transferred from humans to animals).
- We need to have more capacity building, though it is in very limited states but it is required nationwide including wild animals.
- Wild animals have inbuilt disease resistance in themselves.
- We need political support, bureaucratic support and people’s commitment to recovery and disaster preparedness.

- The animal vaccination continued even during the pandemic. Strengthening the legal frameworks is very much required.

The vote of thanks was presented **by Mr. KM Singh**, *Vice President, PPF*, and expressed his gratitude to all the speakers and participants who had joined in person and virtually.

KEY RECOMMENDATIONS

- There is a need for a broad policy framework and community-based approach for animal care and protection, state-level interventions, setup of community-level infrastructure for animals and develop technical capacities for animal care.
- To promote capacity building and training for the empowerment of first responders (rural youth training), community representatives, PRI's and setting up of multi-purpose evacuation shelters (MPES).
- There is a requirement for wildlife protection training. Training needs to be customized as per region specifics based on the agro-climatic conditions.
- An awareness program is one of the key solutions to animal-inclusive disaster risk management.
- Quick-release of compensation to affected livestock owners under SDRF norms.
- Provisions by the state Animal Husbandry Department for the development of low-cost livestock shelters.
- Post Disaster Needs Assessment (PDNA) for animal loss should also be conducted with the PDNA's for other sectors. There should be a Rescue and Recovery team in this sector.
- The number of Veterinary Emergency Response Units (VERU) should be established across all the veterinary universities and colleges across the country. In the existing colleges, it needs to start at the second-year university program.
- For disaster preparedness, response and rescue of the animals during emergencies, there is a requirement for multi-sectoral coordination between the Animal Husbandry Department at the centre and states, SDMA's, Veterinary Institutes and NDRF.

ANNEXURES

AGENDA OF THE WORKSHOP:

Welcome Address	Shri PC Haldar, President, PPF
Key Note Address	Shri KM Singh, Vice President, PPF
Multi-stakeholder Coordination	Shri Vikrant Mahajan, CEO, Sphere India
Address by the Guest of Honour	Shri Kamal Kishore, Member, NDMA
Address by the Chief Guest, Release of 'National Guidelines on Management of Animals in Disasters': by Sphere India	Shri Atul Chaturvedi, Secretary, MoFAHD
Vote of Thanks	Sphere India
11.20-13.20: Main Session	
Relevant Interventions for Animal Care in DRR	Dr. Krishna Vatsa, Member, NDMA
Strengthening Institutional Mechanisms & Veterinary Emergency Response Units (VERU)	Dr. P Kumaravel, Dean, Veterinary College & Research Institute, Tamil Nādu
Capacity Building of Veterinarians in Mgt. of Animals in Emergencies	Dr. Pankaj Kumar, Head Dept of AH Extn & O/C VERU, Bihar Vet College
Capacity Building of Responders for Rescue of Animals in Disasters	Shri Manoj Yadav, DIG Training, NDRF
Presentation: Kerala	Shri Shekhar L. Kuriakosa, Kerala State Disaster Management Authority
13.20-14.00: Valedictory Session:	
Discussion	Dr. Monika Gupta, Sr. Veterinary Officer, Govt. of UP
Special Address	Dr. Umesh Sharma President, Veterinary Council of India
Valedictory Address	Shri Upamanyu Basu, Joint Secretary, Min of AHD



Workshop on
**MAINSTREAMING ANIMAL ISSUES IN
DISASTER RISK REDUCTION**
RELEASE OF NATIONAL GUIDELINES ON MANAGEMENT OF ANIMALS IN DISASTERS
In Association with the Ministry of Fisheries, Animal Husbandry and Dairying (MoFAHD),
National Disaster Management Authority (NDMA) and Veterinary Council of India (VCI)

