

SUMMARY REPORT ON

Three Days National Level Online Training Program on

“Fire & Emergency Prevention in the Public Buildings: Hospitals and Health Facilities”

Date: 25th to 27th August, 2021

Jointly organised by

National Fire Service College (NFSC), Nagpur

Government of India

&

National Institute of Disaster Management (NIDM),

Ministry of Home Affairs, Government of India



सत्यमेव जयते





National Fire Service College (NFSC), Nagpur

&

National Institute of Disaster Management (NIDM), MHA, Govt. of India

is jointly organizing a three days Online Training Programme on

Fire & Emergency Prevention in the Public Buildings: Hospitals and Health Facilities

Date: 25 -27 August 2021 Time: 14:30 to 16:30 hrs (IST) Registration link: <https://training.nidm.gov.in/>

Patrons



Maj Gen M K Bindal, VSM
Executive Director
NIDM, MHA, Gol



Sh. Taj Hassan, IPS
Director General (FS, CD & HG)
MHA, Gol



Dr. D.K Shami
Fire Advisor , DG(FS, CD & HG)
& Director, NFSC, MHA, Gol



Prof. Chandan Ghosh
Head, Resilient Infrastructure Division,
NIDM, MHA, Gol



Dr. Garima Aggarwal,
Senior Consultant, Resilient
Infrastructure Division, NIDM, MHA, Gol

Guidance

Convener

Eminent Panel of Experts



Sh. Ashok Menon,
Director,
State Fire Services, Goa



Sh. K K Bishnoi
Director,
State Fire Service,
Gujarat



Dr. Lallu Joseph,
Secretary General, CAHO
Associate GS & Quality Manager,
CMC Vellore



Sh. Debapriya Biswas,
Additional Director General (Retd),
West Bengal Fire Services



Ms. Keerthi D'Souza,
Managing Director,
Life Giver Professional
Services



Dr. Amir Ali Khan,
Assistant Professor,
NIDM, MHA, Gol

Webex Joining details

Event ID: 170 925 0313

Password: 2020

URL: <https://qrgo.page.link/t6LRs>

YouTube Live link:

Day1: <https://youtu.be/A8Fb2OcSJ6U>

Day2: <https://youtu.be/-dg-rdlFm0s>

Day3: <https://youtu.be/IHL66XMhDQE>

Coordinators



Ar. Susmita
YP, Resilient
Infrastructure Division,
NIDM, MHA, Gol



Dr. Gouthamkumar Nadakuditi
Assistant Professor
Dept of Fire Engineering,
NFSC



Shri. Gagan Upadhyay
Assistant Director
Dept of Fire Engineering,
NFSC



Wear your Mask
Properly



Follow Proper
Hand Hygiene



Maintain Social
Distancing



Get
Vaccinated



/nidmmhaindia



/nidmindia

Website: www.nidm.gov.in

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“Fire & Emergency Prevention in the Public Buildings: Hospitals and Health Facilities”

Date: 25 August 2021 to 27th August 2021

Timings [2.30 p.m. to 4.30 p.m.]

1. National Institute of Disaster Management (NIDM) in collaboration with National Fire Service College (NFSC), Nagpur conducted an online training programme on “Fire & Emergency Prevention in the Public Buildings: Hospitals and Health Facilities” on 25th to 27th August 2021.

2. The objectives of the training programme were to:

- To understand the purpose, uses and gaps Fire & emergency safety measures as circulated in various Acts, Rules & Regulations, Code and Standards for Public Buildings.
- To explore the Fire Safety Related Challenges Faced by Existing public buildings- with special reference to the health facilities.
- To address the key fire and emergency issues in the case of India.
- To discuss Fire Safety Guidelines, Fire & Emergency Prevention Measures.

3. Background –

Fire is a serious threat to the individual and property of any organization. Fires cause numerous injuries, deaths and losses of assets in organizations each year. The public buildings including hospitals, schools/educational institutes, industries, shopping malls, market places and hotels are more vulnerable to fire and losses of lives and property are also higher. Losses from fires are preventable by applying basic fire prevention principles and being prepared for emergencies.

As the growth in global population drives towards greater urbanization, more people are living in higher density, high-rise developments containing numerous uses and occupancy types. At the same time, our urban areas are encroaching on wild land spaces, creating increased areas of risk for wild land-urban and semi-urban interface fires. In the highly populated developing country like India, the risk is very high.

A study on “195-nation analysis by Global Diseases Burden” published during December 2019 in the BMJ Injury Prevention journal, UK indicates that every fifth fire in the world is in India. The study indicates that around 9 million

fire incidents and 1.2 lakh deaths were recorded across the globe in 2017. Out of that, India recorded 1.6 million fire incidents and 27,027 fire-related deaths. In fact, the study highlights that every fifth fire-related death in the world in 2017 took place in India. The study also highlights that children (under 5 years) and adults (above 60) are the biggest fire victims — a trend seen in urban India as well.

Various notable fire incidents in past such as School fire incident in Kumbakonam, Tamil Nadu in 2004, IOC Depot in Jaipur in 2009, AMRI Hospital at Kolkata in 2011, Maharashtra Mantralaya in 2012, Lok Nayak Bhawan in New Delhi in 2017, Arpit Hotel in New Delhi in 2019, Commercial Centre fire in Surat in 2019 and fire incidents in factories in New Delhi highlighted the need to take effective measures for fire prevention in urban areas.

Fire prevention should be our first priority, as it is the primary strategy for fire safety to reduce the fire incidents; however, mitigation measures for rapid detection, raising the alarm, containment and suppression must also be put in place, in addition to reliable measures to rapidly evacuate personnel and others. Regular inspections in schools, factories, hotels, hospitals, business centres and High-Rise Building and implementation of Fire Safety norms given in National Building Code (NBC) of India could help us to reduce such incidences. There is a massive need to train the children and adults in fire safety measures. Mock-drills in schools, institutions and high-rise buildings during regular intervals are must.

For fire prevention, it requires the highest level of systematic planning and preparedness at the managerial level, including proper procedures and continuous training. Effective management practices require the development and implementation of policies and procedures to protect personnel and property by preventing and/or dealing with fires and preparing for emergencies. It is important to have adequate infrastructure to support fire safety systems and provide the necessary resources to fight fires.

The Government of India, Ministry of Home Affairs had circulated the Model Fire Force Bill in 1958. On the basis of this, around 24 States/UTs have enacted their Fire Service Act and framed the Rules. Fire Service role has changed dramatically in the last few years. At present Fire Service is being utilized not only in responding to fire incidents but also for responding the local emergencies such as building collapse, search and rescue, nuclear-biological disasters and train/road accidents. Apart from response, fire

prevention and mitigation assume more importance considering the increasing nos. of fire incidents day-by-day especially in urban areas. It has been said that "when the experts panic, they call the fire department." Considering the change in role of "Fire Service", this Ministry has modified the Model Fire Force Bill, 1958 to include Fire Prevention & life safety regulations, enforcement of fire protection measures as per latest National Building Code of India and Disaster Management. The Ministry of Home Affairs has prepared a new bill titled as "Model Bill for the Maintenance of a Fire & Emergency Services for the State" in 2019 with the request to enact/amend the State Fire Service Act/Rules accordingly. This will allow States to implement the latest safety measures in mitigating the fire & emergency hazards.

The some of the major issues in ensuring fire & emergency safety are as follows:

- Negligence and disregard for appropriate safety measures, including fire safety, at any level of responsibility is likely to directly add risk to lives, assets and programme delivery.
- Many of the public buildings in India including schools, markets, health centres and heritage are old building structures. These precincts have poor electric wiring, lack of fire safety equipment, poor circulation systems, encroachments which makes them vulnerable to short circuit and fire.
- New and emerging technologies pose electrical and other challenges that could initiate fires in ways that have never been seen before. New Building materials and systems are regularly introduced into the marketplace and need assessment relative to their fire performance. Another challenge is the growing attention to Building envelope performance – including thermal performance, air leakage, permeability, water infiltration, etc. In some areas, this is even driven by changes to local codes and regulation.
- Lack of awareness and skills about using fire safety equipment and plans of users and staffs play a major role. It increases the vulnerability of the people.

4. Fire and Emergency Safety Issues in Hospitals

The Pan American Health Organization (PAHO) and the World Health Organization (WHO) have defined a 'safe hospital' as one that "will not collapse in disasters, killing patients and staff; can continue to function and provide its services as a critical community facility when it is most needed; and organized, with contingency plans in place and health workforce trained to

keep the network operational”. To be safe, hospitals need to be designed for every eventuality. At the heart of it lies poor hospital design and lack of policy implementation. There is lack of awareness of safety at the national and the state level when such policies are planned.

A study on fire incidents in major hospitals of India indicates that about 35 major fire incidents were reported during the last decade (2010-2020). The most common cause of fire was due to electrical short circuit out of which 78% with air conditioners being the most common source. Functional fire fighting systems were reported in 19 incidents. Fires originated at or near intensive care units (ICU’s) in 10 instances. 72.72% accidents occurred at night (8:01 p.m. to 7:59 a.m.). Casualties were reported in 39% of the fire accidents.

Recently, another fire accident occurred in Patel Welfare Hospital, a designated COVID-19 facility, in Bharuch city, Gujarat, caused deaths of 18 people, including two healthcare workers and 16 patients.

Hospitals need to prioritize periodic testing of fire fighting systems and regular training of staff on their use. Judicious placement of electrical equipment combined with oxygen monitoring devices in intensive care areas should also be prioritized. Storage of flammable materials and placement of central gas supply points should be away from the vicinity of patient care areas and always in conjunction with robust fire detection and control methods. Hospitals should adhere to their planned capacity.

5. Scope of the Training:

- The training programme will intensify the knowledge of the disaster management authorities, fire professionals and health professionals about the issues and needs in the field of fire and emergency safety and prevention measures in the public buildings with specific reference to the hospitals/ health facilities.
- The training will guide the audience in understanding the importance of fire safety policy and measures to prevent disasters & emergency scenarios. Also learning from the past incidents and case studies will pave the way in future practice.
- This training programme will be under the supervision for experts who understand and manage the importance of fire guidelines, plans and policies to practices in future.

6. Organization Brief:

i. National Fire Service College (NFSC), Nagpur, Government of India

National Fire Service College (NFSC) was established in 1956 and it is one of the allied organizations of Disaster Management Division under the functioning of Director General (Fire Services, Civil Defence & Home Guards), Ministry of Home Affairs, Government of India with the aim of providing training to the fire officers of the country in advanced techniques of firefighting & rescue and creating uniformity in the fire service organizations and their management across the country.

In India, situated right in the heart of the great historic city of Nagpur, National Fire Service College owes its existence to organize advanced training of Fire Officers rendering valuable technical training and provide knowledge to higher levels of echelons in the Country. Slowly gaining importance, a need was felt to bring the area of Firefighting into more scientific basis and the vision of Prof M.G. Pradhan, the Commandant/First Director of the present college, felt that there should be a uniformity in the fire service organizations and their management across the country. Every Six Months of period, NFSC trains 30 Divisional officers, 45 number of Station officers & Instructors, more than 240 sub-officers at Regional Training Centers in order to support the State Fire Services and Central Organizations by rendering valuable technical training and provide knowledge to higher levels of echelons.

Slowly gaining importance, a need was felt to bring the area of Firefighting into more scientific basis and the vision of Prof. S.K. Ghosh, Director felt that there should be a college devoted entirely to all technical aspects of firefighting brings the discipline of Fire engineering. With this aim, NFSC has introduced a Bachelor of Fire Engineering program of 3 and half years duration as post B.Sc. in 1978 affiliated to the Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU) with an aim to generate technically competent fire engineers for the numerous fire hazard prone organizations of the country. This 3 and half years B.E (Fire Engineering) program has continued from 1978 to 2004 and discontinued due to lack of in fracture.

This was further strengthened by the Government of India in 2010 when an up-gradation scheme was approved and implemented with full-fledged facilities and groomed to world class facilities at National Fire Service College.

With this up gradation, the NFSC has planned to run 27 fire prevention & protection courses and again introduced a Bachelor of Fire Engineering programme in 2015, affiliated to the Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU) as per the norms of the All Indian Council for Technical Education (AICTE) with an aim to generate technically competent fire engineers for the numerous fire hazard prone organizations of the country. The students/trainees of this college will be undergone the rigorous physical training sessions and practical demonstrations as defined in academic and training curriculum prescribed by the RTMNU and AICTE.

The National Fire Service College is only institution offering a B.E. (Fire Engineering) under the Ministry of Home Affairs, Government of India. National Fire Service College is only one of its kind in the Country and perhaps in the whole of Asia.

The buildings of the new NFSC campus have all been styled to take into account future requirements and would be the best in the country. With changing technological front, NFSC keep updating laboratories, infrastructure, computers, and machinery from time to time.

ii. National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Government of India

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 redesignation 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 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.

NIDM is proud to have a multi-disciplinary core team of professionals working in various aspects of disaster management. In its endeavour to facilitate training and capacity development, the Institute has state-of-the-art facilities like class rooms, seminar hall and video-conferencing facilities etc. The Institute has a well-stocked library exclusively on the theme of disaster management and mitigation. The Institute provides training in face-to-face, on-line and self-learning mode as well as satellite based training. In-house and off-campus face-to-face training to the officials of the state governments is provided free of charge including modest boarding and lodging facilities.

NIDM provides Capacity Building support to various National and State level agencies in the field of Disaster Management & Disaster Risk Reduction. The Institute's vision is to create a Disaster Resilient India by building the capacity at all levels for disaster prevention and preparedness.

