

# Webinar Report

## On

# HAM Radio Communication During Emergencies

Date: 20<sup>th</sup> May, 2022 | Time: 02:30 PM – 04:30 PM



Organized by:  
**National Institute of Disaster Management**  
(Ministry of Home Affairs, Govt. of India)

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## About NIDM



The National Institute of Disaster Management (NIDM) was constituted under an Act of Parliament with a vision to play the role of a premier institute for capacity development in India and the region. The efforts in this direction that began with the formation of the National Centre for Disaster Management (NCDM) in 1995 gained impetus with its resignation as the National Institute of Disaster Management (NIDM) for training and capacity development. Under the Disaster Management Act 2005, NIDM has been assigned nodal responsibilities for human resource development, capacity building, training, research, documentation and policy advocacy in the field of disaster management. Both as a national Centre and then as the national Institute, NIDM has performed a crucial role in bringing disaster risk reduction to the forefront of the national agenda. The Institute believes that disaster risk reduction is possible only through the promotion of a "Culture of Prevention" involving all stakeholders. The Institute works through strategic partnerships with various ministries and departments of the central, state and local governments, academic, research and technical organizations in India and abroad and other bi-lateral and multi-lateral international agencies. The Institute's vision is to create a Disaster Resilient India by building the capacity for disaster prevention and preparedness at all levels.



WEBINAR ON

**HAM Radio Communication During Emergencies**

20<sup>th</sup> May, 2022 | Time: 02:30 pm to 04:30 pm

PATRON	CONVENOR	EXPERT PANELISTS		
 <b>Shri Taj Hassan, IPS</b> Executive Director NIDM, MHA, GoI	 <b>Dr. Garima Aggarwal</b> Senior Consultant RI Division NIDM, MHA, GoI	 <b>Prof. Chandan Ghosh</b> Head, RI Division NIDM, MHA, GoI	 <b>Mr. Virender Kumar Arya</b> CEO & Founder AVK Global Trainers, LLP, New Delhi	 <b>Mr. Kaustav Saha</b> CEO & Founder Seven3 Digital Pvt. Ltd.
TECHNICAL SUPPORTER	COORDINATORS		Live Telecast on YouTube:	
 <b>Mr. Vikas Verma</b> Associate AVK Global Trainers, LLP, New Delhi	 <b>Mr. Shreyash Dwivedi</b> Jr. Consultant RI Division NIDM, MHA, GoI	 <b>Mr. Shaad Warsi</b> Young Professional RI Division NIDM, MHA, GoI	 Registration link: <a href="https://training.nidm.gov.in/">https://training.nidm.gov.in/</a> <b>NIDM Training Portal</b> Register yourself, then enroll for the upcoming Programme Get <b>e-Certificate</b> after successfully completion of the Programme	
 <b>Stay Protected from Corona</b>	 Wear your Mask Properly	 Follow Proper Hand Hygiene	 Maintain Social Distancing	 Get Vaccinated
   / nidmmhaindia	 / nidmindia	Website: <a href="http://www.nidm.gov.in">www.nidm.gov.in</a>		

## Concept Note

### **“HAM Radio Communication During Emergencies” Date 20<sup>th</sup> May 2022 (Friday)**

Natural disasters impact negatively critical infrastructure. Disaster recovery is difficult, particularly in the developing world. Effective infrastructure evaluation and mitigation measures and making it a vital policy instrument should be done to decrease the impact of catastrophic disasters.

#### **Resilient Infrastructure:**

“resilience” is defined as the capacity of infrastructure, communities and their related systems to mitigate, adapt, or positively respond to chronic and acute stresses, transforming in ways that restore, maintain and even improve their essential functions.

Resilience is essential to absorb the impacts of adverse shocks and it creates a unique opportunity for countries to be ready against future risks as part of their recovery efforts.

#### **Six Basic Principle of Infrastructural Resilient Society**



### **Disaster Risk Management:**

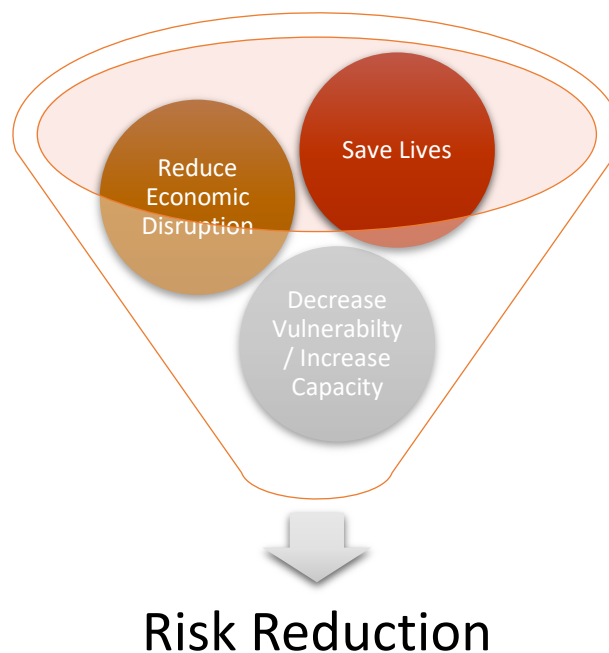
Risk management is a proactive approach that enables individuals with disaster management responsibilities to deliver effective, relevant, and informed services to communities by forming the foundation for disaster management planning.

Disaster Risk Management is built on four pillars: prevention, mitigation, transfer, and readiness. Risk-reduction activities can be classified as structural (for example, land use planning and building code implementation) or non-structural (for example, awareness-raising, policy-making, and legislation).