22nd June 2022
09:30AM - 02:30 PM

**Seminar Hall I, II & III, India
International Centre, New Delhi**



Shri. Atul Chaturvedi
Secretary, Animal Husbandry & Dairying, MoFAHD



Shri. Kamal Kishore
Member Secretary, National Disaster Management Authority



Dr. Krishna S. Vatsa
Member, National Disaster Management Authority



Dr. Umesh Sharma
President, Veterinary Council of India



Shri. Upamanyu Basu
Joint Secretary, Department of Animal Husbandry & Dairying



Shri. Ashutosh AT Pednekar
Principal Secretary, Disaster Management, Rajasthan



Dr. Sekhar L. Kuriakose
Member Secretary, Kerala State Disaster Management Authority.



Dr. P Kumaravel
Dean, Vet College & Research Institute, Tamil Nadu & VERU South Zone Coordinator



Dr. Pankaj Kumar
Head Dept of AH Extn & Head of VERU, Bihar Vet College



Shri. Manoj K Yadav
DIG, TIG Training, NDRF



Shri. P C Haldar
President, Policy Perspectives Foundation



Shri. K M Singh
Vice-President, Policy Perspectives Foundation



Shri. Vikrant Mahajan
CEO, Sphere India



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For any Queries/Assistance Contact: 8750396488 / 7678220346



LIST OF PARTICIPANTS

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1	Akash Maheshwari	Self interest	Technical services- Veterinary
2	Amit	GEMS	Advisor
3	BANAVATH Pravallika	Animal husbandry	Veterinary doctor
4	Brig JS Dharamadheeran	Brooke India	CEO
5	Chirumamilla mallaiah	Animal husbandry department	Veterinary assistant surgeon
6	Dr Dinesh S Mohite	Federation of Indian Animal Protection Organizations FIAPO, New Delhi	Head- Animal Health & Welfare
7	Dr K.Bhargavi Sathya	Animal Husbandry Department	Veterinary Assistant surgeon
8	Dr Rajesh	Animal Husbandry	Veterinary Assistant Surgeon
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10	Dr Sarita Negi	Brooke India	Team Leader Extension and Training
11	Dr. Amir Amin Sheikh	IIVER, Rohtak	Assistant Professor
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20	R. SURESH	TANUVAS	ASSISTANT PROFESSOR
21	Ranjan Kumar	National Institute of Disaster Management	Project Associate
22	Santosh Kumar	NIDM	Head, GIDRR
23	SHANEEB EDANATT	PONDICHERRY UNIVERSITY	master student
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25	Sirjana Nijjar	Federation of Indian Animal Protection Organisations	Director Programs
26	Sunil kumar mandal	Manav vikas sansthan. Khairi	Secretary
27	Surjeet Singh Guleria	BSF	Dy Inspector General
28	Vishala	Scorpio Post NAT	Journalist
29	Vivek sharma	NIDM	Young Professional
30	Aamir Ali	Disaster Management	Director
31	Aaqib Ashraf Bhat	Suresh Gyan Vihar University Jaipur Rajasthan	Research Scholar
32	Ab Rashid Malik	Sdrf	Hc
33	Abdul Rashid Malik	Sdrf	Hc
34	Abhay Singh Rawat	Roman catholic Diocesan Social Service Society	Sr. Program Manager
35	Adeeb Khan	Adeeb Khan Farms & Cultivation	Businessman

