

# ANNUAL REPORT 2023-2024

## Blended Capacity Building Programme for Stakeholders of River Ganga - Phase II

**GNAMAMI  
GANGE**



**Indian Institute of Public Administration**  
New Delhi



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# हम जल को देव की संज्ञा देते हैं, नदियों को माँ मानते हैं।

जल संरक्षण हमारे समाज की संस्कृति और हमारी सामाजिक सोच का केंद्र है। इसीलिए तो हम जल को भगवान और नदियों को माता मानते हैं। हमारा समाज प्रकृति के साथ ऐसा भावनात्मक संबंध बनाता है, तो सतत विकास उसकी स्वाभाविक जीवन शैली बन जाती है। अतीत की चेतना को जागृत करते हुए भविष्य की चुनौतियों का समाधान खोजने की जरूरत है। हमें देशवासियों में जल संरक्षण के मूल्यों के प्रति विश्वास जगाना है और जल प्रदूषण का कारण बनने वाली हर बाधा को दूर करना है।



Shri Narendra Modi  
Prime Minister of India

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# FOREWORD



Reflecting on the past year, several significant events and themes stand out, defining its essence. In 2020, my Indian Institute of Public Administration (IIPA) experienced a series of fresh and ongoing complex situations that tested and affirmed our response mechanisms. Our primary focus was on building capacity for various stakeholders, including school students, teachers, universities, researchers, scholars, and others, while also exploring the associated opportunities and challenges. Despite grappling with the unprecedented black swan event, the COVID-19 pandemic, my IIPA team achieved tremendous success with the project titled "Blended Capacity Building Programme for Stakeholders of River Ganga" sponsored by *Namami Gange* Programme. This ground breaking initiative was



Shri Surendra Nath Tripathi, IAS (R)  
Director General, IIPA

conducted in blended mode, a first of its kind at focused at youth of country and was sponsored by the 'National Mission for Clean Ganga' (NMCG), Department of Water Resources, River Development, and Ganga Rejuvenation (DoWR, RD & GR), Ministry of Jal Shakti under the Government of India. NMCG gave us opportunity to continue the same project with manifold increase in deliverables for another three year (2023-2026) as "Blended Capacity Building Programme for Stakeholders of River Ganga Phase-II" sponsored by *Namami Gange* Programme. The IIPA team held tall despite all obstacles and delivered the capacity building programme for urban local body official and the consultation with spiritual leaders focusing on sustenance of Ghats and restoration of Ganga. The stakeholders were also provided with a sense of ownership through personal logins for association with IIPA's Learning Management System (LMS) an interactive online learning platform. The mission mode training and research continued in the second phase of the project. All the annual deliverables were successfully met within eight months. I am delighted to present the Annual Report 2023-2024 that provides planning and execution of the deliverables for first year of the second phase, I hope that IIPA and NMCG will continue to collaborate to develop the collective capacities by learning from and with one another. Our connections with external groups, which reflect our values and goals and can contribute their experience and expertise, also strengthen us. We are constantly working to strengthen our accountability and transparency procedures across our network. The collaborators we serve are at the heart of what we do, and their commitment for improvement drives us. This entails interacting meaningfully with our beneficiaries and providing them with a voice through a variety of feedback options. We encourage a culture of sharing information and expertise throughout our network, which is supported by rigorous monitoring and evaluation. I would like to thank my IIPA team for their dedication and excitement in completing this project. This project has engaged over 35000+ stakeholders from star states of Ganga Basin and it has got an incredibly positive response and recognition from all the stakeholders. I wish the team best of luck in all their future endeavors. I believe this has been a fantastic year. I am pleased with our organization's continued progress and look forward to the Phase II of the project in anticipation.



(S. N. Tripathi)

# ACKNOWLEDGEMENT



We are delighted to announce the successful completion of the first year of the project titled "Blended Capacity Building Programme for Stakeholders of River Ganga Phase-II" sponsored by *Namami Gange* Programme. This project, generously sponsored by the National Mission for Clean Ganga under the Department of Water Resources, River Development, and Ganga Rejuvenation (DoWR, RD & GR), Ministry of Jal Shakti, Government of India, owes its success to the collaborative efforts of many individuals. We extend our sincerest gratitude to NMCG and the Government of India for entrusting us with this significant and meaningful project. Their everyday support and guidance throughout the year have been instrumental in our accomplishments.

We would like to express our heartfelt gratitude to Shri G. Asok Kumar (IAS), Director General, NMCG, for his unwavering support and active involvement in the capacity-building programmes. Our sincere appreciation also goes to Shri Jagmohan Gupta, Advisor, NMCG; Shri Brijesh Sikka, Senior Consultant, NMCG. Their guidance and commitment has been invaluable to the success of our endeavours. Their support and technical expertise have played a vital role in the seamless implementation of the project. We would also like to extend our gratitude to Ms. Priyanka Jha, Ms. Smriti, Mr. Pramanu, and the *Namami Gange* staff for their timely assistance and provision of essential data. Their contributions have been instrumental in ensuring the smooth progress of our work.

We would like to express our profound gratitude to Shri S.N. Tripathi (IAS R), Director General, IIPA, for his invaluable support and guidance as a member of the Project Advisory Committee. His expertise and insights have played a crucial role in steering the activities of the project. Our heartfelt thanks also goes to Sh. C.K. Varshney, Former Dean of Jawaharlal Nehru University (JNU) and Emeritus Professor; Sh. S.S. Satapathy, Former Director, Climate Change, Ministry of Environment, Forest and Climate Change (MoEF&CC); Mr. Ashish Jain, IPCA Director, and Dr. J.S. Kamyotra, Former Member Secretary, Central Pollution Control Board (CPCB), for accepting our request to be part of the Project Advisory Committee. Their participation and mentorship have been instrumental in shaping the direction and progress of the project. We acknowledge and appreciate the commitment and contributions of these esteemed individuals, whose collective wisdom and experience have greatly enhanced the quality and impact of our project. Additionally, we extend our sincere thanks to Shri Amitabh Ranjan, Registrar, IIPA, for his assistance in organizing the logistics for the project activities. His support has been indispensable to the successful execution of the project. We are grateful to Shri S. Rajalingam, DM Varanasi, Shri Himanshu Nagpal, CDO, Varanasi and Ms. Aishwarya Mishra, DPO for their immense support at Varanasi. We are thankful to our collaborating partners Vivekananda Institute of Professional Studies, New Delhi; Kamla Gram Vikas Sansthan, Prayagraj; Disha Drishti Sansthan, Prayagraj; Print Creations, New Delhi; IdeaptDigital, Kolkata; Lady Irwin College, New Delhi; Laxmi Bai College, New Delhi; Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut; Th. Har Narayan Singh College, Prayagraj; and Shyama Prasad Mukherjee College, Prayagraj.

We would also like to extend our appreciation to the IIPA research, administration, finance, publication and support staff including Shri O.P. Chawla, Shri H.C. Yadav, Ms. Meghna Chukkath, Ms. Sarita, Ms. Chanchal, Ms. Kanishka, Ms. Anugya, Ms. Monika, Ms. Himanshi, Ms. Kamakshi, Mr. Ratik and Mr. Shiv Mishra for their unwavering support and assistance in successfully completing the deliverables of the first year. Their contributions have been invaluable. Furthermore, we would like to acknowledge the immense contribution of the officials, principals, teachers, school and college students, and academia from the eleven basin states of the Ganga River. Their enthusiastic participation and engagement have been essential to the project's success. We are truly grateful to all those mentioned above for their invaluable support and dedication, without which the project would not have achieved its goals.

(Vinod K. Sharma)

(Shyamli Singh)



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# PROJECT ADVISORY COMMITTEE MEMBERS



Shri S.N. Tripathi  
DG IIPA



Shri G Asok Kumar  
DG NMCG



Prof. C. K. Varshney  
(MEMBER)

PROF. EMERITUS,  
School of Environmental Sciences, JNU



Er. J.S. Kamyotra  
(MEMBER)

Former Member Secretary,  
CPCB



DR. S. Satapathy  
(MEMBER)

Ex-Director Climate Change  
MOEF & CC, Government of India



Mr. Ashish Jain  
(MEMBER)

Director  
IPCA Enviro Pvt. Ltd

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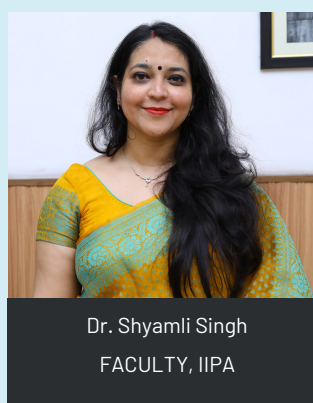
# PROJECT INVESTIGATORS



Prof. Vinod K. Sharma  
FACULTY, IIPA

Prof. Vinod K. Sharma is a Senior Professor at Indian Institute of Public Administration (IIPA), New Delhi. Prof. Sharma has been awarded 2022 Subhas Chandra Bose Aapda Prabandhan Puraskar for his path-breaking work.

He is the founder of National Disaster Management Authority and a vice-chairman of Sikkim State Disaster Management Authority, Govt. of Sikkim. Areas of his expertise are Natural Resource Management, Disaster Management, Drought Administration, Agriculture and River Basin Management.



Dr. Shyamli Singh  
FACULTY, IIPA

Dr. Singh is a faculty and coordinator of Centre for Environment and Climate Change at Indian Institute of Public Administration (IIPA), New Delhi, India. She has been awarded the IRDR Young Scientist award. Dr. Singh is the recipient of Maximum Research Articles by Vice-President of India. She has extensive expertise in research, teaching and consultancy. She is the lead project director of various prestigious projects and studies. With work experience in different capacities of Environment, she has authored several textbooks, monographs, articles and discussion papers on Environment Management and Climate Change.

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# PROJECT TEAM



**Ar. Kanishka Sharma**  
**Research Officer**



**Ms. Anugya Singh**  
**Research Assistant**



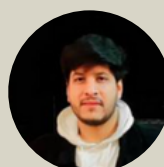
**Ms. Monika Saini**  
**Research Assistant**



**Ms. Himanshi Negi**  
**Research Assistant**



**Ms. Kamakshi Kaushik**  
**Research Assistant**



**Mr. Ratik Vohra**  
**Web Developer**



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Image 112: Participants of Namami Gange Awareness Programme with Spiritual Community at Shankar Ghat, Prayagraj

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## CHAPTER 1

Gangotri, Uttarakhand

# INTRODUCTION



'*Namami Gange Programme*', is an Integrated Conservation Mission, approved as 'Flagship Programme' by the Union Government in June 2014 with budget outlay of Rs. 20,000 Crore to accomplish the twin objectives of effective abatement of pollution, conservation, and rejuvenation of National River Ganga. Main pillars of the *Namami Gange Programme* are creation of Sewerage Treatment Infrastructure, River-Front Development, River-Surface Cleaning, Bio-Diversity, Afforestation, Public Awareness, Industrial Effluent Monitoring and *Ganga Gram*. One of the key missions under the programme is Public Awareness. The mission has been ongoing in formats of series of activities such as events, workshops, seminars and conferences; and numerous IEC activities were organized to make a strong pitch for public outreach and community participation in the programme. Various awareness activities through rallies, campaigns, exhibitions, cleanliness drives, competitions, plantation drives, and development and distribution of resource materials were organized and for wider publicity the mass mediums such as TV/Radio, print media advertisements, featured articles and advertorials were published. *Namami Gange* theme song was released widely and played on digital media to enhance the visibility of the programme. NMCG ensured presence at social media platforms like Facebook, Twitter, YouTube and the like.



Image 01: Dr. Shyamli Singh, Shri S.N. Tripathi, DG IIPA and Prof. Vinod K. Sharma interacting with participants during capacity building programme District Ganga Committee members of Bihar

### 1.1 Indian Institute of Public Administration and Namami Gange Programme

For achieving the desired objectives of the programme, varied stakeholders have been identified by NMCG for treating and managing Ganga basin. With this as a backdrop, NMCG entrusted a project “Blended Capacity Building Programme for Stakeholders of River Ganga” sponsored by *Namami Gange* Programme to the Indian Institute of Public Administration (IIPA) for three years i.e., from 2020-2023. After successful completion of first phase, NMCG trusted IIPA with another phase of three years from 2023-2026 with manifold deliverables. The main objective of the project is to convey the importance of River Ganga as well as the threats it is facing in the current scenario to the stakeholders at large. Accordingly, the project aimed at conducting multiple “Blended Capacity Building Programmes”, which is a blend of Face-to-Face sessions i.e., classroom sessions and Virtual Internet Participation. In a nutshell, it is a journey from desk to desktop.

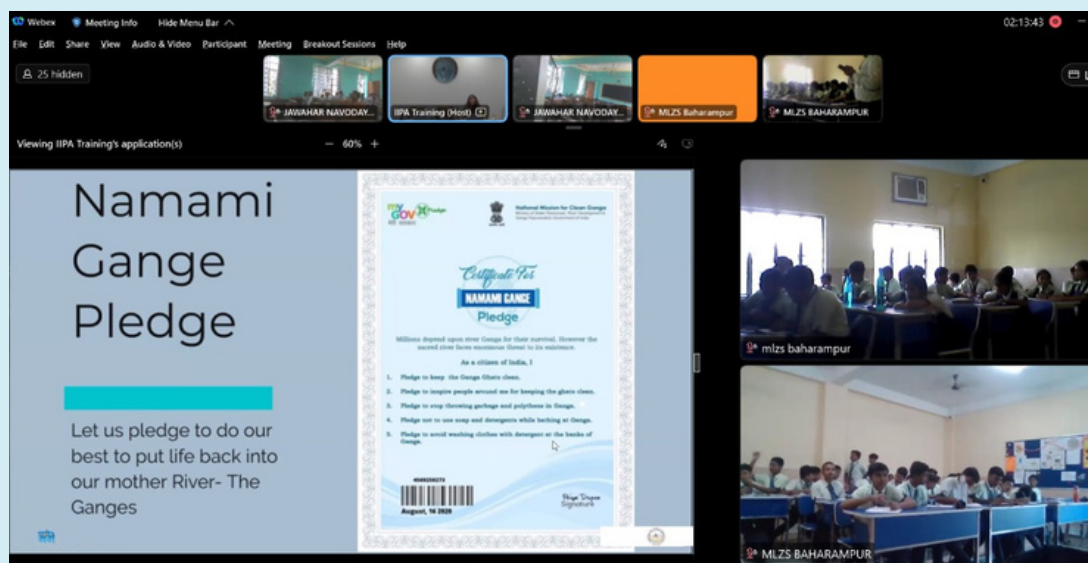


Image 02: Glimpses from video session during school student's capacity building programme of Jawahar Navodaya Vidyalaya, Birbhum and Mount Litera Zee School, Murshidabad

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## 1.2 WHAT IS BLENDED LEARNING?