7. Schedule of the Webinar

DAY 1:

Time	Topics	Panelists
Day 1: 25.08.2021 (Wednesday)		
2.30 pm to 2.35 pm	Welcome and Introductory Remarks	Dr. Garima Aggarwal, Senior Consultant (Resilient Infrastructure), NIDM
2.35 pm to 2.45 pm	Keynote Address	Maj. General M.K. Bindal Executive Director, NIDM
2.45 pm to 2.55 pm.	Inaugural Address	Mr. Taj Hassan, IPS, Director General, Office of the DG(FS, CD & HG), MHA, GoI
2.55 pm to 3.00 pm	Vote of Thanks	Dr. Goutham Kumar Nadakuditi, Assistant Professor, NFSC
3.00 pm to 3.10 pm	Program Introduction and Context setting for the day	Dr. Garima Aggarwal, NIDM
3.10 pm to 3.40 pm	Session 1: Fire and Emergency related Concerns in Public Buildings – Challenges and Lessons learnt	Dr. D.K Shami, Fire Advisor, DG(FS, CD & HG) MHA, GoI
3.40 pm to 4.20 pm	Session 2: Fire and Emergency Safety Measures as circulated in various Act, Rules & Regulations, Code and Standards for Public Buildings- [With specific reference to Hospitals and Health facilities]	Mr. Ashok Menon, Director, Directorate of Fire & Emergency Services, Government of Goa
4.20 pm to 4.30 pm	Questions and answers and Summing Up	Moderated by NIDM

DAY 2:

Day 2: 26.08.2021 (Thursday)		
2.30 pm to 2.35 pm	Briefing of Day 1 and context setting of the day	Dr. Garima Aggarwal, NIDM
2.35 pm to 2.55 pm	Key Note Address	Prof. Chandan Ghosh, Head, Resilient Infrastructure, NIDM
2.55 pm to 3.35 pm	Session 2: Guidelines on fire & emergency safety in Hospitals & Healthcare Providers with reference to a Case Study.	Mr. Debpriya Biswas , Addl. Director General (Retd), West Bengal Fire Services
3.35 pm to 3.45 pm	Questions and answers	Moderated by NFSC/NIDM
3.45 pm to 4.25 pm	Session 3: Emergency preparedness and response in Hospitals through ISO 45001:2018 - International Standard for Occupational Health and Safety Management System	Ms. Keerthi D'Souza, Managing Director, Life Giver Professional Services
4.25 pm to 4.30 pm	Questions and answers/ Summing up	NIDM/NFSC

DAY 3:

Day 3: 27.08.2021 (Friday)		
2.30 pm to 2.35 pm	Briefing of Day 2 and context setting of the day	Dr. Garima Aggarwal, NIDM
2.35 pm to 2.45 pm	Address	Dr. Amir Ali, Assistant Professor, NIDM
2.45 pm to 3.25 pm	Session 4: Fire & Emergency Prevention Measures in Hospitals	Sh. N.K Bishnoi, Director Fire Service, Gujarat
3.25 pm to 3.35 pm	Questions and answers	Moderated by NFSC/NIDM
3.35 pm to 4.15 pm	Session 5: Hospital Disaster Management Plan and Organizing a mock drill in a Hospital	Dr. Lallu Joseph, Secretary General, CAHO Associate GS & Quality Manager, CMC Vellore
4.15 pm to 4.25 pm	Question and Answers / Summing up	Moderated by NIDM
4.25 pm to 4.30 pm	Vote of Thanks	Gautham

8. DAY 1:

The program was initiated by Dr. Garima Aggarwal, Senior Consultant (RID), NIDM, who welcomed the dignitaries and participants and gave an overview of the training program. She set the context of the program by sharing that various notable fire incidents in past such as Uphar Fire in 1997, School fire incident in Kumbakonam, in 2004, IOC Depot in Jaipur in 2009, AMRI Hospital at Kolkata in 2011, Maharashtra Mantralaya in 2012, Arpit Hotel tragedy in Delhi & Commercial Centre fire in Surat in 2019, fire accidents in factories in New Delhi and Covid hospital in Gujarat are noteworthy examples which highlight the need to take effective measures for fire prevention in public buildings. She indicated as public buildings have high population density as well as full of electrical and mechanical infrastructure, the need of fire prevention in these buildings is very high. She had given a brief introduction for each day, also shared her experience and observations from her works. She had also introduced all the expert dignitaries of the program. She indicated that this module for training would be one of its own kind which will bring expertise available not only in the area of fire & emergency safety but also experts from infrastructure related institutions to discuss the vulnerabilities and issues associated with the public buildings. She had moderated the session and involved the speakers and participants in interactive discussions.

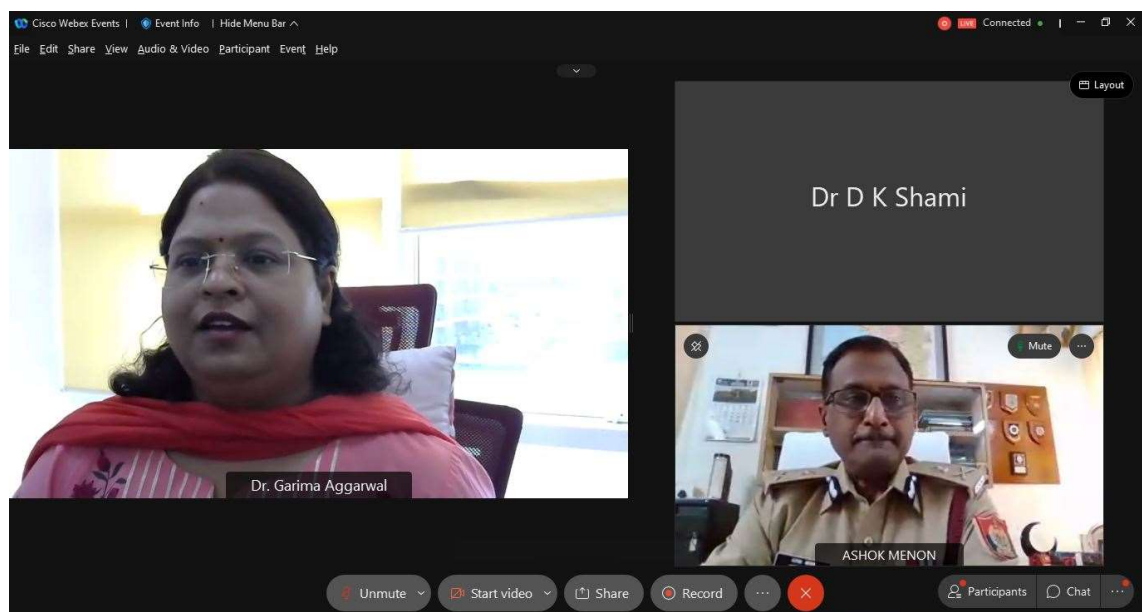


Photo 1 Dr. Garima Aggarwal, Senior Consultant (RID), NIDM initiated the programme,

Keynote Address:

Keynote Address had been delivered by Maj. General M.K. Bindal, Executive Director, NIDM. He mentioned about the need of the fire safety due to the rapid growth in building construction and urbanization. He also added the issues like violation of guidelines, lack of awareness of the fire safety, use of residential buildings as commercial spaces with the examples of commercial building fire attacks in Delhi and Surat. He talked about the three major reasons of fire attacks in buildings, those are electric short circuit, LPG Gas/Gas stoves, and Human negligence.

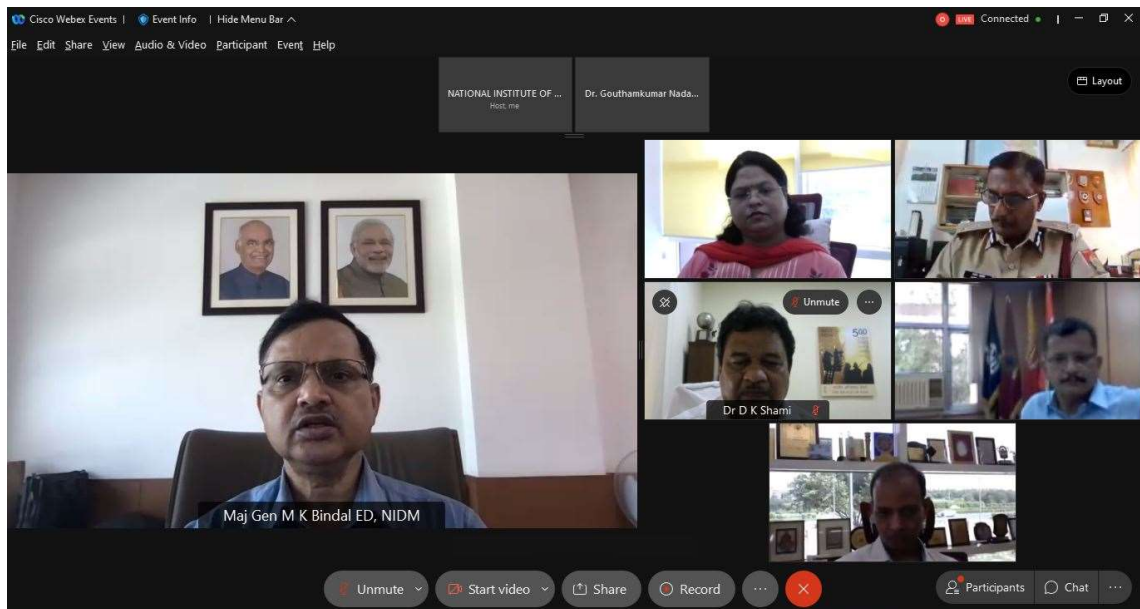


Photo 2 Keynote Address by Maj. General M.K. Bindal , Executive Director, NIDM.

Inaugural Address:

Inaugural Address had been delivered by Mr. Taj Hassan, IPS, Director General, Office of the DG(FS, CD & HG), MHA, GoI. He shared his long experience heading the fire units in Andaman. He mentioned the major reasons of fire attacks in Andaman are using wood as building material. He added that the major problem of rescue is the poor resources available in the fire stations. He has also mentioned the issues of accessibility to the older areas of Delhi in case of fire. He added the importance of awareness and training programs for fire safety.



Photo 3 Inaugural Address by Mr. Taj Hassan, IPS, Director General, Office of the DG(FS, CD & HG), MHA, GoI.

Address:

Prof. Chandan Ghosh made remarks on the importance of the fire and emergency prevention. He described the importance of the training programme, he added different new and upcoming technologies which are available in the market for fire safety measures and mock drill purposes.

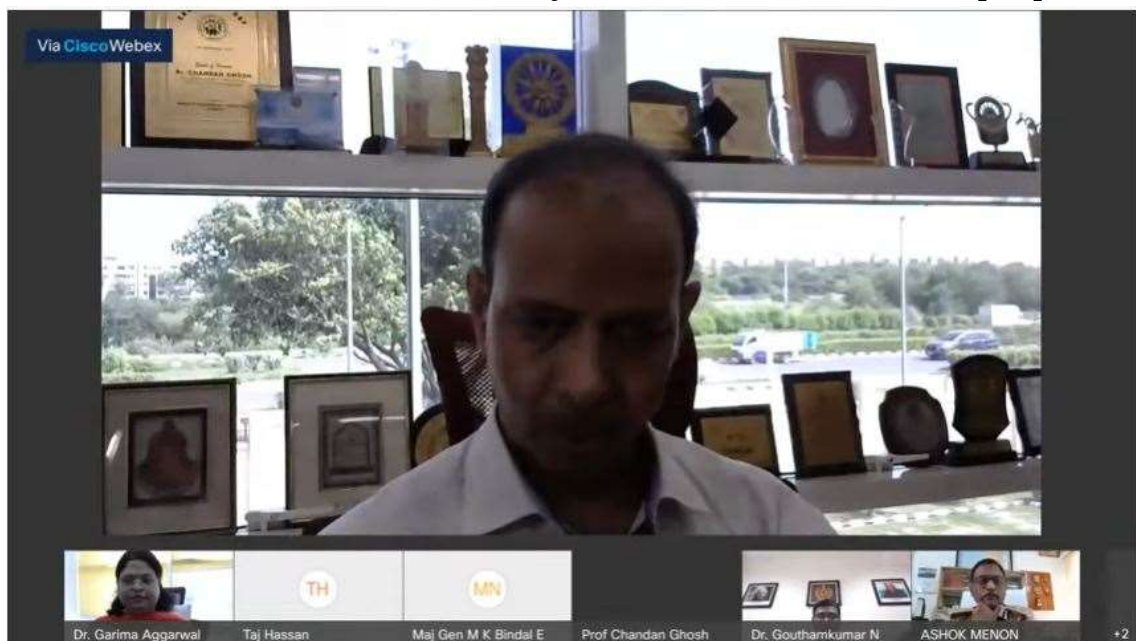


Photo 4 Prof. Chandan Ghosh made remarks on the importance of the fire and emergency prevention.

Eminent Speaker for Session 1:

Lecture:

Dr. D.K Shami, Fire Advisor, Director, NFSC, Nagpur, MHA, GoI, delivered lecture on Fire and Emergency related Concerns in Public Buildings – Challenges and Lessons learnt. He briefed about the gaps in implementing by-laws and guidelines for the hospitals and health facilities. He also talked from a fireman perspective, difficulties faced in the past incidents, violation of rules by the hospitals. He stated that there are more than 10 guidelines on fire safety but we need to take care of local byelaws and regulations while planning for fire prevention. However, the issue is implementation of fire prevention measures. He discussed about importance of fire auditing in ensuring maintenance of the buildings and also indicated need to having an emergency plan for hospital.

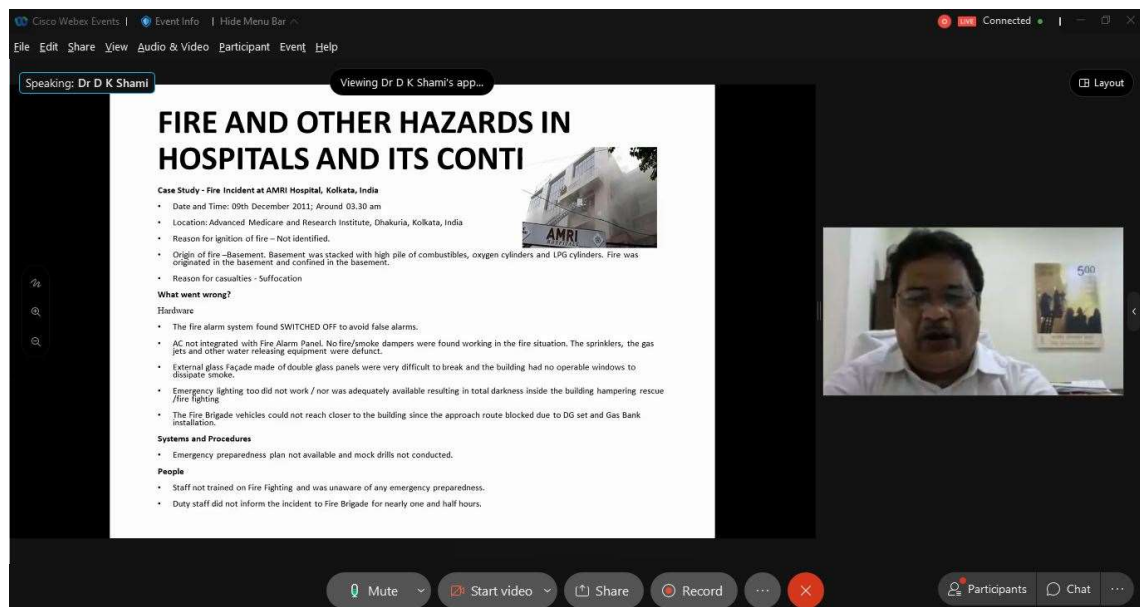


Photo 5 Dr. D.K Shami, Fire Advisor, Director, NFSC, Nagpur, MHA, GoI, delivered lecture on Day 1.

Eminent Speaker for Session 2:

Lecture:

Mr. Ashok Menon, Director, Directorate of Fire & Emergency Services, Government of Goa shared insights on Fire and Emergency Safety Measures as circulated in various Act, Rules & Regulations, Code and Standards for Public Buildings- [With specific reference to Hospitals and Health facilities]. Dr Menon spoke about rules and regulations, comparative analysis of fire incidents in last decade, fire incidents and reasons from 2011 – AMRI, Kolkata incidents to present fire attacks in covid hospitals.