WORKSHOP ON MAINSTREAMING ANIMAL ISSUES IN DISASTER RISK REDUCTION

#.	Name	Organisation	Designation
36	ADFisheries Doda	Fisheries deptt	Assistant Director
37	AMAN ULLAH	The Institution of Engineers (India) J&K State Centre Srinagar	Helper
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39	Amitav Chakravarty	Animal Health Centre, North Eastern Regional Disease Diagnostic Laboratory, India	Veterinary Officer (Microbiologist)
40	Anjana Raj	MSc Disaster Management	MSc Disaster Management
41	Anusree. K	, Msc disaster management, Pondicherry university	Msc disaster management
42	Arshad	DM	Communication
43	Ashiq ashraf	Sheep husbandry	Assistant director
44	Ashvani Pandita	PDD Kashmir	JE
45	Ashwani Puri	DMRRR	Electrician
46	Avraghavareddy	AP state Fisheries Dept	DD Fisheries
47	B.venkata nithin	Animal husbandry department	Animal husbandry assistant
48	Balagangatharathilagar Mani	Tami Nadu Veterinary and Animal Sciences University	Associate Professor
49	Bambang Sutrisno	KADIN INDONESIA	Vice Chairman of Permanent Committee
50	Basab Sarkar	Oxfam India	Humanitarian Programme Coordinator
51	BHOLESHWAR NATH UPADHYAY	CIVIL DEFENCE	POST WARDEN
52	Brijender Singh	Disaster Management & Relief Department, Jaipur	Officer on Special Duty
53	C Moksha Reddy	Animal Husbandry Department	Veterinary Assistant Surgeon
54	Ch Leela Swarna	Animal Husbandry Department	Veterinary Assistant Surgeon
55	CHAITANYA M SAXENA	MPS	Captain
56	Chandrasekhar Reddy	AP Government	JOint Director of Fisheries
57	D. Ramkrishna	AH Department	Joint Director
58	Darngam Khaling	SERDS,	Secretary
59	Deenakumar chintada	Government	Assistant Director
60	Ditul Barman	College of Veterinary Science	Assistant professor
61	Divyasri Tappitla	Animal husbandry	Veterinary assistant surgeon
62	Dr Abdul Ahad War	Deptt of Animal Husbandry J&K	
63	Dr Abdul Hai	Animal husbandry deptt. Jk	Chief Animal husbandry officer budgam kashmir
64	Dr Altaf Ali Syed	Chief Animal Husbandry Officer Jammu	Chief Animal Husbandry Officer
65	Dr Anees Fatima	Government College for Women, M A Road, Srinagar	Associate Prof
66	Dr Anil wilson	Animal Husbandary Department	Veterinary Surgeon
67	Dr AZHER BASHIR BANDAY	ANIMAL HUSBANDRY DEPARTMENT	Poultry Extension Officer

WORKSHOP ON MAINSTREAMING ANIMAL ISSUES IN DISASTER RISK REDUCTION

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68	Dr C Raveendranatha Reddy	A H Dept	Assistant Director AH
69	Dr ch v bhanu poornima	Animal husbandry	Veterinary .assistant .surgeon
70	Dr chandrakala	Vd peddaputha	VAS
71	Dr E DineshKumar	Animal Husbandry	Veterinary Asst Surgeon
72	Dr G Padmavathi	Animal husbandry department	Veterinary assistant surgeon
73	Dr G Sreenivasulu Reddy	AP Animal Husbandry Department	Assistant Director (AH)
74	Dr Girish B.C	KVAFSU, Bidar	Asst Professor
75	Dr Hemanth kumar buridi	Department of animal husbandry	Veterinary assistant surgeon
76	Dr Irshad Ahmad Khoja	Department of Animal Husbandry, UT of J&K	Veterinary Assistant Surgeon
77	Dr k. Umabharathi	Animal husbandry Department	Veterinary assistant surgeon
78	Dr k.murali mohan	Dept of Animal Husbandry A.P	Assistant Director
79	Dr Karunakara Reddy V	Animal Husbandry Department	Veterinary Assistant Surgeon
80	Dr M Jayasree	Animal Husbandry	Veterinary Assistant surgeon
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83	Dr Maroof Ahmad	Department of Sheep Husbandry Baramulla Kashmir	Veterinary Assistant Surgeon
84	Dr Masood Mir	Animal Husbandry	Technical officer
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87	Dr N.J.S.Suresh Babu	Area Veterinary Hospital,Karapa, Kakinada District,Andhra Pradesh	Assistant Director(AH)
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90	Dr p Ganesh Kumar	Animal husbandry	Veterinary assistant surgeon
91	Dr peer irshad	Sheep Husbandry Baramulla	District officer
92	Dr Pundari Babu P	Animal Husbandry Department	Veterinary Assistant Surgeon
93	Dr R Chinnaiah	Animal Husbandry Department	Joint Director AH
94	Dr Ravi Kumar Nare	Animal Husbandry Department	Veterinary Assistant Surgeon
95	Dr Ravindra Kr Singh	Retired veterinarian from government of Bihar	Ex.Nodal Officer(Disastermanagement)
96	Dr Rayapudi Chinnaiah	Animal Husbandry department	Joint Director AH
97	Dr Rouhi Badakhshi	Animal Husbandry	Chief Animal Husbandry Officer
98	Dr S DEVARAJU	Animal Husbandry department	Veterinary Assistant Surgeon
99	DR S S HIREMATH	KARNATAKA MILK FEDERATION LTD	GENERAL MANAGER
100	Dr Sandeep Kumar Jain	PEOPLE FOR ANIMALS LUDHIANA	President

