



Summary Report

Three Days' Online Training Programme

Disaster Resilient Waste Management for Sustainable Spaces

Dates: 16-18 June, 2021

Jointly Organized by

Center for Environment, Climate Change and Sustainable Development,

IMPRI Impact and Policy Research Institute

&

National Institute of Disaster Management (NIDM),

Ministry of Home Affairs, Government of India

Contents

1. Introduction to the Course
 - a. Sub Themes
 - b. Program Schedule
 - c. Important Announcements
2. About IMPRI Impact and Policy Research Institute
3. About National Institute of Disaster Management
4. Day – Wise Summary
 - a. Day 1
 - b. Day 2
 - c. Day 3
 - d. Key Takeaways
5. Annexures
 - a. Organizers
 - b. List of Participants
 - c. Posters



Introduction to the Course

Disasters often generate large quantities of waste that threaten public health, hinder rescue and reconstruction efforts and may significantly damage overall recovery efforts, and negatively impact the environment. Safe handling, removal and management of disaster waste are therefore important issues in disaster response and recovery. Unfortunately, currently disaster waste management practice often involves either no action, or improper action.

Integrating disaster waste issue is a critical component which requires a fundamental shift towards a model that not only strengthens the response to crises but also learns and adapts in order to anticipate and act before such waste garnered.

Disasters and conflicts can generate large quantities of solid and liquid waste that not only has an impact on the environment but also threatens public health. Cities around the world, large and small, face common challenges, especially due to rapid urbanization and climate change. Waste management, from waste collection to final disposal, is one of the most basic and important services for maintaining the quality of our lives, and thus making it stronger is vital for the society that is strong against disasters.

This 3-day online training program brought together experts from the academia, health mission and urban local body officials, environmental engineers and professionals involved in waste management to understand the background, issues and objectively analyse them to come out with best ways possible towards disaster resilient waste management for achieving the objective of sustainable development.

The training programme is jointly organized by [Center for Environment, Climate Change and Sustainable Development \(CECCSD\)](#), [IMPRI Impact and Policy Research Institute](#), New Delhi and [National Institute of Disaster Management \(NIDM\)](#), Ministry of Home Affairs, Government of India.

Sub-themes:

- Policies and Institutional Arrangements for Urban Waste Management
- Bio-Hazard Waste Management in the COVID-19 era
- Government-Civilian Cooperation
- Gender, Re-cycling and Waste Management
- Waste Management Transportation
- Radio-active and e-waste management



Program Schedule:

Time	Topic	Speaker
Day 1 – June 16, 2021 10:30 AM – 1:00 PM IST		
10:30 - 11:10	Inaugural Remarks	Prof Anil K Gupta Head ECDRM, NIDM, New Delhi
11:10 – 12:10	SDG Goal 11,12 & 13 and Waste Management	Prof Shyamala Mani, Sr. Advisor, WASH and Waste Management, CEH, Public Health Foundation of India (PHFI)
12:10 – 12:55	Informal Recycling Sector of Waste Management System	Mr Harshad Barde Director, SWaCH Pune
Day 2 – June 17, 2021 10:30 AM - 1:00 PM IST		
10:30 – 11:20	Preparation for Effective Waste Management	Dr Brajesh Dubey Associate Professor, IIT Kharagpur
11:20 – 12:10	Building resilience in cities by strengthening municipal solid waste management	Ms Swati Singh Sambyal Waste Management Specialist, UN-Habitat India
12:10 – 13:00	Hazardous Waste Spill Management	Prof Suneel Pandey Director, Environment and Waste Management Division, The Energy and Resources Institute (TERI), New Delhi
Day 3 - June 18, 2021 10:30 AM - 1:00 PM IST		
10:30 – 11:20	Climate Resilience & Smart Cities	Prof Jyoti K Parikh Executive Director, Integrated Research and Action for Development IRADe
11:20 – 12:00	Disaster Waste Management: Global Status	Prof Prasad Modak Executive President, Environmental Management Centre LLP
12:00 – 12:45	Wastes from Electronic & Electrical Equipments, and Circular Economy	Dr Rachna Arora Team Leader, Circular Economy Solutions Preventing Marine Litter, GIZ



Important Announcements

The important housekeeping announcements were announced to ensure smooth flow of the programme on all the three days. These included:

- Join the meeting on time.
- Ensure at least 80% of attendance.
- 15-20 minutes for Q & A after each lecture
- Share your questions on the Q & A Box only and not on the chatbox
- The questions must not be posted as Anonymous attendee.
- Ensure that the questions are precise.
- Refrain from making general comments.

#WebPolicyLearning
3-Day Online Training Programme

IMPRI | IMPACT AND POLICY RESEARCH INSTITUTE

Disaster Resilient Waste Management
for Sustainable Spaces

Housekeeping Announcements

- Join the meeting on time.
- Ensure at least 80% attendance.
- 15-20 minutes for QnA after each lecture.
- Share your questions on the QnA box **ONLY** and **NOT** on the chatbox.
- The questions must **NOT** be posted as an "Anonymous Attendee".
- Ensure that your questions are precise.
- Refrain from making general comments.

June 16-18, 2021 | 10:30 AM - 1:00 PM IST Details: <https://www.impriindia.com/event/disaster-resilient-waste-management-for-sustainable-spaces/> Register: training.nidm.gov.in

Event Page: <https://www.impriindia.com/event/disaster-resilient-waste-management-for-sustainable-spaces/>

About IMPRI Impact and Policy Research Institute

IMPRI, a startup research think tank, is a platform for pro-active, independent, non-partisan and policy-based research. It contributes to debates and deliberations for action-based solutions to a host of strategic issues. IMPRI is committed to democracy, mobilization and community building. IMPRI seeks to confront the most critical challenges to issues of socio-economic, political and environmental importance through qualitative and quantitative analysis. The analytical framework is strengthened through three types of activities, namely:

- **Building Dynamic Evidence:** The Institute's core strength lies in the interdisciplinary network of diverse and eminent scholars, research professionals with a commitment to conduct cutting-edge research, evidence-based impact assessment, monitoring and evaluation, and advocacy. Cost-effective and intense precision in analysis is its forté.
- **Deepening Public Debate:** Underlying IMPRI's work is a strong commitment to good governance, rule-of-law, tolerance, a market economy, and democratic principles. By leveraging its research, it facilitates the engagement of an informed citizenry with academia, industry and the government through seminars, workshops, conferences, lectures, extensive media presence.
- **Catalyzing Transparent and Accountable Governance:** IMPRI collaborates with the government, academic and research institutions, NGOs, businesses and the civil society for research and advocacy for transparent and accountable governance.

We aim to create a benchmark for the analysis of evidence-based and action-based studies using advanced research methods, and developing innovative techniques for gathering, handling, processing and analyzing data. The multidisciplinary areas of research include:

- Agriculture, Food & Nutrition Security and Rural Development;
- Economy and Infrastructure;
- Entrepreneurship, ICT and Innovation;
- Environment, Energy, Climate Change and Sustainable Development;
- Gender, Pluralism & Social Inclusion;
- Governance and Law;
- International Relations and Strategic Studies;
- Livelihoods, Employment and Well-being;
- Public Finances and Macroeconomics;
- Society, Literature, Arts, Sports and Culture;
- Urbanization, Habitat, Transportation and Regional Development;
- Social Sector;
- Science and Technology, and;
- Public Policies, Programs and Scheme.

Founded in 2018, IMPRI Impact and Policy Research Institute is a think-tank for evidence and action-based policy research; monitoring and evaluation; and impact assessment. It has been incubated by NEXUS: The Innovation Hub at the American Centre, New Delhi by the IC2 Institute of University of Texas at Austin, Texas, supported by the US Government.



About National Institute of Disaster Management (NIDM)

National Institute of Disaster Management, Ministry of Home Affairs, Government of India, is the premier institute and statutory body under Disaster Management Act, 2005 for training, research, awareness and capacity building in the field of disaster mitigation and management in the region. The institute lays emphasis on multi-stakeholder interdisciplinary cross- sectoral approach for an effective and efficient pro-active continuum disaster risk management based on participatory integrated multi hazard risk management concept.



DAY-WISE SUMMARY

Three - Days Online Training Program on “Disaster Resilient Waste Management for Sustainable Spaces”, June 16-18, 2021

DAY 1: 16th June, 2021

Inaugurating the session **Ms Nishi Verma**, *Research Program Officer, IMPRI*, welcomed the speakers and participants to the programme with an introduction to the eminent panellist. She stated the fact that integrating disaster waste issue is a critical component that requires a fundamental shift towards a model that not only strengthens the response to crises but also learns and adapts in order to anticipate and act before such waste garnered. Hence. Recognition of local risks, including everyday risks emanating from environmental degradation, needs a wider understanding by stakeholders at all levels.

She highlighted that as scholars, practioners and policy makes there is need to understand the background, issues and problems thereby objectively analysing them to chart the best ways forward.

Day 1 of the programme included eminent speakers **Prof Anil Kumar Gupta**, *Head ECDRM, NIDM, New Delhi*, **Prof Shyamalal Mani**, *Senior Advisor WASH and Waste Management, Public Health Foundation of India* and **Mr Harshad Barde**, *Director, SWACH, Pune*, with patron being **Maj Gen Manoj K Bindal**, *Executive Director, NIDM, New Delhi* and convener **Dr Simi Mehta**, *CEO & Editorial Director, IMPRI*.

Patron: Maj Gen Manoj K Bindal Executive Director, NIDM, New Delhi

#WebPolicyLearning
3-Day Online Training Programme

IMPRI | IMPACT AND POLICY RESEARCH INSTITUTE

Disaster Resilient Waste Management for Sustainable Spaces

Patron
Major Gen Manoj K Bindal

Executive Director, NIDM. Maj Gen Bindal has held all echelons of command within an Air Defence Regiment, commanded Air Defence Regiment and Brigade in the Kashmir region against counter-insurgency operations. He was General Officer Commanding of a sensitive sub-area in the North East. He has served as the Provost Marshall in the UN Mission in Mozambique. He has been the Director, Centre for United Nations Peacekeeping (CUNPK), New Delhi. He was also the Secretary of the International Association of Peacekeeping Training Centres.



June 16, 2021 | 10:30 AM IST Details: <https://www.impriindia.com/event/disaster-resilient-waste-management-for-sustainable-spaces/> Register: training.nidm.gov.in

The convener of the session Prof Anil Kumar Gupta, Head ECDRM, NIDM, New Delhi

Starting with his remarks professor Gupta shared that there exists a strong nexus between waste, cities and disasters which plays an important role today with increased urbanisation. Waste has always been a huge challenge in terms of the amount and characteristics which human civilization is facing and stated that waste itself is a type of disaster and when disasters struck they leave a lot of waste which create serious issues. He highlighted that India has emerged as a leader in representing resilient infrastructure globally but the facilities needed to uphold these infrastructures like water supply and waste management need more focus.

#WebPolicyLearning
3-Day Online Training Programme

IMPRI | IMPACT AND POLICY RESEARCH INSTITUTE

  Disaster Resilient Waste Management for Sustainable Spaces

Convener & Expert

Prof Anil K Gupta

Head, ECDRM, NIDM. He was the Director of Institute of Environment and Development Studies, Bundelkhand University, Jhansi. He is a disaster mitigation & crisis management professional, with expertise in institutional development and international cooperation on areas of DM capacity building/training, planning, governance, risk/vulnerability analysis, disaster risk reduction, among others. He is coordinator of Technical Advisory Committee of NIDM, member of Governing Council & Academic/Research Advisory of several institutions and high level/ministerial delegation abroad.