Blended Learning integrates the finest features of two different types of training environments; traditional face-to-face classroom instruction and high-tech e-Learning. By covering both bases, all sorts of learners can be engaged i.e., those who thrive in a structured environment with face-to-face interaction with an instructor and others who thrive in a semi-autonomous, computer-based learning environment. While the classroom enables role-playing with immediate face-to-face feedback, online learning enables personalized, self-paced learning using e-learning components that lend themselves to interactive media such as skill-building, games, videos, tutorials, quizzes, and social media components, all of which are accessible from the learner's home page in the Learning Management System (LMS).

## 1.3 WHY BLENDED LEARNING?

The perfect blended learning program includes web-based training for optimizing the achievement of learning objectives with the application of Learning Management System (LMS). The three-year long process is aimed at providing a Holistic approach on Ganga and its activities conducted under *Namami Gange* for making the river *Aviral* and *Nirmal*. The project provides an online platform to connect with masses achieving the two main pillars of *Jan Ganga* and *Gyan Ganga*. Participants can now learn and retain content through the new approach of Blended Learning with IIPA's LMS platform.



Image 03: Feedback session during school students training programme



Ganga Pakhvada, Parmarth Niketan

## 1.4 Project at a Glance



The broad objectives of project were defined stepwise integrating identification of key stakeholders of Ganga River Basin. Further, preparation of tailor-made modules for each stakeholder separately in accordance with their role in Clean Ganga Mission. The final step is to disseminate the collected knowledge through blended learning programmes. The learning programmes are customized for different stakeholders with plethora of examples from their niche habitats to make it more understandable.

### OBJECTIVES

# 1 Dissemination of River Management Knowledge

# 2 Preparation of Customized Modules

# 3 Develop Self-Paced Certificate Course

# 4 Develop E -Content for Learning

# 5 Developing and Designing Knowledge Products



1.5

# Project Deliverables

August 2023-March 2024



- **Conduct 30 School Training programmes and 30+1 Training of Master Trainer programmes**
- **Conduct Three CBP: College students, Academia & Scientific community**
- **Conduct Two CBP: KVKs, Agriculture workers, Extension services**
- **Conduct One Workshop for Immersive learning for Business Groups**
- **Conduct Ten CBP: General masses, Spiritual community**
- **Conduct Three CBP: Policy Makers, ULB Officers /PRIs, Civil Society,NGOs**
- **Developing and designing Knowledge Products on River Ganga**
- **Forty Five CBP: DGCs, Ganga Prahari, Ganga Doots, Ganga Mitra**

## 1.6 Annual Highlights AUGUST 2023- MARCH 2024



### ➤ School Student Trainings

30

NO. OF CAPACITY BUILDING PROGRAMMES

8500+

NO. OF PARTICIPANTS

Blended  
MODE



Image 04: Interaction session during school students training programme at Sudhakar Mahila P.G. College, Varanasi

### ➤ Training of Master Trainers

30+1

NO. OF CAPACITY BUILDING PROGRAMMES

750+

NO. OF PARTICIPANTS

Blended  
MODE

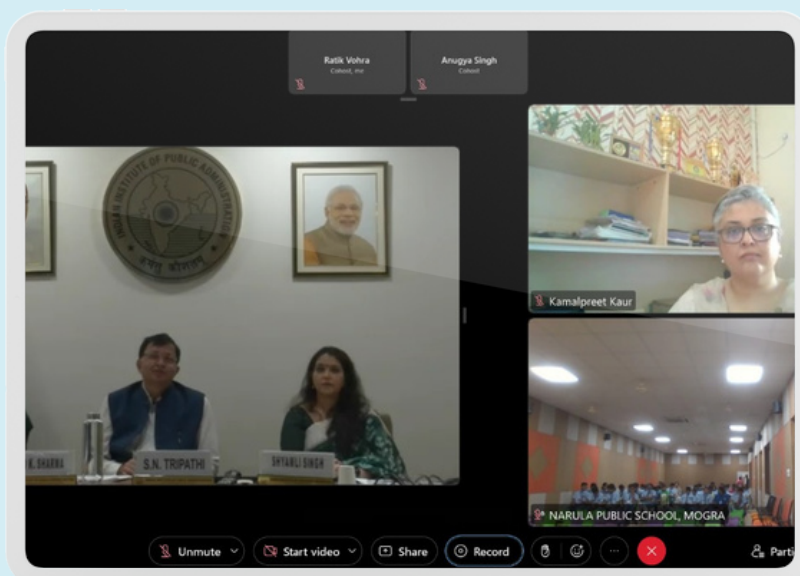


Image 05: Shri S.N. Tripathi, DG, IIPA and Dr. Shyamli Singh, Faculty, IIPA interacting with Ms. Kamalpreet Kaur principal of Narula Public School, Mogra

# Annual Highlights AUGUST 2023- MARCH 2024



## ➤ College Student Trainings

5

NO. OF CAPACITY BUILDING PROGRAMMES

1500+

NO. OF PARTICIPANTS

Offline  
MODE



Image 06: Prof. Vinod K. Sharma and Dr. Shyamli Singh presenting memento to Meenakshi Mital, Head of the Department, Resource Management & Design Application at Lady Irwin College, New Delhi during Ganga Samvad

## ➤ Mass Community Programme

19

NO. OF CAPACITY BUILDING PROGRAMMES

3000+

NO. OF PARTICIPANTS

Blended  
MODE



Image 07: Participants of Capacity Building Programme with Pandas at Prayagraj

# Annual Highlights AUGUST 2023- MARCH 2024



## ➤ Ganga Pariprekshya

7

NO. OF CAPACITY BUILDING PROGRAMMES

1400+

NO. OF PARTICIPANTS

Offline  
MODE



Image 08: Ms. Monika Saini, RA, IIPA interacting with students at Mother's International School, New Delhi

## ➤ District Ganga Committee (DGC) Trainings

46

NO. OF CAPACITY BUILDING PROGRAMMES

1000+

NO. OF PARTICIPANTS

Online  
MODE

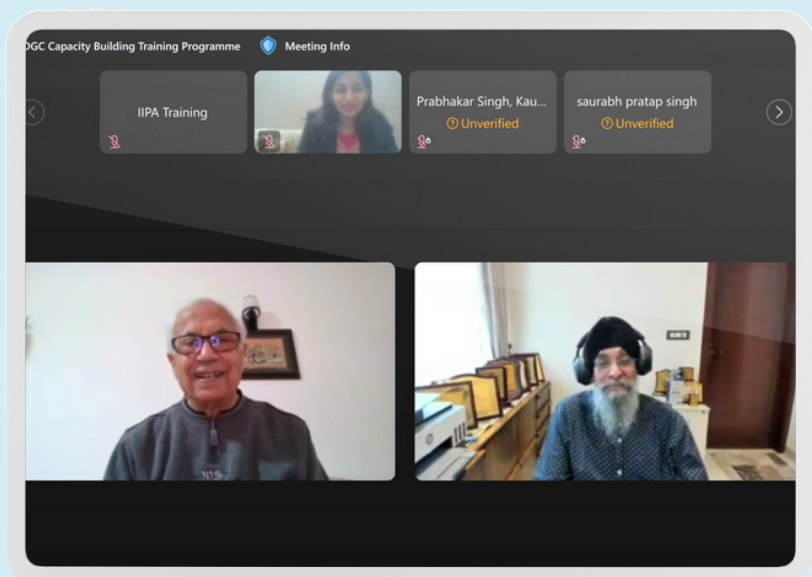


Image 09: Prof. Vinod K. Shamra and Dr. J.S. Kamyotra in conversation during DGC training session on Industrial Effluent Monitoring

# Annual Highlights AUGUST 2023- MARCH 2024



## Policy Makers, ULB Officers /PRIs, Civil Society Training

# 3

NO. OF CAPACITY BUILDING PROGRAMMES

# 450+

NO. OF PARTICIPANTS

# Offline MODE



Image 10: Ms. Kanishka Sharma, RO, Prof. Vinod K. Sharma, Faculty, IIPA and Mr. Vinod Mishra, Disha Drishti Sansthan, Prayagraj interacting with media during press conference in circuit house, Prayagraj

## Workshop for Business Groups

# 1

NO. OF CAPACITY BUILDING PROGRAMMES

# 80+

NO. OF PARTICIPANTS

# Offline MODE



Image 11: Dr. Shyamli Singh addressing participants of capacity building programme with Trade Unions of Prayagraj. In frame; Mr. Rajesh Mishra, Deputy Labour Commissioner, Prayagraj and Mr. Ajeet Singh, Kamla Gram Vikas Sansthan, Prayagraj

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# Summary of Activities

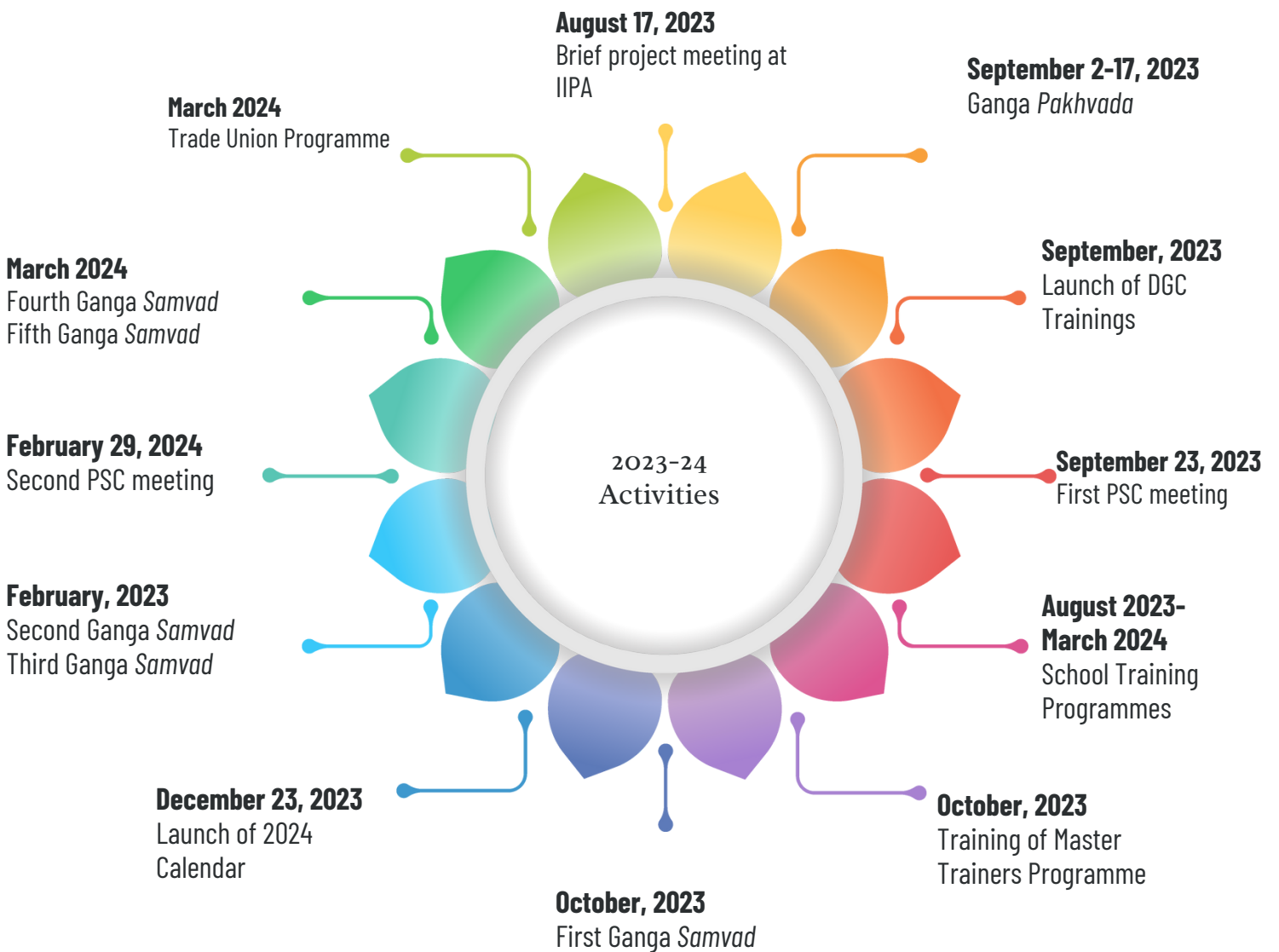


Figure 01: Summary of activities of the year 2023-2024



## CHAPTER 2

Devprayag, Uttarakhand

# Methodology Adopted



### 2.1 PEDAGOGY

The year 2023-2024 marked the successful completion of first year of "Blended Capacity Building Programme for Stakeholders of River Ganga - Phase II". The year was devoted to continuation of previous phase work and engaging more and more stakeholders. Certain stakeholders like government officials both from centre and state attended the Capacity Building Programme scheduled at IIPA in-house or on-site (face-to-face programmes). To reach the maximum length and the breadth of River Ganga Basin, Virtual Internet Programmes with certain identified catalyst institutions have proved to be efficient with school students, colleges students, faculty, researchers or other academia. Certain small orientation courses have also been developed for Continuous Learning, knowledge sharing and self-evaluation for masses who are associated with river Ganga in one or other way. Focused Group Discussions with subject matter experts were organised to engage participants and the immersive learning experience through walk-in photo exhibitions and other knowledge products were exciting way of learning new things thoroughly in a quick pace. The Success Stories and certain best practices were shared and discussed to create awareness of the programme. Several success stories were obtained from various other Ganga stakeholders.

## 2.2 Meetings and Discussions



**INCEPTION MEETING:** An inception meeting was held on 17th August 2023 to commence Phase II of the 'Blended Capacity Building Programme for Stakeholders of River Ganga' with NMCG officials at Samiksha 1 hall, IIPA in alignment with *Namami Gange* programme upcoming goals.