WORKSHOP ON MAINSTREAMING ANIMAL ISSUES IN DISASTER RISK REDUCTION

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101	Dr Sayar Ahmed Beigh	JKAHD	Veterinary Assistant Surgeon
102	Dr T Damodar Naidu	AP Sheep and goat co operative federation ltd	Managing Director
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104	Dr Tariq Ahmad Malik	Sheep Husbandry Deptt. Kashmir	Asstt. Director
105	Dr V Lokesh	Animal Husbandry Department	Veterinary Assistant Surgeon
106	Dr. Abdul Ahad War	Animal Husbandry j&K	Chief Animal Husbandry officer Kulgam
107	Dr. Arjuna Rao Maraka	Govt of andhra pradesh	Veterinary Assistant Surgeon
108	Dr. Balbir Singh	Animal Husbandry Department	Chief Animal Husbandry Officer Baramulla
109	Dr. Brihaspati Bharti	State veterinary hospital madhy pradesh	VS
110	Dr. C. Raghavendra	Animal husbandry department	Veterinary assistant surgeon
111	Dr. G. A. Lone	Animal Husbandry Kashmir, JK UT	Chief Animal Husbandry officer Bandipora
112	Dr. Isha Kaul	Panjab University, Chandigarh	Ph.D
113	Dr. K. Siva saradhi Babu	Veterinary hospital pedakurapadu	Assistant Director
114	Dr. Kulkarni Ram Chandrakant	MAFSU	Assistant Professor
115	Dr. M. Rajalakshmi	Vd	Vas
116	Dr. M. Sushmitha	Animal Husbandry Department	Veterinary Assistant Surgeon
117	Dr. Rakhi sharma	Animal husbandry uttarpradesh	Farm supritendent
118	Dr.B.PUVARAJAN	Veterinary College and Research Institute Orathanadu,Tamilnadu(TANUVAS)	Associate Professor and Head Departemnt of Veterinary Microbiology VCRI OrathanaduTamilnadu(TANUVAS)
119	Dr.Basharat Amin Kutho	Department of sheep husbandry kashmir	Joint Director
120	Dr.Ch.Kiran	GVK	Veterinary doctor
121	Dr.Damodar Panda	Utkal University	Associate Professor
122	Dr.g. malleswararao	Ah department	Assistant director
123	Dr.G.Neelima	Veterinary dispensary.mogalthur	Veterinary assistant surgeon
124	Dr.Kiranmai	Animal Husbandry Department	Veterinary Assistant Surgeon
125	Dr.M.Sreenivasa Rao	Animal Husbandry	Assistant Director (AH)
126	Dr.Madina Prasadarao	Animal Husbandry	Assistant Director (AH)
127	Dr.Mudragada Veera Raghava Rao	Animal Husbandry	Veterinary Assistant Surgeon
128	Dr.N.Chennaiah	AHD, ap	Veterinary assistant surgeon
129	Dr.N.Padmavathi	Animal husbandry department	Veterinary Assistant surgeon
130	Dr.P.Sunil Kumar Reddy	Animal Husbandry Department	Veterinary Assistant Surgeon