June 16, 2021 | 10:40 AM IST Details: <https://www.impriindia.com/event/disaster-resilient-waste-management-for-sustainable-spaces/> Register: training.nidm.gov.in

He further underlined that there is a need to look at the interdependency of infrastructure. He highlighted that globally talking about zero waste cities is an important aspect for making a waste management system resilient that nothing goes out as disposal or discharge. Hence there exist a number of issues that need to be thought upon and worked on to integrate to the overall concept of smart cities using modern technologies. He further added that the community plays an important role in waste management both as a beneficiary, contributor to challenge and part of the solution and hence their participation is essential.

Prof Shyamala Mani, Senior Advisor WASH and Waste Management, Public Health Foundation of India

#WebPolicyLearning
3-Day Online Training Programme

IMPRI | IMPACT AND POLICY RESEARCH INSTITUTE

 nidm

Disaster Resilient Waste Management
for Sustainable Spaces

Expert

Dr Shyamala Mani

Sr. Advisor, WASH and Waste Management, CEH, Public Health Foundation of India (PHFI) and Professor (Retd.), Advisor, MPD 2041, Climate Centre for Cities, National Institute of Urban Affairs (NIUA). Dr Mani designed and established in 2002, a model Common Healthcare waste Appropriate Management Plant (CHAMP) in Karnataka for over ten years, which continues to be regarded as a model CBWTF in India. She worked on many projects at PHFI and NIUA related to Waste Management and sustainable WASH. She has received awards like the UNCHS Global 100 award, Plasticon India award, Japan for Regional Centre of Expertise on waste management and Dr Abdul Kalam Gold Medal award. She also mentors many NGOs and entrepreneurs to set up businesses in the waste sector through her NGO, Saurabha.



June 16, 2021 | 11:10 AM IST Details: <https://www.impriindia.com/event/disaster-resilient-waste-management-for-sustainable-spaces/> Register: training.nidm.gov.in

Dr Mani shared her views on ways of making cities and human settlements inclusive, safe, resilient and sustainable thereby combating climate change and its impact. Starting with she gave an introduction to solid waste and stated this waste has implications not only for sustainable development goals 11,12,13 but many more like SDG 3 healthy lives and promote well-being and SDG 6 water and sanitation. She further touched upon various legislations provided in India for solid waste management.

Talking about Solid waste management she stated that solid waste can be segregated in to three types of waste i.e. household waste, E-waste, industrial waste and bio medical waste. She added that solid waste impacts environment in various forms including water, soil and air contamination leading to deterioration of ecosystem.

Stating various remedial action Dr Mani shared waste management hierarchy with steps of prevention, minimization, reuse, recycle and proper disposal of waste. The waste needs to be segregated into various categories such as chemical, biological, thermal and waste for dumps and landfills. She further added that for segregation of waste the segregated solid waste should be stored at the source and then it should be collected, transported and finally processed. She highlighted that disaster waste management does not only include one sector and there is a need to look at intersectoral cooperation for bridging the gap. She further stressed increasing renewable energy share in the country.

Sharing some of the learnings she said that there is a need for investing in data and technology for yielding exponential returns, revisiting city planning instruments, strengthening local governance framework and capacity tools, making cities financially self-reliant, reimagining collaborative architecture at local levels. She also stressed technological solutions for waste management with skill developments and training. She emphasized the use of more earth-friendly and less non – biodegradable components.

PowerPoint Presentation by Prof Shyamala Mani

Mr Harshad Barde Director, SWACH Pune

#WebPolicyLearning
3-Day Online Training Programme

IMPRI | IMPACT AND POLICY RESEARCH INSTITUTE

 nidm

Disaster Resilient Waste Management
for Sustainable Spaces

Expert

Mr Harshad Barde

Director, SWaCH Pune. Mr Barde is the current Director at Swachh Pune Seva Co-operative Society. SWaCH's unique model has achieved the highest levels of waste-picker integration, segregation at source, diversion to recycling from doorstep while ensuring the lowest municipal costs for solid waste management. Mr Barde is a lawyer turned environmental labour activist with substantial contribution in developing local and national SWM legislation. He is also the Activist and Legal Consultant at the Kagad Kach Patra Kashtakari Panchayat. Previously, he has been the Executive Legal at the HMV Saregama India Ltd.



June 16, 2021 | 12:10 PM IST
Details: <https://www.impriindia.com/event/disaster-resilient-waste-management-for-sustainable-spaces/>
Register: training.nidm.gov.in

Mr Barde threw light on role played by informal sector in waste management. He stated that informal recycling sector is highly resilient part of any urban waste management system including waste-pickers, aggregators, pre- processors and recyclers. There exist around 5 million waste pickers in India who are not recognized, exploited and kept out of waste management systems. He further shared recyclables waste flow procedure in detail.

Talking about Swachh Cooperative Pune he stated that Swachh created a system where itinerant waste pickers were integrated into a doorstep waste collection system with direct user fee-based doorstep collection. He highlighted the model of a decentralised solid waste management system at Pune.

He threw light on Swachh cooperative Pune impact on waste management thereby providing maximum livelihood generation for waste pickers and facilitation of decentralised waste

processing and the ability of the system to self-sustain it. He further shared some evolutionary and allied projects for waste management like EPR based waste recycling, sanitary waste recycling, V collect centres and cooperative scrap stores.

He underlined various impacts of disaster and stated that resilience for waste management will come from autonomy and financial sustainability of solid waste management systems, providing labour incentives and high decentralization.

Lastly, he emphasized upon zero waste to be managed at the source ensuring 100% segregation at the source with reduction, recycling and reuse of solid waste.

[PowerPoint Presentation by Harshad Badre](#)

DAY 2: 17th June, 2021

Day 2 of the programme included eminent speakers **Dr Brajesh Dubey**, *Associate Professor, Indian Institute of Technology, Kharagpur*, **Ms Swati Singh Sambyal**, *Waste Management Specialist, UN-Habitat India (United Nations Human Settlement Programme)* and **Prof Suneel Pandey**, *Director, Environment and Waste Management Division, TERI- The Energy and Resource Institute, New Delhi*. The Patron for the session is **Maj Gen Manoj K Bindal**, *Executive Director, NIDM, New Delhi* and Conveners **Prof Anil K Gupta**, *Head ECDRM, NIDM, New Delhi* and **Dr Simi Mehta**, *CEO & Editorial Director, IMPRI*.

Starting with the session **Ms Nishi Verma**, *Research Program Officer, IMPRI*, welcomed the speakers and participants to the programme with an introduction to the eminent panellist.



Dr Brajesh Dubey, Associate Professor, Indian Institute of Technology, Kharagpur

#WebPolicyLearning
3-Day Online Training Programme

IMPRI | IMPACT AND POLICY RESEARCH INSTITUTE

 nidm

Disaster Resilient Waste Management
for Sustainable Spaces

Expert

Dr Brajesh Dubey

Associate Professor (Waste Management and Sustainable Engineering), Indian Institute of Technology (IIT), Kharagpur. Dr Dubey is an Environmental Engineer, Educator, Researcher, Trainer and Consultant in the area of Environmental Engineering Sciences and Health. He has also worked with several government agencies in many countries on various environmental projects and has authored/co-authored more than 200 publications in his area of expertise and has presented at several national and international conferences and has assisted United Nations and World Bank as a specialist in environmental projects in emerging/developing countries. Previously, he has worked as an Assistant Professor at the University of Auckland, the East Tennessee State University and the University of Guelph. He was also visiting Melbourne, Australia as an Endeavour Executive Fellow - Australian Government.



June 17, 2021 | 10:30 AM IST Details: <https://www.impriindia.com/event/disaster-resilient-waste-management-for-sustainable-spaces/> Register: training.nidm.gov.in

Starting with various ways to be prepared for effective waste management Dr Brajesh Dubey elaborated on the types of disasters occurring at national and international levels and stated that waste coming out of these various type of disasters are nasty in nature. He further highlighted the global economic loss occurring due to disasters. The various types of waste streams in disaster waste include vegetative waste, construction and demolition waste, household waste, vehicles and vessel waste etc.

He stressed having a disaster waste management plan especially in disaster-prone areas for tackling disaster waste effectively. He elaborated on pre-disaster and post-disaster waste management plans. Further, he shared a strategy for separation and treatment of disaster waste adopted in Japan and emphasized proper segregation of waste. He shared steps for disaster waste public information program for community participation.

He stressed working on Mother Nature to make sure nature is protected. He elucidated the fact that waste is an important component as the world generates 2.01 billion tonnes of municipal solid waste annually and hence for effective disposal of waste segregation of waste plays an important role. He emphasized source segregation for effective waste disposal.

Elaborating further Dr Dubey shared process flow for waste management which include steps of identify needs, review existing systems, review existing regulations, organizing decision-making framework, establishing objectives, identifying potential components, comparing options, developing an integrated solid waste management plan, implementing the plan and finally evaluating waste management systems. He further shared various treatment technologies according to the type of waste.

Ms Swati Singh Sambyal, Waste Management Specialist, UN-Habitat India (United Nations Human Settlement Programme)

#WebPolicyLearning
3-Day Online Training Programme

IMPRJ | IMPACT AND POLICY RESEARCH INSTITUTE

 nidm

Disaster Resilient Waste Management for Sustainable Spaces

Expert

Ms Swati Singh Sambyal

Waste Management Specialist, UN-Habitat India.
Ms Swati has worked widely across India and Global South on resource efficiency policies and affordable decentralised waste management. Her research and implementation work has been instrumental in mainstreaming source segregation and sustainable resource management in Indian cities. She worked as the head of a programme on waste management at the Centre for Science and Environment for over 9 years and is presently working with UN-Habitat as a Waste Management Specialist. She has been on the forum of Circular Economy formulated by the National Geographic Society and has been a part of national and international advisory committees on resource management.



June 17, 2021 | 11:20 AM IST Details: <https://www.impriindia.com/event/disaster-resilient-waste-management-for-sustainable-spaces/> Register: training.nidm.gov.in

Ms Swati Singh Sambyal focused best practices for management of solid waste for building resilience in cities. She shared that main stream segregation should be implemented where every generator must segregate at source as per solid waste management rules 2016. she stated that though COVID has burden the health infrastructure it has also further amplified the challenges of waste management. Thus, there is need for shifting to sustainable resource strategies and focusing on rethinking and reinventing of waste management.

She emphasized the need for a comprehensive waste management approach that focuses on waste prevention to avoid sending trash to landfills and incinerators.

She dwelled upon reinventing resource hierarchy in cities for recognizing the best use of the waste components. She insisted on data inventorisation and waste characterization prior to devising a robust waste management system. Also, it is important to understand existing waste characterization and consumption patterns for effective implementation of strategy on zero waste management. She stressed upon ground data assessment.

She shared a roadmap in order to make cities more resilient towards waste management these include mainstream segregation, effective collection and transportation of waste, setting up systems for resource recovery, creating engagement and awareness, social integration and inclusion of the informal sector and finally policy integration for promoting sustainable circular systems.

PowerPoint Presentation by Swati Singh Sambyal

**Prof Suneel Pandey, Director, Environment and Waste Management Division, TERI-
The Energy and Resource Institute, New Delhi**

#WebPolicyLearning
3-Day Online Training Programme

IMPRI | IMPACT AND POLICY
RESEARCH INSTITUTE



 Disaster Resilient Waste Management
for Sustainable Spaces

Expert

Dr Suneel Pandey

Senior Fellow and Director, Environment and Waste Management Division, The Energy and Resources Institute (TERI), New Delhi. Dr Pandey also teaches at the TERI School of Advanced Studies. He has more than 30 years of consultancy/ research experience in the areas of municipal, industrial and hospital waste management, plastic waste management, waste-to-energy issues, impact assessment, air, water and soil quality monitoring, site assessments, performance evaluation of ETP and institutional strengthening and capacity building. He has worked as a Project Fellow at NEERI, Nagpur. Prior to TERI, he has also worked at ERM India and the University of Hong Kong on hazardous and hospital waste management.