Image 12: Prof. Vinod K. Sharma, Faculty, IIPA and Dr. Shyamli Singh, faculty IIPA presenting memento to Shri Jagmohan Gupta, Advisor, NMCG, New Delhi



Image 13: Shri Jagmohan Gupta, Advisor, NMCG as chair of inception meeting. In Frame; Ms. Monika, Ms. Anugya, Mr. Pramanu, Ms. Smriti, Ms. Priyanka and Prof. Vinod K. Sharma



Image 14: Shri Jagmohan Gupta, Advisor NMCG as chair of inception meeting. In Frame; Ms. Monika, Ms. Anugya, Mr. Pramanu, Ms. Priyanka, Prof. Vinod K. Sharma, Dr. Shyamli Singh, Ms. Kanishka and Ms. Himanshi

An MoU between Vivekananda Institute of Professional Studies and Centre for Environment and Climate Change, Indian Institute of Public Administration (IIPA). The MoU was signed between Shri Surendra Nath Tripathi, Director General, IIPA, and Dr. S.C. Vats, Founder & Chairman, VIPS-TC on 21st August 2023. Under this MoU, students and faculties from VIPS-TC will collaborate with IIPA to contribute towards the SDGs, to create a culture of sustainability. Shri Surendra Nath Tripathi, Director General, IIPA addressed the students at the institute. Those present on the occasion included Chairman, VIPS-TC Dr. S.C. Vats, Prof. V.K. Sharma, Senior Professor, IIPA, Dr. Shyamli Singh, Coordinator, Centre for Environment and Climate Change, Mr. Vineet Vats, Mr. Suneet Vats, Vice Chairmen of VIPS-TC, Prof. Sidharth Mishra, Chairperson, VSJMC, VIPS-TC, Prof. Anuradha Jain, Principal and Dean-VSE, VIPS-TC, Prof. Deepali Virmani, Officiating Director, VSETs, VIPS-TC, Prof. Dr. Supriya Madan, Dean, VSIT, VIPS-TC, Prof. Rashmi Salpekar, Dean, VSLLS, VIPS-TC, Prof. Indira Bhardwaj, Dean VSBS, VIPS-TC and Prof. Salonee Priya, Dean, VSES, VIPS-TC, Prof. Nidhi Sharma Kaushik, Head of Centre for Sustainable and Smart Future, VIPS-TC, faculty and students from VIPS TC.



Image 15: Shri Surendra Nath Tripathi, Director General, IIPA addressing the students of VIPS-TC, Delhi



Image 16: Shri Surendra Nath Tripathi, Director General, IIPA, and Dr. S.C. Vats, Founder & Chairman, VIPS-TC signing MOU to collaborate with IIPA for various training programmes and workshop. In frame; Shri Suneet Vats, Vice Chairman, VIPS

On September 22, 2023 a pivotal meeting was held at the Indian Institute of Public Administration, marking the **First Project Steering Committee Meeting** for the "Blended Capacity Building Programme for Stakeholders of River Ganga" Phase-II (2023-2026). Distinguished members including Shri S.N. Tripathi, DG, IIPA, Prof C.K. Varshney, Dr. Sachidananda Satapathy, Shri J.S. Kamyotra, Shri Ashish Jain, and IIPA Project Team joined project investigators Prof. V.K. Sharma and Dr. Shyamli Singh to discuss work plan for first year. Minutes of Meeting attached as Annexure I.



Image 17: Ms. Monika, Ms. Kanishka, Dr. Sachidananda Satapathy, Shri J.S. Kamyotra, Dr. Shyamli Singh, Shri S.N. Tripathi, DG, IIPA, Prof C.K. Varshney, Shri Ashish Jain, Prof. Vinod K. Sharma, Ms. Anugya and Ms. Himanshi during first PSC meeting



Image 18: Ms. Kanishka, Mr. Ashish Jain, Prof C.K. Varshney, Prof. Vinod K. Sharma, Shri S.N. Tripathi, DG, IIPA, Dr. Shyamli Singh, Shri J.S. Kamyotra, Dr. Sachidananda Satapathy and Ms. Monika were present during first PSC meeting

The **Second Project Steering Committee Meeting** was held on 29th February, 2024 at IIPA. The PSC meeting was chaired by Shri S.N. Tripathi (DG, IIPA) and Shri G Asok Kumar (DG, NMCG). Prof. V.K. Sharma (Project Investigator & Faculty, IIPA) and Dr. Shyamli Singh (Project Investigator & Faculty, IIPA). Prof. C.K Varshney (Professor Emeritus, JNU) joined the session online. Dr. Sachidananda Satapathy (Former Director Climate Change, MoEF&CC), Shri Jagmohan Gupta (Advisor, NMCG) attended the meeting in person accompanied by NMCG representatives Ms. Priyanka Jha and Ms. Smriti Singh and IIPA Research team members. Dr. Shyamli Singh gave an overview and progress of the project Phase II and deliberated upon the action for next year April, 2024 to March, 2025. Minutes of Meeting attached as Annexure II.



Image 19: Shri S.N. Tripathi (DG, IIPA) presenting memento to Shri G Asok Kumar (DG, NMCG). In frame; Shri Jagmohan Gupta (Advisor, NMCG), Dr. Shyamli Singh (Project Investigator & Faculty, IIPA), Prof. V.K. Sharma (Project Investigator & Faculty, IIPA) and Dr. Sachidananda Satapathy (Former Director Climate Change, MoEF&CC)



Image 20: Prof. C.K Varshney (Professor Emeritus, JNU) sharing his insights on project with meeting Chair(s) Shri S.N. Tripathi (DG, IIPA), Shri G Asok Kumar (DG, NMCG). In frame; Ms. Anugya, Ms. Smriti, Ms. Priyanka, Dr. Shyamli Singh (Project Investigator & Faculty, IIPA), Dr. Sachidananda Satapathy (Former Director Climate Change, MoEF&CC) and Ms. Mahiya

In the ongoing efforts to address the challenges faced by the Ganga community, project team has been actively engaging with local stakeholders. The primary objective of these engagements is to gain a deeper understanding of the issues and concerns directly from the community members themselves. By doing so, we aim to tailor our interventions more effectively to meet their needs. IIPA team convened with Shri Pramod Majhi, the President of *Maa Ganga Nishadraj Seva Nyas*. The purpose of their meeting was to engage in a profound discussion regarding the catalytic influence of the *Namami Gange* initiative.



Image 21: Mr. Bablu, Mr. Promod Manjhi, Dr. Shyamli Singh, Ms. Himanshi, Ms. Anugya, Ms. Monika, Mr. Ratik and Ms. Kanishka during meeting with local boatsmen community, Varanasi



Image 22: Shri Ramji Yadav, Editor of *Lok Patrika* and Ms. Arpana Yadav, writer in their office at Lal Kuan, Varanasi

IIPA team engaged in a highly fruitful meeting with, the esteemed Editor of *Lok Patrika*, and Ms. Arpana Yadav, a committed writer dedicated to chronicling the narratives of marginalized communities residing along riverbanks. This enriching discussion provided a platform for the team representatives to delve into the intricacies of the documentation process, explore innovative publication strategies, and gain comprehensive insights into the functionalities of their website. There was exchange valuable ideas with the shared goal of shedding light on the unique stories and challenges confronted by these riverside marginalized communities. The emphasis of this joint effort lies in the significance of amplifying the voices of these often-overlooked communities, ensuring their narratives find a prominent place in the broader discourse.

IIPA team participated in the 7th edition of *Ganga Utsav* organized by National Mission for Clean Ganga in New Delhi and was inaugurated by Secretary, Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti. The event also marked the release of 33rd edition of *Namami Gange* Magazine, the new *Chacha Chaudhary* series and the *Voyage of Ganga* Booklet, based on *Ganga Pustak Parikrama* in collaboration with NBT.



Image 23: Ms. Anugya, Ms. Monika, Ms. Himanshi, Dr. Shyamli Singh, Ms. Kanishka and Mr. Ratik attending 7th edition of *Ganga Utsav* at Dr. Ambedkar International Centre, New Delhi



CHAPTER 3

Meer Ghat, Varanasi

# Knowledge Products



The modules serve as an introduction to the *Namami Gange* approach and its application to capacity development. It illustrates the River Basin Management Approach in a straightforward, coherent, and accessible manner for the benefit of development practitioners both within and outside the system. The modules give a practical guidance to real-world based examples and knowledge that can be used to build and contribute to national capacity development. It focuses on smart institutions, visionary leadership, access to knowledge, and public accountability mechanisms as capacity change drivers, drawing on data and strategies throughout the basin and combining country-led experiences and institutional lessons. The primers provide access to various resources, but do not profess to encompass all information, perspectives, and practices in this vast field of Ganga Rejuvenation. Further, modules or aspects of interaction have been tailor-made to the relevant stakeholder. However, we believe it serves as a convincing and intriguing introduction to areas of work and practice that is critical to achieving long-term human development achievements.



Image 24: Cover Page: The Ganges Children Handbook



Image 25: Cover Page: Colleges Students Handbook

### 3.1 Bilingual Knowledge Products for School and College Students

The handbook encompasses a holistic view of the River Ganga and its various aspects, the 'Ganges - Children Handbook' consists of four sub-modules for the ease of understanding as well as delivering the sessions. The first sub-module's theme is about the identity of the river that describes the journey of Ganga from Gangotri to Ganga Sagar, its historical mentions, glorious legends attached to River Ganga, touches on cultural and economic significance of the national river, and covers the landmark, cities, world heritage sites and ghats. At the end, children get engage in activities related to factual portions covered. The second sub-module explains the faith related to the intangible form of revering Ganga describing traditions, cultural practices, religious and pilgrimage sites, stories about social practices, the sixteen *samskaras* and festivals celebrated on the banks of River Ganga. After the session students-trainers engage in a storytelling session about their experiences with the River Ganges.

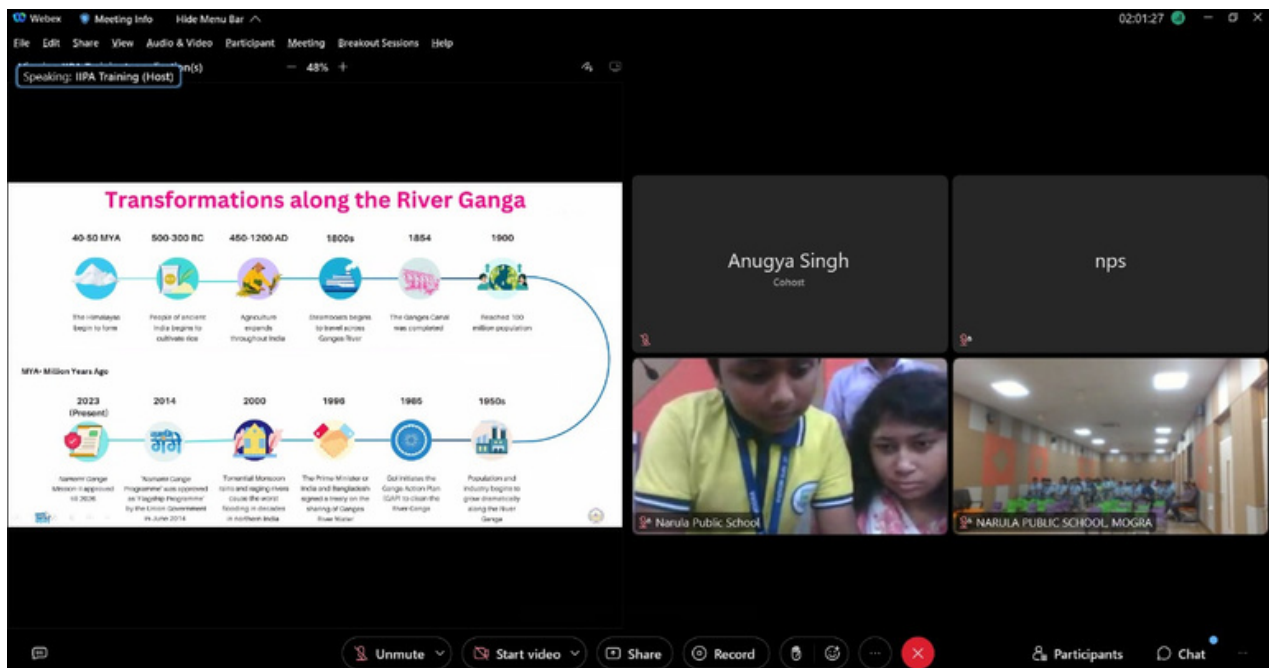


Image 26: Interactive outlook of School Module

The third sub-module describes Ganga's ecosystem where forests, wetlands, aquatic life, flora, and fauna are covered. Protected areas like Biospheres Reserves, National Parks, Wildlife Sanctuaries, Tigers Reserves, RAMSAR sites and other natural and sub-natural habitats for biodiversity are discussed. After the module, there are few interactive activities for students with regard to flora and fauna of the river. The fourth sub-module about Ganga's Rejuvenation discusses the timeline of various efforts by the government, shift towards Basin Based Approach, inception of NMCG, Missions of NMCG and initiatives under the *Namami Gange* Programme. The module ends with discussion on the role of children in conservation and rejuvenation activities of the National River-Ganga. After the going through the handbook students would be able to explore various aspects, facts, and diversity about Ganga, discover River Ganga through dialogues, bring forward new ideas and innovation, keep the Ganga and other water resources in their surroundings clean and become green ambassadors as a skilled workforce for the nation development by carrying forward knowledge with new seed of knowledge implanted in them.

**Rajgir/Girivraaj**  
An ancient city and a notified area in Nalanda district in the Indian state of Bihar. It was the first capital of the kingdom of Magadha. The city finds mention in India's greatest literary epic, the Mahabharata, through its king Jarasandha. Ceramics dating to about 1000 BC have been found in the city. The famous 2,500-year-old Cyclotron Wall is located in the city. The birth-place of the 20th Jain Tirthankar Munisuvrata, and associated with the ahimsa Mahavira and Gautama Buddha. The ancient Nalanda university was located in the vicinity of Rajgir.

**Koldihwa**  
The site is situated at a distance of about 80 km southeast of Allahabad town on the left bank of the Betwa River in Allahabad district. Excavations revealed 1.90 m thick habitation deposit divisible into three cultural periods – a) Neolithic, b) Chalcolithic, c) Iron Age. Collection of remains, pottery, microliths, mullers, chert-points, querns, bone tools, fragmentary copper pieces, terracotta beads, stone and pottery discs, plant and faunal remains.

**Khangchendzonga National Park**  
The park is within the Himalaya global biodiversity hotspot and displays an unsurpassed range of sub-tropical to alpine ecosystems. It is located within a mountain range of global biodiversity conservation significance and covers 25% of the State of Sikkim, acknowledged as one of India's most significant biodiversity concentrations. It is a habitat to significant number of endemic, rare and threatened plant and animal species. The property has one of the highest number of plant and mammal species recorded in the Central High Asian Mountains.