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#.	Name	Organisation	Designation
131	Dr.Pragada Srinivas	Animal Husbandry Andhra Pradesh	Veterinary Assistant Surgeon
132	Dr.R.Nagaraju	Animal Husbandry Department	Assistant Director
133	DR.RAM TIWARI	V.S.S.D PG COLLEGE KANPUR(U.P)	ASSISTANT PROFESSOR
134	Dr.S Srinivasarao	Anima Husbandry department	Assistant Director AH
135	Dr.s.kalavathi	Animal husbandry department	Assistant Director
136	Dr.S.Sujatha	Animal Husbandry	Veterinary Assistant Surgeon
137	Dr.S.VARALAKSHMI	Veterinary Dispensary Dharmavaram	Veterinary Assistant Surgeon
138	Dr.Satish Gangwal	District Sheep Husbandry Officer Samba	District Sheep Husbandry Officer Samba
139	Dr.satyanarayana AD	AH department	AD
140	Dr.Veera Prasannakumar Ayireddi	District Animal Husbandry Office	Veterinary Assistant Surgeon
141	Dr.Y.Radhakrishna	Animal Husbandry Department	Assistant Director
142	Dr.Y.srinivas	State government of AP	Veterinary assistant surgeon
143	DrB. Venkataraman	Government	Assistant Director
144	DSHO Ganderbal	Sheep Husbandry Ganderbal	DSHO
145	Farooq Ahmad Bhat	J&K Police	Sports coach
146	Fayaz Ahmed Fayaz	Department of Fisheries UT of Jk	Assistant Director Fisheries
147	Firdous Ahmad Bhat	Sheep husbandry department kashmir	Sheep development officer
148	G D S R CHANDRA BABU	Government	VAS
149	G Satyanarayana	AH department	AD
150	G V DEEKSHIT	ANDHRA PRADESH ANIMAL HUSBANDRY DEPARTMENT	VETERINARY ASSISTANT SURGEON
151	Gaurav Yadav	Mission 100 crore tree	Volunteer
152	Gaurika Chugh	St Xaviers College Jaipur	Assistant Professor
153	Gayatri Devi	DAHO Anapalli	Veterinary Assistant Surgeon
154	Goru Varalakshmi	Veterinary dispensary	Veterinary assistant surgeon
155	Hansen Thambi Prem	Food and Agriculture Organization of the United Nations	Sub-Regional Assessment Lead for South Asia
156	Hema Tammiseti	Veterinary Dispensary, Vissakoderu	Veterinary Assistant Surgeon
157	Himaja	Animal Husbandry Department Andhra Pradesh	Veterinary assistant surgeon
158	Jagriti Chowdhury	Know Disasters Magazine	Member
159	Jaishri Jethwaney	NDRG	Vice President
160	Jayant Narlikar, IAS	A.H. & Veterinary Department, Govt of Assam	Commissioner & Secretary
161	K Ramesh babu	Animal husbandry dept.	Veterinary Assistant surgeon
162	Kalyaan	Tanuvass	Assistant professor
163	Kalyan De	ICAR-National Research Centre on Pig	Sr. Scientist
164	Kumar Raka	NIDM	Program Officer
165	L phanikumar	-	VAS