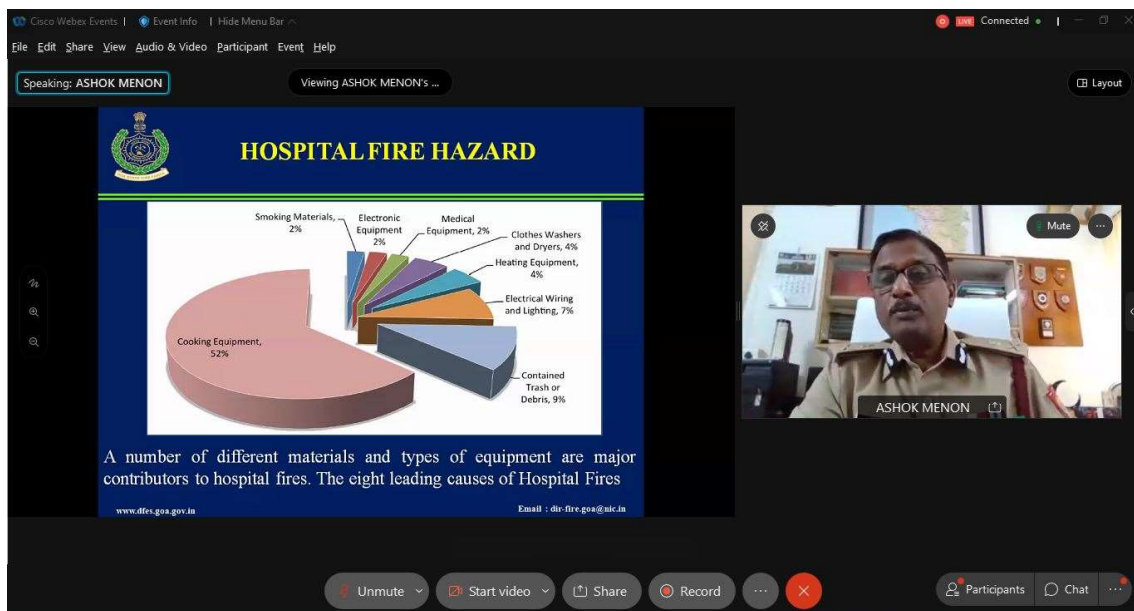


Photo 6 Mr. Ashok Menon, Director, Directorate of Fire & Emergency Services, Government of Goa had presented on Day 1

9. DAY 2:

Welcome and Introductory Remarks with continuations of yesterday's sessions by **Dr. Garima Aggarwal, Senior Consultant (Resilient Infrastructure), NIDM** (Convenor). She had briefed about the previous day's session along with the key notes and learnings from the last two presentation. She also briefed about the detail schedule of day 2. She moderated the day 2 program and question & answer session with an interactive discussion. She highlighted that although most of the cases of fire are due to short circuits and low maintenance of the buildings, very interestingly it was identified with support of data that in many cases the cause of ignition of fire in hospitals is due to cooking/ kitchen related negligence. She stated that Hospitals are life line buildings which has high population density i.e. too vulnerable population (the diseased, dependents, old, pregnant women, infants, toddlers and children) which would require support to evacuate. These buildings do have the best and the costliest infrastructure for life safety, so the loss of infrastructure of a hospital is irreparable in the country like India where we always talk about shortage of medical resources in the villages, towns and cities.

Prof. Chandan Ghosh, Head Resilient Infrastructure Division, NIDM made address on the importance of the fire and emergency prevention. He also presented the importance of fire alarms, use of machine learning, AI, IoT devices and emergency alert systems. He added the importance of structural safety, mock drills, precautions for multi-hazard impacts e.g. fire attacks due to earthquakes. He shared a video presentation on 'comparison of Post fire assessment in sprinklered room and non-sprinklered room'.



Photo 7 Prof. Chandan Ghosh showing importance of non-structural measures in buildings.



Photo 8 Prof. Chandan Ghosh made address on the importance of the fire and emergency prevention and shared important presentations.

Eminent Speaker for Session 3:

Lecture:

Mr. Debpriya Biswas, Addl. Director General (Retd), West Bengal Fire Services, delivered lecture on 'Guidelines on fire & emergency safety in Hospitals & Healthcare Providers with reference to a Case Study'. He briefed about his professional experience over last three decades including the case of AMRI Hospital, West Bengal fire attack in 2009 in detail. He mentioned major reason of the fire attack are due to structural safety and placement of non-structural elements, use of flammable elements for the interior, lack of design knowledge, lack of networking, absence of an operational Hospital Disaster Management Plan, limited access to the hospital, no action plan from hospital side and lack of awareness. He also added important of hospital disaster management plan, 'what we need to do' and the learnings from his experience.

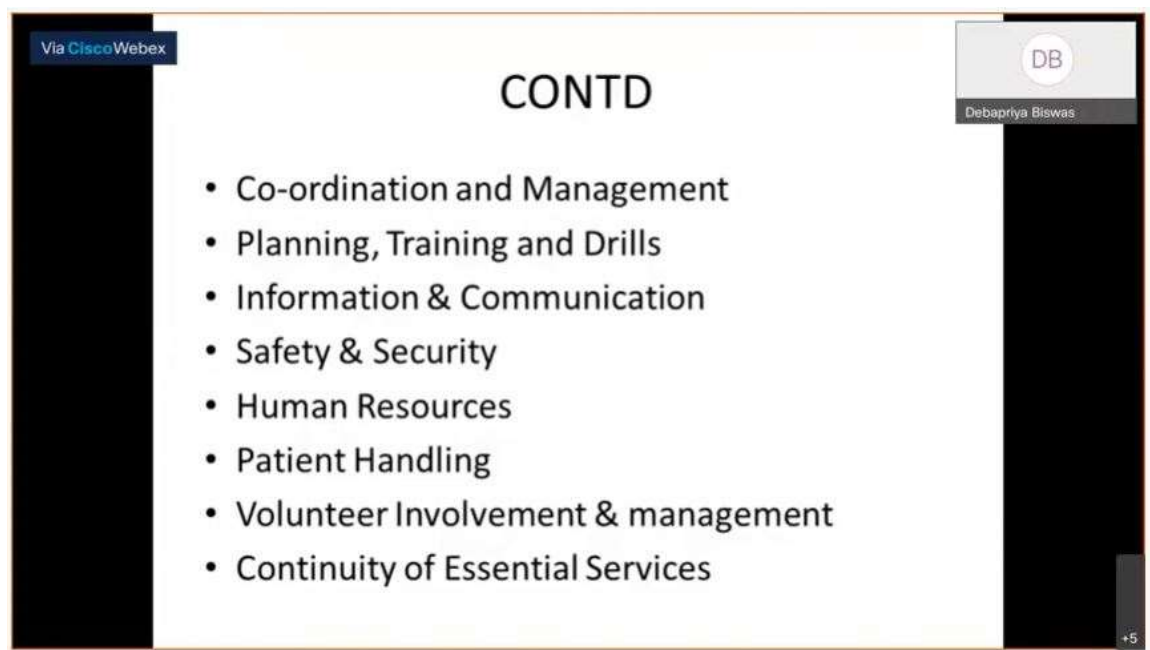


Photo 9 Mr. Debpriya Biswas, Addl. Director General (Retd), West Bengal Fire Services, delivered lecture on Day 2.

Eminent Speaker for Session 4:




Lecture:

Ms. Keerthi D'Souza, Managing Director of life Giver professional service delivered lecture on 'Emergency preparedness and response in Hospitals through ISO 45001:2018 - International Standard for Occupational Health and Safety Management System.' She had highlighted the requirement of emergency preparedness from the design and construction level. Also mentioned the infrastructure need, awareness plan. She had mentioned perspective of the economy, social and environmental impact of poor preparedness. She talked about the document called 'Occupational safety and health in public health emergencies: A manual for protecting health workers and responders', was released in 2018 by ILO. She briefed the 'Occupational health and safety management system (OH&SMS) – ISO 45001:2018' in details from management perspective.


Via CiscoWebex

GA
Garima Aggarwal
Life Giver Professional Service LLP

Emergency Preparedness in Healthcare through International standard for Occupational Health and Safety Management system -ISO 45001:2018

National Fire Service College (NFSC), Nagpur
&
National Institute of Disaster Management (NIDM), MHA, Govt. of India
is jointly organizing a three days Online Training Programme on
Fire & Emergency Prevention in the Public Buildings: Hospitals and Health Facilities



By
Keerthi D Souza
B.E, MTech, PGDHRM
Managing Director
Life Giver Professional Services
Email: keerthi.dsouza@lgsplp.com

LIFE GIVER PROFESSIONAL SERVICE

+5

Photo 10 Ms. Keerthi D'Souza, Managing Director of life Giver professional service delivered lecture on Day 2

10. DAY 3:

Welcome and Introductory Remarks with a brief of previous sessions by Dr. Garima Aggarwal, Senior Consultant (Resilient Infrastructure), NIDM (Convener). She had given a brief description about day 2 event including the importance of International Standard for healthcare and learning from the case studies. She had added the importance of 3rd day of the event with reference to mock drill, disaster management plan. She had also moderated the sessions along with question and answer sessions.



Photo 11 Dr. Garima Aggarwal, Senior Consultant (Resilient Infrastructure), NIDM (Convener) moderated the sessions.

Address:

Sh. K.K. Bishnoi, Director Fire Service, Gujarat had shared his valuable knowledge and experience of Fire & Emergency Prevention in the Hospitals especially from the covid-19 hospital fire attacks. He mentioned the issues about the overloaded equipment, healthcare staffs, patients and high flammable materials.



Photo 12 17. Sh. K.K. Bishnoi, Director Fire Service, Gujarat had shared his valuable knowledge and experience

Address:

Dr. Amir Ali Khan, Assistant Professor, NIDM made address on the importance of the fire and emergency management plan for hospitals and healthcare centers. He mentioned about the challenge of sustainable, functional and disaster safe hospitals. He added the national level example to elaborate the impact of hospital safety with the example of Gujarat earthquake. He also mentioned the importance about hospital recovery, reconstruction stages with the example of Kolkata hospital fire attack. He added international cases and WHO guidelines.



Photo 13 Dr. Amir Ali Khan, Assistant Professor, NIDM made address

Address:

Prof. Chandan Ghosh, Head, Resilient Infrastructure, NIDM shared valuable video on earthquake and fire resilient hospital for future, research of University of California.



Photo 14 19. Prof. Chandan Ghosh, Head, Resilient Infrastructure, NIDM shared knowledgeable video

Eminent Speaker for Session 5:

Lecture:

Mr. Manish Modh, Fire professional, Directorate of Fire Prevention Service, Gujarat, delivered lecture on 'Fire & Emergency Prevention Measures in Hospitals'. He briefed healthcare facilities challenges, the role of fire professional in the fire site, the causes of Covid hospital fires, the risks and challenges faced by the firemen in the Covid hospital fire attack cases in Gujrat. He has also shared the major focus of plans of his team to handle the Covid hospital fires. He mentioned their objective towards fire prevention which is about awareness, training program and mock drills. He added the importance of updating database for each hospital to prevent risk. He also concluded with the case studies of successful operations in the covid hospital fires with no casualties.

The screenshot shows a presentation slide titled "Defend in Place" from a Cisco Webex session. The slide is divided into three horizontal sections, each with a title on the left and a list of bullet points on the right. A small video inset in the top right corner shows a man, identified as K. K. Bishnoi, speaking. The slide also features a small image of a fire truck in the bottom left corner.

Section	Key Points
STAFF TRAINING	<ul style="list-style-type: none">• Triage patients to evaluate ability to evacuate / defend in place• Clear Priority of Actions / Clear idea of duty• Drill, Drill, Drill• Identify Champions who ensure implementation of policies made at an administrative level
IMPLEMENTATION	<ul style="list-style-type: none">• Policies are only as good as their implementation• Regular checks of equipment and staff readiness• Continuous education related to fire safety• Fire Drills with the local authorities.
ADMINISTRATIVE BUY-IN	<ul style="list-style-type: none">• Cannot be successful without the buy-in of the top people in the organization• Clear Mandate for Safety – Patient and Staff alike

Photo 15 Mr. Manish Modh, Fire professional, Directorate of Fire Prevention Service, Gujarat, delivered lecture.

Eminent Speaker for Session 6:

Lecture:

Dr. Lallu Joseph, Secretary General, CAHO Associate GS & Quality Manager, CMC Vellore delivered lecture on ' Hospital Disaster Management Plan and organizing a mock drill in a Hospital.' She presented the steps of preparing a hospital management plan and on how to conduct a mock drill in the hospital. She also explained the steps of the emergency preparedness. She mentioned the locational risk for the hospitals with risk score table. She shared the document of fire emergency plans with detailed explanation of each level of the same. She concluded with the detail description of the processes of whole mock drill operation and after exercises.

S. No	ICU	Alternate care site	Route	Alternate care site 2	Route
6	PES (Critical)	ED	PES - Move through MCTT counters to reach ISSCC ramp - Get down through the ramp and cross the road to reach ED	CCU	PES - Move through MCTT counters to reach ISSCC ramp - Get down through the ramp and cross the road to ED - Move towards cardiology corridor - Turn left through GS gate (Security check point) - move towards GS Office corridor - turn right and then left to CCU
7	CCU	ED	CCU - Take GS Office corridor and move towards chapel side - turn left towards CBMD to reach GS gate (security check point) - turn right in cardiology corridor to reach ED	KICU	Take ENT lift - get down in first floor - Move in the connecting bridge towards Q block - Turn left towards KICU
8	AICU	ENT OR/ Recovery	AICU - Take lift 35 to 1 st floor - Move in the connecting bridge to reach Main Building - Turn right towards B ward - Turn left through Nuclear Medicine corridor to reach ENT OR	NTICU	AICU - Take lift 35 to 1 st floor - Move in the connecting bridge to reach Main Building - Turn right towards B ward - Turn left through Nuclear Medicine - Turn right towards N-ward, turn left into N2 ward and reach NTICU
9	NTICU	KICU	NTICU - Move in the connecting bridge towards Q block - Turn left towards KICU	ENT OR/ Recovery	Move to ENT OR/ Recovery

35

Photo 16 Dr. Lallu Joseph, Secretary General, CAHO Associate GS & Quality Manager, CMC Vellore delivered lecture

11. Valedictory Session

Dr. Garima Aggarwal summed up the three days training program. She indicated that each learning session had detailed discussions and question answer session between speakers and participants for all three days. She highlighted the need of implementation of fire prevention norms, standards and international standards for the hospitals in place. There is a need to protect the vulnerable section of a hospital i.e. patients, manpower and health infrastructure. She emphasized that hospitals should be in working condition when they are needed the most, so importance of DM plan & regular mock drill is must. She also presented key take aways from the training program.

Dr. Gouthamkumar Nadakuditi, Assistant Professor, NFSC summed up in the last and presented the vote of thanks for all three days.



Photo 17 Dr. Gouthamkumar Nadakuditi, Assistant Professor, NFSC

12. Key Takeaway:

- There is a need to strengthen the institutional system to implement the fire prevention norms, standards and international standards for the hospitals in place. Local byelaws and regulations should be taken care of while planning for fire prevention. Fire auditing in ensuring maintenance of the building is essential.
- Hospitals are life line buildings which has high population density i.e. too vulnerable population (the diseased, dependents, old, pregnant women, infants, toddlers and children) which would require support to evacuate.
- Health related buildings do have the best and the costliest infrastructure for life safety, so the loss of infrastructure of a hospital is irreparable in the country like India where we always talk about shortage of medical resources in the villages, towns and cities. We need to ensure the safety of structural aspects of the hospital building as well as non-structural elements like architectural elements, electrical equipment, oxygen related equipment as well.
- About 52 % fire in hospitals are due to cooking equipment and electrical negligence. New risks added in the hospitals due to use of hand sanitizers and oxygen plants, increasing loads of electrical equipment like ACs.
- For hospitals, preparation of hospital Emergency Management plan cannot be ignored. There is a need to train the staff on regular basis. Mock drills and table top exercises for conducting mass evacuation is another important aspect of it.
- Fire prevention is the need of hour. We have limited resources for response, which are overstressed due to negligence and lack of adoption of preparedness & mitigation measures. We need to build culture of fire prevention.