**WORLD HERITAGE SITES IN RIVER GANGA BASIN**  
A World Heritage Site is a landmark or area with legal protection by the United Nations Educational, Scientific and Cultural Organization (UNESCO). The sites contain cultural and natural heritage around the world considered to be of outstanding value to humanity. India's culture truly reflects the ethos of its rich cultural and natural heritage and its World Heritage Sites, which are testimony to invaluable treasures. Here in India, Ganga Basin is one of the most large geopolitical entities, with diversity of heritage. It is well established that, historically, the area was a melting point of several civilizations and cultural exchanges and gave space to multiple faiths at various stages in history. The culture of assimilation of ideas and beliefs is reflected in the current range of World Heritage Sites that establish Ganga Basin as repository of archetypal diversity and artistic excellence. A unique feature of many of these sites are their continuity over centuries; age old traditions that embody its living heritage continue to be in practice even today, be it the Buddhist Mahabodhi Temple at Bodhi Gaya or the mosque at the iconic site of the Taj Mahal in Agra. Though these are 16 World Heritage Sites from Ganga Basin inscribed individually in the list, they collectively contribute to a cohesive historical narrative.

Chopani Mando, Koldihwa and many other have shown direct evidences of local stone working and availability. Kaimur range was rich deposit of semi-precious stones. Ordinary and semi-precious stones both occurred in Mirzapur district, lying close to Varanasi. The earliest archaeological layer of Rajgir has been recognised as 800 BCE. That belongs to the Chalcolithic phase of the geographical region of eastern Uttar Pradesh. At nearby Akhis, two distinct ceramic wares Brown and Black have been found. Potteries have been found in the context of pre-iron and early iron-using cultures. Both of them can fit into the time frame of 1400/1300-800/700 BCE. The painted ceramic ware variety was a pre-iron culture has been proposed to be a Chalcolithic culture and the unpainted ceramic ware hoard was of the iron-using groups. Glass manufacturing was known in the Ganga plains.

Excavations: remove earth carefully from a piece of land and look for things such as pots, bones or building which are buried there, in order to discover information about the past.

Prehistory: after time in history before any information was written down.

Archaeology: the study of the activities and peoples of the past by examining the remains of their buildings, tools, and other objects.

TO KNOW MORE  
SCAN CODES

MAP OF UNESCO WORLD HERITAGE SITES IN GANGA BASIN

Figure 02: Snippets from college module on 'Spaces and Places of River Ganga' showing interactive sessions

Technical briefs on major aspects of River Ganga are designed for the college students with many branches of information into a condensed form for better understanding of varied subjects. All of them are designed on a singular format and features for quick access of data to refer to. Detailed research was conducted to prepare and design the six advanced study modules. Some of features include maps, infographics, terminology explanations, factual notes, quotations, case examples, on-site observations, present condition photographs, detailed cross referencing of data, recall exercise and scan codes for additional readings on most of the topics discussed.

The first module briefs about journey of Ganga, network of its tributaries and distributaries, Ganga River Basin, the scientific phenomena of the origin of Ganga and features of Ganga. River system like hydrology, geology, wetlands, and lifeforms. The second module discusses about significant spaces and places of Ganga, prehistoric sites along the riverbank, UNESCO recognized World Heritage sites, intangible cultural heritage of humanity in River Ganga Basin and the Ghats along the River Ganga. In the third brief on life lifeforms on River Ganga describes about important ecological habitats of Ganga River Basin, the lifeforms in them and leading threats, diversity forests that co-exist in Ganga River Basin, the sixteen important wetlands, several ecological sites that are protected by laws, ecosystem roles, factors disturbing the ecological integrity, some exciting case studies, stories and facts. The fourth module on ecological and economic aspects covers ecosystem services, economics, Grossly Polluting Industries like tanneries, paper pulps, sugar mills, textile bleaching and dyeing. The choking condition of river as a result of improper sewage disposal, mass rituals activities, hydro projects, disposal of excess plastic and excess water abstraction along the banks of Ganga. The fifth module briefs on faith in Ganga describes Ganga as holy river, religious places of significance in the Ganga basin, manifestation of faith in festivals and events, depiction ancient art/ iconography- association of animals with God and Goddess along Ganga, significance of Ganga River, need for sustainable religious practice with case examples, other faiths and Ganga's identity in different countries across Indian sub-continent. The sixth module on ganga's rejuvenation discusses rejuvenation of River Ganga, Ganga Action Plan (GAP), National River Conservation Plan (NRCP), National Ganga River Basin Authority (NGRBA), Basin-Based Approach, visions and missions of National Mission for Clean Ganga (NMCG) and thrust areas of *Namami Gange* Programme, Projects under *Namami Gange* Mission covers short-term, medium-term and long-term activities and the progress so far.



Figure 03: Snippets from college module on 'Faith in River Ganga' showing interactive sessions

### 3.2 Bilingual Handbook for Urban Local Body Officers

IIPA has designed modules as a strategic step toward enhancing the ability of urban managers in cities. The building blocks encompass a holistic view of the River Ganga and its various aspects of importance to Urban Local Bodies (ULBs), the Building block for ULBs series consists of eight modules for the ease of understanding as well as delivering the sessions.

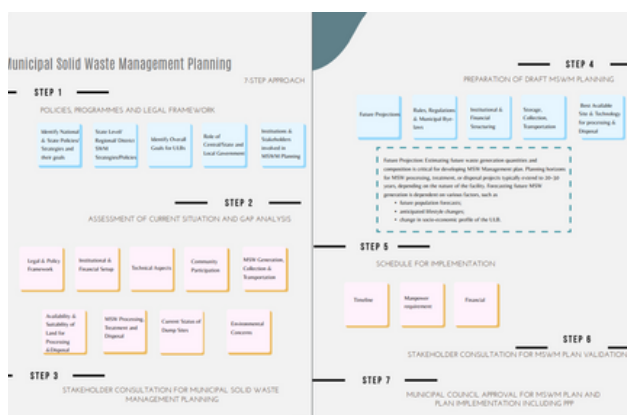


Image 27 : Glimpses of pages of ULB Training Module on Solid Waste Management

The first module's theme speaks of the Circular City, which brings to reality the simplicity of living close to nature while having easy access to knowledge and modern technology. Circular is associated with economics, resource management, governance, and aesthetic design. This module seeks to identify a list of city assets and products that would widen the circularity notion beyond the economy to cover other areas of Urban Local Bodies based management as well. The second module is about agriculture, which is one of the most important pillars of the Indian economy as more than 75% of the workforce earns their livelihood through agriculture. It becomes imperative to formulate a visionary agriculture management policy that is sustainable. This module attempts to guide the local authorities in the state to implement sustainable agriculture practices which are compliant with the regulatory framework of India. The third module is on Building Resilience and Climate Smart Urban Planning that enhances the reliability of a city's performance over time, making it better able to endure shocks. This module talks about gaps, needs, and a framework for introducing perspectives for Urban Local Body Officers. As the frequency and severity of disasters caused by climate-related events have been increasing all over the world. Because of its distinct geo-climatic and socio-economic characteristics, India is also prone to a wide range of natural and man-made disasters to varied degrees. When a district is devastated by floods, droughts, landslides, earthquakes, cyclones, and other natural disasters, officials and planners need the correct information, resources, and tools to mitigate the damage. Only preparedness initiatives may provide such information/tools. Officials from urban local

governments must also integrate climate resilient strategies into a variety of ongoing development projects. Further to bring a change in the city's development dynamics for resilient urban cities. The fourth module on solid waste management which discusses the challenges faced by ULBs in collecting and treating solid waste, as well as the overall management of waste as a resource, including recycling, environmental issues, disposal, and other elements of municipal garbage, with a focus on the Ganga basin states. It examines India's situation by laying out measures taken and implemented by local governments, as well as drawing on examples of best practices from around the world to establish long-term waste management solutions. The fifth module on Riverfront Development talks about rivers, its importance, role of urban rivers, riverfront of present times, evolution of waterfront development, river sensitive urban planning, monitoring evaluation, Operation maintenance framework, successful case studies on the riverfront development. Sixth module talks about Forest Management. Forest management is the planning and implementation of practices for the stewardship and use of forests and other wooded land with specific environmental, economic, social, and cultural goals in mind. It introduces the perspectives of Urban Local Body Officers towards trends, challenges, policies, and a framework of sustainable Forest Management in the River Ganga basin state for long-term services.



Image 28 : Glimpses of ULB Hindi Training Modules on Urban Wetland

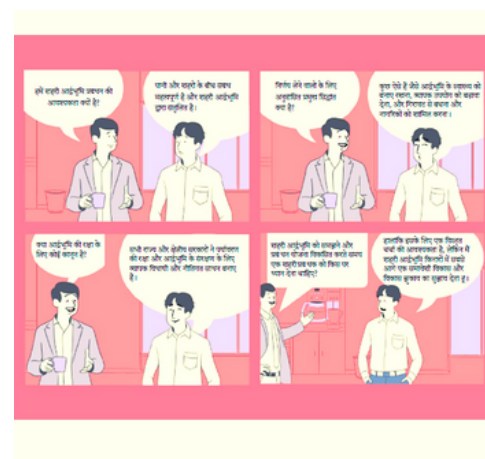


Image 29: Cartoon strip in Hindi about Urban Wetland

The Seventh module is about Urban Wetlands. Wetlands contribute to the livability of urban areas by mitigating flood damage, reducing the urban heat island effect, filtration of stormwater, recharging groundwater, cleaning the air, and providing needed green space for humans and nature alike in areas frequently influenced by development and impervious surfaces. The module describes Role of Urban Local Bodies, Critical path approach, planning, institutional framework, assessment, conservation and management plan, challenges and government initiatives. Eighth module is on Urban Water Management, the module discusses the challenges faced by ULBs as well as the overall management of urban water with a focus on the Ganga basin states. It examines India's situation by laying out measures taken and implemented by local governments, as well as drawing on examples of best practices from around the world to establish long-term solutions.

### 3.3 Photo and Video Documentation of River Ganga



Image 30: Alaknanda cruise at Alaknanda Jetty, Sant Ravidas Ghat behind Ravidas Park, Nagwa (Ahead of Assi Ghat), Varanasi

The photo documentation aimed at the major themes of River Ganga i.e., places along Banks of Ganga, Ganga and Nature connect, Humans of Ganga, Traditional art and craft, and Rites & rituals along Ganga. The photo documentation team has been gathering photos and stories. For the photos, the team has been collecting a variety of angles e.g., extreme close-ups, close-ups, mid shot, long shot, staged shots, and action shots. In addition to a variety of shot types, it was important to gather photos that showcase people, processes, technological innovation, working experience with government stakeholders and local communities.

In following five phase River Ganga Basin was covered;

PHASE 1: Varanasi (Varanasi Ghat, Sarnath, BHU, *Benarasi Saree Industry*), Mirzapur (Mirzapur Ghats, Clock Tower, Carpet Industry, Brass Industry), Chunar & Allahabad (City, *Kumbh Mela Prangan*, Museum, Historical Places, STPs, Rose Farmers)

PHASE 2: Mathura (Meja Sanctuary), Vrindavan, Agra, Rishikesh & Haridwar

PHASE 3: Ganga Sagar & Kolkata (Chandannagar Stand, Bandel Church, Imambara, Hangseshwari Temple, Kumortuli, *Durga Puja*)

PHASE 4: Patna (*Chhat Puja*, Traditional Art forms of Patna), Gaya & Bodh Gaya (Various temples of Bodh Gaya, Nalanda University, Rajgir)

PHASE 5: Uttarakhand (Valley of Flowers), Gangotri



Image 31: A collage of photos by photo documentation team

### 3.4 Ganga Re Song

A melodious *Ganga Re* song was composed during the photo documentation of the holy River Ganga. Utilizing bytes captured along the documentation journey, a captivating video was meticulously designed and developed. This video encapsulates the essence of the Ganga and its significance in a visually engaging manner. To reach a broader audience, the video has been officially released on the IIPA Official YouTube Handle. Through this medium, the beauty and importance of the Ganga are shared with viewers worldwide, fostering greater appreciation and understanding.