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#.	Name	Organisation	Designation
166	LAL Mohammad Shaik	Fisheries	Joint Director
167	Leela satyavarapu	Veterinary dispensary	Veterinary assistant surgeon
168	M Mourya satyendra	Animal Husbandry Department	
169	Madhukar Sanap	Aga Khan Agency For Habitat	Head of Emergency Management
170	Majid Ali Chopan	Volunteer	Student
171	Majji Anil	Animal Husbandry	Veterinary Assistant Surgeon
172	MANISH SAXENA	WORLD	DIRECTOR
173	MANIVANNAN A	Tamil Nadu Veterinary and Animal Sciences University	Professor
174	Manmeet Kour	Government degree college	Lecturer
175	Milan Dinda	Brooke India	Head of Planning & Performance
176	Morgan Hopkins, LVT	Pai Engineering services	Licensed veterinary technician consultant
177	Mrs. Amanda D Seth	Friendicoes SECA	President
178	Muhammad Maroof Shah	Sheep Husbandry Department	Deputy Director Research
179	MUNAIAH BOMMANABOINA	Animal Husbandry	Veterinary assistant surgeon
180	Mustafa Khalil lone	Sheep husbandry department	Veterinary assistant surgeon
181	Muzamil Hassan Lone	Higher Education Department	Lecturer
182	N anusha	Animal Husbandry Department	Veterinary assistant surgeon
183	Namrata Sharma	National Institute of Disaster Management	JRO
184	Narasimha Rao Oddi	Govt	Deputy Director
185	Narasimhulu	AH department	AD
186	Navdeep Singh		
187	P Sanyasi Naidu	Animal husbandry department	Assistant director
188	Pankaj Kumar	NDRF Academy	Commandant
189	Prem Kumar Patel (M.Sc.)	PFA Institute of Research Uttar Pradesh, Prayagraj (An AWO Under AWBI, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India)	Director / Senior Scientist
190	Priyanka Robert	Veterinary dispensary	Veterinary Assistant Surgeon
191	Rahul Maurya	Brooke India	Sr Program Leader - People & Learning
192	Rajesh Kumar Trivedi	Institution of Engineers (India)	Fellow
193	Rajesh Sharma	Brooke India	Head of Program
194	Raju Kumar	Yes	yes
195	Ratnesh Kumar Rao	Brooke India	Head of Programme
196	RAVI KUMAR PANDITA	NDRF	Commandant
197	Ravikanth	Animal husbandry department	Veterinary assistant surgeon
198	Ravindra Kumar Singh	Brooke Hospital for Animals (India)	Head of Finance

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#.	Name	Organisation	Designation
199	REDDI SIREESHA	Palakonda mandal	AHA
200	Rehana Fayaz	University of kashmir	student
201	RKTRIVEDI	Institution of Engineers	Member
202	S jyothsna Devi	Animal husbandry department	Veterinary assistant surgeon
203	S SAMANTARAY	BASU	Retired Dean
204	S SIVAMOORTHY	Animal Husbandry Department of AP	Veterinary Assistant Surgeon
205	Saurabh Singh	Brooke India	Head of Programme
206	SHARIQ BASHIR	Jk DMRRR	Assistant
207	SHIVANI JAIN	SEVA	DIRECTOR
208	Shreeparna Ghosal	Vidyasagar College for Women	Asst Prof in English
209	SRINIVAS Baswa	Vh seethampets	Assistant director
210	Subhash Verma	HPKV PALAMPUR	Professor
211	Sudhir Kumar Srivastava	Border Security Force	Inspector General retd
212	Surya Parkash	NIDM	Professor
213	Sushma Devi Posimsetti	Animal husbandry department	Veterinary assistant surgeon
214	tariq khan	DD NEWS	REPORTER
215	TIRUMALA RAO	ANIMAL HUSBANDRY	Veterinary assistant surgeon
216	VAISHNAVI M SAXENA	RCERT	Student
217	Vajja sirisha	Animal husbandry	Veterinary assistant surgeon
218	VENKATARAMANA SANAPALA	GRAMA SACHIVALAYAM (ANIMAL HUSBANDRY)	ANIMAL HUSBANDRY ASSISTANT
219	Vijay Laxmi Mall	BBAU	Research scholar
220	Vyas Ji	Jan Mukti Andolan	President

Around 550 people registered and participated through Zoom medium.

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