June 17, 2021 | 12:10 AM IST Details: <https://www.impriindia.com/event/disaster-resilient-waste-management-for-sustainable-spaces/> Register: training.nidm.gov.in

Prof Suneel Pandey illustrated hazardous waste spill management. He started by defining hazardous waste and why disposed of hazardous waste different from parent chemicals. He shared that most hazardous wastes are complex, multi-phase with a great variety of physical and chemical properties. Major hazardous waste includes cyanide waste, heavy metals, organic waste including solvents and tars, inorganic waste, asbestos waste etc. He further highlighted the impact of waste disposal to land in an unorganised manner resulting in contamination of groundwater and surface water contamination. Further exposure of disaster waste to land leads to human exposure to waste through inhalation, direct contact and ingestion.

Prof Pandey shared some CPCB guidelines for handling, transportation, storage, treatment and disposal of hazardous waste. He highlighted measures for the management of spill waste and stated that site investigation is required to be performed on land where the suspected release of hazardous waste has occurred for developing sufficient site characterization information to provide recommendations for future activities to rehabilitate the site.

He underlined that one of the critical steps in site investigation is to identify sensitive receptors that are directly affected or threatened by the release. He further stated risk assessment approach i.e. qualitative approach involving sampling of contamination concentration for each pathway and quantitative approach i.e. using risk assessment methodology using modelling

tools. He talked about the need for an emergency preparedness action plan for onsite storage and transportation of waste and an emergency plan to minimise hazards to human health or the environment. He further shared various PPEs and labels used for handling and transporting hazardous waste.

[PowerPoint Presentation by Prof Suneel Pandey](#)

DAY 3: 18th June, 2021

Day 3 of the programme included eminent speaker's special addressee **Prof Jyoti Parikh**, *Executive Director, Integrated Research for Action Development (IRADe)*, **Prof Prasad Modak**, *Executive President, Environmental Management Centre LLP*, **Dr Rachna Arora**, *Team Leader, Circular Economy Solutions Preventing Marine Litter, GIZ India*. The Patron for the session is **Maj Gen Manoj K Bindal**, *Executive Director, NIDM, New Delhi* and Conveners **Prof Anil K Gupta**, *Head ECDRM, NIDM, New Delhi* and **Dr Simi Mehta**, *CEO & Editorial Director, IMPRI*.

Starting with the session **Ms Nishi Verma**, *Research Program Officer, IMPRI* welcomed the speakers and participants to the programme with an introduction to the eminent panellist.

Prof Jyoti Parikh, Executive Director, Integrated Research for Action Development (IRADe)

#WebPolicyLearning
3-Day Online Training Programme

IMPRI | IMPACT AND POLICY RESEARCH INSTITUTE

 nidm

Disaster Resilient Waste Management
for Sustainable Spaces

Expert

Prof Jyoti K Parikh

Executive Director, Integrated Research and Action for Development IRADe. She was a member of the Prime Ministers Advisory Panel on the Climate Council. She was a recipient of the Nobel prize given to the IPCC authors. She was also co-recipient of the Zayed prize given to Millennium Assessment authors. She served as a senior professor at Indira Gandhi Institute of Development Research (IGIDR), Mumbai. She also worked at the International Institute for Applied Systems Analysis (IIASA), Austria and served as a senior energy consultant at the Planning Commission, New Delhi. She has experience for nearly 40 years on energy and environmental problems of the developing countries. Her publications include nearly 200 project research papers and 25 books and monographs in various areas.



June 18, 2021 | 10:30 AM IST Details: <https://www.impriindia.com/event/disaster-resilient-waste-management-for-sustainable-spaces/> Register: [training.nidm.gov.in](https://www.nidm.gov.in)

Starting with Prof Jyoti Parikh comments that disasters are increasing and one has to be ready

to face it since it is being noticed that disaster frequencies are increasing with cyclone in east and west coast. She talked upon climate resilience and smart cities and state that smart cities mission launched in 2015 focusses on sustainable and inclusive development in 100 cities with an idea to look at compact areas, create a replicable model which will act like a light house to other aspiring cities. She elaborated smart cities mission strategies including redevelopment projects, Retrofitting projects, green field projects etc.

She highlighted IRADe's "Climate Change Adaptive Programme for Urban Development" focusing on disaster resilience and smart cities, heat stress management, air pollution and human health. She stated that for sustainable urban development there is a need for vulnerability assessment for climate resilience, vulnerability index, disaster management strategies, disaster resilience action plans and GIS and remote sensing applications.

Talking about India's climate disaster vulnerability she states that disaster's often lead to high economic losses taking away all the development made. It is estimated that extreme weather events are costing India \$9-10 billion annually with the major contributor being floods. She highlighted a HIGS framework for rapid Vulnerability Analysis of cities where H stands for Hazard Exposure, I stands for Infrastructure for Governance and S for Socio-Economic Variables.

She talked about Hazard Vulnerability maps which can indicate the precise location of sites where people, environment or property are at risk due to potentially catastrophic events/climate hazards. Also, ward-level information helps in developing effective planning, adaptation and mitigation strategies.

She highlighted the need to follow comprehensive Disaster response, recovery and risk reduction plans for disaster management. She further showed a presentation on Recovery and crisis management in Handling flood Disaster in Srinagar in 2014. She stressed upon having a waste disposal plan for new emerging E-waste and Biomedical waste along with a focus on re-utilization of products and bringing behavioural change in society.

[PowerPoint Presentation by Prof Jyoti K Parikh](#)



Prof Prasad Modak, Executive President, Environmental Management Centre LLP

#WebPolicyLearning
3-Day Online Training Programme

IMPRJ IMPACT AND POLICY RESEARCH INSTITUTE

 nidm

Disaster Resilient Waste Management
for Sustainable Spaces

Expert
Prof Prasad Modak

Executive President, Environmental Management Centre LLP and Director, Ekonnnect Knowledge Foundation, Former Professor at Indian Institute of Technology, Bombay. Prof Modak worked with almost all key UN, multi-lateral and bi-lateral developmental institutions and intergovernmental organizations in the world. Apart from the Government of India and various State Governments, his advice is sought by the Governments of Bangladesh, Egypt, Indonesia, Mauritius, Thailand and Vietnam. He has also been the recipient of the Distinguished Alumni Award of AITAA in 2010 for Significant Contribution to International Affairs. Elected as Board Certified Member at American Association of Environmental Engineering.



June 18, 2021 | 11:20 AM IST Details: <https://www.impriindia.com/event/disaster-resilient-waste-management-for-sustainable-spaces/> Register: training.nidm.gov.in

Prof Prasad Modak talked about the global status of disaster waste management. Talking about disaster waste he highlighted that the financial cost of managing disaster has crossed the billion-dollar mark in recent years and disaster waste creates around 5 to 15 times of annual waste generation. He stated if planned better disaster waste can be recycled, disposed of, used to generate electricity or repurposed for land reclamation and engineering fill. He stated two types of disaster waste i.e. primary waste which is generated as a consequence of disaster and secondary waste which is waste generate by relief efforts.

Talking about stages of disaster waste management he stated post-disaster management including response, recovery and reconstruction and pre-disaster management including prevention, mitigation and preparedness. He emphasized having an emergency response for debris management (facilitate the preservation of life, provision of emergency services), Recovery (debris management as part of restoring lifeline restoration and building demolition) and Rebuild (debris management of waste generated from and used in reconstruction).

Prof Prasad Modak highlighted stages of post debris management which includes the estimation of magnitude and composition of disaster waste for each district/type of disaster, developing plans for waste collection and disposal, collating information on available sources in district/state and training for safe collection and disposal. He shared disaster management guidelines of various countries and stated that documents cover solid waste disposal and tend to focus on immediate management of waste generated in an emergency.

Talking on way head for India he emphasizes on urban local bodies to come up with debris

management plans to ensure that usable materials are recovered, recycled as aggregates and utilized in development activities.

Talking about waste management strategies in a global context he stated that the major focus is on recycling generated disaster waste using mobile recycling plants and decentralized depots collection and storage. He also elucidated that outsourcing disaster waste management by inviting private parties to provide such services can also be examined as an option that would relieve the district /state machinery to concentrate on relief and rehabilitation efforts.

[PowerPoint Presentation by Prof Prasad Modak](#)

Dr Rachna Arora, Team Leader, Circular Economy Solutions Preventing Marine Litter, GIZ India

#WebPolicyLearning
3-Day Online Training Programme

IMPRI | IMPACT AND POLICY RESEARCH INSTITUTE

 nidm

Disaster Resilient Waste Management for Sustainable Spaces

Expert
Dr Rachna Arora

Team Leader, European Union – Resource Efficiency Initiative (EU – REI), India; Team Leader, Circular Economy Solutions to Prevent Marine Litter (CES Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH. Dr Arora has been working with GIZ since 2007 under the bilateral projects, combination projects of the European Commission and partnership projects with the private sector with relevant Ministries and Government departments. She was a member of the Inter-Departmental committee set up by Niti Aayog (Policy think tank, GoI) on Resource Efficiency strategy and Research & Development (R&D) committee set up by the Ministry of Information Technology and Communication (MeiTY), GoI on electronic waste management. She is also a TEDx speaker on Circular Economy.



June 18, 2021 | 12:00 PM IST Details: <https://www.impriindia.com/event/disaster-resilient-waste-management-for-sustainable-spaces/> Register: training.nidm.gov.in

Dr Rachna Arora shared her knowledge on wastes from electronic and electrical equipment and Circular Economy. She highlighted the circular economy pathway of generating resources from waste by utilizing waste as secondary raw material to reduce extraction of primary raw material and associated environmental impacts. She stated that transition to a circular economy requires a paradigm shift across the entire consumption and production system.

Highlighting various strategies in circular economy she stated that it is about narrowing loops approach i.e. creating products and services with the same level of performance but lower environmental impacts with less emphasis on the end of use aspects.

She also talked about slowing loops and closing loops strategies in the circular economy. She highlighted that the circular economy concept is important for India as in India 97%

of India's resources are produced domestically and it is highly dependent on the import of critical raw materials.

Dr Rachna Arora threw light on electronic waste and highlighted various E-waste Rules and objectives i.e. minimizing illegal recycling and recovery operations, enabling environmentally safe and sound recycling, creating E-waste collection channelization etc. She further stated Extended producer Responsibility (EPR) which is a policy principle to decrease the total impact from the product by making producers responsible for the entire life cycle. She stressed increasing EPR awareness and suggested various policy options for Enhancing EPR in India also emphasized promoting the inclusion of the informal sector via dedicated policies and incentives for formalisation. She also shared a policy option of issuing horizontal high-level guidelines for eco-design criteria of EEE in order to increase the longevity of products.

[PowerPoint Presentation by Dr Rachna Arora](#)

Closing the 3-Day training session conveyor of the session Prof Anil K Gupta, Head ECDRM, NIDM, gave his concluding remarks and thanked all the eminent panellist. He underlined that a lot of important points have been brought up in the training with the objective of building disaster-resilient waste management for sustainable spaces. These kinds of training discourses play an important role in making people on the policy table accepting the existing issues and planning their policies through suggestions and statistics provided in the discourse. He complimented the entire team of Impact and Policy Research Institute (IMPRI) on the successful conduction of the training programme.

The training program ended with a vote of thanks by the moderator.



Key Takeaways

Segregation of waste

- The waste needs to be segregated into various categories such as chemical, biological, thermal and waste for dumps and landfills.
- Inculcating the idea of segregation of waste at source and local composting.