13. Total no. of registration – 983

Total no. of participation – 699

Total no. of certification – 438 (full filling the criteria of 80% attendance)

14. The YouTube link of the Webinar is mentioned below –

Webinar was held using NIDM Cisco Webex which was also live at YouTube:

Day 1: <https://youtu.be/A8Fb2OcSJ6U>

Day 2: <https://youtu.be/-dg-rdIFm0s>

Day 3: <https://youtu.be/IHL66XMhDQE>

15. **Annexure I : List of Participants who attended the Webinar**

No.	Name	Attendee Email
1	Anubhav Singh	anubhav17061999@gmail.com
2	Manish Kumar Patle	satishpatle321@gmail.com
3	Mukul Deswal	mukuldeswal02@gmail.com
4	Rupal Rewatkar	rupalrewatkar1@gmail.com
5	34ASTO SFRO 4981	kulanganivas4981@gmail.com
6	34ASTOSFRO 4939	sunilfire4939@gmail.com
7	34ASTOSFRO 4957	rajuxavier.rx@gmail.com
8	34ASTOSFRO 4959	sudarsananks8@gmail.com
9	34ASTOSFRO 4960	shajialathukavu@gmail.com
10	34ASTOSFRO 4967	sunilthattarkonm@gmail.com
11	34ASTOSFRO 4973	remeshchiravattom@gmail.com
12	34ASTOSFRO-4945	manirajanmdtra@gmail.com
13	34ASTOSFRO-M- 2051	vijayanc4127@gmail.com
14	AA SARMA	apsarma1@gmail.com
15	Aadesh choudhari	aadeshchoudhari1234@gmail.com
16	aaditya sankale	nfsc571001@gmail.com
17	Aaftab Alam kanoje	aaftabkanoje@gmail.com
18	Aamir Ali	aamiralimir@gmail.com
19	abdu ssameem	sameem9814@gmail.com
20	Abdul Azeem Shaikh	sa_azeem2004@yahoo.com
21	Abdul Gafoor OK	pmc@imbichibavahospital.com
22	abdul salam	frseloor@gmail.com
23	Abdul Shukkur	abdulshukkurtdy999@gmail.com
24	Abdul Wahab Palwala	0808ft191005.ies@ipsacademy.org
25	ABHIJITH V P	abhijithchlr@gmail.com
26	Abhilash K R	abhikr101@gmail.com
27	abhilash krishnankutty	abhikutty1985@gmail.com
28	Abhinnya Roshan	abhinnya10@gmail.com
29	Abhishek Chaudhary	abhi9456416552@gmail.com
30	Abhishek Kumar	maxxmansabigha@gmail.com
31	Abilal Rang K. S	abilalrangks@gmail.com
32	Aby mathew	abyedakkara@gmail.com
33	ADHITH BHASKER	adhithbhasker@gmail.com
34	ADIL HAKEEM khan	adilhakeemkhan24@gmail.com
35	adith bhasker	adhithbhasker@gmail.com
36	Aditya	adityaskokane@gmail.com
37	ADMINISTRATOR d	stjosephhospitalchoondal@gmail.com
38	adwaith A Nair	dhanyaabhilal@gmail.com

39	ahmed	ahmedkozhikode@gmail.com
40	Aishwarya Gupta	ishu4872@gmail.com
41	Aishwarya Zade	aishwaryazade200@gmail.com
42	AJAY BALA	ajaybala4423@gmail.com
43	Ajikumarbabu	ajikumarbabu4301@gmail.com
44	ajinkya Salunkhe	salunkheajinkya70@gmail.com
45	ajish	kmarajish54@gmail.com
46	AJITHA V VIDYADHARAN N	drajithaanil@gmail.com
47	Ajmeera shashank	ajmeerashashank2001@gmail.com
48	Akash CS	akash.c.s121@gmail.com
49	Akhil	akhilpuppy89@gmail.com
50	Akhil Mohan	akhilmohan5555@gmail.com
51	AKHIL R V	arvkannan@gmail.com
52	AKHILA KISHORE MALLICK	akhilakishoremallick@gmail.com
53	Akshat Chauhan	akshat.c400@gmail.com
54	Akshat Kumar	itsakshathere@gmail.com
55	ALAN KURIAN	alankurian007@gmail.com
56	albiya sebastian	albiyasebastian@gmail.com
57	Aman kumar	amanakv113114@gmail.com
58	Aman Rana	amanrana0829@gmail.com
59	Amanpreet Kaur	amanpreet1308@gmail.com
60	ameena shaijas	ameenashaijas@gmail.com
61	Ameerudheen.kp	ameerkpuniyil1@gmail.com
62	AMITAVA SARDER	amitava.sarder@gmail.com
63	Amjad Naaz	environbuddy@gmail.com
64	Amrit Singh	amrits1892021@gmail.com
65	Anchal khadotkar	anchalkhadotkar7@gmail.com
66	angela khanna	dr.angelakhanna@yahoo.in
67	Aniket Deshmukh	aniketnd2002@gmail.com
68	Anil kumar Chaurasia	goluji145@gmail.com
69	Anil Jathar	jatharanil_mfb@yahoo.co.in
70	Anil Waghmare	anilwaghmare19791979@gmail.com
71	Anilkumar PR	anilkumarpr69@gmail.com
72	Anilkumars	anilkumarspcd@gmail.com
73	ANJALI VERMA	anjusktv@gmail.com
74	Ankit Kumar	ankit412000@gmail.com
75	Ankit kumar	avnishuandme@gmail.com
76	Ankush Katolkar	ankushkatolkar7@gmail.com
77	Ankush Waghmare	ankushlw@gmail.com
78	Anoob babu	anoobreppa@gmail.com

79	ANOOP KUMAR YADAV	anujy8083@gmail.com
80	Anoop Pulachery	anooppulachery123@gmail.com
81	ANU JOHN	anulizajohn@gmail.com
82	anu shree	dr.anushree0011@gmail.com
83	Anurag Singh	anuragsingh35007@gmail.com
84	appu	appukamal10@gmail.com
85	Aravindan N	aravindan.n82@gmail.com
86	Arjun	arjuntupkadih@gmail.com
87	Arnab Bhowmick	bhowmickarnab333@gmail.com
88	ARPIT NAGPURE	nagpurearpit0@gmail.com
89	Arpit Thanekar	arpitthanekar2911@gmail.com
90	Arshad Umar	arshadumar85@gmail.com
91	Arun Pandi	20rds101@aactni.edu.in
92	Arun S S	arunsivan.ss@gmail.com
93	ARUNAVA KARMAKAR	arunavakarmakar723@gmail.com
94	ARUNKUMAR A	arun.mtl3@gmail.com
95	Aryaman Singh	aryamansingh138@gmail.com
96	Aryan	aryandav932@gmail.com
97	Ashar (TSC Hospital)	asharlatheef8490@gmail.com
98	ashish	jhaashish1195@gmail.com
99	ashish Kumar Sharma	sharmaashish1002@gmail.com
100	Ashish Saini	ashishsaini0569@gmail.com
101	ashish shinde	ashish198shinde@gmail.com
102	Ashish Singh	ashishsinghb95@gmail.com
103	Ashish Thakre	ashish.thakre.psi@gmail.com
104	ashishkumar kolhe	kolheashishkumar@gmail.com
105	Ashok	ameghnathi39@gmail.com
106	ASHOK MENON	amenon10@hotmail.com
107	Ashokan.O.K	asokankunnumma@gmail.com
108	Ashutosh Borokar	ashutoshborokar101@gmail.com
109	ASHVIN SONDAWALE	ashvinsondawale1998@gmail.com
110	Ashwani Kumar Mishra	ashwani.k.mishra80@gmail.com
111	ASHWARYA CHOUKIKAR	ashwaryachoukikar1@gmail.com
112	ASHWIN JOSHI	joshiad79@gmail.com
113	Astha Gije	asthagije29@gmail.com
114	ASTOSFRO	pkanil14965@gmail.com
115	Aswathy M S	achamsachu@gmail.com
116	Augustian T	taugustianthankayyn@gmail.com
117	Avee Jain	avee.jain26@gmail.com
118	Avi Dwivedi	avidwivd@gmail.com

119	Avin Naranje	avinnaranje@gmail.com
120	Avinash Bawane	abavinashb@gmail.com
121	avinash kumar singh	akavinash2008@gmail.com
122	avinash singh	akavinash2008@gmail.com
123	Babji Malineni	babjimali@yahoo.com
124	Baburaj	baburajkpfr@gmail.com
125	Baiju D	frscherthala@gmail.com
126	BALRAM SAHU	balramprince12@gmail.com
127	Bandini Darekar	bandinisdarekar@gmail.com
128	BHAAVAN SISTLA	bhaavansistla@gmail.com
129	Bharath A B	bharathab26787@gmail.com
130	Bhargavan	bhargavantk77001@gmail.com
131	Bhawesh Chandra	bhaweshchaniyal@gmail.com
132	BIJOY ABRAHAM	bijoyabraham1985@gmail.com
133	Bijumon S	bijufireadood@gmail.com
134	bilal ahmad lone	lonebilal841@gmail.com
135	Bincy John	palakkulathu@yahoo.co.in
136	bindhu suresh	bindhususeelan2011@gmail.com
137	BINOY P BENNY	binoy.pb1234@gmail.com
138	Bishal Rai	hankimshal@gmail.com
139	Br Robert K.DevAnand	robu937@gmail.com
140	Br. ROBERT K. DEVNAND	robu937@gmail.com
141	Brajen Kalita	kalitabrajen87@gmail.com
142	CEEYAM HOSPITAL	ceeyamhospital@gmail.com
143	CHAITANYA Wagh	ywagh909@gmail.com
144	Chenna Reddy	chennareddy77@yahoo.co.in
145	Chetan sureshrao Mange	chetanmange2341@gmail.com
146	Chinna Birneedi	chinnab1987@gmail.com
147	chintan kokate	chintankokate@gmail.com
148	Chowdepalli Peddi Reddy	cpreddyr312@gmail.com
149	Dana Priya	dhanapriya1126@gmail.com
150	Darshan Dolas	darshandolas15@gmail.com
151	DDMA WEST	ddmawestd@gmail.com
152	Debapriya Biswas	biswasdp@gmail.com
153	Debasish Mishra	debasish.mishra1990@gmail.com
154	Deep Dey	deepjobs1@gmail.com
155	DEEPA DILEEP KUMAR (TSC Hospital)	deepavd23@gmail.com
156	Deepak Chahar	chahardeepak143@gmail.com
157	Deepak soni	deep.soni090@gmail.com
158	Deepanshu	prepareyourself22@gmail.com

159	Devamatha Hospital	devamathakklm@gmail.com
160	Deven Katle	devenkatle83@gmail.com
161	DFO Karimnagar	dfo_krm@yahoo.com
162	Dhamanjit Debbarma	djitdeb123@gmail.com
163	Dhananjay Singh	dhananjay.singh86@gmail.com
164	Dhanesh	dhanesh.dreams@gmail.com
165	dhanya	nimmykjoy@gmail.com
166	Dharamveer Kapoor	kapoordharamveer@gmail.com
167	dharmendra pal	dharmendrap950@gmail.com
168	Dharmesh kosrekar	dharmesh.kosrekar@gmail.com
169	Digendra singh	singhdigendra55@gmail.com
170	Dikshay Chavan	dikshaychavan904@gmail.com
171	Dileep K	diiieepkandoth@gmail.com
172	Dileepkumar P G	dileepchithira4@gmail.com
173	Dinesh Kumar J	dineshkumar1698@ymail.com
174	Dinkan V R	dinkanvr@gmail.com
175	Disha Thakur	ddthakur1602@gmail.com
176	District Fire Officer	dfofrsekm@gmail.com
177	divyam	divyamgarg98963@gmail.com
178	Diwanshu Singh	diwanshurocks.2103@gmail.com
179	Dr Adithya Suresh	dradithyasuresh@gmail.com
180	Dr Ahmed Abdul Haleem Khan	aahaleemkhan@gmail.com
181	Dr Archana Udayan	archanabalu02@gmail.com
182	Dr D K Shami	dkshami@yahoo.com
183	Dr Gouthamkumar Nadakuditi	gowthamkumar218@gmail.com
184	dr riyaz	zayir2000@yahoo.com
185	Dr Shameer Salam	dr.shameer.salam@gmail.com
186	Dr. Garima Aggarwal	agg.garima@gmail.com
187	Dr. Gouthamkumar Nadakuditi	gowthamkumar218@gmail.com
188	Dr. Nutan Deshmukh	nutankdeshmukh@gmail.com
189	Dr. Radha S	drradhas@gmail.com
190	Dr. ROGY.P.OOMMEN	dr.rogysam78@gmail.com
191	Dr. Rubaidath A K.. TH Neendakara	chcneendakara@gmail.com
192	DR. ZAFAR ABBAS A. ALI	drzafarabbas786@gmail.com
193	Dr.Himanshu Yajurvedi	drhim1020@gmail.com
194	Dr.Manavalan Ilakkuvan	imanavalan56@gmail.com
195	Dr.Prajakta Sali	saliprajakta49@gmail.com
196	Dr.ROGY P.OOMMEN	dr.rogysam78@gmail.com
197	DR.SACHIN BHAGAT	drsachbhagat@gmail.com
198	Durgesh kukde	durgeshkukde2012@gmail.com

199	Dushyant Kumar Singh	ds4401507@gmail.com
200	Dusmanta Kumar Swain	dusmantaswain16@gmail.com
201	E S Langshiang	lyngchiangbormi@gmail.com
202	EHTISHAM AHMAD KHAN	eakhan1@gmail.com
203	Er.Mukesh Kumar Saubhagya	mukesh_saubhagya124@rediffmail.com
204	faris	fariatkkt@gmail.com
205	FARSA Viyyur	fireserviceacademythrissur@gmail.com
206	fire and rescue Kollam	baijuanakottoor@gmail.com
207	fire station kottayam	firestationkottayam2021@gmail.com
208	Gagan Upadhyay	gagan.nfsc1997@gmail.com
209	GAGANDEEP	gnkasana66@gmail.com
210	GAJ RATHORE	gajsinghrathore321@gmail.com
211	Gajendra Susvirkar	amansusvirkar@gmail.com
212	Garima Aggarwal	agg.garima@gmail.com
213	Gaurav	gauravats17@gmail.com
214	Gaurav	gorukaliramna999@gmail.com
215	Gaurav Syal	gauravsyal02@gmail.com
216	Gaurav vats	gauravats1234@gmail.com
217	GAUTAM KUMAR	gautamkumar@bharatpetroleum.in
218	gayanand Singh	gnsingh2407@gmail.com
219	Geetha Ravi	raveendratgeeth1234@gmail.com
220	Geo Jojo	geojojo.v@gmail.com
221	George Thomas	georgethomasthomas18628@gmail.com
222	gireesh cp firestation mananthavadi	gireeshleena@gmail.com
223	Girish Kumar S R	girishseetha@gmail.com
224	Godson Albert	godsonalbert7@gmail.com
225	Gokul MP	gokulmp24@gmail.com
226	GOKULSHRIRAM S S	sskumarmadurai@gmail.com
227	Gokulshriram S S	gokulshriram2007@gmail.com
228	Goutam Ray	raygoutam20@gmail.com
229	Gouthamkumar Nadakuditi	gowthamkumar218@gmail.com
230	Hafiz Mohammod Nasir Ghani Haider	nasirgani20@gmail.com
231	HANSRAJ VERMA	hansrajcool04@gmail.com
232	Harbakhsh Singh	hs.civildefence@gmail.com
233	HARI NAIR	nairharisai@gmail.com
234	Hari Sankar Rout	swati_pab@yahoo.co.in
235	Hariharan S	20rds166@aactni.edu.in
236	harinath reddy	harinathoffice@gmail.com
237	Harishchandra Suryakant Narkar	narkarhari@gmail.com
238	Harsh Lochak	harshlochak610@gmail.com