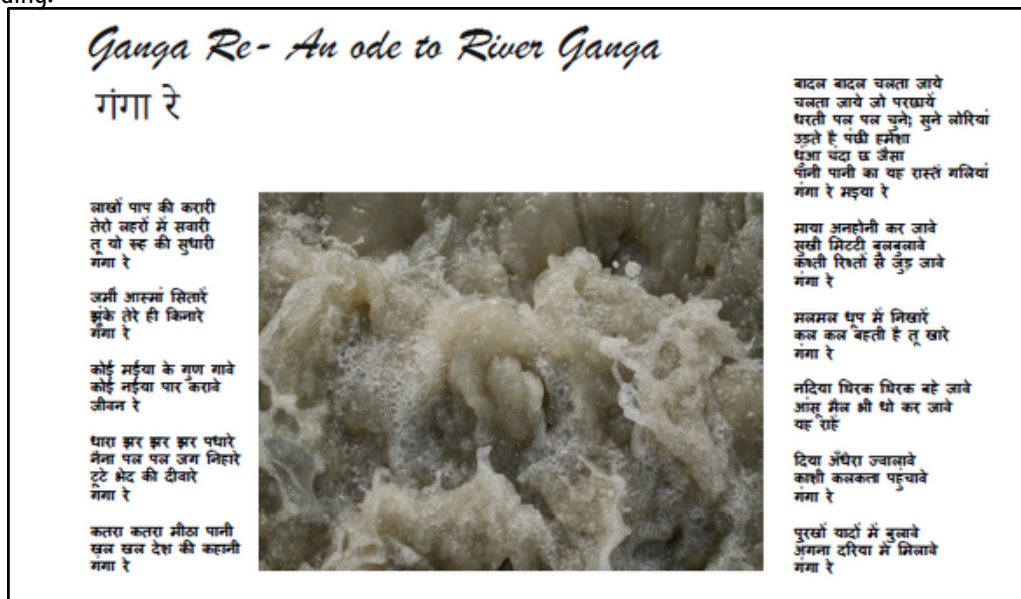


Image 32: Lyrics of song produced by project team

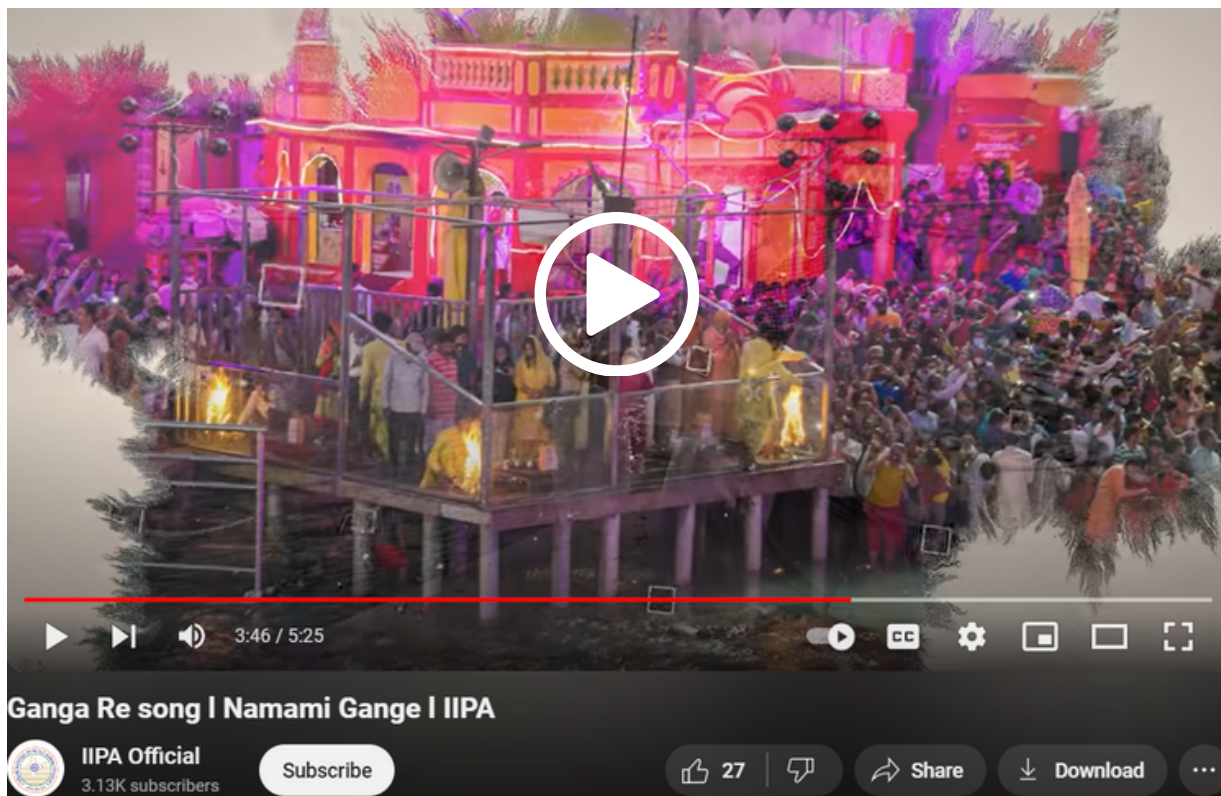


Image 33: Ganga Re song released on YouTube platform through IIPA Official handle

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### 3.5 Ganga Pariprekshya: A walk-in Photo Exhibition

The team has been working on developing a package of photographs and video clips to illustrate the varied aspects of Ganga. During field visits over 1500 important shots and many video bytes have been captured highlighting significance of River Ganga. Many of these shots are made into exhibition stands to be displayed as Ganga Pariprekshya: A walk-in Photo Exhibition.



*Image 34: Dr. K.K. Singh, the Honorable Vice Chancellor of SVPUAT with Prof. Vinod K. Sharma, Ms. Kanishka, RO, IIPA and Dr. Vivek, Dean of Agriculture at SVPUAT appreciating Walk-in Photo Exhibition titled "Ganga Pariprekshya"*



*Image 35: Students of Lady Irwin College, New Delhi appreciating walk-in Photo Exhibition titled "Ganga Pariprekshya"*

### 3.6 The Elusive Ganga

With primary objective was to use photography to capture the tangible and intangible changes brought about by the *Namami Gange* Programme. Team ventured into the heart of the Ganga basin, capturing moments that portrayed the collaborative efforts of various stakeholders - government agencies, NGOs, local communities, and religious bodies. These photos became powerful tools for raising awareness and advocacy, enabling people to connect with the cause at an emotional level.

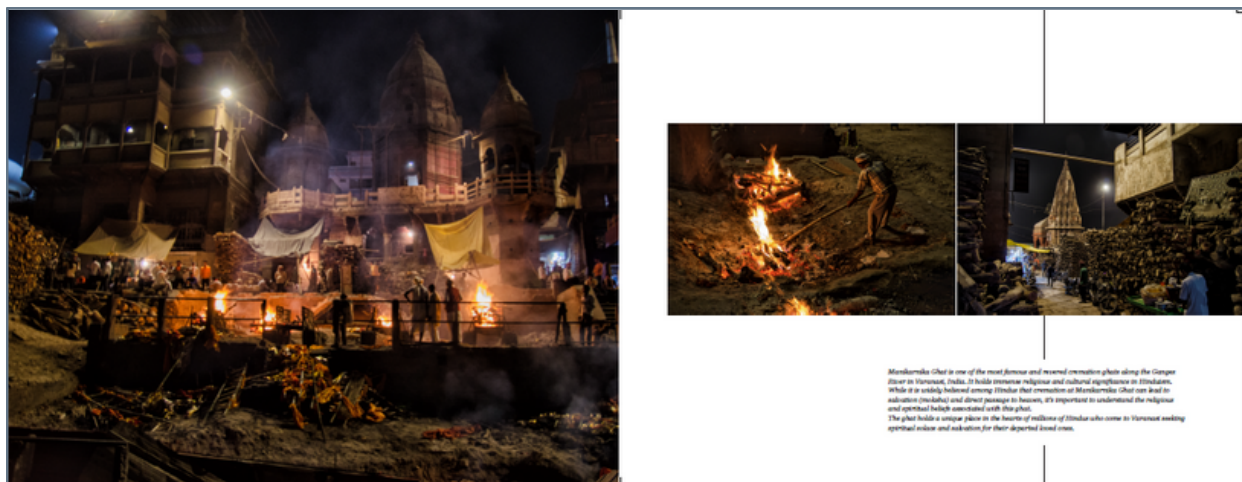


Image 36: Glimpses from the 'The Elusive Ganga' Book documenting the significance of Manikarnika Ghat

Through the lens of cameras, team documented the reduction of industrial waste and sewage being discharged into the Ganga, the rejuvenation of the riverbanks, and the promotion of sustainable agricultural practices. Photographs also portrayed the positive socio-economic changes within the riverine communities who depend on the Ganga River for their livelihoods. This work goes beyond pictures and is translated into a book 'The Elusive Ganga' to add to existing knowledge about pristine glory of Ganga.



Image 37: The brief video on The Elusive Ganga produced by team

### 3.7 Eternal Waters: R2R Visual journey from Religion to Resource

"Eternal Waters: R2R - A Visual Journey from Religion to Resource" the book published by IIPA masterfully bridges the gap between the ethereal and the tangible, inviting readers to recognize the profound connection between our spiritual inclinations and the necessity of safeguarding these invaluable resources. As the pages turn, the book paints a vivid picture of how our collective journey from religion to resource is an awe-inspiring testament to our capacity to honor the divine in both the spiritual and the material aspects of life.

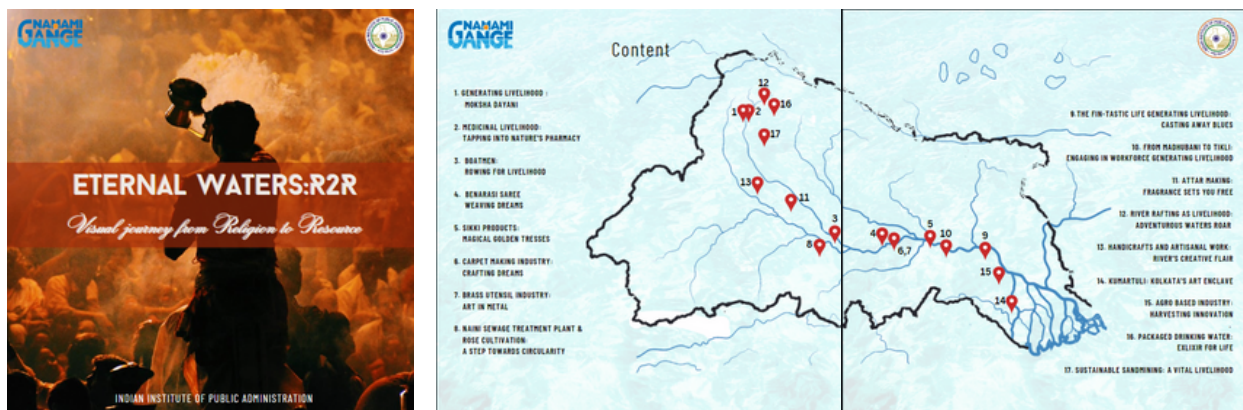


Image 38: Glimpses from the 'Eternal Waters: R2R' visual journey from Religion to Resource documenting the livelihoods aspects

The picture book delves into several livelihood aspects of Ganga. The threads of spirituality and practicality are intricately woven, as the book describes how our reverence for rivers guides us towards the responsible management of these precious lifelines. The picture book attempts to narrate the resource dependency and the religious value of the mighty river. People utilize its waters for various domestic chores like washing, bathing, navigation, transportation, etc. There is a unique connection between community and the river, life is unimaginable without the mystical Ganga. The book is also being made into a small documentary. The script of which is finalised for the further video production.



Image 39: A boat dedicated to collecting waste from the ghats, embodying a commitment to cleanse the banks of Ganga

### 3.8 Navigating the Ghats of Varanasi

The Ghats of Varanasi on the shore of River Ganga are striking example of the connection of the populace with the river. This book is an endeavour to explore the rich tapestry of the region, with focus on its economic, cultural, social, and architectural dimensions. Through meticulous research, captivating narratives, and vivid imagery, this book offers a holistic understanding of Varanasi's riverfronts, inviting readers to embark on a journey through time and space, where history, spirituality, culture, and architecture converge in a mesmerizing tapestry of human civilization. The project team documented the Ghats of Varanasi during pious festival of *Dev Deepavali*. The book is under progress to get published.



Image 40: Devotees taking Holy Dip during Ganga Snan on the occasion of Dev Deepavali at Dashashwamedh Ghat, Varanasi

Known for their ancient history, spiritual significance, and a vibrant riverfront life, these ghats have long captured the imagination of scholars, travellers, and historians. The interface of land and water furnishes a platform for individuals from all walks of life, to conduct their daily ablutions, religious rituals, spells of leisure, and earn livelihoods.

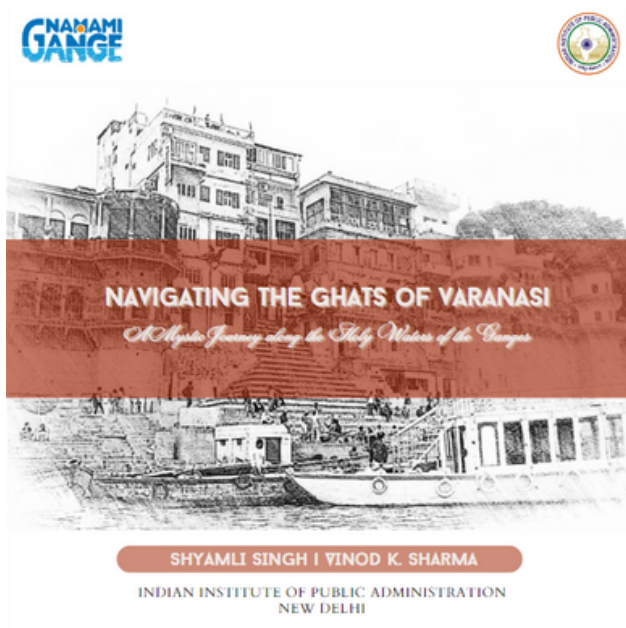


Image 41: Coverpage- 'Navigating the Ghats of Varanasi' Book



Image 42: Glimpses from the 'Navigating the Ghats of Varanasi' Book

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### 3.9 Report on 'Severe Pollution Crisis of Yamuna River in Delhi'

Decoding the causes of Delhi's Severe Pollution Crisis is a crucial undertaking aimed at unraveling the complexities surrounding the city's water quality crisis. The significance of this report lies in its potential to offer valuable insights into the multifaceted factors contributing to pollution in Delhi. By delving into the intricate web of sources, practices, and policies influencing air quality, the report attempts to lay the foundation for informed decision-making, effective policy reforms, and sustainable mitigation strategies. As we grapple with the far-reaching consequences of water pollution – from its adverse effects on human health and ecosystem degradation to the broader implications for social equity and economic sustainability – the need for a meticulous examination of the causes becomes increasingly apparent. The report seeks to bridge the existing knowledge gaps, providing stakeholders with a comprehensive overview that fosters a deeper understanding of the factors driving Delhi's severe pollution crisis. The report research work is under progress.



Image 43: Devotee taking Holy Dip during Chhat Puja in Yamuna surrounded by toxic foam | Source:wstale.com



Image 44: Idols and Puja Samagri being submerged at Yamuna River along with toxin foam | Source:wstale.com

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### 3.10 Documentary Videos

In collaboration with the Indian Institute of Public Administration (IIPA) team and video documentation team is working on design and development of two documentary videos. The primary objective of this assignment is to prepare documentary films on various aspects of the Ganga River, focusing on topics outlined in the project proposal. The documentaries will serve as educational tools for the project 'Blended Capacity Building Programme for Stakeholders of River Ganga-Phase II'. The following documentaries are work in progress.

#### **Documentary 1: Ganga: Lifeline of Northern India**

Documenting the ecological importance of the Ganga River in sustaining the diverse ecosystems and wildlife along its course.

The Ganga River is the lifeline to more than 500 million people as it flows through 5 states (Uttarakhand, Uttar Pradesh, Bihar, Jharkhand, and West Bengal). The Ganga River is one of the largest river systems in the world. harbors aquatic fauna such as the Gangetic River dolphin, gharial, otters, turtles and several aquatic and terrestrial birds.

#### **Documentary 2: Arth Ganga: River of Artisans**

Highlighting the traditional craftsmanship and artisanal skills of communities dependent on the Ganga River for their livelihoods.

Livelihoods dependent on Ganga and different communities like Brass and Metal Workers, Kolkata Kumartuli Artisans, Patna Madhubani Artists, Kanpur Leather Artisans, Saharanpur Woodcraft Artisans, Khurja Pottery Artisans, Varanasi Silk Weavers, Mirzapur Carpet Weavers, Toy makers of Benaras, so on... residing in River Ganga Basin.