Inter-sectoral cooperation for waste management

- Exploring the aspects of participation and integration of the different sectors in detail in order to arrive at a framework for action on waste management.
- Strengthening local governance framework and capacity tools, making cities financially self-reliant, reimagining collaborative architecture at local levels.

Strengthening informal sector

- Integrating waste pickers into door step waste collection system with direct user fee based door step collection.
- Social integration and inclusion of informal sector.
- Providing maximum livelihood generation for waste pickers and facilitation of decentralised waste processing and the ability of system to self-sustain it.

Disaster waste management plan

- Having a disaster waste management plan especially in disaster prone areas for tackling disaster waste effectively.
- Need for disaster waste public information program for community participation.
- Need of an emergency preparedness action plan for onsite storage and transportation of waste.
- Follow of comprehensive Disaster response, recovery and risk reduction plans for disaster management.
- Urban local bodies to come up with debris management plans to ensure that usable materials are recovered, recycled as aggregates and utilized in development activities.

Enhancing Circular Economy

- Use of circular economy pathway of generating resources from waste by utilizing waste as secondary raw material to reduce extraction of primary raw material and associated environmental impacts.
- Creating extended producer Responsibility (EPR) policy awareness.



Annexures

Annexure 1: Organizers

Patron:

Major General Manoj Kumar Bindal, Executive Director, NIDM, New Delhi

Conveners:

- Prof (Dr) Anil K. Gupta, Head, Division of Environment Climate Disaster Risk Management, NIDM, New Delhi
- Dr Simi Mehta, CEO and Editorial Director, IMPRI, New Delhi

Organizing Secretaries:

- Dr Arjun Kumar, Director, IMPRI
- Ms Anshula Mehta, Assistant Director, IMPRI
- Ms Ritika Gupta, Assistant Director, IMPRI
- Mr Rohit Mehta, Digital Consultant, IMPRI

Course Coordinators:

- Ms Fatima Binte Amin, Young Professional, ECDRM Division, NIDM
- Ms Nishi Verma, IMPRI
- Ms Sunidhi Agarwal, IMPRI
- Ms Chhavi Kapoor, IMPRI
- Ms Sajili Oberoi, IMPRI



Annexure 2: List of Participants

	Name	Email
1.	Ramanpreet Singh	ramanpreetsareen@gmail.com
2.	Anuraj Basumatary	Anurajbasumatary1234@gmail.com
3.	Col Vinod Kumar Yadav	vinnod17383@gmail.com
4.	Rajnish	rajnishkr.pdm07039@dmi.ac.in
5.	Subathra T	mails2subathra.t@gmail.com
6.	Krishnakant Kumar	krishnakantkumar992@gmail.com
7.	Ragini Kumari	raghii2409@gmail.com
8.	Darakhshan Anjum	d.anjum7@bgsbu.ac.in
9.	Dharini Sharma	sharmadharini18@gmail.com
10.	Ishika Dedhia	ishikadedhia512@gmail.com
11.	Rnisarg Foundation	support@rnisargfoundation.com
12.	Swati Singh	Singh.swati.9334@gmail.com
13.	Sheeba Allie	sheeba.allie_ug22@ashoka.edu.in
14.	P Menon	ashirwadmenon@yahoo.co.in
15.	Kanhu Charan Purty	kanhucharanpurty111@gmail.com
16.	Abarna V	abarnavijay99@gmail.com
17.	Neeraj	neeraj52106@gmail.com
18.	Sanyukta Singh	sanyukta.singh_ug23@ashoka.edu.in
19.	Arshad Umar	arshadumar85@gmail.com
20.	Maheshwari Rahendran	maheshwari.rajendran@podar.org
21.	Kamal Sharma	kamalmaxx87@gmail.com
22.	Dr. Sumit Dookia	sumitdookia@ipu.ac.in
23.	Tom J Mathew	tomjmathew123@gmail.com
24.	Arpita Ghosh	arpita.ghosh_ug23@ashoka.edu.in
25.	Chander Kant	ck8132@gmail.com
26.	Yuraj Pradhan	yurajpradhan7@gmail.com
27.	Malay Roy	malay660@gmail.com
28.	Shreya Giri	girishreya77@gmail.com
29.	A.E.E Instt. Naveed	naveed6ch@gmail.com
30.	Ardra S Ashok	ardra.sreedeviashok@gmail.com
31.	Joy Chandran	vu3joy@gmail.com
32.	Rakshit Kumar Gope	rakshitkg0105@yahoo.com
33.	Swati Singh	singh.swati9334@gmail.com
34.	Mridu Datta Ghosh	mridughosh@gmail.com
35.	Nikita Dabhade	nikitadabhade49@gmail.com
36.	Vinod Kumar Aslia	asliavk@gmail.com



37.	Veluru Ramesh	velunaidu019@gmail.com
38.	Shapthagimuthusamy	shapthamuthusamy1204@gmail.com
39.	Arya	aryasthamban@gmail.com
40.	Sanjeev Gupta	fdpsanjeevpreeti@gmail.com
41.	Dr. Anjali Tiwari	anjalitiwari2807@gmail.com
42.	Dhiraj Londhe	dhiraj.londhe5@gmail.com
43.	Dr. Tanmay Gupta	tanmay.gupta@juitsolan.in
44.	Ravindra Reddy M	ravindraoudepts@gmail.com
45.	Raavin Raaj R	raavinraaj@gmail.com
46.	Abhishek Kochure	abhishek.kochure@gmail.com
47.	Loveena Rastogi	loveena_rastogi@yahoo.com
48.	Archana Tripathi	ashishashwat@gmail.com
49.	Ram Chandra Singh	singhrc.wii@gmail.com
50.	Deblina Maiti	dmhellodeblina@gmail.com
51.	Vishal Singh	Vishal.singh@pmtpims.org
52.	Sabarivel	Sabarivel772@gmail.com
53.	M2020Dm018 Poulami Ganguli	m2020dm018stud@tiss.edu
54.	Siddhi Shisode	siddhi.shisode29@gmail.com
55.	Manjunath R	vu3cjm@gmail.com
56.	Beena Mulani	mulani.beena@gmail.com
57.	Manjit Mahanta	mahantamanjit2908@gmail.com
58.	Zoya Aftab	zoi.coolstar@gmail.com
59.	A.D.Sivananda	shivanandarcot@gmail.com
60.	Ashish Gupta	connect@advag.in
61.	Monita Priyadarshini	monitapriyadarshini17@gmail.com
62.	Jayati Chawla	jayati.chawla1@gmail.com
63.	Adil Anil	amalsincy2019@gmail.com
64.	Amal Anil	amalsincy2019@gmail.com
65.	Vineesha Singh	vineeshabu17@gmail.com
66.	Shashikant Gautam	kumarshashikantgautam@nls.ac.in
67.	Nilesh Kumar	visit2nilesh@gmail.com
68.	Mayank Patel	mp2891992@gmail.com
69.	Sahodra Pawaiya	sahodrapawaiya@gmail.com
70.	Mohd Kamil Vakil	kamilvakil@gmail.com
71.	Ritika Gupta	ritika.impri@gmail.com
72.	Madhumita Banerjee	madhumita.gurgaonfirst@gmail.com
73.	Prof.(Dr) M S Khan	msgghauri786@gmail.com
74.	Amrita Pandey	pandey.amrita999@gmail.com



75.	Manish Yadav	invest4return.realtch@gmail.com
76.	Kripa Krishna	kripa.krishna_ug23@ashoka.edu.in
77.	Dr Rambabu Chief Entamologist	drrambabuayyadevara@gmail.com
78.	Neha Jagtap	nehajagtap21091995@gmail.com
79.	Biju E V	bijuevpyr@gmail.com
80.	Pala Srinivasa Rao	srinivasarao.pala4@gmail.com
81.	Manish Somnani	manish.18jime054@jietjodhpur.ac.in
82.	Megha Raha	megha.torsha@gmail.com
83.	Antara Gupta	guptaantara2@gmail.com
84.	Varsha Rani	raniv096@gmail.com
85.	Satish Pandey	satishpandey174@gmail.com
86.	Shivappa Anagoudra	shivu9894@gmail.com
87.	Smita Burrewar	smitaburrewar1@gmail.com
88.	Babita Prasad	babita.slg@gmail.com
89.	Sachin Borse	sachinborse1009@gmail.com
90.	Neha	nehapanthi50@gmail.com
91.	M. Reza Rafat	rafat.masumi@gmail.com
92.	Rashmi Dhasmana	dhasmana.rashmi@gmail.com
93.	Dr. Shatrughan Singh	ssingh9@jpr.amity.edu
94.	Prem Kishor Sharma	nidar72@yahoo.com
95.	Arghya Nandi	arghya.nandi99@gmail.com
96.	Lenovo	shivanimishra1527@gmail.com
97.	Shuvam Nag	shuvamnag@gmail.com
98.	Kumar Raghvendra	kr8601@gmail.com
99.	Dewansh Matharoo	dewansh.matharoo_ug22@ashoka.edu.in
100.	Gaurav Thakur	gauravthakur649@gmail.com
101.	Vina Vaswani	vinavaswani@yenepoya.edu.in
102.	Deepika Rani	deepikanhr79@gmail.com
103.	Sarath Kumar V	sarath1730@gmail.com
104.	Prashasti Agarwal	prashasti.agawal_ug22@ashoka.edu.in
105.	Padmakar Anand	padmakar_anand@yahoo.com
106.	Dilip Kumar Dwivedi	dilipkumar.dwivedi@ramky.com
107.	Jigneshbhai K. Sanghani	sanghanijk@gmail.com
108.	Dr. Ripunjoy Sonowal	ripunjoy.anth@gmail.com
109.	Santhosh	sanrani.raj@gmail.com
110.	Suraj Pathak	2020pcd5164@mnit.ac.in
111.	Dr. Velu Suresh Kumar	vskprd@gmail.com
112.	Sangeeta Verma	sangeetaverma8124@gmail.com



113.	Pragati Mishra	pragati1413@gmail.com
114.	Somnath Mondal	somnath5544@gmail.com
115.	Diksha	dikshakumaridk20@gmail.com
116.	A.Aashera 19Bel015	aashera.19bel@kclas.ac.in
117.	Surya Pratap Singh	soamsurya51@gmail.com
118.	Akash Chaudhary	chaudhary.sky1992@gmail.com
119.	Kapil Kumar	kapil2009.saini@gmail.com
120.	Dr. P. Nagarajan	pn6464@gmail.com
121.	Aa13 Happy Singh Sethi	sethi125051@gmail.com
122.	Bimochan Bhandari	eminembimochan@gmail.com
123.	Tom J Mathew	tomjmatheew123@gmail.com
124.	Shweta	shweta.dua@giz.de
125.	Prof. (Dr.) Nishant Verma	drnishantvermaphd@gmail.com
126.	Vivek Kumar Singh	viveksinghverman@gmail.com
127.	Raina Singam	rainasingam2001@gmail.com
128.	Siraz Hirani	hiranisiraz@msn.com
129.	Yashwant Rao	yashwantrao161@gmail.com
130.	Shraddha	shraddhasharma272001@gmail.com
131.	Mohammad Nafees	mohammadnafees25@gmail.com
132.	Deepraj Pandey	deepraj.pandey_asp21@ashoka.edu.in
133.	Hrishikesh Dhapate	hrishikeshdhapate@gmail.com
134.	Laxmi And Kavita Dandgi	laxmidandgi23@gmail.com
135.	Sanjay Bosamiya	sanjaybosamiya111@gmail.com
136.	Debeena Nongmaithem	debeenanong01@gmail.com
137.	Shreyas Kanoongo	shreyas.kanoongo@gmail.com
138.	Archit Dhawan	dr.dhawan.archit@gmail.com
139.	Dr. Kumar Ganesan	kumarg@hku.hk
140.	Vikas Kumar	vikas20a@gmail.com
141.	Kruthika N	kruthikabc@gmail.com
142.	Sandeep Reddy D R	sandeepsandy074.dmr@gmail.com
143.	371 035 9187	fazalmustafa1992@gmail.com
144.	Pratyush Anand	pratyush_1402@yahoo.co.in
145.	Bala Murugan D	balamba.psn@gmail.com
146.	Sachin Borse	sachin.borse19_dev@apu.edu.in
147.	Nikesh Kumar	nikeshkumar2536@gmail.com
148.	Raghu Goud	raghu_goud78@yahoo.co.in
149.	Liju Mathew	lijum1988@gmail.com
150.	Shivani Kaim	m2020dm028@stud.tiss.edu
151.	Dr Kumar Impri	arjunsingh5184@gmail.com