239	Harsh Raj Singh	mohit.mohit.singh73@gmail.com
240	Harshad Dahatonde	harshaddahatonde2015@gmail.com
241	Harshal Allewar	harshalallewar13@gmail.com
242	Harshal Vairagade	hvairagade2000@gmail.com
243	Hatim Hussain	hatimhussain128@gmail.com
244	Hatish	hatishprashar@yahoo.co.in
245	HEMA	yaddanapudihemarao@yahoo.co.in
246	Hemant Bhandari	microchip04@gmail.com
247	Hemkanta Borah	hemkantaborah89@gmail.com
248	Himanshu Kanaujia	himanshus879@gmail.com
249	Himanshu Patel	patelhb@yahoo.com
250	Hitesh bhagat	hiteshbhagat2003@gmail.com
251	HOD (ARFF & MT)	fire@mihanindia.org
252	Ibopishak Singh	mombioinamss@gmail.com
253	IMRAN KHAN	imrankhan101190@gmail.com
254	Indraneel Raut	iraut2002@gmail.com
255	Ishan Bhasin	ishanbhasin@gmail.com
256	J LAWRENCE	lawrence.lawru@gmail.com
257	J.LAWRENCE VU3XQI	lawrence.lawru@gmail.com
258	Jagdish	bas19j@policeuniversity.ac.in
259	James Sebastian	james.khfh@gmail.com
260	Javed Manzoor	javedevs@gmail.com
261	Jayachandran S	jayachandranfire@gmail.com
262	JAYDEVAN jayadevanlekshmees@gmail.com	jayadevanlekshmees@gmail.com
263	Jayesh Gawai	jsgawai244@gmail.com
264	JAYESH MV	jayeshunityhospital@gmail.com
265	JERIN BEJOY PONTAKKEN	jerinbejoy2001@gmail.com
266	Jibin	emshospitalptpm@gmail.com
267	Jibina K V	jibinakv@gmail.com
268	Jithin Mkl	pjithin1989@gmail.com
269	jobin	jobineastmount@gmail.com
270	Joel Rai	jl.770@gmail.com
271	Jogy A S	jogy741@gmail.com
272	johnichan m a	johnichanma@gmail.com
273	Jose A Mekkattukulam	josemekkattukulam@gmail.com
274	Joseph Madari	joseph.madari@gmail.com
275	JYOTHIN RAJ P V	jyothinpv@gmail.com
276	k J mathew	kjmathew101@gmail.com
277	kajal Dahiya	kajaldahiya333@gmail.com
278	Kalpna Meshram	kalpanameshram159@gmail.com

279	Karan Mhatre	kmhatre716@gmail.com
280	keerthi	rasmikuchimanchi@gmail.com
281	KESAVANNAMBOODIRI O C	ockesavannamboodiri@gmail.com
282	khawaish gupta	20bce028@smvdu.ac.in
283	khushant taneja	kushtaneja1@gmail.com
284	Kiran S A	kiransakf@gmail.com
285	Kouashal Kumar	kouashalsingh@gmail.com
286	Kousik Das Malakar	kdmalakargegr92@gmail.com
287	Kovvuru Shanmukharao	kovvurushanmukharao2002@gmail.com
288	Krishan	krishantanwar522@gmail.com
289	Krishnadas P	krishnafire83@gmail.com
290	Krishnan s	skrishnanalanthara1@gmail.com
291	Krishnendra Choudhary	krishnendrachoudhary123@gmail.com
292	Krunal	krunalghubade10@gmail.com
293	krushna Chandra Gouda	krishnahse56@gmail.com
294	KRUSHNA TALMALE	krushnatalmale4321@gmail.com
295	Kumar Ganesan	kumarg@hku.hk
296	Kunal	kunaltomar1268@gmail.com
297	kunal	kunalrayli.kr@gmail.com
298	kunal samtani	kunal.p.samtani@gmail.com
299	Kundan Bind	kbind.bkbk@gmail.com
300	Kuntal Dey	14.kuntaldey@gmail.com
301	Lalan Kumar	lalan_umesh@rediffmail.com
302	Lalit Kumar	lalit20012001@gmail.com
303	Lalit Kumar	lalitshandilya2020@gmail.com
304	Lijam	lijamputhanchery@gmail.com
305	LOKARAKSHAKA HOSPITAL	lokarakshaka15@gmail.com
306	LOKESH KUMAR	lkaushik2224@gmail.com
307	Lubna Siddiqui	s_lubna2004@yahoo.co.in
308	Madhu K R	madhuramachandran03796@gmail.com
309	Mahesh Hegde	mhshhegde@gmail.com
310	mahesh tp	maheshtp7@gmail.com
311	Maj Gen M K Bindal ED, NIDM	ed.nidm@nic.in
312	Mala Community Health Centre	govthosmala@gmail.com
313	Manali Kharade	manalikharede123@gmail.com
314	Manav Praveen	manavpraveen2000@gmail.com
315	Maneesh K.M	karayodil@gmail.com
316	MANIKANDAN K	skmanica@gmail.com
317	Manish Bamnolkar	manishbamnolkar028@gmail.com
318	Manish pandey	manishpandey9145@gmail.com

319	manish ranbhise	viddhi2@gmai.com
320	MANIYAN	maniyankp2054@gmail.com
321	Manju Mehra	manjuvikasmehra@yahoo.com
322	mannjit	sanud4023@gmail.com
323	Manoharan K V	manunairkv@gmail.com
324	Manoj Kumar Jha	manoj61367@gmail.com
325	Manoj Kumar Meena	manoj.meena2010@gmail.com
326	MANOJ KUMAR SHARMA	mksharma4986@gmail.com
327	MANOJ MENON M	manojroyalhospital@gmail.com
328	Manoj S. Nayak	manojisjyothi@gmail.com
329	Manzoor Muhammed	manzoorp1996@gmail.com
330	Mayank Mishra	mayank747602@gmail.com
331	Medical Officer	chcchavara@gmail.com
332	MEDICAL OFFICER FHC NOOLPUZHA	phc.noolpuzha@gmail.com
333	Mercy Mathew	mercymathew893@gmail.com
334	MERLIN K RAJU	qualityindoamericanhospital@gmail.com
335	Mithun Kumar Dey	dey10487@gmail.com
336	Mohammad Maaz Ali	alimaaz2105@gmail.com
337	mohammad shadab siddiqui	ms892437@gmail.com
338	Mohammed Athif	athifm03@gmail.com
339	Mohammed Warsi	warsius@yahoo.com
340	Mohammed Waseem	waseem.mw770@gmail.com
341	Mohit	mohitsatpute031@gmail.com
342	Mohit Chandewar	mchandewar1@gmail.com
343	mohit dongre	mohitdongre021@gmail.com
344	Mohit singh	bravemohitsingh2002@gmail.com
345	Mounesh Badiger	mouneshb360@gmail.com
346	Mt 20206010 Shourya	shouryasharma.mtele20@pec.edu.in
347	muhammed pk	ahsanpm6@gmail.com
348	Mukul Deswal	mukuldeswal02@gmail.com
349	Mukul Tiwari	tmukul1977@gmail.com
350	Murali Naduvalath	muralinaduvalath@gmail.com
351	Murari ji	jimurari007@gmail.com
352	Muskan Mehra	muskan.vikas.mehra@gmail.com
353	Nageswararao Naik B	bnaikenviro@gmail.com
354	Nahush Korde	kordenahush08082000@gmail.com
355	Najmu	najmu2020@gmail.com
356	NAJMUDHEEN ILLATHODI	najmu2020@gmail.com
357	najumudeen	najuarena@gmail.com
358	Naman Rattan	namnrattan8271@gmail.com

359	Naman Shukla	namans0111@gmail.com
360	Nanda krishna nath	itsnkn123@gmail.com
361	Naresh Kumar	nareshkumargju@gmail.com
362	NATARAJAN R	israel.rathinam@gmail.com
363	NATIONAL INSTITUTE OF DISASTER MANAGEMENT	nidm.outreach07@gmail.com
364	Naveen prakash. M	20rds173@aactni.edu.in
365	naveen sehrawat	sahebgreat@gmail.com
366	Navneet	navneetkhatri47@gmail.com
367	navneet khatri	navneetkhatri47@gmail.com
368	Nayan Chide	nayanchide201@gmail.com
369	Nayan Peshne	nayanpeshne01@gmail.com
370	Neelesh Fernandes	neelesh_fernandes@rediffmail.com
371	Neeraj Dubey	dubeyneeraj.2092@gmail.com
372	Neeraj Sharma	neeraj.sharma@iirisconsulting.com
373	Neha	neha.gtm19@gmail.com
374	Neha Gautam	neha.gtm19@gmail.com
375	Neha Goel	nehagoel.agrawal@gmail.com
376	nidheesh kumar	nidheeshpazhery@gmail.com
377	Nikhil Chopade	nikhilchopade514@gmail.com
378	Nikhil K Devassy	nikhildevassy@gmail.com
379	Nikhil Sahasrabudhe	nikhil.njs@gmail.com
380	Nilesh Vetal	nileshvetal@gmail.com
381	Nimish Ugemuge	nimish@ieee.org
382	ninad Nandakumar Jaurat	ninadjaurat@gmail.com
383	NIPIN DAS	nipindasplr@gmail.com
384	Niraj Lakeshri	nirajlakeshri11@gmail.com
385	Niranjan kumar D	niranjanvlr@gmail.com
386	niranjan yadav	nir13090@gmail.com
387	niranjankumar D	niranjanvlr@gmail.com
388	nisar ap	nisarmha@gmail.com
389	Nishant Bodkhe	na.nishantbodkhe@gmail.com
390	NISHANT MISRA	nmishra.pratapgarh@gmail.com
391	Nitish kumar	kumarnitishraj2001@gmail.com
392	niya benni	niyabenni@gmail.com
393	Noufal P a	noufalpa4@gmail.com
394	Noushad	vknoushad74@gmail.com
395	Noushad P S	peeyesfire@gmail.com
396	Om Vanjari	oumvanjari1607@gmail.com
397	Omkar Ghag	omkarghag1997@gmail.com
398	Omkar pandurang lakeshri	lakeshriomkar7@gmail.com

399	Onkar Khedkar	onkarkhedkar7@gmail.com
400	P GAUTAM KRISHNA	gautampchirackal@gmail.com
401	p Nazar	muthfire@gmail.com
402	P SIMHACHALAM	pschalam25@gmail.com
403	Padmakumar S	padmakumar3209@gmail.com
404	Pankaj Bhagat	pankajbhagat83@gmail.com
405	Pankhuri Kumari	pankhuri3123@gmail.com
406	Paras Monde	parasmonde2678@gmail.com
407	Parshant Kumar	parshant.nfsc1995@gmail.com
408	Parth Pardeshi	parthpardeshi007@gmail.com
409	Parth Shete	sheteparth1@gmail.com
410	Pawan Kumar	pawankumar.p@shaktihormann.com
411	peenam singh	ps.sen05@gmail.com
412	Philips Stanley	philipsstanley@gmail.com
413	Piyush Bagde	piyushbagde2002@gmail.com
414	Pooja Kathariya	poojakathariya0702@gmail.com
415	Prabhakaran K V	prabhufireif@gmail.com
416	pradeep kumar panse	panse.1444@gmail.com
417	PRAFUL A K	akpraful@yahoo.com
418	PRAGYA MISHRA	pragya.mishra8315@gmail.com
419	prakash kumar jena	prakashjena750@gmail.com
420	Pramod kacheshwar kaklij	pramodkaklij995@gmail.com
421	Pramoda Kumar Nayak	pramodkumarnayak186@gmail.com
422	Pranay Sahare	pranaysahare@gmail.com
423	Praneet	praneetchawade1997@gmail.com
424	Prashant Pawar	prashantpawar240602@gmail.com
425	Prashant sarang	sarangprashantaba@gmail.com
426	prashant soni	prashant.soni@borl.co.in
427	Prasun Ghosh	prasun.swami@gmail.com
428	PRATHAMESH MAHULKAR	mahulkarprathamesh13@gmail.com
429	Pratheesh Chandran	pratheeshchandran007@gmail.com
430	Pratheesh pv	prathipv12@gmail.com
431	Pratik Shende	pratikshende777pas@gmail.com
432	pratik shinde	shindepratik54@gmail.com
433	praveen	pravip493@gmail.com
434	Praveen D	praveend30@gmail.com
435	Prem	prem.k.rathore@ril.com
436	Prem Rathore	prem.k.rathore@ril.com
437	Premarajan	premkakkadi@gmail.com
438	premchand Raut	premchand@yandex.com

439	Premnath PV	premnath_pv@rediffmail.com
440	Pritam Kap	pritamkap123@gmail.com
441	PRIYA K M	ajhospital85@gmail.com
442	Prof Chandan Ghosh	cghosh24@gmail.com
443	Prof.Dr.I.Manavalan Ilakkuvan	imanavalan56@gmail.com
444	punit deswal	punitdeswal3357@gmail.com
445	PUSHPENDER MEENA	mpushpender404@gmail.com
446	Puthenthara Thankachan	p.v.thankachanvaikom@gmail.com
447	Rachit Singh	rachitsinghrewa@gmail.com
448	Rahul Dhobare	dhobarerahul237@gmail.com
449	Rahul Gurnule	rahulg824@gmail.com
450	Rahul Sharma	rrahul.shar007@gmail.com
451	Rahul Singh	rahul9690539877@gmail.com
452	Rajan Kumar	rajan.sharmanov1991@gmail.com
453	Rajaram Kizhakkekkandiyil	drrajaramkk@gmail.com
454	Rajat Sharma	rajatmanjula@gmail.com
455	Rajeev M mother Care Hospital	marketing@mothercare.org.in
456	Rajendranath M	mrnathf@gmail.com
457	Rajesh B R	brrajeshreghu@gmail.com
458	Rajesh CP	ceepee.pnr@gmail.com
459	Rajesh Deshmukh	rajeshdeshmukh1227@gmail.com
460	RAJESH KT	rajesh.cmdo@gmail.com
461	RAJESH KUMAR IS	rajeshasi80@gmail.com
462	Rajesh M V	rajeshmvsct@gmail.com
463	Rajesh Sabnis	rajesh.reven@yahoo.com
464	Rajinder Kumar	rajinderhfs@gmail.com
465	Rajinder Pal Singh	singhrajinderpal55@gmail.com
466	raju honnaraju	rajuhonnaraju@gmail.com
467	Raju Roy	rajulive24@gmail.com
468	Raju Sahare	rajuabsahare@gmail.com
469	Rakesh	nihararakesh@gmail.com
470	RAKESH SALUNKE	salunke_rakesh@yahoo.com
471	Rakesh Yadav	rakeshyadav0708@gmail.com
472	ramadas	vbramadas@gmail.com
473	RAMAN SAXENA	raman4saxena@rediffmail.com
474	Ranjan Debnath	deranjan@amazon.com
475	Ranjane Ganesh Ramdas	ranjaneganesh2018@gmail.com
476	Ranjeet kumar	ranjeetlic111@gmail.com
477	Ranjith kv Kombichadukkam	ranjithkvkombichadukkam@gmail.com
478	RASHMI RANJAN MOHAPATRA	mohapatrar@gmail.com

479	raushan	kumarraushan808@gmail.com
480	RAVINDRA REDDY M	ravindraoudepts@gmail.com
481	Ravinesh Kumar	k.ravines65@gmail.com
482	rekha j	rekhashyju.rs@gmail.com
483	Remesh kumar M	remeshchiravattom@gmail.com
484	reni lukose	renilukose@gmail.com
485	renjan kn	renjankn@gmail.com
486	Reshab saini	reshabsaini52@gmail.com
487	Rishabh Jardhari	jardharirishabh1234@gmail.com
488	Risheb singh	beingtheloneWolf@gmail.com
489	Rishi Gadhavi	rishigadhavi30032002@gmail.com
490	Ritesh Waghmare	waghmarreritesh09@gmail.com
491	Ritik Yadav	ritikkumar2308@gmail.com
492	Riya Jose	riyajoseveliyathil@gmail.com
493	Robyvarghese varghese	robyvarghese8578@gmail.com
494	Rohan More	rohanmore27@gmail.com
495	Rohit Mahabale	mahabalerohit456@gmail.com
496	Rohit Rawat	rohitdiks345742@gmail.com
497	Rohit Yadav	rohit722y@gmail.com
498	Rosamma Jose	josejosephft@yahoo.com
499	Roshan	rdk1712@gmail.com
500	rupesh	rupusachu@gmail.com
501	Rupesh SB SB	rupeshyesbe@gmail.com
502	Rushikesh Joshi	joshirushikesh881@gmail.com
503	S KALYAN CHAKRAVARTHI SEELAM	kalyan.bulli@gmail.com
504	Sabu	sabuhimesh@gmail.com
505	Sabu s	sabuhimesh@gmail.com
506	Sabu. A	sabuafire@gmail.com
507	SACHIN	yadavsachin0007@gmail.com
508	Sachin Patel	scpatel143@gmail.com
509	Sagar Raj	sagarraj422755@gmail.com
510	sahadevan v g	sahadevanvg@gmail.com
511	sahil kawale	sahil.kawale12@gmail.com
512	sajan vp	vpsajan7@gmail.com
513	Sajeevan P K	ps0489751@gmail.com
514	Saji Mon	sajimon4384@gmail.com
515	saji ms	msmariyil101@gmail.com
516	Saket Anand	saket.a2024@gmail.com
517	Saket Nandeshwar	saketnand786@gmail.com
518	Sameer Sayyad	sameersayyad7755@gmail.com