### **Importance of the Themes in Context of Disaster Management:**

1. **Risk assessment** is a process to identify potential hazards and analyze what could happen if a hazard occurs. It is important to increase the importance and priority of disaster prevention and preparedness, as well as make them more successful, to reduce the damage and losses caused by extreme natural disasters and the need for emergency help.
2. **Mitigation** could be understood as a tool to reduce loss of life and property by lessening the impact of disasters. Mitigation is, acting now—before the next disaster—so we could reduce human and financial consequences later. It can be divided into two parts:
  - a. **“Primary” Mitigation:** Reduction of the **PRESENCE** of the Hazard.
  - b. **“Secondary” Mitigation:** Reducing the **EFFECTS** of the Hazard (Preparedness)

### **Principal Objectives of Mitigation**



### **Risk Reduction for Whom:**

People, Property, building infrastructure, Critical Infrastructures, Supply Chain, Information – Communication Technologies, Economic Developments and Environments are some basic assets which stay at risk during any disaster.



### **Engineering and Construction Measures:**

As per our division's core area, analysis of infrastructures and building capacity for adaptation of constructional measures should be our major focus.

1. Stronger individual structures
2. Disaster resilient critical infrastructures

Through the application of mitigation technologies and practices, our society can ensure that there would be very less impact of any kind of disaster and our communities become more resilient to natural disasters.

Mitigation methods, for example, can be used to fortify your house so that your family and valuables are better protected against natural disasters like earthquakes, fires, and floods. They can assist enterprises and industries in avoiding facility damage and remaining functioning in the event of a disaster. Mitigation measures may be necessary to reinforce key facilities like hospitals, fire stations, and other critical services so that they can continue to operate after a disaster. Mitigation strategies can also aid in the reduction of disaster-related losses and suffering.

Early warning combined with risk awareness leads to a more sustainable future, without a doubt. Changes in people's perceptions of danger are included in this. It is also beneficial in reducing the damage to both physical and biological materials.

**Theme 1 - Risk Assessment and Mitigation Measures:** Resilient Infrastructure Division is planning to organise a series of webinars under this theme. Below we have mentioned two of the topics for this month.

#### **1. Ham Radio in Disaster Mitigation and Management:**

Ham Radio is also known as armature radio is a two-way radio communication where messages are sent either by voice or in International Morse Code. The reason why an amateur

radio operator is called a 'ham' is not known. Some relate these three letters (HAM) to the names of three great radio experimenters. They are- Hertz (who practically demonstrated the existence of electromagnetic waves in 1888), Armstrong (who developed a resonant oscillator circuit for radio frequency work) and Marconi (the 1909 Nobel laureate in Physics, who in the year 1901 established the first transatlantic radio contact).

#### Uses:

Ham Radio provides a great service to the people in general worldwide by way of organizing **on-the-air emergency medical traffic and establishing emergency communication networks during natural calamities like floods, cyclones, storms, earthquakes or any other disaster.** Amateur Radio stations act as the **'SECOND LINE' of communication when existing public or government communication links fail to act.**

**Previous Cases:** During the flash floods due to the Machu dam burst in Gujarat, more than a dozen amateur radio stations of western India activated emergency radio stations to pro-relief agencies, government officials and victims of the disaster. Similar services were rendered by hams during the cyclonic storms in Saurashtra and a number of times in Andhra Pradesh.

We might recollect the earthquakes in Uttar-Kashi and Latur in Maharashtra and adjoining areas where ham radio operators provided the essential communication network for coordinating and organising relief operations, arranging medicines, food and clothing for the affected people. Ham Radio has re-established its importance during the recent **Orissa disaster (the devastating cyclone)** when all the communication facilities broke down.

*It is interesting to note that Ham radio operators were the first to report the tsunami caused by the Indian Ocean earthquake in 2004 to the Indian Government. They were active during the earthquake of Bhuj in 2001, as also in the Mumbai floods (after cloud burst) on 26th July 2005.*

**Ham radio is an important package in a disaster management kit.**



## Programme Schedule

Program Schedule		
Time	Topics	Panellists
<b>Date: 20.05.2022</b>		
<b>Moderator: Sumalya Ray, Resilient Infrastructure Division, NIDM</b>		
<b>03:00 – 03:15 PM</b>	Welcome and Context Setting	<b>Dr Garima Aggarwal</b> Sr. Consultant Resilient Infrastructure Division, NIDM, Gol / <b>Shreyash Dwivedi</b> Jr. Consultant Resilient Infrastructure Division, NIDM, Gol
<b>03:15 – 03:30 PM</b>	Special Lecture on the Role of Ham Radio in Disaster Mitigation and Management	<b>Prof. Chandan Ghosh</b> Head Resilient Infrastructure Division, NIDM, Gol
<b>03:30 – 03:40 PM</b>	Q & A Session	With Speaker
<b>03:40 – 04:30 PM</b>	Demonstration and Discussion on the functioning of HAM Radio	<b>Mr. V.K. Arya</b> CEO & Founder AVK Global Trainers, LLP Co., New Delhi
<b>04:30 – 04:45 PM</b>	Technical Support to Demonstrate on the functioning of HAM Radio	<b>Mr. Vikash Verma</b> Associate AVK Global Trainers, LLP Co., New Delhi
<b>04:30 – 05:00 PM</b>	Communication (HAM Radio Demonstration)	<b>Mr. Kaustav Saha</b> CEO & Founder Seven3 Digital Pvt. Ltd.
<b>05:00 – 05:30 PM</b>	Conclusion and Way forward	<b>Dr Garima Aggarwal</b> Sr. Consultant Resilient Infrastructure Division, NIDM, Gol / <b>Shaad Warsi</b> Young Professional, NIDM, Gol

## Inaugural Session

Inauguration of the webinar by Prof. Chandan Ghosh, Head, Resilient Infrastructure Division, NIDM. He gave an insight of HAM Radio over the years, amateur radio operators have also provided emergency communications during wildfires, floods, hurricanes and other disasters. They act as a vital link between the victim communities and the outside world until normal communication is restored. He also, welcomed all the dignitaries and participants.