152.	Dnyaneshwar Yadav	dnyaneshwar.yadav19_dev@apu.edu.in
153.	Charu Upadhyay	charupadhyay@gmail.com
154.	Monu Samlayan	monusamlayan786.ms@gmail.com
155.	Prashant Chougule	prashantchougule41@gmail.com
156.	Kuntal	kuntal247@gmail.com
157.	Dapborlang Langba	panda18yle@gmail.com
158.	Thiyagarajan R	rashmithiyagu@gmail.com
159.	Dr. Shibani Khanra Jha	shibani@pilani.bits-pilani.ac.in
160.	Neelima Mishra	neelima1810@gmail.com
161.	Irina	irina.ning@gmail.com
162.	Navya	navyamurthy1609@gmail.com
163.	Vidu Krish	vvidu2003@gmail.com
164.	Shivamadaiah Shivamadaiah	shivamadaiah@gmail.com
165.	Saubhagya Mahapatra	nimmypmukundan@gmail.com
166.	Dr. G. C. Tewari	gc.tewari@gmail.com
167.	Reshma Lr	reshmalr40@gmail.com
168.	Multimedia World	bhetkipurhighschool@gmail.com
169.	Amit Kumar Jaglan	footprint1109@gmail.com
170.	Ankush	anush.jaswal27@gmail.com
171.	Siddhi Mehta	mehtasiddhi16@gmail.com
172.	Suni.B3Hse@Gmail.Com	suni.b3hse@gmail.com
173.	Abinaya Lakshana E	abinayalakshana675@gmail.com
174.	Dr.D.Gnanasangeetha	sangithprakash@psnacet.edu.in
175.	Karthika.S	karthikasubramanian21@gmail.com
176.	Satyendra Nath Yadav	sny.mmec@gmail.com
177.	Himani Gaba	himani.gaba@gipe.ac.in
178.	Sophia Joseph	sophiatinku@gmail.com
179.	Jitendra Kumar Singh	jiten.singh01@gmail.com
180.	Basumatary Jaison	shawjbasumatary@gmail.com
181.	Lakshmi Adithi Bumanapalli	lakshmi.bumanapalli_ug23@ashoka.edu.in
182.	Rachit Tiwari	rachit.tiwari1998@gmail.com
183.	Mahavir Kasar	mahavirkasar@gmail.com
184.	Partha.14	rajaparths9@gmail.com
185.	Ananthan Kartha U	ananthankartha97@gmail.com
186.	Girish Roy	girish01261@gmail.com
187.	Majeer	majeer@indianoil.in
188.	Anand Kumar	anandjha1701@gmail.com
189.	Soumi Maji	majisoumi99@gmail.com
190.	Jayamani Lawrence	lawrence.lawru@gmail.com



191.	Roshan John Netto	roshanjohn997@gmail.com
192.	Kalpana Roy	kalpanaroy14@gmail.com
193.	Aparnaa	aparnaa6111@gmail.com
194.	Dr. Rajeshkumar Kishorkumar Panchal	rkpanchal@nau.in
195.	Anjali Verma	anjusktv@gmail.com
196.	Pallab Sarmah	pallabsarmah03@gmail.com
197.	Bhumika Vyasa	bhumivyasujainkar1@gmail.com
198.	Olysmitta	choudhuryolysmitta2000@gmail.com
199.	Ria Mohal	riamohal@gmail.com
200.	Sruthi Nair	sruthicn8@gmail.com
201.	Mohit Sharma	mohit.Sharma44332211@gmail.com
202.	Kanishka Goraksha	kanishka.goraksha@gmail.com
203.	Ankita Borah	aborah614@gmail.com
204.	K.Nagarajan	nagarajan22563@gmail.com
205.	Dr Jinesh Saini	jineshsaini89@gmail.com
206.	Md Khairul Alam	mdkhairulalam9121@gmail.com
207.	Adarsh T	adarshadhu003@gmail.com
208.	Dr. Hutoxi Aibara	hm.mjdhighschool@sesmumbai.org
209.	Sangita Mahanand	sangitamahanand90@gmail.com
210.	Hari Sankar Rout	swati_pab@yahoo.co.in
211.	Koustav Dutta	duttakoustav15@gmail.com
212.	Aary Lobo	aary.pearl.lobo@gmail.com
213.	Mahima Trivedi	mahimatrivedi36@gmail.com
214.	Trisha Biswas	trishab544@gmail.com
215.	Shrija Dey	shrija.shri98282@gmail.com
216.	Navneet Sharma	sharma.navneet236@gmail.com
217.	Ketki Gadre	ketki.s.gadre@gmail.com
218.	Dongr	sumit.dongriyal@gmail.com
219.	Farhana Sultana Rahman Neog	farhanasultanarahmanneog@gmail.com
220.	Muhammad Nasir	bonenasir@gmail.com
221.	Dayomika R Kharsyntiew	dayomika@gmail.com
222.	Nishant Misra	nmishra.pratapgarh@gmail.com
223.	Paresh	sortindia@gmail.com
224.	Aparna Vankore	appuvankore@gmail.com
225.	Archana Kakde	archanakakde470@gmail.com
226.	Sapna Raikwar	anantkhajuraho1@gmail.com
227.	Mallela Anilkumar	anilkumarmallela7@gmail.com



228.	Mahadev Mondal	mondalmahadev8@gmail.com
229.	Balbir Kashyap	balbirkashyap68@gmail.com
230.	Priteesh Kumar	addirock786@gmail.com
231.	Aman Kumar Gupta	akg.amankumargupta123@gmail.com
232.	Vsharma	vishal.jmu@gmail.com
233.	Arun Talukdar	aruntalukdar@outlook.com
234.	Ritwik Pati	ritwik.pati@undp.org
235.	Karishma	bibliophilearch@gmail.com
236.	Avinash Tiwari	dravinashtiwari818@gmail.com
237.	Athar Mansury	atharmansuri@gmail.com
238.	Ritesh Pandey	riteshpandey222@gmail.com
239.	Amit Singh	singhamit1731@gmail.com
240.	Pradip Chouhan	pradip.c@snuniv.ac.in
241.	Nageshwar Kumar	nageshwar.kumar_ug23@ashoka.edu.in
242.	Nagendra Kumar K	nagendra001@gmail.com
243.	Jagadish Nadar	jagadishnadar@gmail.com
244.	Wanbanroi .S.Marbaniang	marwanbanroi1234@gmail.com
245.	Dr Hina Shaikh	heenashaikhq@gmail.com
246.	Rajan Kumar	rajan.sharmanov1991@gmail.com
247.	Kalyana Kumar Gandhi S	kalyan07kumar@gmail.com
248.	Aparna Barman	barmanaparna2021@gimail.com
249.	Anupam Biswas	anupam1997biswas@gmail.com
250.	Ipsita Subudhi	ipsi.subudhi@gmail.com
251.	Ritambhara Upadhyay	ritambharaku@gmail.com
252.	Shankar Mr	shankar.mr@in.knightfrank.com
253.	Tejavath Shyam	tejavathshyam1998@gmail.com
254.	Edith	ankita.e.chettri@gmail.com
255.	Anuradha Mahajan	anuradhaa.mahajan@gmail.com
256.	Jyoti Bikash Datta	vyotibikashblg@gmail.com
257.	Ashiq Hussain	l ashu1968@gmail.com
258.	Sutapa Maji	no.smaji@gmail.com
259.	Rajeev Kumar Sharma	rajeevkumar.sharma@in.roca.com
260.	Mahesh Kamble	maheshtiss@gmail.com
261.	Mayuri	m.mayurid@gmail.com
262.	Ajaya Kumar Dalai	ajayadalai6@gmail.com
263.	Rajeev Kumar	r.rajeev09@gmail.com
264.	Mehul/Mks 093	mks093@manaskritischool.com
265.	Abdullah Atiq	abdullah_atiq@outlook.com
266.	Sarika Chouksey	sarikachouksey@yahoo.co.in



267.	Nandita Bhuyan	maina.nandita@gmail.com
268.	Ruchika Hirna	ruchika.hirna@alumni.ashoka.edu.in
269.	Manjula N. Rao	swmexpert@gmail.com
270.	Samardeep	samardeep.chawla@gmail.com
271.	Abhisek Rout	umg20001@xustudent.edu.in
272.	Neethu J	neethujayaprakash99@gmail.com
273.	Ruturaj	ruturajgaikwad2@gmail.com
274.	Amrita Singh	amritasingh.ammie@gmail.com
275.	Twinkle Dev	twinkledev476@gmail.com
276.	Sharon Treesa Abraham	sharontreesaa@gmail.com
277.	Reshma Lr	reshma382@gmail.com
278.	Anindya Mondal	anindyamondal636@gmail.com
279.	Dhanush Kumar	dhanushkumarm304@gmail.com
280.	Dr Amrit Kumar	akumar20@ggn.amity.edu
281.	Girdhari Lal Saini	girdharilalsaini58@gmail.com
282.	Avdesh Bhardawaj	avdeshiitd@gmail.com
283.	Iban Syiemlieh	ibansyiemlieh711@gmail.com
284.	Arun Kant Varnwal	arun.arunkant@gmail.com
285.	Sheikh Rumilah	sheikhrumilah590@gmail.com
286.	Prem Jha	premsamar1119@gmail.com
287.	Abhinav Ramaria	Abhinav@aspirelabs.com
288.	Raman Saxena	raman101786@gmail.com
289.	Ipsita Chatterjee	ipsita.chatterjee_ug21@ashoka.edu.in
290.	Jay Kushwaha	jay.kushwaha@outlook.com
291.	Rithika Chandran	rithika.chandran01@gmail.com
292.	Sakshi Nema	sakshi.99nema@gmail.com
293.	Rajesh Kumar Pandey	dago.rajesh3129@gmail.com
294.	Vaibhav Yadav	vvy0007@gmail.com
295.	Devraj	devrajnautiyal000@gmail.com
296.	Lyng Chiang Bormi	lyngchiangbormi@gmail.com
297.	Harbakesh Singh	hs.civildefence@gmail.com
298.	Anushin Ray	anushin.ray@gmail.com
299.	Aa Sarma	apsarma1@gmail.com
300.	Vinodhbabu	vinodh.babu@kemin.com
301.	Abdul Basith K P	abdulbasithkp96@gmail.com
302.	Rajeev Rana	rajeev.tsunami@gmail.com
303.	Rajlaxmi	rajwang15@gmail.com
304.	Athif Sayyaf	athifsayyaf786@gmail.com
305.	Dhara Shivhare	dharashivhare09@gmail.com