*Image 45: An artist tends clay molding it for idols in Kumartuli, Kolkata*

### 3.11 Ganga's Serenade - A watery tale

Animated video project was initiated to elucidate the complexities of river conservation and the initiatives undertaken for the Ganga River under the *Namami Gange* Programme. Titled "Ganga's Serenade: A Watery Tale," this narrative video aimed to engage young students by presenting a captivating storyline and visually appealing animation. The animated video project commenced with the scripting phase, wherein the IIPA team meticulously crafted a compelling narrative that would resonate with the target audience.

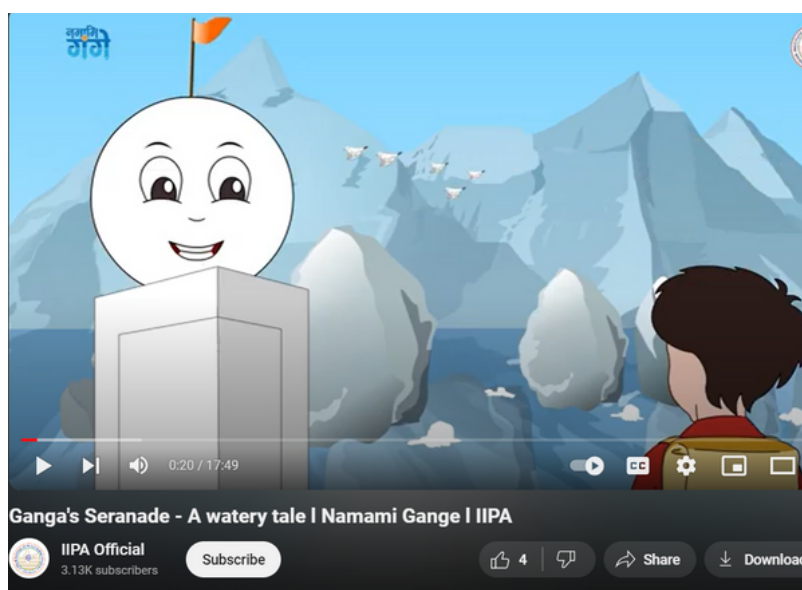


Image 46: Visual from 'Ganga's Serenade: A Watery Tale' Video

"Ganga's Serenade" embarked on a mesmerizing journey along the Ganga River, starting from Gangotri and traversing through various locations along the river's course. Through the eyes of the characters, viewers were taken on an immersive exploration of the river's beauty, challenges, and the ongoing efforts to rejuvenate it. The IIPA team also undertook the responsibility of providing a compelling voice-over narrative, guiding viewers through the journey and explaining the significance of the *Namami Gange* Programme's initiatives.

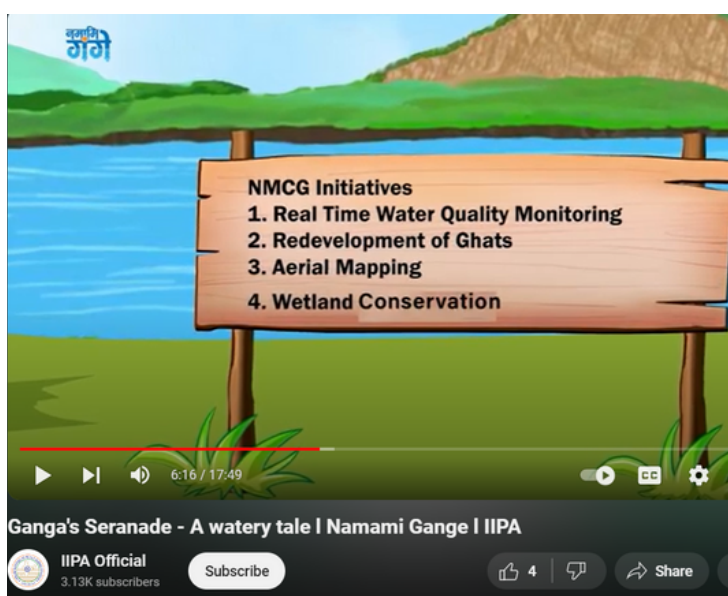


Image 47: Visual from 'Ganga's Serenade: A Watery Tale' Video

Embedded within storyline, the video succinctly summarized initiatives undertaken by the National Mission for Clean Ganga (NMCG) under the *Namami Gange* Programme. The video is released on YouTube through IIPA Official handle.

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### 3.12 Bilingual Orientation Course

The orientation course has been a key strategy for Capacity-Building that aims to reduce reliance on outside specialists as sources of information, resources, and solutions to community problems. The objective of the orientation course is to develop a cohort of local youth who are trained and motivated to participate in project activities, to raise awareness and educate target audiences about the hazards and implications of a polluted Ganga, to sensitize and gather support from people from all walks of life for the mitigation of pollution towards conservation of the Ganga and its tributaries and provide information on existing government programmes for clean Ganga. The IIPA developed 10 Modules of 30 minute each on Ganga and its sub-themes in both Hindi and English. These videos used regularly for training programmes and disseminated through LMS portal.

### 3.13 A video field report on Ganga for *Naya Bharat*

The Indian Institute of Public Administration (IIPA) has undertaken the development of a video project in-house, leveraging live bytes filmed and conducting on-site interviews at various locations in Haridwar and Rishikesh. A crucial aspect of the video's development involved conducting on-site interviews at Haridwar and Rishikesh, key locations along the Ganga River, to capture authentic perspectives and insights from local stakeholders and experts. Following the conclusion of on-site filming, the project entered the post-production phase, where meticulous editing and refinement were undertaken to weave together the narrative threads and create a compelling visual story.



Image 48: Locals bytes reporting from Rajaji National Park, Rishikesh



Image 49: Bytes reporting from Sewage treatment manager at Haridwar

### 3.14 Table and Wall Calendars 2024

IIPA undertook the design and printing of annual calendars for 2024 with a focus on highlighting significant cultural events and environmental themes. The calendars serve as both practical tools for organizing time and educational resources for raising awareness about important issues. Wall Calendar: The wall calendar for 2024 showcases the grandeur of *Dev Deepavali* celebrations in Benaras. Through captivating imagery captured by the photo documentation team, viewers are immersed in the cultural richness and spiritual significance of the event. The calendar serves as a tribute to the cultural heritage of Benaras and promotes tourism in the region.

Table Calendar: The table calendar features insightful posters created by talented school students, emphasizing the biodiversity of the River Ganga and the livelihoods dependent on it. These posters not only showcase the students' creativity but also provide valuable perspectives on environmental conservation and sustainable development. The collaboration between IIPA and the students aims to empower young minds and promote environmental stewardship.

The design and printing of the annual calendars for the year 2024 by IIPA represent a commitment to promoting cultural heritage, environmental conservation, and community engagement.



Image 50: Cover page of Table calendar 2024



Image 51: Glimpse of a wall calendar of 2024



Image 52: Glimpse of a Table calendar of 2024

Hon'ble Union Minister & Chairman of IIPA, Dr. Jitendra Singh officially unveiled the 2024 wall and table calendar, meticulously crafted as part of the "Blended Capacity Building Programme for Stakeholders of River Ganga Phase-II." The grand release took place at IIPA and simultaneously in Varanasi in the presence of Director General IIPA, Shri S.N. Tripathi, DM Varanasi, Shri S. Rajalingam, Shri Himanshu Nagpal, Chief Development Officer, Varanasi and Dr. Shyamli Singh, Faculty IIPA at Circuit House, Varanasi.



Image 53: Major General Vijay Purohit, Shri S.N.Tripathi DG, IIPA, Hon'ble Union Minister & Chairman of IIPA, Dr. Jitendra Singh, Shri Amitabh Ranjan and Prof. Vinod K. Sharma during launch of calendar 2024 at IIPA



Image 54: Shri G. Asok Kumar with Dr. Shyamli Singh and Prof. Vinod K. Sharma releasing table Calendar 2024 at NMCG Headquarters



Image 55: Shri G. Asok Kumar with Dr. Shyamli Singh and Prof. Vinod K. Sharma releasing wall Calendar 2024 at NMCG Headquarters



Image 56: Director General IIPA, Shri S.N. Tripathi, DM Varanasi, Shri S. Rajalingam, Shri Himanshu Nagpal, Chief Development Officer, Varanasi and Dr. Shyamli Singh, Faculty IIPA during launch of Calendar 2024 at Circuit House, Varanasi



Image 57: Director General IIPA, Shri S.N. Tripathi, DM Varanasi, Shri S. Rajalingam, Shri Himanshu Nagpal, Chief Development Officer, Varanasi Dr. Shyamli Singh, Faculty IIPA, Ms. Kanishka Sharma, Ms. Anugya Singh and other IAS officers during launch of Calendar 2024 at Circuit House, Varanasi

### 3.15 Publications

IIPA did many publications related to the project. Details of these publication are mentioned as follows:

Singh, S., Sharma, V.K. (2023). The Elusive Ganga. Indian Institute of Public Administration.

Singh, S., Sharma, V.K., Sharma, K. & Vohra, R. (2023). Eternal Waters R2R Visual journey from Religion to Resource. Indian Institute of Public Administration.

S. Singh and A. Singh, "Sectoral Approach for Solid Waste Management and Water Management", International Journal of Current Science Research and Review, Vol. 6(9), pp. 6388-6396, September 2023

Shyamli Singh, "Potential of rice-based food processing industries along eastern plains of river Ganga", Journal of Disaster Research, Vol. 18(7), October 2023, <https://doi.org/10.20965/jdr.2023.p0708>

"Urban Challenges from the lens of Climate Change" published in Urban India, Vol. 43(II), National Institute of Urban Affairs, 2023



Image 58: Snippet of published paper online, Potential of rice-based food processing industries along eastern plains of river Ganga

### Communicated

Shyamli Singh and Himanshi Negi, "Spatial Variation in Criteria Pollutants Over 15 Ganga Basin Cities", Journal of Air pollution and health

Shyamli Singh and Monika Saini, "Comprehensive Exploration of an Environment Conscious Lifestyle"

Shyamli Singh and Monika Saini, "Water Conservation and Awareness: A perceptive of Indian Scholars", International Journal of Water




Image 59: Snippet of article published in IIPA Digest on Saving Holiest River using Capacity Building as a Tool

Shyamli Singh and Monika Saini, "Saving Holiest River using Capacity Building as a Tool", IIPA Digest, 5.1, 20-21, 2023

Shyamli Singh and Monika Saini, "Urbanization and Revamping of Wetlands", IIPA Digest, 4.4, 40-41, 2022

Dr. Shyamli Singh, and Anugya Singh, "Reviving Resilience: Millets as a Climate Adaptive Crop", in National Conference on Public Administration and Citizen Centric Governance Priorities, Policies and Strategies, 23-24 Nov, 2023



## CHAPTER 4

Alaknanda River, Devprayag

# CAPACITY BUILDING PROGRAMMES



During the first year of the project's second phase, an array of capacity-building initiatives were successfully executed, contributing significantly to the project's objectives. These initiatives comprised a total of 30 School Training Programmes and an additional 31 Training of Master Trainer Programmes, emphasizing the development of educational capacities within schools. Furthermore, targeted efforts were made across various sectors, including 5 Capacity Building Programmes (CBPs) aimed at College students, Academia & Scientific Community, Krishi Vigyan Kendras (KVKs), Agriculture workers, and Extension Services, ensuring a holistic approach to skill enhancement. Moreover, a workshop tailored for immersive learning for industry professionals was conducted, fostering industry-specific knowledge dissemination. Additionally, the project extended its reach to engage with diverse demographics through 19 Capacity Building Programmes targeting the General masses, Spiritual community, and Non-Governmental Organizations (NGOs), fostering a broader societal impact. Moreover, the initiative included targeted three CBPs tailored for Policy Makers, Urban Local Body (ULB) Officers / Panchayati Raj Institutions (PRIs), and Civil Society representatives, enhancing stakeholder engagement and policy coherence. Lastly, the project devoted significant resources towards community engagement, with 46 CBPs specifically aimed at District Ganga Committees, Ganga *Prahari*, Ganga *Doots*, and Ganga *Mitra*, underscoring the project's commitment to grassroots involvement and environmental stewardship. These initiatives collectively underscore the project's multifaceted approach towards capacity building, aimed at fostering sustainable development and community empowerment within the project's ambit.

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#### 4.1 Capacity Building Programmes: School Students

Amidst an ethos of educational dynamism and pedagogical innovation, the Indian Institute of Public Administration (IIPA) orchestrated 30 capacity building programmes tailored specifically for school students hailing from diverse educational precincts across River Ganga Basin. Embracing the paradigm of hybridity, wherein virtual platforms seamlessly interfaced with traditional pedagogical modalities, this initiative epitomized a pioneering endeavor towards fostering scholastic enrichment and cognitive augmentation amongst the youth cohort.

Commencing with an inaugural convocation marked by conviviality and academic solemnity, the training programme was inaugurated with a gracious welcome address by Dr. Shyamli Singh, esteemed Faculty member of IIPA, extending warm salutations to the esteemed gathering comprising school principals, nodal teachers, and students alike. Subsequently, Prof. Vinod K. Sharma, another distinguished Faculty member, elucidated upon the overarching "Objectives and Expectations" underpinning the project, setting a precedent for the intellectual discourse that ensued.

The august gathering was further privileged to receive the sagacious insights of Shri S.N. Tripathi, Director General of IIPA, whose initial remarks underscored the seminal significance of the undertaking. This was complemented by an illuminating inaugural address delivered by Shri G. Asok Kumar, Director General of the National Mission for Clean Ganga (NMCG), illuminating the symbiotic relationship between environmental stewardship and academic enlightenment.

Dr. Shyamli Singh, once again gracing the forum, expounded upon the salient contours of the project in her elucidative presentation on "Project Overview," seamlessly segueing into an immersive discourse on the "Key Aspects of River Ganga," thus encapsulating the thematic underpinnings of the training programme.

Integral to the holistic pedagogical schema was the elucidation on Learning Management System (LMS) in e-Governance, wherein the IIPA team imparted nuanced insights into this pioneering initiative envisaged under the aegis of the Government of India's Digital India Programme. Facilitating a paradigmatic shift towards a digitally empowered society, the LMS platform emerged as a beacon of technological innovation, augmenting the efficacy of educational dissemination and fostering a culture of perpetual learning.