## Key Speakers

### 1. Mr. V.K. Arya, CEO & Founder, AVK Global Trainers, LLP, New Delhi

Mr. Arya shared his detailed lecture on “Demonstration and Discussion on the functioning of Ham Radio”. He started his address by telling us to call signs for HAM radio which he uses. He explained in detail the concept of HAM Radio/ Amateur Radio which can be used at times of emergency for wireless communications.



He further shared the process that needs to be followed to obtain a valid lifetime license for operating HAM Radio. He emphasized HAMS in disaster communication. He shared data regarding call signs of some countries and also talked about some famous Indian HAMS – Rajiv Gandhi (VU2RG), etc. Through the HAMS, one can talk to astronauts at the International Space Station. He further explained the process of HAM Radio Communication through Radio Telephony and Radio Telegraphy (both analog and digital). He talked about HAM Radio Operators, HAM Radio Equipment, and components of wireless communication: source, transmitter, transmitting antenna, and receiver systems in detail. He further gave a hands-on demonstration on the functioning of HAM Radio and showed how audio messages can be transmitted over a few kilometers with a short antenna over the same frequency. He further described the working of satellite communication. Later, Mr. Arya explained HAM language, and its types and showed Morse Keys, and explained International Morse Codes and ITU Phonetic Alphabets. He highlighted the importance of usage of HAM Radio and insisted that more and more people learn to operate it and obtain its license in India.

## 2. Mr. Vikas Verma, Associate - AVK Global Trainers, LLP, New Delhi

Mr. Vikas supported Shri. Arya technically demonstrated on HAM Radio during the entire session practically. He showed how HAM Radio works effectively. The use of radio frequency spectrum for non-commercial exchange of messages, wireless experimentation, self-training, private recreation, radio sport, contesting, and emergency communication.



## 3. Mr. Kaustav Saha, CEO & Founder - Seven3 Digital Pvt. Ltd.

Mr. Saha joined in between and demonstrated how to establish contact with a person across the globe (in this case-Indonesia) through HF communication in real-time. He showed the location of IRNSS – a recently launched Geostatic satellite. He further stated the frequency that is



used in the Delhi NCR region for emergency communications is 145.200 Megahertz. He also demonstrated a HAM radio setup which he constructed himself. He laid importance on the use of HAM radio at times of disaster.

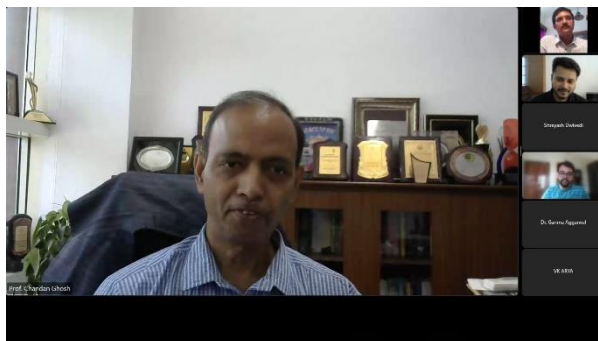
Amateur radio (HAM radio), in times of crisis and natural disasters, is often used as a means of emergency communication when wirelines, cell phones, and other traditional terrestrial means of communication fail. Unlike commercial systems, HAM radio is independent of any network cellular telephone overload.

E.g. RMS (Radio Mail Server) is used to send and receive emails with audio-video attachments and share GPS positioning reports with HAM radio callsigns, even when the internet or mobile network is unavailable. In addition, amateur satellite radio services play an important role in disaster mitigation and relief support.

## Closing Remarks

**Prof. Chandan Ghosh, Head – Of Resilient Infrastructure Division, NIDM summed up this successful session.**

**Dr. Joy Chandran, Electronics & Communications Officer, Group Technical Officer - Indian Airforce**



Dr. Chandran spoke shared his experience during the session with rescue operations that he has performed via HAM radio at time disasters.

Post the lectures by the panellists, there was a healthy discussion about current and future trends and the possibilities that have to be explored in this context. Active participation from the participants was observed and questions were taken up.

Mr. Sumalya Ray moderated the entire session.

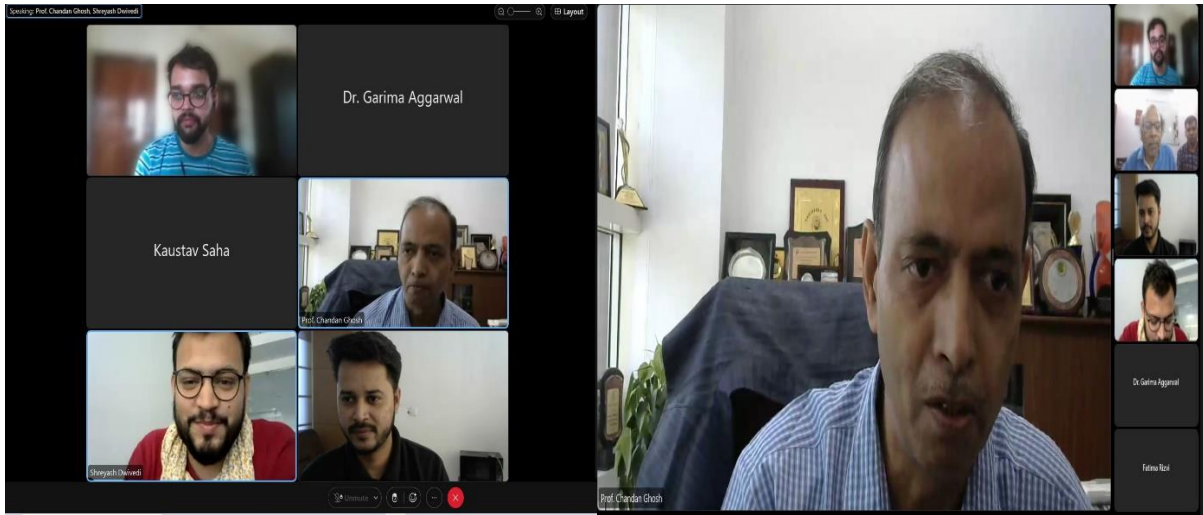
Mr. Shreyash Dwivedi Jr. Consultant, Resilient Infrastructure Division, NIDM, GoI & Mr. Shaad Warsi, Young Professional, Resilient Infrastructure Division NIDM, GoI coordinated the event.