306.	Anushika Chintaluri	anushika.pg190157@cept.ac.in
307.	Sunil Mehra State Secretary Parisangh Rajasthan	jbassociates211@gmail.com
308.	Umed Singh	umed.singh@mercer.com
309.	Anudarsh S	anudarsh.s_ug22@ashoka.edu.in
310.	Yaddanapudi Hemalata	yaddanapudihemarao@yahoo.co.in
311.	Nowa M	madaelinowa@gmail.com
312.	Pallavis	pallavi.teri@gmail.com
313.	Nilofar Saifi	ar.nilofarsaifi92@gmail.com
314.	Priyanka Walter	priyanka.cvv200093@cvv.ac.in
315.	Arvind Chauhan	arvindchauhan.chauhan081@gmail.com
316.	Aggrim Sharma	aggrim.sharma_ug21@ashoka.edu.in
317.	Manish Sarathe	manish.sarathe17@gmail.com
318.	Mohd Kamil Vakil	kamil.iitk@gmail.com
319.	Munmun Mohapatra	munmohapatra13@gmail.com
320.	Vetriver Manoharan	manovetri@yahoo.com
321.	Renu	Renomal63@gmail.com
322.	Priyanka Hansa	hansapriyanka9858@gmail.com
323.	Roy George Gipe	roy.20-23@gipe.ac.in
324.	Sophia Joseph	sophiajoseph178@gmail.com
325.	Priyanka Das	priyankadas7991@gmail.com
326.	Vaishnavi	nemade999@gmail.com
327.	Dr. Pallavi Sharma	psharma3@ggn.amity.edu
328.	Rashmi Singh	rashmisingh90@gmail.com
329.	Moumita	moumita.barman9898@gmail.com
330.	Saswati	sasjnu@yahoo.com
331.	Shubhra Kamthan	kamthanrunjhun@gmail.com
332.	Shubham Prakash	shubhamprakash@nls.ac.in
333.	Sreevidya V	v.sreevidya@skct.edu.in
334.	Steve Luke	mca552@rajagiri.edu
335.	Shilpa Soni	sonishilpa1982@gmail.com
336.	Dr. Madhu Bala	madhubsdma@gmail.com
337.	Yogesh Pardeshi	nikipardeshi50@gmail.com
338.	Vidhya Chandramohan	vidhyachandra@yahoo.co.in
339.	Ankhi Saha	akhee.saha@gmail.com
340.	Shankha Shubhra Goswami	shankhashubhragoswami@gmail.com
341.	Anjali Thati	anjali.thati_yif21@ashoka.edu.in
342.	Dilip Kumar Dwivedi	dilip84dwivedi@gmail.com
343.	Om Narayan Yadav	om.vns03@gmail.com



344.	Ravi Aggarwal	ravi.aggarwal64@gmail.com
345.	Atul Dutta	atuldutta08@gmail.com
346.	Subha Narayan Mishra	subha.erasama.1976@gmail.com
347.	Suvidha Patil	suvidhap08@gmail.com
348.	Kiran Chougule	kiranchoughule24@gmail.com
349.	Dr. Sharwan Kumar Singh	sharwankumarsingh@gmail.com
350.	Pushpraj Singh Rajawat	capt.rajawat.ps@gmail.com
351.	Ritam Dhar	ritam.dhar.2000@gmail.com
352.	Garima Kaushik	gkkaushikgarima@gmail.com
353.	Ajay Singh Manawat	ajaysinghmanawat@gmail.com
354.	Deepshi Grover	m2020dm004@stud.tiss.edu
355.	Anshuman Dash	strike.anshu@gmail.com
356.	Raj Narayanan	rajreporter@gmail.com
357.	Dr. Simranjeet Singh	simranjeet_fps@sgtuniversity.org
358.	Raju Roy	rajulive24@gmail.com
359.	Vaishnavi M. Saxena	vaishnavisaxena@yahoo.com
360.	Muhammad Yusuf Bin Fazil	fazriz@gmail.com
361.	Lakshmikanth Hm	hmkanth76@gmail.com
362.	Balwant	Balwantsingh.a@hcl.com
363.	Dr. Sanjib Das	snjbds828@gmail.com
364.	Shikha Jadaun	shikhajadaunw2@gmail.com
365.	Dr. Amrita	dramrita.and@gmail.com
366.	Piyali Sengupta	piyali.sengupta@gmail.com
367.	Joshyja Jose	joshyjajose@gmail.com
368.	Juthika Bhowmick	bhowmickjuthi@gmail.com
369.	Kashinath Mishra	manishm2861995@gmail.com
370.	A V Karthick	avkarthick@gmail.com
371.	R B Shringi	rb.shringi@gail.co.in
372.	Kamalesh Sen	ksen.envs@gmail.com
373.	Borshadutta	borshadutta19.6.97@gmail.com
374.	Vijay	thurramvijaykumar@gmail.com
375.	Chitranjali	tiwari.chitranjali@gmail.com
376.	Koyena Ray	koyena.ray@gmail.com
377.	Varnika Gangavalli	varnika.gangavalli_ug21@ashoka.edu.in
378.	Abhinav Ramaria	aspirelabs37@gmail.com
379.	Dr. Manoj Panwar	manojpanwar.arch@dcrustm.org
380.	Prachi Rattanpal	prachi.msd@gmail.com
381.	Abhishek Banerjee	clemenze007@gmail.com
382.	Raja Krishna Murthy Morla	rajamorlakm@gmail.com



383.	Musharib Showkat Rafiqi	musharibrafiqi@gmail.com
384.	Shrikant Bagwe	shrikant.bagwe12@gmail.com
385.	Rohan Mark Nimmagadda	rohanmark.n@gmail.com
386.	Debasish	risk.n.life@gmail.com
387.	Manisha Singh	singhmanishaa1@gmail.com
388.	S Borah	borahsimanta78@yahoo.in
389.	Nafeesa	macnafeesa@gmail.com
390.	Bivin Ebenezer	bivinebenezer@gmail.com
391.	Dr. Satya Prakash Mehra	drspmehra@yahoo.com
392.	Soham Sharma	sohamsharma4321@gmail.com
393.	Vivek Kumar Singh	v.singh@dmi.ac.in
394.	Sowmya K	sowmyakarunanithee@gmail.com
395.	Sreeji	sreejiaalamcode@gmail.com
396.	Kaustubh Parihar	kaustubh.parihar@gmail.com
397.	Geetha Devi	geeth.devi@gmail.com
398.	Rahul Haribhau Dhamane	rahul@goonj.org
399.	Wanda Judith Mcdonald	wandajudithmcdonald@gmail.com
400.	Harshwardhan	dewsanu@gmail.com
401.	Sreecharan Gullapalli	gsreecharan90@gmail.com
402.	Shrishti Mishra	shrishtimishra50608@gmail.com
403.	Rohan Malhotra	malhotra.rohan16@yahoo.com
404.	Rajan Varshney	rajanvarshney04@gmail.com
405.	Neil Riahtam	riahtamn@gmail.com
406.	Kanchan Dogra	dograkanchan1@gmail.com
407.	Yogendra Sharma	yogi.scott92@gmail.com
408.	Aggrim Sharma	aggrimsharma@gmail.com
409.	Rohit Kanda	rajputlakshya@gmail.com
410.	Dr Nekkanti Kumaraswamy	kumaraswamy41@gmail.com
411.	Chandrasen Kothawale	cpkothawale@gmail.com
412.	Afia Siddiqui	afiasiddiqui25@gmail.com
413.	Nabeela Siddiqui	nabeelasiddiqui09@gmail.com
414.	Sagar Jayaram	sagarjb6@gmail.com
415.	O. Abulibda	abulibda.o@gmail.com
416.	Mayank Gupta	jhansimayankgupta@gmail.com
417.	Rakesh Ranjan	22rrmishra97@gmail.com
418.	Jarken Gadi	jarken.gadi@gipe.ac.in
419.	Ashok Kumar G	ashokgrkanhangad@gmail.com
420.	Shreyash Subudhi	shreyashsubudhi2@gmail.com
421.	Hitesh Gupta	hiteshbgupta92@gmail.com



422.	Kritibas Dutta	duttakd8june@gmail.com
423.	Tanu Shoaib	shoaibtanu85188@gmail.com
424.	Pooja Bharti	poojabharti3333@gmail.com
425.	Dr Rajiv Kumar Jain	rajivkjain57@gmail.com
426.	Kalyani Mawale	kalyani1271999@gmail.com
427.	Vaibhav Pal	vaibhavpalvk47@gmail.com
428.	Sheeba Allie	sheeba.allie@gmail.com
429.	Methun Kumar Biswas	mkbiswas111@gmail.com
430.	Jebaraj Samuel Dorai D	sam.dj97@gmail.com
431.	Duvvada Mallikarjuna Rao	mallikarjun_environ@yahoo.com
432.	Gurjeet	gurjeetkc@gmail.com
433.	Aakash Upadhyay	akashdse@gmail.com
434.	Anand Kumar Gupta	akumargupta272@gmail.com
435.	Rohit Giri	rohitgiri0@gmail.com
436.	Munir Sofi	munirsufi@outlook.com
437.	Arthi Bahadoor	arthibahadoor@yahoo.com
438.	Vinod Kumar	vinodkumar04031993@gmail.com
439.	Goldee Kumari	kumarigoldi1111@gmail.com
440.	Neelam Sheoran	neelamsheoran29@gmail.com
441.	Ujwala Gaikwad	surgaikwad69@gmail.com
442.	Eshhazra Kumar	kumareshhazra2007@gmail.com
443.	Mini Siby	minisiby@gmail.com
444.	Babji Malineni	babjimali@yahoo.com
445.	Snehal Dhanawade	marathiclassvandvi@gmail.com
446.	Meena Yadem	h2020ppg027@stud.tiss.edu
447.	Shubham Ghorpade	Stghorpade100@gmail.com
448.	Yash Maheswari	yash.maheswari1444@gmail.com
449.	Chirag Kumar Sahu	sahuchirag8291@gmail.com
450.	Chaudhary리시 라즈	rishibj169@gmail.com
451.	Vivek Anandan	vivek.cwprs@gmail.com
452.	Deepak Sharma	deepak.sharma@indiaglycols.com
453.	Krishnasree Br	krishnasreebr@gmail.com
454.	Dhruv Bisht	dhruvbisht7017@gmail.com
455.	Suryaprakash Vyas	suryaprakashvyas68@gmail.com
456.	Bandan Kumar Mishra	bmishra@gitam.edu
457.	Mayank Sharma	mshkaroa98@gmail.com
458.	Ritesh Pandey	riteshbhu222@gmail.com
459.	Madhura Roy	madhuraroy12@gmail.com