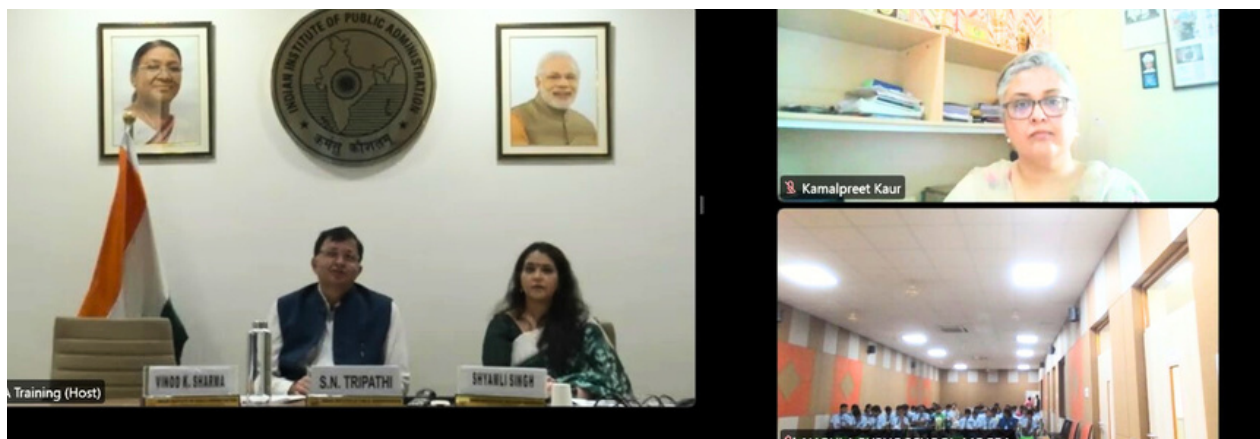


Image 60: Shri Surendra Nath Tripathi, DG, IIPA, Dr. Shyamli Singh, Faculty IIPA and Ms. Kamapreet Kaur, Principal Narula Public School, Hoogly during the school training programme

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Moreover, students were treated to an evocative portrayal of the "Birth of River Ganga" through a compelling visual narrative, thereby fostering a visceral connection with the ecological heritage of the revered river. Concurrently, a spirited poster-making competition on the theme of "Livelihood of Ganga" ignited the creative fervor of participants, culminating in the felicitation of three distinguished winners with cash prizes amounting to INR 750, INR 500, and INR 250 respectively, underscoring the meritorious ethos underpinning the training programme.

The subsequent days witnessed a continuation of intellectually stimulating sessions and interactive activities. Dr. Shyamli Singh initiated each day with reflections on the preceding sessions, fostering continuity and assimilation of knowledge. Engaging modules on rivers' orientation, cultural and spiritual significance, and Ganga's ecosystem provided students with multifaceted insights into environmental conservation and heritage preservation. Intriguing games and multimedia presentations, including the Chacha Chaudhary teaser and Ganga *Darshan* - Virtual Art Gallery, captivated students' attention and augmented their learning experience.

The final day of the training programme culminated in a flurry of enlightening sessions and celebratory events. Modules on Ganga's rejuvenation and motivational building aimed to inspire proactive engagement and advocacy among students. Winners of the poster-making competition were duly recognized, while interactive sessions facilitated meaningful exchanges between participating schools' principals, nodal teachers, and team members of IIPA.



*Image 61: Central Hindu Girls Sr. Sec School, Varanasi students attending the school training programme*



Image 62: Prof. Vinod K. Sharma, Faculty IIPA, presenting IIPA memento to Principal Arya Kanya Inter College, Prayagraj along with Ms. Kanishka Sharma



Image 63: Prof. Vinod K. Sharma, Faculty IIPA and other panelists with participants of school training programmes at Arya Kanya Inter College, MutthiGanj, Prayagraj

### School Students Training Details

In the first year (2023-2024) of the project , a total of 30 capacity-building programmes were conducted explicitly for school students, set against the backdrop of the revered River Ganga. These initiatives were meticulously curated to cater to the distinct needs and circumstances of participating schools, with a judicious blend of online and offline modalities employed in accordance with the availability and preferences of each institution. Such a bespoke approach ensured maximal inclusivity and resonance, fostering an enriched learning environment conducive to the holistic development of the student demographic along the course of the Ganges. The list of school students training is attached in Annexure III. The locations of which are marked in the map below:

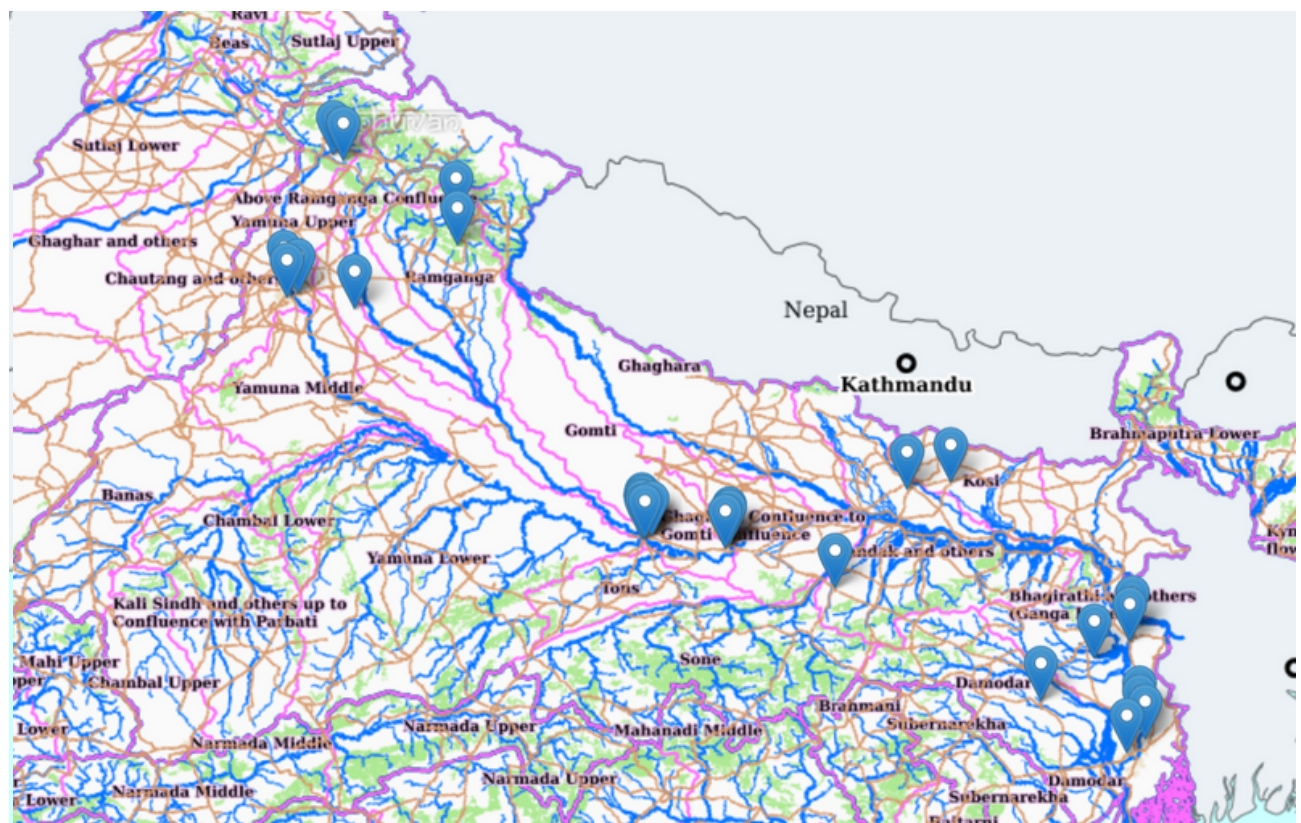


Figure 04 : Map of institutions which participated in School Training Programmes on Hydrological map of Ganga Basin



Figure 05: List of institutions participated in 30 Capacity Building Programmes for school students



Image 64: Dr. Shyamli Singh, Ms. Kanishka with master trainers and participants of school training programme at Central Hindu Girls Sr. Sec. School, Varanasi



Image 65: Dr. Shyamli Singh with Ms. Anugya, Ms. Monika and Ms. Himanshi lamp lighting during inaugural session of school training programme at Central Hindu Girls Sr. Sec. School, Varanasi



Image 66: Students of Delhi Public School, Varanasi, participating in School Training Programme



*Image 67: Participating student from DPS Varanasi sharing his views during school training session*



*Image 68: Participating student from Mother's International, New Delhi sharing her views during school training session*



*Image 69: Dr. Shyamli Singh interacting with participating student from DPS Varanasi during her session*



*Image 70: Participating student from Central Hindu Girls Sr. Sec. School sharing her views during school training session*



Image 71: Participants from Sudhakar Mahila P.G. College, Varanasi during capacity building programme



Image 72: Principal Salwan Public School, Mayur Vihar presenting sapling to Dr. Shyamli Singh, Faculty, IIPA and Mr. Ratik Vohra, Web Developer, IIPA

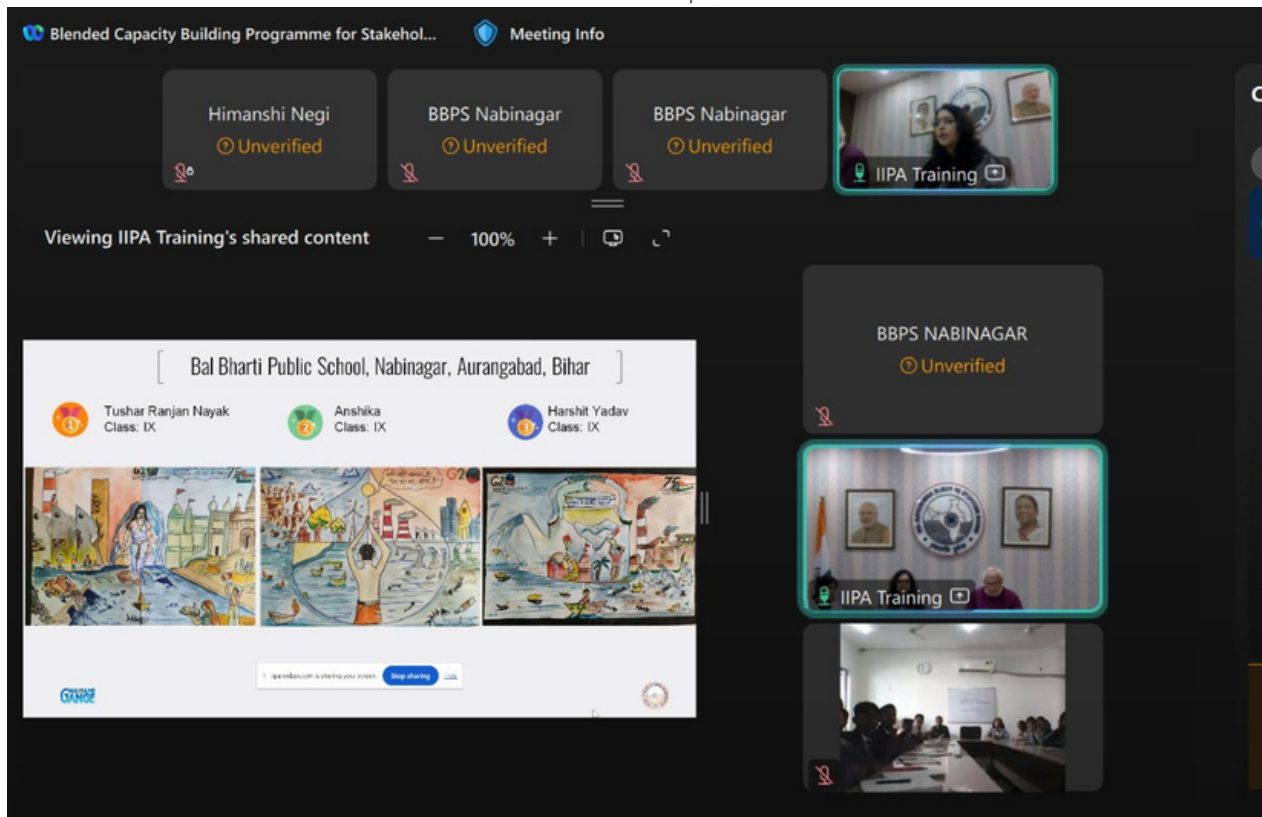


Image 73: Dr. Shyamli Singh and Prof. Vinod K. Sharma announcing poster competition winners of Bal Bharti Public School, Nabinagar



Image 74: Participants of capacity building programme with Doon Valley International School, Dehradun



Image 75: Ms. Monika and Prof. Vinod K. Sharma interacting with students of Mahatma Gandhi Shikshan Sansthan, Darbhanga, Bihar during feedback session

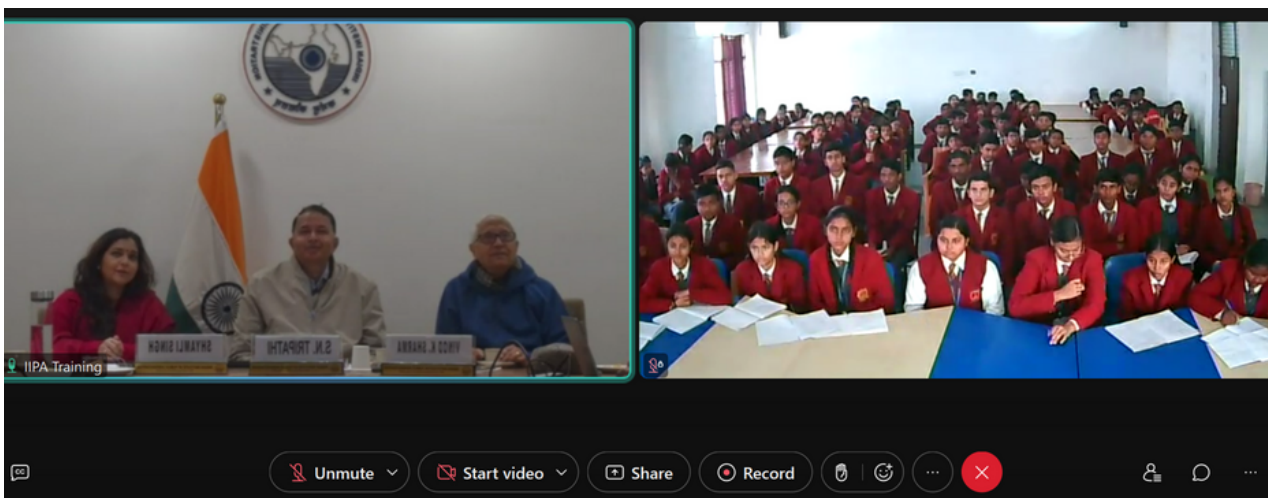


Image 76: Dr. Shyamli Singh, Faculty, IIPA, Shri S.N. Tripathi, DG, IIPA and Prof. Vinod K. Sharma, Faculty, IIPA interacting students of capacity building programme

## 4.2 Capacity Building Programmes: Master Trainers

In the first year (2023-2024) of the project, a total of 31 capacity-building programmes were conducted explicitly for master trainers, pivotal component of the endeavor. Project Investigators, Prof. Vinod Kumar Sharma and Dr. Shyamli Singh, extended a warm welcome to participants, providing them with a comprehensive overview of the project's objectives and scope. Notably, Shri G. Asok Kumar, Director-General of the National Mission for Clean Ganga (NMCG), graced the occasion virtually, bestowing the proceedings with his esteemed presence during the program's inauguration.