In the end, Mr. Shreyash concluded the event and thanked all the participants.

## Key Takeaways

- HAM radio has provided emergency and public service communications throughout its history. Today, amateur radio operators stand ready to assist should hurricanes, tornadoes, and other natural disasters knock out communications.
- HAM Radio Service helps provide the nation with trained technical people that the country needs.
- Because radio knows no borders, amateur radio operators are in a unique position to enhance international goodwill.
- HAM radio is a valuable hobby, enabling participants to improve their operating skills and technical knowledge.
- Recognition and enhancement of the value of the amateur service to the public as a voluntary non-commercial communication service, particularly with respect to providing emergency communications.

# Photographs



VK ARYA

### Repeaters

A repeater is a device used to retransmit amateur radio signals.

Input Freq 145.600 MHz

Offset + 600 kHz

Output Freq 14.060 MHz

60 miles

### Amateur or HAM Radio

*"Amateur or HAM Radio is a **Hobby** like any other hobby such as Dance, Photography, Painting, Cricket etc., but with a difference".*

### HAM Radio

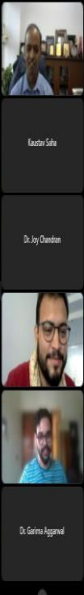
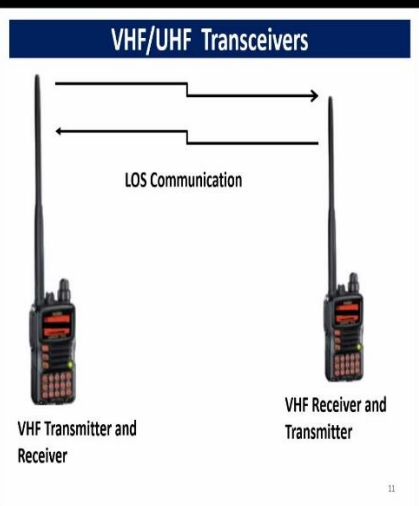
- HAM Radio is a Hobby but with a difference.

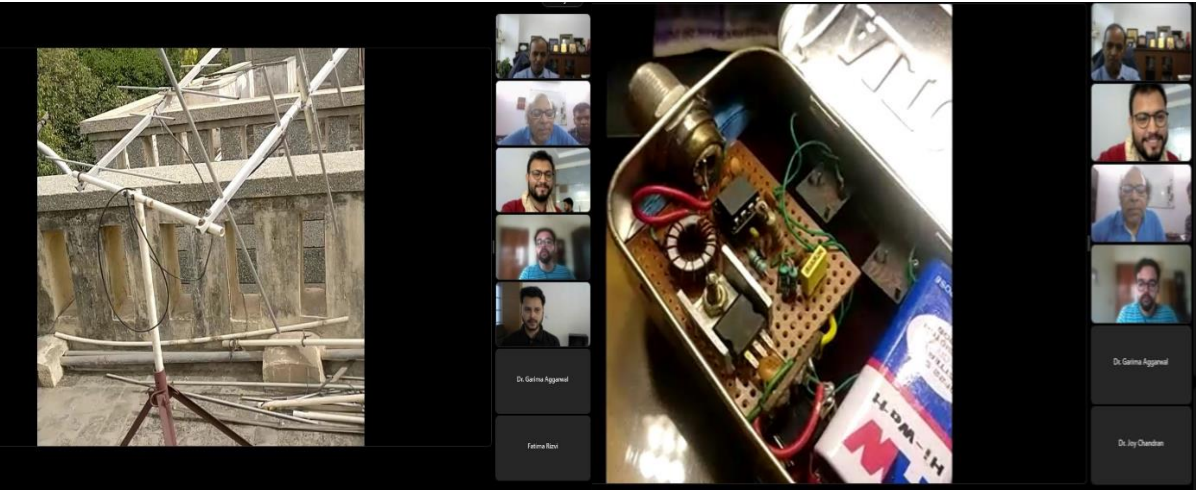
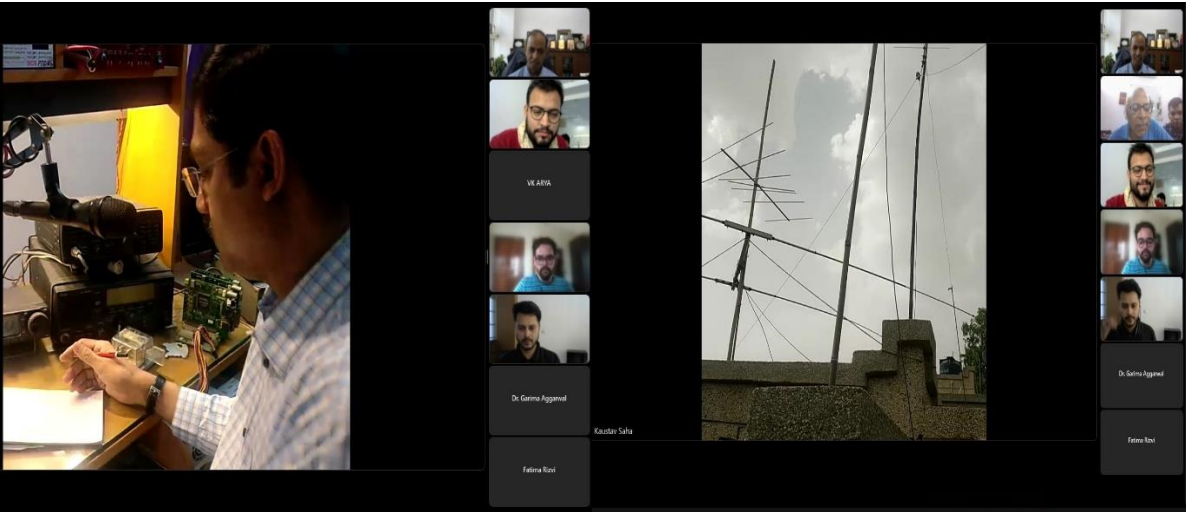
## HAM Radio Communication