519	Samruddha Banpurkar	samruddhabanpurkar@gmail.com
520	SANAL W	w.sanal2405@gmail.com
521	Sanatan Mahapatra	bapi.jnpfs@gmail.com
522	Sandeep Muraleedharan	sanndeepmha1984@gmail.com
523	Sandeep Muraleedharan	sandeepmha1984@gmail.com
524	Sandip Shivaji Taware	sandiptaware2009@gmail.com
525	Sanjay Adwani	sadwani67@gmail.com
526	Sanjay Bosamiya	sbosamiya8976@gmail.com
527	Sanjay Dubey	sanjaydubey.aai@gmail.com
528	Sanjay Patil	sachet_patil@hotmail.com
529	Sanjeev	sanjudahiya7755@gmail.com
530	Sanjeev Gupta	fdpsanjeevpreeti@gmail.com
531	sanjeevan Joshi	joshisanjeevan@gmail.com
532	Sanjit Turkel	sanjitturkel123@gmail.com
533	SANJU KRISHNA	sanju9526@gmail.com
534	Sanket Nehare	sanketnehare1974@gmail.com
535	Santosh Mishra	santoshm0004@gmail.com
536	sarachandrababu	sarath4336@gmail.com
537	SARAFUDHEEN Y P	sarafuyp@gmail.com
538	SASI I	sasii@bharatpetroleum.in
539	Sathyapalan M K	sathyapalanmk2060@gmail.com
540	Satish Bondili	satishbondili0326@gmail.com
541	Satish Kumar Patle	satishpatle321@gmail.com
542	Satish Kumar Patle	satishpatle321@gmail.com
543	SATYAKAM BARSAINYAN	satyakambarsain@bharatpetroleum.in
544	Saumya	drsaumya2325@gmail.com
545	Saurabh Rai	saurabh10rai@gmail.com
546	Saurabh Tiwari	saurabh1029@gmail.com
547	Saurav Kumar Jha	imsauravgauravjha@gmail.com
548	sejal velhal	velhalsp123@gmail.com
549	shabu	puppyk3@gmail.com
550	Shaikh Raispasha Hamidodin	sraispasha@gmail.com
551	Shail Bansod	shail3november@gmail.com
552	Shajimon	shajihisifm@yahoo.com
553	shamim hussain	shamim882805@gmail.com
554	Shamsudheen Sto Mukkam	samsudheenpi@gmail.com
555	Shani Vivinna Padua	shani.vivinna@gmail.com
556	Shanith p	shanith444@gmail.com
557	SHANKHADEEP KARGUPTA	karguptashankhadeep@gmail.com
558	Shantanu	shantanuyawalkar007@gmail.com

559	Shantanu Madhukar khandare	shantanujanbandhu28@gmail.com
560	Shardul Palande	shardulpalande37@gmail.com
561	Shashank Shekhar	shashankgg0055@gmail.com
562	Shashank Pandey	pandeyshashank0101@gmail.com
563	Shashanka Sekhar Mahapatra	shashankamahapatra@gmail.com
564	shashikant prasad sharma	shashikant1970sharma@gmail.com
565	shaurya singh	sshaurya150@gmail.com
566	shiju	shijurperumpuzha@gmail.com
567	shiju	shijuck.anizham@gmail.com
568	SHINOI	shinoikrfire@gmail.com
569	SHISH BHANNARE	shishbhannare@gmail.com
570	Shiv Murat	shivmuratdbns@gmail.com
571	shivam jhoda	shivamjhod17@gmail.com
572	shivani rahate	rahateshivani77@gmail.com
573	Shourya Sharma	shouryasharma.mtele20@pec.edu.in
574	shoyeb	shoyesubhedar@gmail.com
575	Shoyeb Subhedar	shoyesubhedar@gmail.com
576	shreya bhosale	shreya.bhosale1515@gmail.com
577	Shreyan Vazrapu	vsrshreyan@gmail.com
578	shreyas Sonkar	shreyassonkar123@gmail.com
579	Shreyash Salvi	shreyassalvi20@gmail.com
580	Shrikant Jayprakash Bagwe	bagweshrikant12@gmail.com
581	Shrikant Shinde	shrikantpshinde007@gmail.com
582	Shruti Bandgar	shrutibandgar16@gmail.com
583	SHUCHI PUROHIT	shuchipurohit102001@gmail.com
584	SHYAM KRISHNA	shyamkrishna1972@gmail.com
585	SHYJU B	sobha1712@gmail.com
586	siddhant	sidduchene@gmail.com
587	SIJU	sijutharaka101@gmail.com
588	silla charly	sillacharly@gmail.com
589	sivapandi. c	20rds153@aactni.edu.in
590	Smit Patil	smitpatil74320@gmail.com
591	smitha c	tschospital@gmail.com
592	Soham Sawant	sohamsawant15@gmail.com
593	Som Kumar Upadhyay	somkumup2001@gmail.com
594	Somesh Singh	singhsomesh576@gmail.com
595	sourabh khojar	sourabhkhojar19@gmail.com
596	sowmya krishnan	sp32814@gmail.com
597	Sr Albina	sralbinamsj@gmail.com
598	SR. ALBINA MSJ	sthosval@gmail.com

599	Sreedevi P	sreedevimotha@gmail.com
600	Sreeja M	sreejamahasenana@gmail.com
601	sreekumar rollandhospital@gmail.com	rollandhospital@gmail.com
602	Sreenath. VT	sreenathhse@gmail.com
603	sreenathan. k. m	sreenathan4033@gmail.com
604	sreenivasa reddy	msreddydfo@icloud.com
605	sreepal sampeta	sripalddon@gmail.com
606	Sreeram K N	sreeramk289@gmail.com
607	Srinivasan D	srinivasand500@gmail.com
608	Sudheer Wagmare	sudhir15616517@gmail.com
609	sufil babu	sufilbabu@gmail.com
610	suja bagde	inludez@gmail.com
611	Sujith	sujithfire1@gmail.com
612	Sujith	suji.cops@gmail.com
613	Sujith s	zujithvtm@gmail.com
614	Sujithkumar	myfriendkalai@gmail.com
615	Sulfeesibrahim	sulfeesibm@gmail.com
616	Suman saurabh	ssaurabh2907@gmail.com
617	Sumeet Kandwal	sumit.singh1440@gmail.com
618	Sumesh PV	pv.sumesh100@gmail.com
619	SUMIT	sumitgulia176@gmail.com
620	Sumit	nikitalamba4@gmail.com
621	Sumit Umratkar	sumeet.u007@gmail.com
622	Suneesh T, Sunrise Hospital Kanhangad	maint.sunrisekanhangad@gmail.com
623	sunil a	sunilkayammadom081@gmail.com
624	Sunil Kumar Karunakaran Nair	sunil.b3hse@gmail.com
625	sunil kumar v	sunilcfj@gmail.com
626	Sunil Prasad	sunilprasad0094@gmail.com
627	Sunil Yadav	sunilpyadav@gmail.com
628	sunny gummadelli	classicsunny009@gmail.com
629	SUNRISE HOSPITAL Kanhangad Kasaragod Dist	info.sunrisehospitalkanhangad@gmail.com
630	Supriya Roy	supriyaroy145@gmail.com
631	suraj kori	suraj.kori16@gmail.com
632	Suraj Palaspagar	surajpalaspagar44@gmail.com
633	Suresh Kumar	sk2984@gmail.com
634	Suresh Kumar G	sureshgourisivam@gmail.com
635	Suresh S	sreesbs4@gmail.com
636	Susan chacko	susanchacko47@gmail.com
637	Susanta Biswal	susantakumarfs@gmail.com
638	Susanta Kumar Biswal	susantakumarfs@gmail.com

639	Taj Hassan	dgfscdhg@gmail.com
640	tanmay ghodmode	ghodmodetanmay@gmail.com
641	TANMAY GUPTA	tanmay.gupta@juitsolan.in
642	Tejas Dabhekar	tejasdabhekar844@gmail.com
643	TH ASTO-SFRO(M)2057	kunhikrishnanto@gmail.com
644	Thirumaran Senguttuvan	thirutamizh@gmail.com
645	Thiyagarajan Radhakrishnan	rashmithiyagu@gmail.com
646	Thomas Daniel	thomasfire2004@gmail.com
647	Thomas Varghese	jochujoy@gmail.com
648	Tinsravi	tinsravi4hockey@gmail.com
649	Tushar	tusharbarahate82@gmail.com
650	Tushar Bhondwe	tusharbhondwe7@gmail.com
651	Ullas Mallick	ullassoni1995@gmail.com
652	UMESH U T	utumesh8@gmail.com
653	Unnikrishnan A	unnikaa3008@gmail.com
654	UNNIKRISHNAN T V	unnikrishnantvfire@gmail.com
655	Utkarsh kamal	uk3744@gmail.com
656	V Anilkumar	anilkumarfireforce@gmail.com
657	Vaibhav Sharma	vaibhavoctober11@gmail.com
658	Vaibhav Uike	vaibhavuike59@gmail.com
659	Vaibhavi Bhostekar	bhostekarvaibhavi@gmail.com
660	Vaisakh B	vaisakhb93@gmail.com
661	Valliammai R	r.valliammai.1979@gmail.com
662	vamsi	leelavamsiraj@gmail.com
663	VEDANSH HEDAOO	hprakash@101gmail.com
664	Vedant Gosewade	vedantgosewade04@gmail.com
665	Velmurugan P	murugageo04@gmail.com
666	VENKATESWARAN A	venkateswaran.a1@gmail.com
667	Vijai Krishna K U	vijaikrishnaku@gmail.com
668	Vijay Kumar Raman	vinaykumarraman.vkr@gmail.com
669	vijayakumar p c	pcvijayakumarsreelayam@gmail.com
670	vijayan. p	vijayanqp@gmail.com
671	VIJITH V V	vvvijith365@gmail.com
672	Vikas Patel	vikas786patel786@gmail.com
673	Vikram Singh	vksinghj92@gmail.com
674	Vikrant Gautam	vikrant.tigunayat2007@gmail.com
675	Vinay Kumar Raman	vinaykumarraman.vkr@gmail.com
676	Vinayaka K	vinukannur9@gmail.com
677	VINCENT JOSEPH	vincentjoseph136@gmail.com
678	vineeth	vineethu143@gmail.com

679	Vineeth P	vineethpanjali@gmail.com
680	vinod kumar	vinodkumar04031993@gmail.com
681	Vinod Kumar R	vinjyothy47@gmail.com
682	Vinod Kumar V	cso@kmct.edu.in
683	vinodan palayatt	vinodanpalayat@gmail.com
684	VINURAJ.T	vinurajt@gmail.com
685	vipin k	vipinchithali@gmail.com
686	Viraj Pagare	virajpagare91262@gmail.com
687	Virendra Singh	virengurjar10@gmail.com
688	VIRENDRAKUMAR THAKKAR	virendrakumarthakkar@gmail.com
689	Vishal Chetty	vishal.chetty@manipal.edu
690	vishnu prasad	vishnuprasad13032002@gmail.com
691	Visiviswanath	visiviswanath@rediffmail.com
692	Vrushabh Pramod Pimparkar	vrushabhimpakar7908@gmail.com
693	YASH BHONDGE	yashbhondge444@gmail.com
694	Yash Nizama	yash2108nizama@gmail.com
695	Yash Vyas	yashvyas317@gmail.com
696	yatender kumar	jpgyadav123@gmail.com
697	Yemuna	chcneendakara@gmail.com
698	Yogesh Hiralal Pawar	yogeshpawar2617@gmail.com
699	Yogesh Pardeshi	nikipardeshi50@gmail.com

16. Annexure II :Experts' Bio:

Major General M. K. Bindal:

Major General M. K. Bindal is presently the Executive Director, National Institute of Disaster Management. He was commissioned into the Corps of Army Air Defence in December 1985. An alumnus of the National Defence Academy, Major General M. K. Bindal is a graduate of the Defence Services Staff College and has attended the prestigious Higher Command Course at the Army War College besides excelling in all other career courses in the army. He holds a master's degree in Defence and Strategic Studies as well as Masters of Philosophy in Defence and Management Studies. During his more than three decades of service he has held important command and staff assignments. Having held all echelons of command within an Air Defence Regiment in diverse theatres, he commanded an Air Defence Regiment and an Air Defence Brigade in the Kashmir region against the backdrop of counter insurgency operations. He was General Officer Commanding of a sensitive Sub Area in the North East. He has been on the staff of a Mountain Brigade deployed in counter insurgency ops and in High Altitude area, an Armoured Division deployed in the plains, a Desert Corps and in a Corps HQ in High Altitude Areas. He has also been posted as Deputy Director General in Directorate of Army Air Defence where he was dealing with operations, Training, Air Defence Control & Reporting and Air Intelligence issues. Major General M. K. Bindal served as the Provost Marshall in the United Nations Mission in Mozambique where he was deeply involved in the liquidation of the mission. He has been the Director, Centre for United Nations Peacekeeping (CUNPK) New Delhi. For three years he was also the Secretary of the International Association of Peacekeeping Training Centres.



Mr. Taj Hassan:

Mr. Taj Hassan, IPS, Director General, Office of the DG(FS, CD & HG), MHA, GoI, he is a 1987 batch IPS officer, was already handling a key assignment in the national capital as a Special Commissioner (Crime). He will now handle the additional charge with the assistance of the present spokesperson, Deputy Commissioner of Police (Crime Branch) Rajan Bhagat.



Prof. Chandan Ghosh:

Chandan Ghosh, a Civil Engineering graduate (1985) of Bengal Engineering College (now IEST), Masters in Civil Engg (1987) from Jadavpur University, PhD from IIT Kanpur (1992) and Dr. Engg. (2004) from Ibaraki University, Japan, has been serving NIDM, MHA, GoI since July 2006 as Professor & Head, Resilient Infrastructure Division. He served faculty of Civil Engg at IIT-BHU (1990-2000), did postdoctoral research in Japan and was on Deputation to IIT Jammu from Sept 2019 to December 2020, where he served as Dean of Student Welfare. Prof. Ghosh works in the areas of earthquake Geotechnology, Reinforced Earth, Seismic Microzonation, Ground improvement techniques, Geosynthetics and Bio-engineering measures for sustainable developments. He has devoted more than 30 years of his career in UG & PG teaching, research guidance, development of teaching tools & training module for engineers, architects, town planners. He has published more than 135 papers in reputed journals, conference proceedings. As recognition to his seminal contributions, received Leonard prize for the best doctoral thesis in 1993, CIDC-Vishwakarma Awards-2013, IGS-Shri H.C. Verma Golden Jubilee Award-2013, Lifetime achievement award-2019 (Indian Geotechnical Society-Delhi Chapter).