460.	Rashmi Ranjan Mohapatra	mohapatrar@gmail.com
461.	Shaik Gulam Afzal Biyabani	afzal.biyabani@muhaidib.com
462.	Dr Gopal Sharma	gopalrishabh@gmail.com
463.	Sujit Biswas	sujit.biswas8289@gmail.com
464.	Arijit Gupta	ami_arjit2003@yahoo.co.in
465.	Krity Gautami	krity.gautami2000@gmail.com
466.	Rekha Kurekar	rekha.kurekar@podar.org
467.	Mukesh Saubhagya	mukesh_saubhagya124@rediffmail.com
468.	Tejaswini Lade	ladehtejaswini@gmail.com
469.	Dr Rambabu Chief Entomologist	ceums.ghmc@gmail.com
470.	Irfan Makhdoomi	irfanyaqoob26@gmail.com
471.	Jayesh Madhursinh Matani	mataniquiz@rediffmail.com
472.	B. Mahammad Rahmathulla. S	mdrtl.biochem@gmail.com
473.	Simmin Bawa	simmin.bawa@jaihindcollege.edu.in
474.	Dr.Komal Juglan	drkomaljuglan@gmail.com
475.	Dolly Rabha	dollrabha123@gmail.com
476.	Vishnu.K.Shaji	vishnukshaji17@gmail.com
477.	Dkunal Pagare	kunalpagare9090@gmail.com
478.	Akshay S Kumar	akshayskumar3852@gmail.com
479.	Akshayjit Podder	chem.akshayjit.aus@gmail.com
480.	Drashti	drashtirathore90@gmail.com
481.	Gita	nethravathisiri@gmail.com
482.	Arun Ajit	a_ajit@ar.iitr.ac.in
483.	Santhoshkumar Mk	santy727095s@gmail.com
484.	Dr. K Kalaichelvi	kalaichelvi78@yahoo.co.in
485.	Pritam Patil	pritampatil61@gmail.com
486.	Jaya Prakash Budeti	jayaprakashbudeti@gmail.com
487.	Pankhuri Sharma	pankhuri.tayal@gmail.com
488.	Nikhil Mene	menenikhil@gmail.com
489.	Pm Balaji	pmbalaji@yahoo.com
490.	Trisha Bansal	trisha3507@gmail.com
491.	Rumie	goyal.rumie@gmail.com
492.	Heena Gupta	heenasaaket_30@yahoo.co.in
493.	Alapan Ghosh	alapanghoshwbdp@gmail.com
494.	Subham Roy	subhammn2@gmail.com
495.	Suhani Gupta	sgupta1280@gmail.com
496.	Nishat Afshan	ar.nishat1295@gmail.com



497.	Krutadnyata Kamble	komalskamble95@gmail.com
498.	Deepti Bhilware	bhilwaredeepti@gmail.com
499.	Bebean Marak	bebeansynthang1418@gmail.com
500.	Prasanta Satapathy	prasanta.swati@gmail.com
501.	Kanchan Kumari	kanchankumarivns2018@gmail.com
502.	Amal	amaltb19@gmail.com
503.	Prateek Pathak	pratiikpathak@gmail.com
504.	Ehtisham Ahmad Khan	eakhan1@gmail.com
505.	Khushi Goyal	goyalkhushi2706@gmail.com
506.	Sonam Sharma	drsonamsharma@gmail.com
507.	Md Omar Faruk	omorfarukscdm@gmail.com
508.	S.Chandrashekara	chandrassastry1954@rediffmail.com
509.	Drishti Khattar	drishtikhattar@gmail.com
510.	Abhishek Kumar	ak1729mssi1000@gmail.com
511.	Varenyam	ranjitxiss@gmail.com
512.	Gautamdas	gautam0074@rediffmail.com
513.	Deepa H	deepac1002@gmail.com
514.	Reshma K	amsher.k@gmail.com
515.	Vishal Sharma	vishal.jmu@gmail.com
516.	Tarun	tarungautam582@gmail.com
517.	Sangeeta	sangeetaverma8124@gmail.com
518.	Amal K Simon	amalksimon4@gmail.com
519.	Nabeela Siddiqui	nabeelasiddiqui09@gmail.com
520.	Anushtha	anushtha0305@gmail.com
521.	Paresh Parekh	sortindia@gmail.com
522.	Dr. Droupti Yadav	droupti.yadav@gmail.com
523.	Meenakshi	meenakshirathore1990@gmail.com
524.	Soumen Das	soumen.das037@gmail.com
525.	Sanjay Bosamiya	sbosamiya8976@gmail.com
526.	Nivetha E	nivethae96@gmail.com
527.	Ankita	aborah614@gmail.com
528.	Numan Hakak	numanhakak32@gmail.com
529.	Prassanjit Singh	prassanjitsingh@gmail.com
530.	Palak	seema1970vastu@gmail.com
531.	Dapbor	panda18yle@gmail.com
532.	Jilsha A B	jilshaab@gmail.com
533.	Dr Rajiv Kumar Jain New Delhi India	rajivkjain57@rediffmail.com
534.	Laxmi & Kavita Dandgi	laxmidandgi23@gmail.com



535.	Moumita Barman	moumita.barman9898@gmail.com
536.	Mivann Lamin Gayang	mivanngayang01@gmail.com
537.	Aditi Arora	aditi.rora@gmail.com
538.	Paresh Parekh	sortindia@gmil.com
539.	Amardeep Kumar Verma	a.kverma1007@gmail.com
540.	Suvidha Patil	suvidhap08@gmail.com
541.	Roy George	roy.20-23@gipe.ac.in
542.	Venkatesh Alur	venki76652@gmail.com
543.	Nethravathi Siri	nethravathisiri@gmail.com
544.	Sneha Katara	nird.tot@gmail.com
545.	Neil Badondor Riahtam	riahtamn@gmail.com
546.	Malik Zaffar Iqbal	malikzaffar844@gmail.com
547.	Dr.Hari Karthi	harikarthi22@gmail.com
548.	Harbakhsh Singh	hs.civildefence@gmial.com
549.	Ravindra R M	ravindraoudepts@gmail.com
550.	Harishtha B	harishthahari98@gmail.com
551.	Dr Mohammed Fazil L	fazriz@gmail.com
552.	Girish Bhari	girishawesome792@gmail.com
553.	Kumud Dhanwantri	kdhanwantri@ggn.amity.ed
554.	M2020Dm018 Poulami Ganguli	m2020dm018@stud.tiss.edu
555.	Dr Gopal Sharma	satyabhamahospital@gmail.com
556.	Dr. Surath Nayak	surajpondy99@gmail.com
557.	Ancy Siraj	alfassiraj70@gmail.com
558.	Dr Sanjeev Sharma	sharmadwo@gmail.com
559.	Gagan	mishragagandeep@gmail.com
560.	Ravi Sagar Gowda	566gowda@gmail.com
561.	Mithun Deb	mithun.terrestrialgis@gmail.com
562.	Abishek Pradhan	abishekmikko1998@gmail.com
563.	Pushpanjal Singh	pushpanjalirmis@gmail.com
564.	Hriddhima Singh	dmhriddhimaims@gmail.com
565.	Ritu Rani	ritu40489@gmail.com
566.	Gurjeet	gurjeetkc@yahoo.con
567.	Pragya Purang	pragyapurang@gmail.com
568.	Sumitava Dutta	sumitava.dutta88@gmail.com
569.	Imran Katiya	itukatiya9@gmail.com
570.	Gaurav Kumar Chauhan	kumargauravchauhan51@gmail.com
571.	Chaitanya	chaitanyavaraprasad12@gmail.com
572.	Rayees Ahmed	rayeesahanger364@gmail.com



573.	Chander Kant	ck8132@gmai.com
574.	Maheshwari Rajendran	maheshwari.rajendran@podar.org
575.	Vinodhbabu	vino251083@yahoo.com
576.	Shivananda Arcot	shivanandarcot@gmail.com
577.	Pankhuri Sharma	pankhuri.tayal@gmail.com
578.	Pankaj Gawande	pankajgawande85@gmail.com
579.	Pragya Mishra	pragya.mishra8315@gmail.com
580.	Dr. K Saravanan	loginsaravanank@gmail.com
581.	Rupak Nandy	rupaknandy8@gmail.com
582.	Dr. Vikram Mor	vikramseemla@gmail.com
583.	Dr. Tilottama . Galande	dr.tilottama_galande@yahoo.in
584.	Dayomika R. Kharsyntiew	dayomika@gmail.com
585.	3 Sem Civil Engg	shoaibtanu85188@gmail.com
586.	15.Ritesh Pandey	ritesh.invictus@gmail.com
587.	Megha Gurjar	meghagurjar1997@gmail.com
588.	K..Nagarajan	nagarajan22563@gmail.com
589.	Chitranjali Tiwari	tiwari.chitranjali@gmail.com
590.	Ancy Siraj	ancysiraj@gmail.com
591.	Swayam .	sushildsp@gmail.com
592.	Kumud Dhanwantri	kdhanwantri@ggn.amity.edu
593.	Khateeb Ahmad	khateebahmadamu@gmail.com
594.	Dr Sharayu	docsharayutupkar@gmail.com
595.	Anoop Saxena	anoopmgl.as@gmail.com
596.	Rashmi D	dhasmana.rashmi@gmail.com
597.	Subhash Jaryal	badalakash5@gmail.com
598.	Amit Sharma	amit.s.shi@gmail.com
599.	Mohamed Yunoos M	mohamed.y@bialairport.com
600.	Arpita Goyal	goyalarpita0108@gmail.com
601.	Kevin Thomas	kevinthomassp@gmail.com
602.	Deepshi Grover	deepshi25grover@gmail.com
603.	N. Vivekanandan	anandaan@rediffmail.com
604.	Vincent Soosai	vincentjsoosai@gmail.com
605.	Aaditya Pratap Sanyal	apsanyal.apd@iitbhu.ac.in
606.	Dr Muhammad Nasir Ahmad	bonenasir@gmail.com
607.	Kaiffee Jawed	mdkaiffee786@gmail.com
608.	Janardan Gavit	janardangavit1998@gmail.com
609.	Ann Maria Joge	annmariajoge@gmail.com
610.	Renu Bali	renumal63@gmail.com
611.	Shrikant Bagwe	bagweshrikant12@gmail.com



612.	Aditi Arora	aditi@lingayasvidyapeeth.edu.in
613.	Ashna	ashnagargi3069@gmail.com
614.	Rajesh Cheriya	rajeshcheriyala@gmail.com
615.	Dr.S. Darwin Paul	darwinpauledison@gmail.com
616.	Dr. Usha Shukla	usha.shukla2@gmail.com
617.	Abhishek Kochure	abhishekkochure@gmail.com
618.	Prof. Rajeshkumar Chimanrao Patil	shrirajerao@gmail.com
619.	P Menon	ashirwadmenon@yahoo.com
620.	Nitish Yadav	yadav.nitish9540@gmail.com
621.	Vinodhini C	vinodhini.c@kpriet.ac.in
622.	Santhosh Kumar	santy727095s@gmail.com
623.	Om Satish	omsatish21@gmail.com
624.	Viraj Takale	virajtakale8@gmail.com
625.	Sukhpreet Kaur	sukhi28797@gmail.com
626.	Anoop Srivastava	anoop11oct@gmail.com
627.	Prasanth	prasanth@spav.ac.in
628.	Anju Kakkar	anju.kakkar@lic.du.ac.in
629.	Eshhazra	kumareshhazra2007@gmail.com
630.	Chander	bhushanchander14@gmail.com
631.	Arun Dalai	Aruna7876@gmail.com
632.	Ramni 10	ramanish1902@gmail.com
633.	Samal Satyabrata	samal.satyabrata@gmail.com
634.	Prashant Shahi	prashantshahi84@gmail.com
635.	Aridweep Majumder	majumderdeep101@gmail.com
636.	Latchathipathi Dhayalan	latchathipathi.d@gmail.com
637.	Shilpa S Soni	sonishilpa1982@gmail.com
638.	Lokesh Kanth	lokeshkaanth@gmail.com
639.	Shilpa Ssoni	saraf.shilpa1@gmail.com
640.	Mardrella F Kharmawphlang	mkmawphlang@gmail.com
641.	Utsa Roy	uroy@ymail.com
642.	Mr. Gyan Deep Sharma	gyandyp@gmail.com
643.	Abdul Razaq	abrazaqn8@gmail.com
644.	Navya Sabbathi	navya160995@gmail.com
645.	Manisha Singh	manishamcps@gmail.com
646.	Tinu Krishna Nagarajan	send2tinukrishna@gmail.com
647.	Sumit	sumit.dongriyal@gmail.com
648.	Tushar Singh Bodwal	tusharsinghbodwal@gmail.com
649.	Suraj Pathak	surajpathakofficial@gmail.com