Ham Radio Operators are the only **NON-GOVERNMENTAL** people privileged to be allowed to do private **WORLDWIDE** wireless communication



Long Distance Communication using Short Wave Frequencies in the range of 1.8 to 30 MHz





## List of Participants

S.No.	Name	Email ID
1	A. K. M. Thohidul Alam Khan	thohidul.ce@gmail.com
2	Aa Sarma	apsarma1@gmail.com
3	Abhijith L Kotian	abhijithlkotian@gmail.com
4	Abhishek Singh	abhisheksingh953264061@gmail.com
5	Adhithi Madhav Roy	adhithimroy25@gmail.com
6	Ajaya Dalai	ajaya.dalai@adityabirla.com
7	Ajeet Chaudhary	ajeetchaudhary2002@gmail.com
8	Akshayjit Podder	chem.akshayjit.aus@gmail.com
9	Amit Kumar	amitbeniwal301@gmail.com
10	Ananda S	anandgowda885@gmail.com
11	Anilendra Kumar Verma	anilendra1987@gmail.com
12	Anjali Verma	anjusktv@gmail.com
13	Antara Bhowmik	antara.kgp@gmail.com
14	Anurag Sawant	anurag969sawant12@gmail.com
15	Anusree V K	anusreevk369@gmail.com
16	Apeksha Jajurley	apeksha.j@podar.org
17	Archana V Iyer	archana_krishnan123@yahoo.co.in
18	Arundathi Bachhav	tlshteacher5@gmail.com
19	Arwan Parihar	aarunparihar@gmail.com
20	Ashish Gupta	connect@advag.in
21	Ashok Kumar Dhingra	akd040452@gmail.com
22	Ashutosh Mhapne	ashutoshmhapne@gmail.com
23	Ashwani Puri	appuri007@gmail.com
24	Avneet Randhawa	randhawa.avneet@gmail.com
25	Ayan Arun K S	ayanarunks@gmail.com
26	Balakrishnan S	bala.1912l02@gct.ac.in
27	Bhagyalakshmi S	anu76742ej@gmail.com
28	Bharati Madhekar	bharti.madhekar@gmail.com
29	Biplab Auddya	biplabauddya123@gmail.com
30	Brijendra Kumar	brijendra253@gmail.com
31	Chandrakanta Verma	chandrakantajnu@gmail.com
32	Chandraketu Sharma	chandraketusharma@gmail.com
33	Deepak Kumar Dubey	deepak.dubey97@gmail.com
34	Deepti Pande Rana	dprana@lko.amity.edu
35	Dharmesh Kosrekar	dharmesh.kosrekar@gmail.com
36	Dinesh Kumar	dineshkumar15385@gmail.com
37	Dipti Singh	dudipti1507@gmail.com
38	Dr Mohammed Osama	osama4447@gmail.com
39	Dr Prof Ing Gurudutt Sahni	drguruduttsahni@rediffmail.com
40	Dr. THANDAVAMOORTHY M	mtmoorthy72@gmail.com
41	Dr. Anand Singh Gusain	anandayush80@gmail.com
42	Dr. Anant Lilhare	anantlilhare@gmail.com
43	Dr. Chinmoyee Borpujari	chinmoyeeeb@gmail.com
44	Dr. Dinesh Pandit	dpandit@hotmail.com
45	Dr. J L Gautam	jl.gautam@imd.gov.in
46	Dr. P. Muthu Pandian	muthupandianp@saveetha.ac.in
47	Dr. Raghunath Prasad Saini	raghunathsaini@gmail.com