Dr. Devendra Kumar Shami:

Dr. Devendra Kumar Shami, Fire Adviser, DG FS, CD & HG & Director NFSC, Ministry of Home Affairs is the recipients of President's Fire Service Medal for Meritorious Services in 1999 and President's Fire Service Medal for Distinguished Services in 2006. He has 38 years in Industrial, State and Central Fire Services including Advisory role in Government of India. He is Chairmen and Member of BIS Committees, Member of OISD Standing Committee, Member Secretary of Standing Fire Advisory Committee, Examiner and paper setter for B. E. Fire Engineering, B. Sc Fire, Advance Diploma etc., Chairmen of Expert Committee constituted by Ministry of Labour for framing Standards on Occupational Safety, Health & Working Condition Code 2020, Member of Committee constituted by Ministry of Power on Safety Audit of Thermal Power Plant as per order of NGT. He published many technical papers and theme papers were published in National, International Journals and seminars.



Speakers Bio:

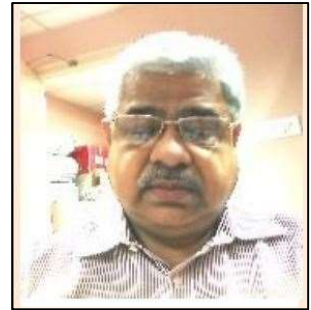
He is an alumnus of National Fire Service College, Ministry of Home Affairs, Government of India. Joined Goa Fire & Emergency Services in 1986 and presently is the Director of Fire and Emergency Services, Government of Goa since August 2006. Is having 35 years of professional experience in Fire Prevention, Fire Extinction and Training. Is the Ex- officio In- Charge of Goa State Disaster Response Force. He is a Graduate in Arts and holding a Post Graduate Diploma in Disaster Management. Is an Associate Member of Institution of Fire Engineers (India) and Graduate Member of the Institution of Fire Engineers (U.K.) and (India). He has undergone Incident Command Training for South Asian Association for Regional Co-operation (SAARC) Countries held at Colombo, Sri Lanka. He has undergone Training of Instructors (TFI) Course from Asian Disaster Preparedness Centre, Thailand in Nagpur, India. He is a Guest Faculty member of the National Fire Service College, Nagpur. He is Ex-officio Member of Standing Fire Advisory Council (SFAC), Ministry of Home Affairs, New Delhi, India. Awards and Recognitions: He is the recipient of President Fire Service Medal for Meritorious Service, Government of India presented in December 2014. He is a Recipient of Chief Minister Gallantry Medal, Goa State in August 2014. He is a Recipient of Appreciation Letter and DG's Silver Disc from Director General, National Disaster Response Force (NDRF), Ministry of Home Affairs, New Delhi. He is the led of the Search and Rescue Team in January 2001 in Earthquake affected area of Bhuj, Gujarat & was awarded Commendatory Note for extreme Devotion for duties. He is a Recipient of Gold Medal from Ministry of Home Affairs, Government of India in 1998 in a Station Officer and Instructor's Course at National Fire Service College, Nagpur. He is an active in the Social and Charitable activities of Rotary International since 1998. He was the President of Rotary Club of Panaji Mid-Town for the Rotary year 2009-2010. He is also the recipient of Rotary International Avenues of Service Citation for Individual Rotarian in 2014.



Debapriya Biswas:

Debapriya Biswas, B.Sc. Hons | M.I. Fire Engg (UK) | Fellow IFE (India) | IOCC (U.K) | IFPC (U.K.)

He has 45 years of rich experience in the different fields of fire safety management. He Retired Additional Director General West Bengal Fire and Emergency Services. February 2008 to October 2012. Ex OSD to the Govt. Of West Bengal, Department of Fire and Emergency Services., he worked as advisor to the Govt, November 2012 to October 2014. Consultant Member; Safety Cell, PWD Govt. of West Bengal, Responsible for Fire Safety of



Govt Structures having height more than 15mts which includes, Hospital, Auditorium, Multi-storeyed office building, Guest House etc. He was Responsible for Planning, Designing and commissioning of different Fire Safety System Since January 2016. He was Consultant – Advisor (Fire & Safety) AMRI Group of Hospital. Looking after the health Fire safety of the entire four units. He was Consultant Auditor for State Bank of India, Bengal Circle and awarded the work of Fire Safety Audit for Currency Chest branch, High value branches Since April 2015 to December 2015. He is Hon. Secretary of Institution of Fire Engineers (UK); work for the cause of up liftment of fire and safety engineering through class, lectures seminars etc. , conduct regular examinations in the March of every year. He is a Member, Bureau of Indian standard; Member, NDMA constituted for Strengthening Fire Services in the country (Govt. Of India); Member, Standing Fire Advisory Council, Apex body of Ministry of Home Affairs, Government of India (SFAC) and Member of the building committee constituted by Govt. of West Bengal for restructuring building rules of Kolkata Municipal Corporation.

Ms. Keerthi D'Souza:

Keerthi is passionate about her sustainability journey, and instrumental in connecting business with institutions and community. Almost two decades back, she started career as a HSE consultant, then became a Lead assessor with CII-ITC for Sustainability award, and advisor to CAHO on HSE Initiatives. Sustainability Assessments for awards have been conducted at Mahindra Resorts, Mahindra Life Spaces, TATA Steel, Vedanta Group, ACC cement, JSW Steel, JSW Cement, Sterlite cables, Sterlite Copper etc. United Nations recognized her through UN Hero Certificate in 2019 for her initiative to take up environment conservation message on the occasion of World Environment Day with one of the Asia's largest apartment community in Chennai. The



Karnataka State Pollution Control Board has recognized her unique ideas of creating awareness on environment among community. She conceptualized Green Think idea through which she connected business/industry and schools. Industries were made to adopt schools under Green Nurturing Program and initiate practices to convert school as Green School. Her recent endeavour is bringing sustainability in supply chain. Generating Sustainability reports, carbon reports, water audits etc. Helping more than 100 companies in Sedex and Ecovadis.

Dr. Amir Ali Khan:

Dr. Amir Ali Khan is a trained Civil Engineer and Urban Planner with a Ph.D. on Urban Earthquake Risk Mitigation. He has a Post Graduate Diploma in Studies of Geological Risks from the University of Geneva. In addition, he has been trained by several international organisations on the subjects related to disaster risk management and mitigation in Asia and Europe. Dr. Khan



has served UNDP for about two years as National Disaster Reduction Advisor in Uzbekistan. During his stay with UNDP, Dr. Khan served as Chairperson of the UN Uzbekistan's 'Disaster Preparedness and Response Group'. He was also the UN focal point on humanitarian assistance. He has varied experience in the area of disaster risk mitigation and management at national and international level for programme development and management, knowledge management and communication, capacity enhancement, partnership building and networking, etc. His current areas of interests include capacity building for earthquake risk mitigation especially in urban areas, post disaster reconstruction and rehabilitation, mainstreaming disaster risk reduction into development and formulation of disaster management plans.

Dr. Lallu Joseph:

Dr. Lallu Joseph is the Quality Manager and Associate GS of Christian Medical College, Vellore, which is the largest hospital in the country to be accredited by NABH. Prior to joining healthcare, she was the vice president of a software company and was a teaching assistant at Rotman School of Management, University of Toronto. A Mechanical Engineer by profession, she went on to complete her masters and doctorate in business administration and a diploma in CQI from the Canadian Healthcare Administration. A keen learner, she completed the one-year Executive General Management Program (EGMP) of Indian Institute of Management (IIM), Bangalore in 2016.



A passionate teacher and trainer, she is involved in training quality implementation across the country through NABH, CAHO, AHPI and the faculty of many hospital administration programs. She is the principal assessor of NABH. She is the Secretary General of the Consortium of Accredited Healthcare Organizations (CAHO), India. She is a board member of the ASQua and NABH. She is a member of the working group of ISO TC 304- Healthcare Quality Management Standards.

She has many book chapters and publications to her credit and was part of developing the entry level guidelines of NABH standards, a joint initiative of NABH and World Bank. She was involved in overseeing the implementation of QMS in selected Government Hospitals of Karnataka through Consortium of Accredited Healthcare Organizations (CAHO) as part of a World Bank funded project and a part of the task force of Karnataka Knowledge Commission Implementation on procedural costing. She developed the Basic and advance Certified Professionals for Quality Implementation in Hospitals (CPQIH) programs for CAHO, which are well sought after and 12 programs of CAHO.

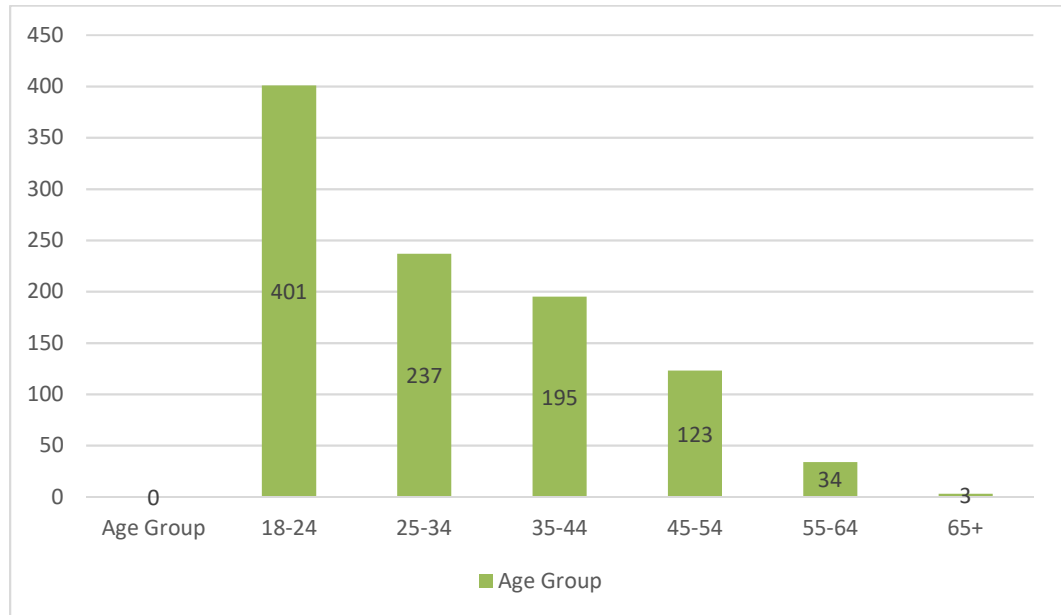
The best outgoing student of VIT Business School in 2000, she has won many awards and is the proud recipient of the young quality achiever award of 2016, Dr. M.S. Ashraf Award- Indian Medical Association, TN State for 2018, D. L. Shah Award- QCI in 2016, 2019 and BMJ Southeast Asian Award in 2017.

17. Annexure III : Training Program Certificate:

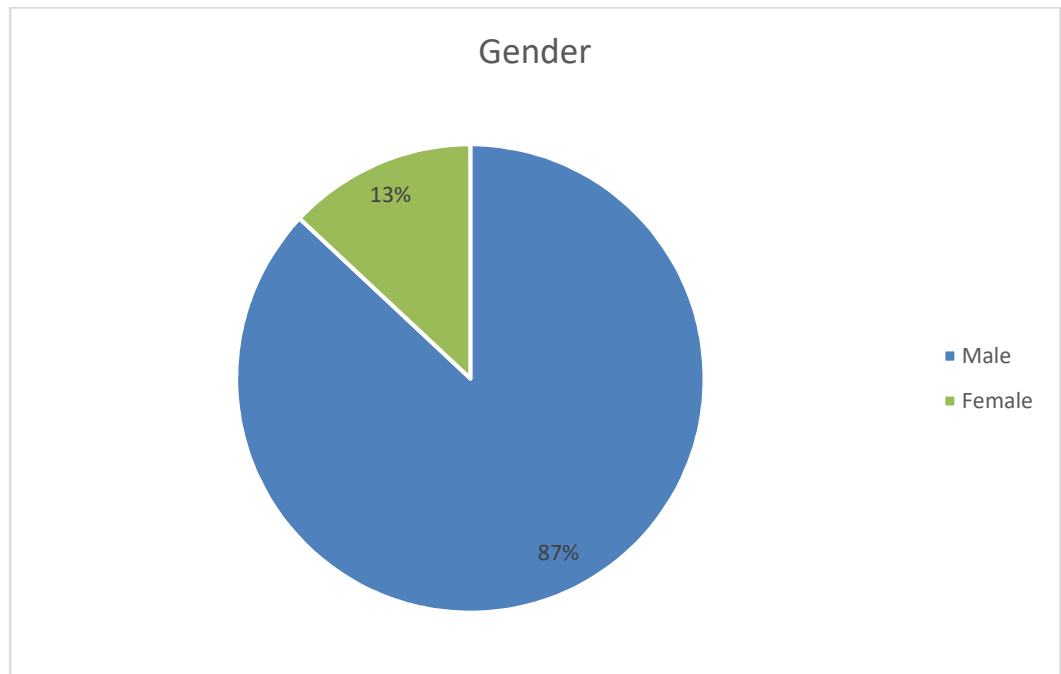
		Sl. No.: /  Resilient India - Disaster Free India.
NATIONAL INSTITUTE OF DISASTER MANAGEMENT (Ministry of Home Affairs, Govt. of India) New Delhi		
CERTIFICATE		
This is to certify that		
Participant Name		
has participated in the online training programme on " Fire and Emergency Prevention in the Hospitals and other Health Facilities " on 25 Aug 2021 to 27 Aug 2021 organized by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India in collaboration with National Fire Service College		
 Dr. D.K Shami Fire Advisor NFSC	 Dr. Garima Aggarwal Senior Consultant NIDM	 Maj Gen MK Bindal Executive Director NIDM

18. Annexure VI : Registration Details:

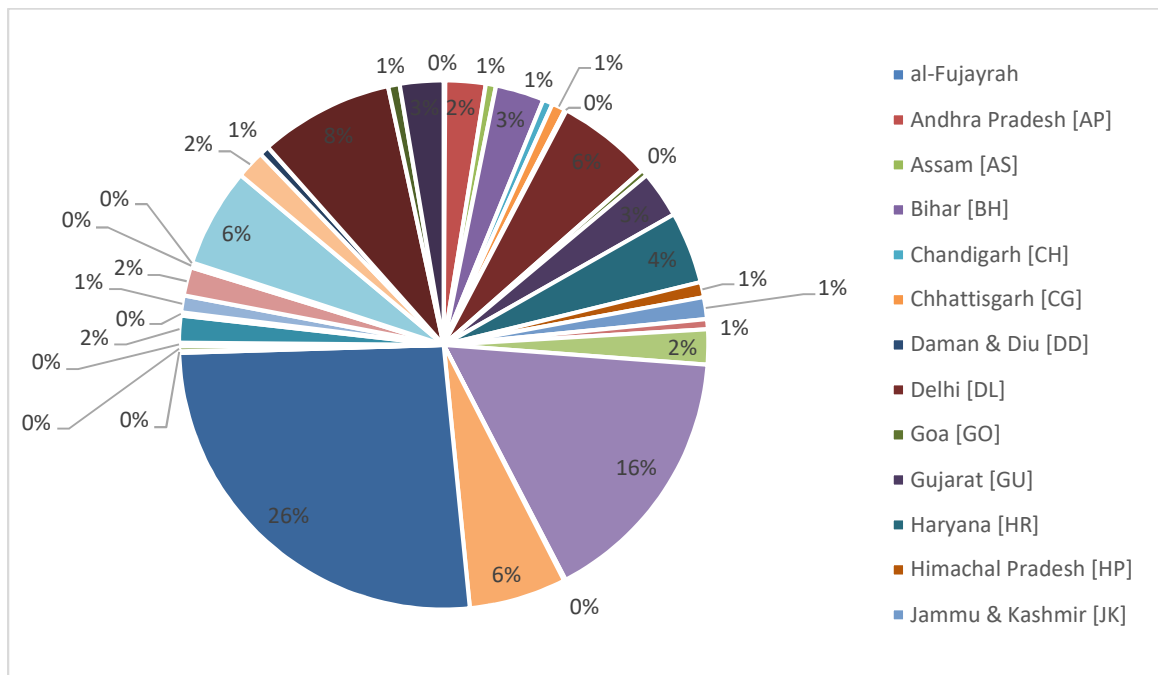
i. Age Group:



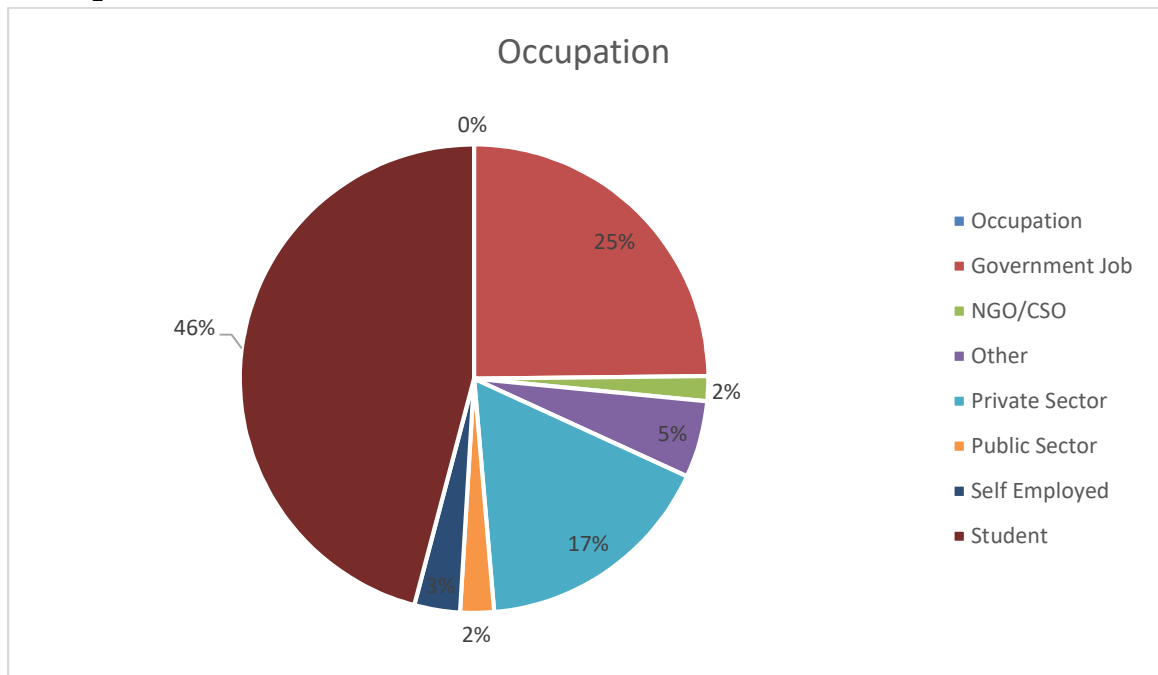
ii. Gender:



iii. State:

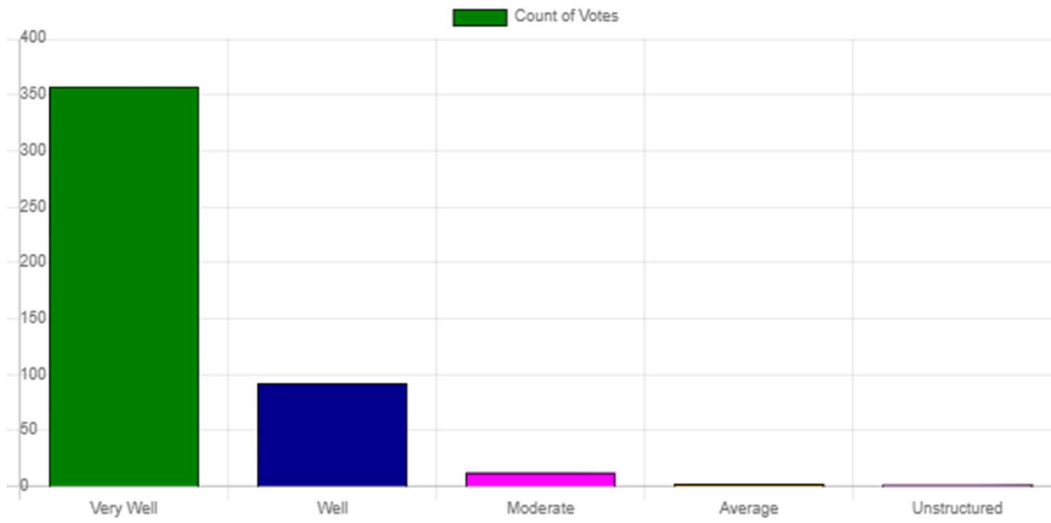


Occupation:

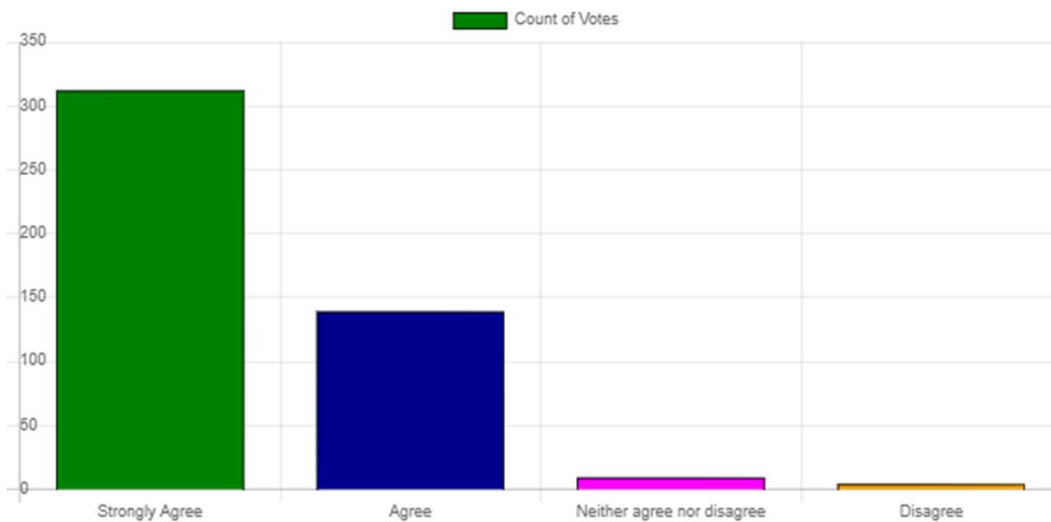


19. Annexure V : Feedback Result

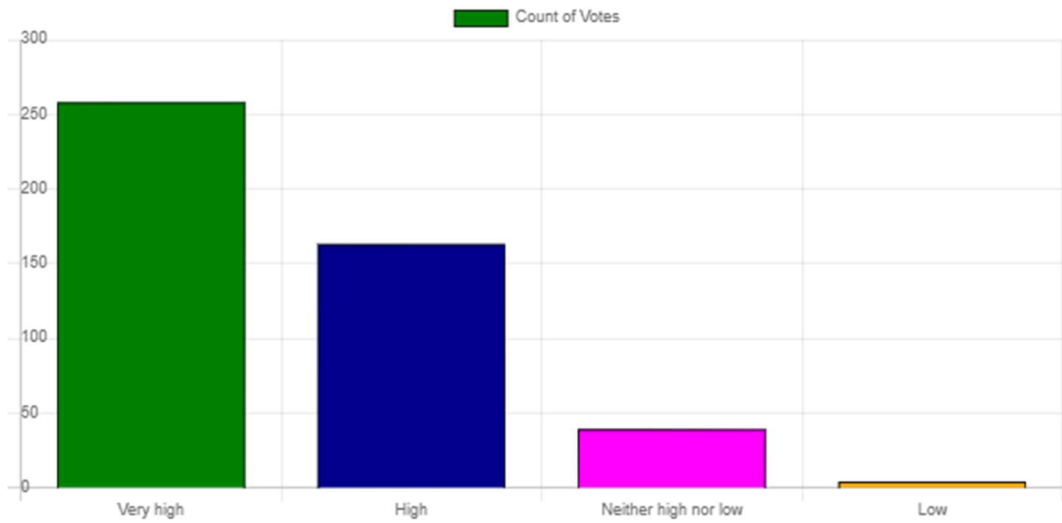
- i. I think the structure and organization of the course fulfilled the objectives of the training programme.



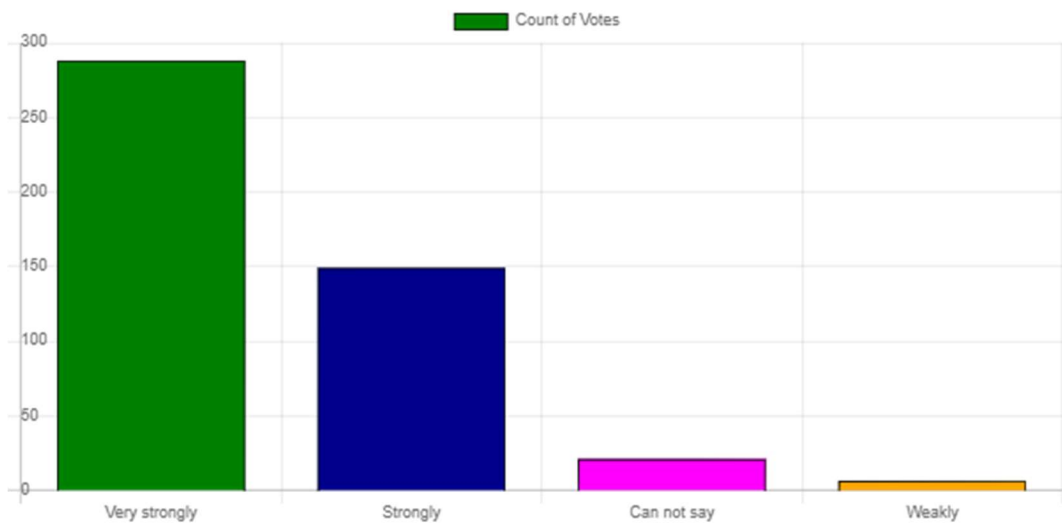
- ii. I feel this programme would be useful to me immediately in my job.



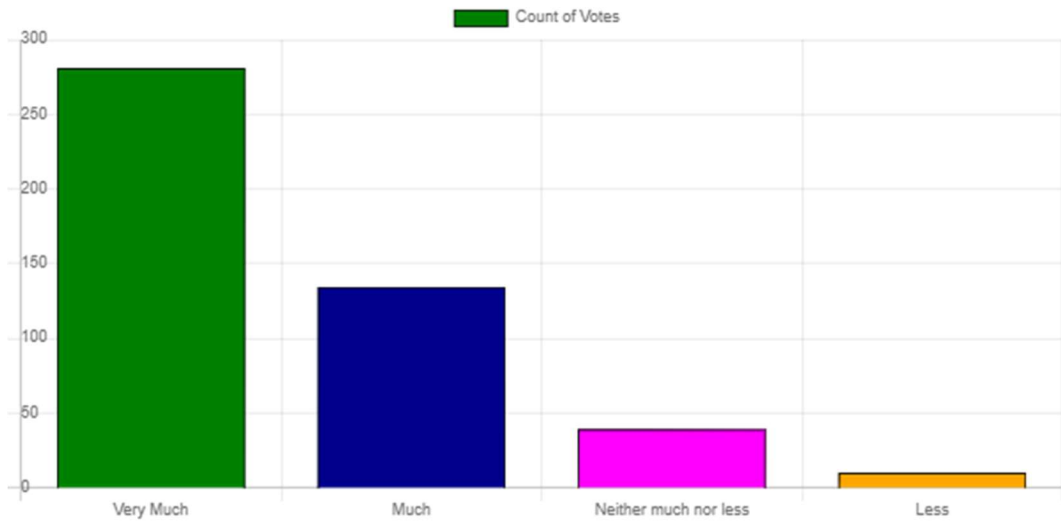
iii. I believe this will help me in my future job related to Disaster management.



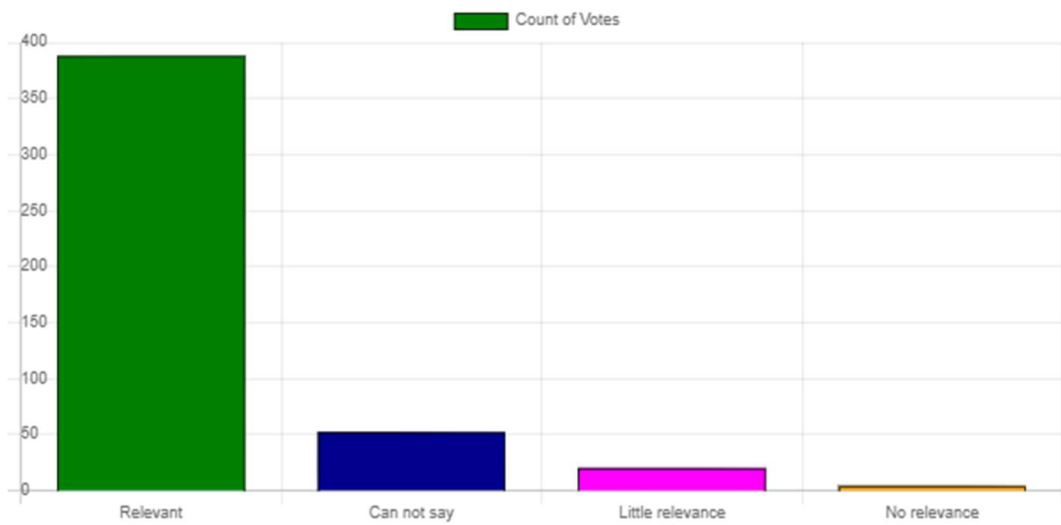
iv. Practical orientation of the Training programme.



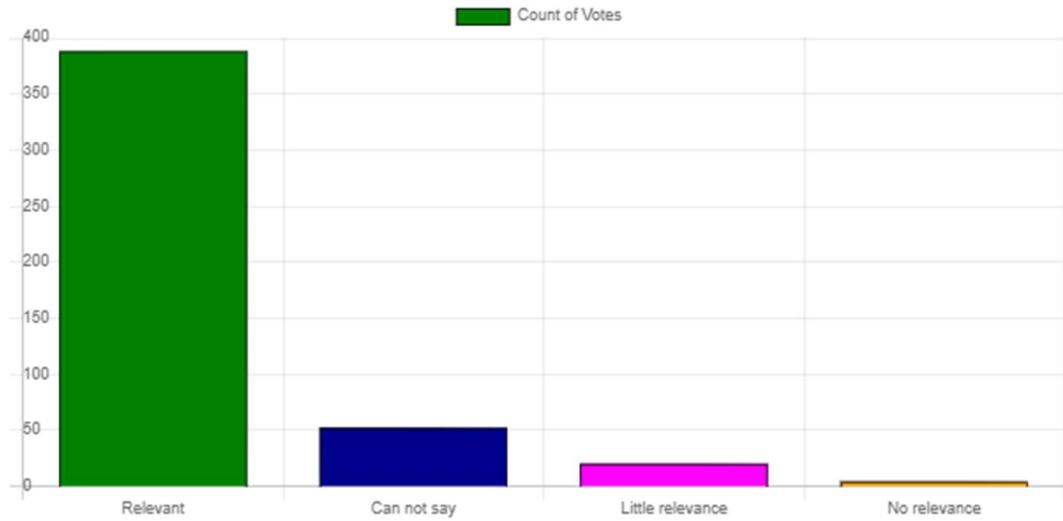
- v. I feel this inspires me to take up assignments related to Disaster Management.



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



vii. I found the course materials supplied to us to be.



viii. Your overall impression of the training programme.