650.	Raji Senthilkumar	senthilkumarraji2010@gmail.com
651.	Aakanksha Rajput	usarajput1979@gmail.com
652.	Measi College Of Education 10209	pareetjayadevi@gmail.com
653.	Hridoy	ranjan.hridoy@gmail.com
654.	Varenyam 4B	ranjitxiss@gmail.com
655.	Tripura Sundari	tsundari30@gmail.com
656.	Ankita Borah	ankita.borah_asp21@ashoka.edu.in
657.	Shuvam Nag	subham.edulifeghy@gmail.com
658.	Tamalika Mondal	mondaltamalika491@gmail.com
659.	Sampurna Dutta	sampurna.dutta_ma22@ashoka.edu.in
660.	Anu	tonkanu.saroaha@gmail.com
661.	Vishnu.K.Shaji	vishnukshaji17@gmai.com
662.	Mustafa Fazal	fazalmustafa1992@gmail.com
663.	Ashwin Badhe	ashwin3375@gmail.com
664.	Ranjeeta Kar	ranjeetakar6@gmail.com
665.	Vilas.Jadhav	Vilas.jadhav@in.knightfrank.com
666.	Krishan Kant Gautam	krishanpandat02@gmail.com
667.	Dayomika Kharsyntiew	dayomika@gmail.com
668.	Shalaka S	shalakabshejwalkar@gmail.com
669.	Arti Vashishth	dsklink@gmail.com
670.	Shrija Dey	shrija.shri98282@gmai.com
671.	Ddp Office	div.allahabad@gmail.com
672.	Jyotsana Gupta	jyotsanagupta095@gmail.com
673.	Sharmila	asharmila@vvce.ac.in
674.	Rinki Maji	majisoumi99@gmail.com
675.	Antara Gupta	antara.gupta_asp21@ashoka.edu.in
676.	Sharique Raza Shaikh	shariqueraza_iyc_31@rocketmail.com
677.	Aparnaa Kl	aparnaa6111@gmail.com
678.	Krishna Bhatt	kb9506417@gmail.com
679.	Ipsita Subudhi	ipsita.pui20136@cept.ac.in
680.	Devi P Sasi	devips@carmelcet.in
681.	Abhishek	clemenze007@gmail.com
682.	Joshi, Akshat	akshjoshi@deloitte.com
683.	Kailash Mishra	kcmishra2000@gmail.com
684.	Pandey Prashnat Satishkumar	pspandey201@gmail.com
685.	Suchit Gupta	suchitgupta38@yahoo.com
686.	Sheikh Mubarek Gul	smgull34@gmail.com
687.	Deen Bandhu Agarwal	db_agarwal2000@yahoo.com



688.	Abhishek Sharma	gr.abhi96@gmail.com
689.	Amreen Ashkar	sibbumust@gmail.com
690.	Nirbhay Sudhir Pimple	nirbhay.pimpale@yahoo.com
691.	Moumita Barman	h2020ppg029@stud.tiss.edu
692.	Ashutosh Ranjan	ashutoshranjan804@gmail.com
693.	Laxmi Dandgi	laxmidandgi23@gmail.com
694.	Kavita Dandgi	laxmidandgi23@gmail.com
695.	Nitika	nitikanikks.ns@gmail.com
696.	S.Moovendhan	moovendhan777@gmail.com
697.	Sultana Samima Nasrin	sn42415@gmail.com
698.	Md Omar Faruk	omorfark@gmail.com
699.	Anil	anil.stt@gmail.com
700.	Manish Saxena	vaishnavisaxena@yahoo.com
701.	Utsab Paladhi	upaladhi2000@gmail.com
702.	Cilian Murphy	enoneemas@gmail.com
703.	Shanmukh Malineni	shanmukhmali@gmail.com
704.	Ramkumar S	ram33be@gmail.com



Annexure 3: Posters




National Institute of Disaster Management (NIDM), Ministry of Home Affairs (MHA), Government of India, and Center for Environment, Climate Change and Sustainable Development (CECCSD), IMPRI Impact and Policy Research Institute, New Delhi invite you to

A 3 -day Online Training Programme on Disaster Resilient Waste Management for Sustainable Spaces

Patron



Major Gen Manoj K Bindal
Executive Director, NIDM

Conveners



Prof Anil K Gupta
Head ECDRM, NIDM

Conveners



Dr Simi Mehta
CEO & Editorial Director, IMPRI

June 16 - June 18, 2021 | 10:30 AM - 1 PM IST

Registration Fee: Free | Click here for registration: <https://training.nidm.gov.in/>
Certificates will be provided on 80% attendance
Please send your queries to: learningatimpri@gmail.com

Coordinators: Fatima Amin, Young Professional, ECDRM, NIDM; Ritika Gupta, Assistant Director, Sunidhi Agarwal, Research Assistant, IMPRI



#WebPolicyLearning

www.impriindia.com | www.nidm.gov.in

Stay Protected from Corona
NO CARELESSNESS UNTIL THERE IS A CURE



Wear your Mask Properly



Wash your Hands Regularly



Maintain Social Distancing




National Institute of Disaster Management (NIDM), Ministry of Home Affairs (MHA), Government of India, and Center for Environment, Climate Change and Sustainable Development (CECCSD), IMPRI Impact and Policy Research Institute, New Delhi invite you to

A 3-day Online Training Programme on Disaster Resilient Waste Management for Sustainable Spaces

June 16 - June 18, 2021 | 10:30 AM - 1 PM IST

Click here for registration: <https://training.nidm.gov.in/>




National Institute of Disaster Management (NIDM), Ministry of Home Affairs (MHA), Government of India, and Center for Environment, Climate Change and Sustainable Development (CECCSD), IMPRI Impact and Policy Research Institute, New Delhi invite you to

Patron



Major Gen Manoj K Bindal
Executive Director, NIDM

Conveners



Prof Anil K Gupta
Head ECDRM, NIDM

Conveners



Dr Simi Mehta
CEO & Editorial Director, IMPRI

Experts



Dr Rajesh Dubey
Senior Scientist, IIT Bombay

Experts



Prof Suneel Pandey
Senior Scientist, IIT Bombay

Experts



Ms Swati Singh Sambhal
Senior Scientist, IIT Bombay

Experts



Prof Prasad Modak
Senior Scientist, IIT Bombay

Special Address



Dr Rachna Arora
Senior Scientist, IIT Bombay

Special Address



Mr Harshad Barde
Senior Scientist, IIT Bombay

Special Address



Prof Jyoti Parikh
Senior Scientist, IIT Bombay

Registration Fee: Free
Registration on the first basis
Certificates will be provided on 80% attendance

Professors: Dr Indira Khurana, Noida; Nishi Verma, Gurgaon; Dr Anil Kumar, Gurgaon; Dr Anil Kumar, Gurgaon

Coordinators: Ritika Gupta, New Delhi; Fatima Amin, New Delhi




National Institute of Disaster Management (NIDM), Ministry of Home Affairs (MHA), Government of India, and Center for Environment, Climate Change and Sustainable Development (CECCSD), IMPRI Impact and Policy Research Institute, New Delhi invite you to

A 3-day Online Training Programme on Disaster Resilient Waste Management for Sustainable Spaces

June 16 - June 18, 2021 | 10:30 AM - 1 PM IST

Click here for registration: <https://training.nidm.gov.in/>




National Institute of Disaster Management (NIDM), Ministry of Home Affairs (MHA), Government of India, and Center for Environment, Climate Change and Sustainable Development (CECCSD), IMPRI Impact and Policy Research Institute, New Delhi invite you to

Patron



Major Gen Manoj K Bindal
Executive Director, NIDM

Conveners



Prof Anil K Gupta
Head ECDRM, NIDM

Conveners



Dr Simi Mehta
CEO & Editorial Director, IMPRI

Experts



Dr Rajesh Dubey
Senior Scientist, IIT Bombay

Experts



Prof Suneel Pandey
Senior Scientist, IIT Bombay

Experts



Ms Swati Singh Sambhal
Senior Scientist, IIT Bombay

Experts



Prof Prasad Modak
Senior Scientist, IIT Bombay

Special Address



Dr Rachna Arora
Senior Scientist, IIT Bombay

Special Address



Mr Harshad Barde
Senior Scientist, IIT Bombay

Special Address



Prof Jyoti Parikh
Senior Scientist, IIT Bombay

Registration Fee: Free
Registration on the first basis
Certificates will be provided on 80% attendance

Professors: Dr Indira Khurana, Noida; Nishi Verma, Gurgaon; Dr Anil Kumar, Gurgaon; Dr Anil Kumar, Gurgaon

Coordinators: Ritika Gupta, New Delhi; Fatima Amin, New Delhi




National Institute of Disaster Management (NIDM), Ministry of Home Affairs (MHA), Government of India, and Center for Environment, Climate Change and Sustainable Development (CECCSD), IMPRI Impact and Policy Research Institute, New Delhi invite you to

A 3-day Online Training Programme on Disaster Resilient Waste Management for Sustainable Spaces

June 16 - June 18, 2021 | 10:30 AM - 1 PM IST

Click here for registration: <https://training.nidm.gov.in/>




National Institute of Disaster Management (NIDM), Ministry of Home Affairs (MHA), Government of India, and Center for Environment, Climate Change and Sustainable Development (CECCSD), IMPRI Impact and Policy Research Institute, New Delhi invite you to

Patron



Major Gen Manoj K Bindal
Executive Director, NIDM

Conveners



Prof Anil K Gupta
Head ECDRM, NIDM

Conveners



Dr Simi Mehta
CEO & Editorial Director, IMPRI

Experts



Dr Rajesh Dubey
Senior Scientist, IIT Bombay

Experts



Prof Suneel Pandey
Senior Scientist, IIT Bombay

Experts



Ms Swati Singh Sambhal
Senior Scientist, IIT Bombay

Experts



Prof Prasad Modak
Senior Scientist, IIT Bombay

Special Address



Dr Rachna Arora
Senior Scientist, IIT Bombay

Special Address



Mr Harshad Barde
Senior Scientist, IIT Bombay

Special Address



Prof Jyoti Parikh
Senior Scientist, IIT Bombay

Registration Fee: Free
Registration on the first basis
Certificates will be provided on 80% attendance

Professors: Dr Indira Khurana, Noida; Nishi Verma, Gurgaon; Dr Anil Kumar, Gurgaon; Dr Anil Kumar, Gurgaon

Coordinators: Ritika Gupta, New Delhi; Fatima Amin, New Delhi



Video Gallery

Day 1

<https://youtu.be/nVzOZLZZpSE>

Day 2

https://youtu.be/kX0IkgVM_8I

Day 3

<https://youtu.be/YcZGg5-AtxY>



IMPRI | IMPACT AND POLICY
RESEARCH INSTITUTE

प्रभाव एवं नीति अनुसंधान संस्थान
www.impriindia.org

IMPRI Impact and Policy Research Institute is a think-tank for pro-active, independent, non-partisan and policy-based research. It contributes to debates and deliberations for action-based solutions to a host of strategic issues. IMPRI is committed to democracy, mobilization and community building.

IMPRI | IMPACT AND POLICY
RESEARCH INSTITUTE

• ETHICAL • INDEPENDENT • NON-PARTISAN

प्रभाव एवं नीति अनुसंधान संस्थान

www.impriindia.org www.impriindia.com

J-92, Basement, Saket, New Delhi-110017

impriindia@gmail.com contact@impriindia.org

+91-11-42630976 +91-9911195184



IMPRI | IMPACT AND POLICY
RESEARCH INSTITUTE
प्रभाव एवं नीति अनुसंधान संस्थान



nidm
Resilient India - Disaster Free India