48	Dr. Vivek Kumar Singh	v.singh@dmi.ac.in
49	Dr.Joy Chandran	vu3joy@gmail.com
50	Dr.Rajive Dikshit	dsoidspdehradun@gmail.com
51	Essa Alalisalem	saudize@gmail.com
52	Fatima Rizvi	fatima97rizvi@gmail.com
53	G Madhusudan	madhusudhan@tkrcet.com
54	Gani Sharmila Banu	gsharmilabanu@gmail.com
55	Gaurav Singh	gauravsingh3007@gmail.com
56	Gaurav Thakur	gauravthakur649@gmail.com
57	Gaurav Tripathi	tripathigaurav880@gmail.com
58	Gayatri Alnewar	gayatri.alnewar@gmail.com
59	Gireesan T U	gireesantu@gmail.com
60	Gopal Bansal	gopalbansalgzb@gmail.com
61	Gurminder Singh	gurmi22@gmail.com
62	Gurudas Baroi	gurudas22051999@gmail.com
63	Harbakhsh Singh	hs.civildefence@gmail.com
64	Hariom Choudhary	choudharyhariom675@gmail.com
65	Harshima Sawlani	drharshipsm2017@gmail.com
66	Himanshu	himanshurocks.yadav@gmail.com
67	Hiteshkumar R. Barot	barothitesh13188@gmail.com
68	Imtiyaz Ali Dar	imtiyazmydar15@gmail.com
69	Jay Thakkar	thakkarnjay@gmail.com
70	Jayamani Lawrence	lawrence.lawru@gmail.com
71	Jebin Nagarajan	nagarajanjebin1@gmail.com
72	Jyoti Rana	rana.jyoti1174@gmail.com
73	K Sharda	kodasharda@gmail.com
74	Kamlesh Kumar	kamlesh.7426@gov.in
75	Kh Warish Ahamed	akhwarish@yahoo.com
76	Kishor Jadhav	kishorjadhav9921@gmail.com
77	Kishore Kumar D	kittushree1992@gmail.com
78	Kuldeep Kumar	kuldeephindidept@gmail.com
79	Kumar Ganesan	kumarg@hku.hk
80	Lubna Siddiqui	s_lubna2004@yahoo.co.in
81	Makwana Ajitkumar	ajitsingmakwana@ymail.com
82	Manish Kumar	manishkhadia87@gmail.com
83	Manjay Kumar	manjay1077@gmail.com
84	Manjunath R	vu3cjm@gmail.com
85	Md. Sohrab Ali	ali.md1016@gmail.com
86	Megha K S	kottarathilmegha@gmail.com
87	Mehatab Syed	syed.mehatab.sm@gmail.com
88	Mohammad Kawsar	mdkawsar@gmail.com
89	Mohd Mumtaj	mumtajali82341@gmail.com
90	Mohsin Salam	mohsinsalam.butt@gmail.com
91	Mona Potdar	monapotdar1111@yahoo.com
92	Mothineni Joshi Sai Chowdary	joshisaiprakashchowdary@gmail.com
93	Mousumi Murmu	murmu.mousumi6@gmail.com
94	Munendra Kumar	munendrakumar1990@yahoo.co.in
95	N. Vivekanandan	anandaan@rediffmail.com
96	Nagarajan Krishnamoorthi	nagarajan22563@gmail.com
97	Nandakrishnan S L	nandakrishnansl@imu.ac.in

98	Narad Pal	naradpal27@gmail.com
99	Nathan Fernandez	nathanfernandez1234566@gmail.com
100	Navdeep Singh	navdeepdcd@gmail.com
101	Navneet Kumar Yadav	aski.sri@gmail.com
102	Neelam Singh	nishal2000000@gmail.com
103	Neha Gautam	neha.gtm19@gmail.com
104	Niranjan Kulkarni	niranjan.in@gmail.com
105	Nirdesh Kumar Singh	nirdesh.singh015@gmail.com
106	Onkar Nath Puri	onkarnath.puri@gmail.com
107	Pankaj Kumar Bansal	pankajkumarbansalgzb@gmail.com
108	Pankaj Vaghela	vaghelapankaj9904@gmail.com
109	Paul H Shylla	phshylla@gmail.com
110	Pavithra K Reji	pavithrakreji@gmail.com
111	Pawan Kumar Gautam	89pawangautam@gmail.com
112	Pradeep Singh	pradeepbora229@gmail.com
113	Pradnya Patil	ictclassv@gmail.com
114	Prakash N	natarajanprakash87@gmail.com
115	Praneta Desale	desalepr@gmail.com
116	Prashant Kumar Singh	prashant.irm05@gmail.com
117	Pratibha Pathak	pratibhaspathak@gmail.com
118	Preeti Singh	preetisingh59@gmail.com
119	Priya Brat Sharma	sharmapriyabrat700@gmail.com
120	Priya Namrata Topno	eleshaba18@gmail.com
121	Prof Prem Raj Pushpakaran	drpremrjap@nitc.ac.in
122	Prof. Amit Kumar De	principal@pkcollegecontai.ac.in
123	Prof. Pradip Jankar	pradipjankar1998@gmail.com
124	Prof.Dr.I.Manavalan Ilakkuvan	imanavalan56@gmail.com
125	Pugazhenthii Velraj	pugalservoiji@gmail.com
126	Pushpraj Singh Rajawat	majpsr@gmail.com
127	R. Suresh	salemsureshmail@gmail.com
128	Radha Gupta	mathclass4abcde@gmail.com
129	Rahmath Beevi K	beevi9875@gmail.com
130	Raja Kishor Mishra	rajakishormishra17@gmail.com
131	Rajan Kumar	rajan.sharmanov1991@gmail.com
132	Rajan Kumar Singh	rajansingh885876@gmail.com
133	Rajesh Kumar	rajesh40043@gmail.com
134	Rajesh R K Nair	rajeshrknair@gmail.com
135	Rajitha N Athar	rajitha.n1999@gmail.com
136	Raju Roy	rajulive24@gmail.com
137	Rakesh Kumar Bhatt	rakesh75ch@gmail.com
138	Raman Saxena	raman4saxena@rediffmail.com
139	Ramesh P	rameshketpoly10@gmail.com
140	Ranjeet Kumar	ranjeetkr@indianoil.in
141	Ranju Wilson	ranjukodakarakaran@gmail.com
142	Ravi Sharma	mrravisharma4@gmail.com
143	Ravi Bhan	ravi.bhan@tajhotels.com
144	Ravindra Reddy M	ravindraoudepts@gmail.com
145	Renjitha E	renjithae75@gmail.com
146	Rinku	rinku271995@gmail.com
147	Riya Auddya	riyaauddya123@gmail.com

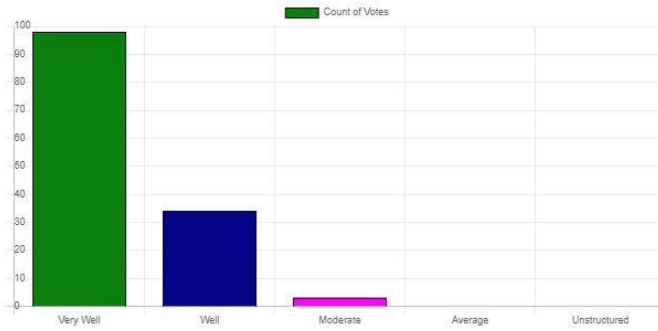
148	Riya George	riyageorgeanitha@gmail.com
149	Rohan Sethi	rohansethi7@gmail.com
150	Rosamma Jose	josejosephft@yahoo.com
151	Rupali Jadhav	rupaliajitjadhav@gmail.com
152	Sachikanta Nanda	sachikan@srmist.edu.in
153	Sanjeev Gupta	fdpsanjeevpreeti@gmail.com
154	Sanjeev Kumar	sanjeevkumar999966@gmail.com
155	Sanjoy Karmakar	karmakarsanjoy622@gmail.com
156	Sarat Kumar Das	vu3omk@gmail.com
157	Saswati Pandit	sasjnu@yahoo.com
158	Sathish M	sathishmoorthi88024@gmail.com
159	Satpal Singh	satpal2all@gmail.com
160	Saurav Kishor	sauravkshr082@gmail.com
161	Savita Wakchoure	savita31wakchoure@gmail.com
162	Sejal Gandhi	sejal.dalal210793@gmail.com
163	Selvamani S	selvamani.2000.tvm@gmail.com
164	Senthilkumar S	senthilkumars2608@gmail.com
165	Sharavanan Sivakumar	salemsaro@gmail.com
166	Shashi Mohan	sm_sharma007@yahoo.com
167	Sherin Philip	sherin.maju@gmail.com
168	Showkat Ahmad Malik	malikshowkat1419@gmail.com
169	Shubham	shubhamtevari.shubs@gmail.com
170	Sidharth Borah	sid9953476607@gmail.com
171	Simranjit Singh	simran0617@gmail.com
172	Sourabh Kapoor	sourabh2282singer@gmail.com
173	Sourav Halder	haldersourav843@gmail.com
174	Sreejisha Velayudhan	sreejishav99@gmail.com
175	Sudam Satpute	sudamsatpute@gmail.com
176	Sudeshna Mukherjee	tipumukherjee.34@gmail.com
177	Sudip Roy	ssudipro1725@gmail.com
178	Suhas M K	suhasmk@yahoo.in
179	Sujata Bargale	bargale.sujata@gmail.com
180	Sujit Babar	babarsujit@yahoo.com
181	Sujoy Kanti Bhattacharjee	avtarsujoy1988@gmail.com
182	Suman Patra	sumanpatra92@gmail.com
183	Sunitha C	pugalsunitha@gmail.com
184	Supriya Roy	supriyaroy145@gmail.com
185	Tapas Sarkar	totonskmdddipur@gmail.com
186	Tarun Anand	tarunanand.mu@gmail.com
187	Thiyagarajan Radhakrishnan	rashmithiyagu@gmail.com
188	Thowfeekahamadu M	thowfeekahamadu@gmail.com
189	Uday Deshpande	udayadeshpande401@gmail.com
190	Uma Bharti	bhartisavlodiya@gmail.com
191	V Raveendra Reddy	raveendrareddy777@gmail.com
192	Vaibhaw Pandey	vipul7730@gmail.com
193	Vajid Ali Abdul Majid	alivajid.hse@gmail.com
194	Varsha P Santhosh	varshapsanthosh@gmail.com
195	Veer Singh	veersingh737@gmail.com
196	Vijay Kumar	vijuindian@gmail.com
197	Vikas	vikaschharixx@gmail.com

198	Vimal Parkash	goutamvimal@gmail.com
199	Virendrakumar Thakkar	virendrakumarthakkar@gmail.com
200	Visha Lakshmi Srikakolapu	visha.prasad@gmail.com
201	Vishal Verma	vermavishal1908@gmail.com
202	Vismaya K G	vismayakgkavungal@gmail.com
203	Yash Pal Chauhan	idmfscare@gmail.com

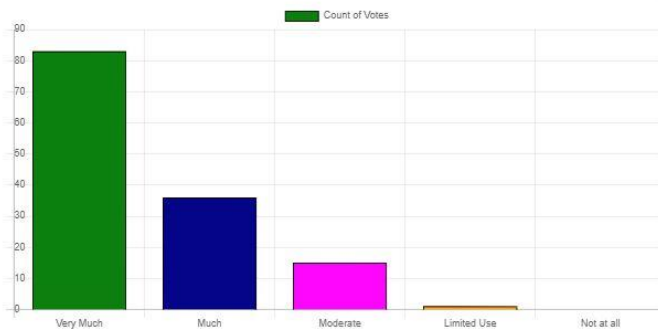
# Feedback

## Feedback Result

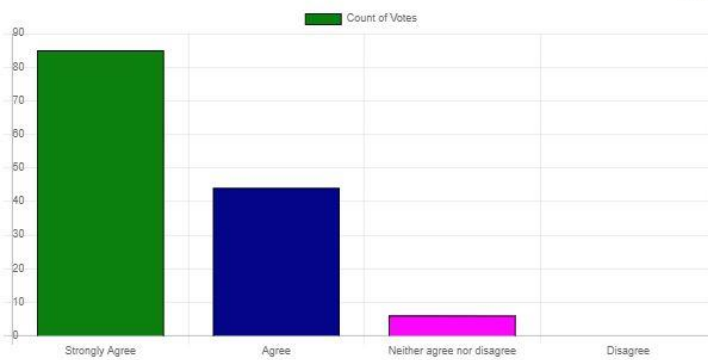
I think the structure and organization of the course fulfilled the objectives of the Training programme.



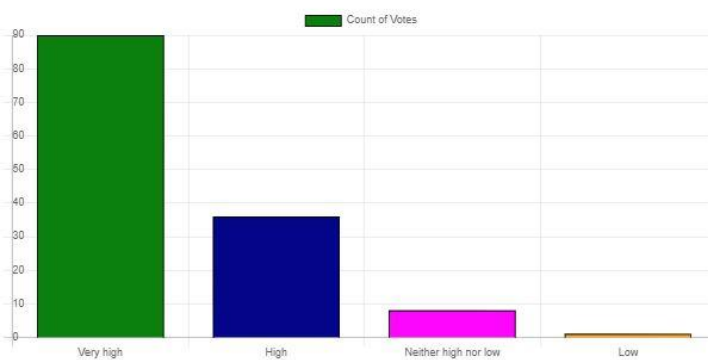
I feel this programme would be useful to me immediately in my job.



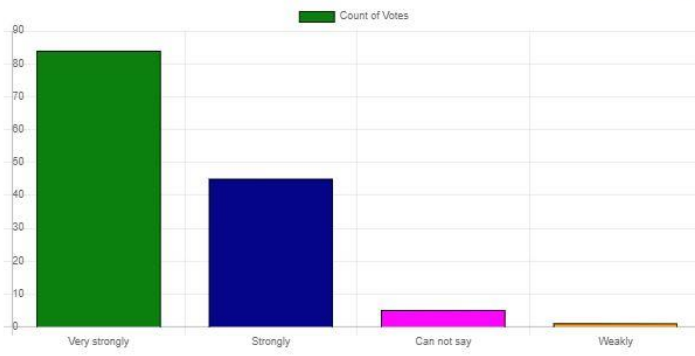
I believe this will help me in my future job related to Disaster management.



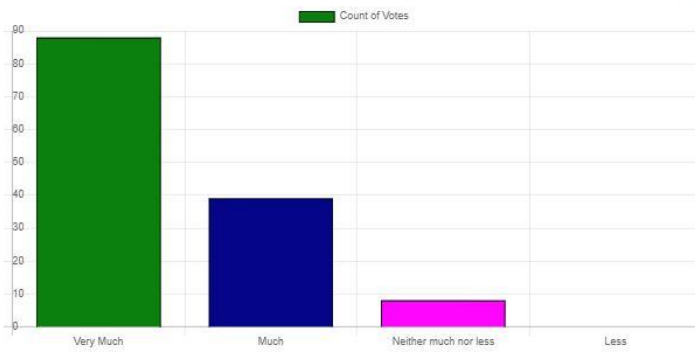
Practical orientation of the Training programme.



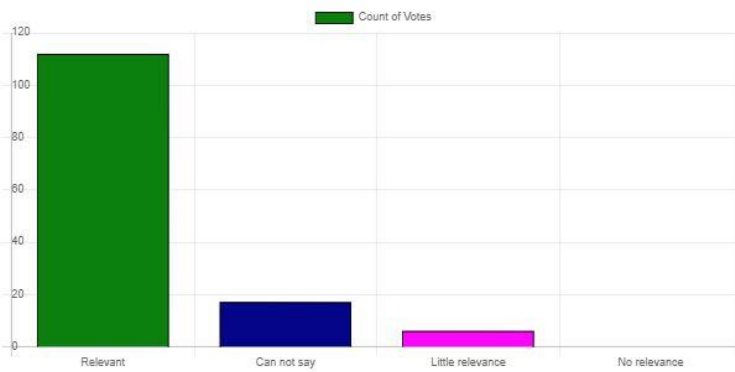
I feel this inspires me to take up assignments related to Disaster Management.



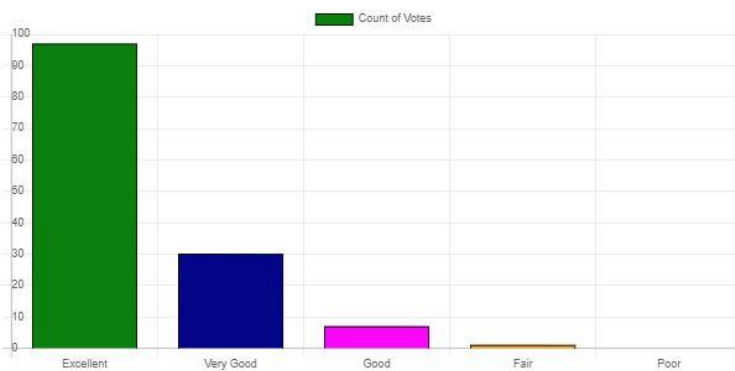
I have benefited from interaction with fellow participants in the course.



I found the course materials supplied to us to be



Your overall impression of the training programme.



YouTube Link

<https://www.youtube.com/watch?v=sy2OkwclQfI>

Certificate