The inaugural day of phase two was marked by an insightful initiation into the operations of both IIPA and NMCG, setting the stage for a robust and collaborative engagement. In a deeply affecting address, the Director-General of NMCG underscored the imperative nature of the programme, highlighting the paramount importance of responsible behavior in the preservation and management of the River Ganga. Emphasizing the pivotal role of efficient water usage in river conservation efforts, he articulated a compelling call to action for all stakeholders.

Subsequently, the mantle of responsibility was entrusted to the master trainers, who assumed a crucial role in the execution and dissemination of knowledge garnered through the programme. As the day drew to a close, the resonance of the participants' words of encouragement echoed, serving as a reminder of the collective commitment towards the noble cause of environmental stewardship and sustainable development. Indeed, it is through such concerted efforts and shared determination that transformative change is catalyzed, ensuring a brighter, more sustainable future for generations to come. The list of master trainers programme is attached in Annexure IV. The locations of which are marked in the map below:



Figure 06: Map of institutions which participated in Master Training Programmes on Hydrological map of Ganga Basin



Figure 07: List of institutions participated in 31 Capacity Building Programmes for Master Trainers



Image 77: Prof. Vinod K. Sharma with other panelists during inaugural session of Master Trainer programme at Veer Savarkar Kanya Vidhyalaya, Nehru Enclave, New Delhi

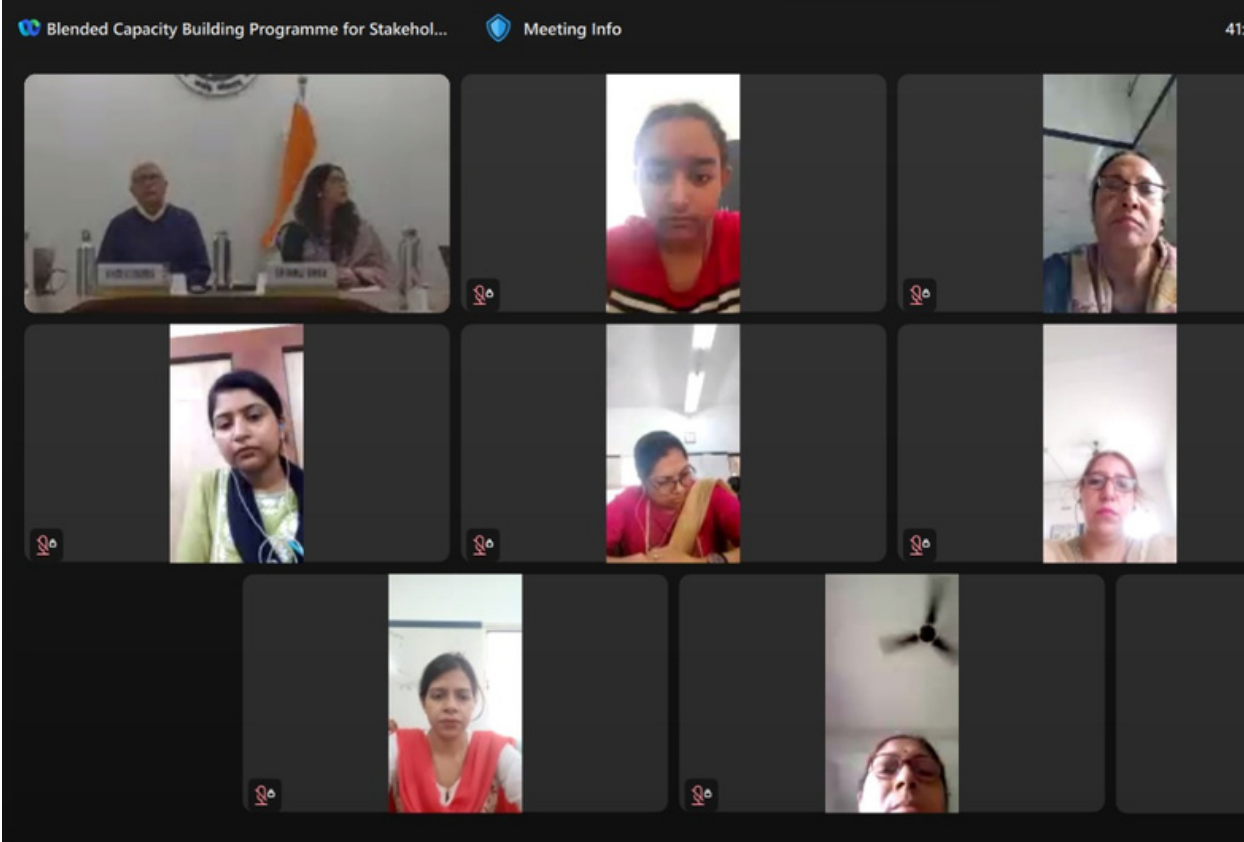


Image 78: Prof. Vinod K. Sharma and Dr. Shyamli Singh interacting with Master Trainers from Guru Nanak Public School, West Bengal

### 4.3 Capacity Building Programmes: College, Students, Academia, Scientific community, KVKs, Agriculture workers & Extension services



The First Colloquy: Ganga Samvad was organised on October 9, 2023, under the project 'Blended Capacity Building Programme for Stakeholders of River Ganga Phase-II,' sponsored by the National Mission for Clean Ganga, Ministry of Jal Shakti (Department of Water Resources, River Development & Ganga Rejuvenation), Government of India. This programme, in collaboration with Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut, provided a platform for KVKs, agriculture college students, academicians, and young researchers to discuss and share their ideas pertaining to River Ganga. The inaugural ceremony was joined by Shri K. K. Singh, vice chancellor, SVPUAT and project investigator Prof. Vinod K. Sharma session. Scholars, faculty members, KVK members, deans, directors, registrar from SVPUAT and Ms. Smriti NMCG representative participated in the event.



Image 79: Prof. Vinod K. Sharma, Faculty IIPA delivering session on Natural Farming to the participants of First Ganga Samvad at Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut



Image 80: Prof. Vinod K. Sharma, Faculty IIPA with Shri K.K.Singh, Vice chancellor, SVPUAT and other panelists on dais during First Ganga Samvad at Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut

IIPA organized the Second Colloquy: Ganga Samvad in collaboration with Lakshmibai College, University of Delhi, as part of the "Blended Capacity Building Programme for Stakeholders of River Ganga Phase-II" initiative. The event aimed to engage students and master trainers in discussions pertaining to the preservation and sustainable management of the River Ganga, aligning with the broader objectives of the initiative. The Second Colloquy: Ganga Samvad took place at Lakshmibai College, University of Delhi, and witnessed active participation from over 140 students and 15 master trainers. The significant turnout underscored the enthusiasm and interest among the academic community towards addressing environmental and socio-economic challenges related to the Ganga basin. Dr. Shyamli Singh, delivered a keynote address during the colloquy, sharing invaluable insights on the significance of the River Ganga and its associated aspects. Dr. Singh's comprehensive discourse provided attendees with a deeper understanding of the ecological, cultural, and economic importance of the Ganga, emphasizing the need for collective action to safeguard its integrity and promote sustainable development. The interactive sessions facilitated fruitful discussions among participants, enabling the exchange of ideas, perspectives, and best practices in river conservation and management. Students and master trainers actively engaged in exploring innovative solutions and strategies to address the challenges facing the Ganga basin, reflecting a proactive approach towards environmental stewardship.



Image 81: Dr. Shyamli Singh, Faculty IIPA presenting IIPA memento to master trainers of Lakshmibai College, New Delhi during Second Ganga Samvad



Image 82: Dr. Shyamli Singh, Faculty IIPA with participants and master trainers from Lakshmibai College, New Delhi during Second Ganga Samvad

IIPA organized the Third Colloquy: Ganga *Samvad* in collaboration with Lady Irwin College, University of Delhi, as part of the "Blended Capacity Building Programme for Stakeholders of River Ganga Phase-II" initiative. The event aimed to engage students and master trainers in meaningful discussions regarding the preservation and sustainable management of the River Ganga, aligning with the overarching goals of the initiative. The Third Colloquy: Ganga *Samvad* was hosted at Lady Irwin College, University of Delhi, and attracted active participation from over 100 students and 5+ master trainers. The diverse representation underscored the collective interest and commitment towards addressing the environmental and socio-economic challenges associated with the Ganga basin. The colloquy featured esteemed speakers, including Prof. V. K. Sharma and Dr. Shyamli Singh, who shared invaluable insights on various aspects of the majestic Ganga. Prof. Sharma's expertise in environmental science and Dr. Singh's profound knowledge of river ecosystems provided attendees with a comprehensive understanding of the Ganga's ecological significance, cultural heritage, and socio-economic relevance. The interactive sessions facilitated lively discussions among participants, enabling the exchange of ideas, perspectives, and practical solutions for addressing the complex challenges facing the Ganga basin. Students and master trainers actively engaged in exploring innovative approaches to river conservation, emphasizing the importance of community involvement, scientific research, and policy advocacy in achieving sustainable outcomes.



Image 83: Prof. Vinod K. Sharma and Dr. Shyamli Singh, Faculty IIPA presenting IIPA memento to Prof. Meenakshi Mital of Lady Irwin College, New Delhi during Third Ganga Samvad



Image 84: Dr. Shyamli Singh, Faculty IIPA and master trainers of Lady Irwin College, New Delhi with participants of Third Ganga Samvad

IIPA in collaboration with Kamla Gram Vikas Sansthan, Prayagraj, organized the Fourth Colloquy: Ganga *Samvad* at Th. Har Narayan Singh Post Graduate College, Prayagraj, Uttar Pradesh, as part of the "Blended Capacity Building Programme for Stakeholders of River Ganga Phase-II" initiative. The colloquy aimed to foster meaningful discussions among students and master trainers regarding the preservation and sustainable management of the River Ganga, in alignment with the overarching objectives of the initiative. The Fourth Colloquy: Ganga *Samvad* convened at Th. Har Narayan Singh Post Graduate College, Prayagraj, Uttar Pradesh, attracting active participation from over 200 students and 15+ master trainers. The significant turnout underscored the widespread interest and commitment among stakeholders towards addressing the environmental and socio-economic challenges associated with the Ganga basin. Ganga *Samvad* at Th. Har Narayan Singh Post Graduate College, Prayagraj, Uttar Pradesh, served as a pivotal platform for fostering dialogue and collaboration among students and master trainers towards the preservation and sustainable management of the River Ganga. Dr. Shyamli Singh's insightful address provided a solid foundation for the discussions, inspiring participants to actively contribute to the conservation endeavors.



*Image 85: Dr. Shyamli Singh, Faculty IIPA presenting IIPA memento to Founder Manager Th. Devendra Singh, Th. Har Narayan Singh Post Graduate College, Prayagraj during Fourth Ganga Samvad*



*Image 86: Dr. Shyamli Singh, Faculty IIPA with Founder Th. Devendra Singh and Principal of Th. Har Narayan Singh Post Graduate College, Prayagraj with participants during Fourth Ganga Samvad*

The Fifth Colloquy: Ganga Samvad convened at Shyama Prasad Mukherjee Government P.G. College, Prayagraj, Uttar Pradesh, and was honored by the presence of Mr. Ganesh Kannaujiya, SDM, and Prof. Shubha Srivastava, Principal. The distinguished attendees exemplified the government and academic institutions' commitment to collaborative efforts in addressing the environmental and socio-economic challenges associated with the Ganga basin. Dr. Shyamli Singh, delivered a keynote address during the colloquy, sharing invaluable insights on various dimensions of the majestic Ganga and its associated aspects. Dr. Singh's profound knowledge and expertise provided attendees with a comprehensive understanding of the Ganga's ecological significance, cultural heritage, and socio-economic relevance, thereby laying a robust foundation for the subsequent discussions. The interactive sessions facilitated dynamic exchanges among participants, enabling the exploration of innovative solutions and strategies for addressing the multifaceted challenges facing the Ganga basin. Students and master trainers actively engaged in deliberations, emphasizing the significance of community engagement, scientific research, and policy advocacy in fostering sustainable development and conservation efforts. The Fifth Colloquy: Ganga Samvad at Shyama Prasad Mukherjee Government P.G. College, Prayagraj, Uttar Pradesh, served as a pivotal platform for fostering dialogue and collaboration among students and master trainers towards the preservation and sustainable management of the River Ganga.



Image 87: Shri Ganesh Kannaujiya, SDM, and Prof. Shubha Srivastava, Principal presenting memento to Dr. Shyamli Singh during Fifth Colloquy: Ganga Samvad at Shyama Prasad Mukherjee Government P.G. College, Prayagraj



Image 88: Dr. Shyamli Singh, Faculty IIPA and Prof. Shubha Srivastava, Principal, Shyama Prasad Mukherjee Government P.G. College, Prayagraj during Fifth Colloquy: Ganga Samvad

#### 4.4 Workshop for Trade Groups

In accordance with the objectives of the "Blended Capacity Building Programme for Stakeholders of River Ganga Phase-II" initiative, the Indian Institute of Public Administration (IIPA), in collaboration with Kamla Gram Vikas Sansthan, Prayagraj, organized a significant programme for Trade Unions on March 07, 2024, in Prayagraj, Uttar Pradesh. The primary aim of the event was to engage stakeholders from Trade Unions in discussions pertinent to the preservation and sustainable development of the River Ganga.

The programme convened at Prayagraj, Uttar Pradesh, saw active participation from over 80 stakeholders representing various Trade Unions. Notably, the event was graced by the esteemed presence of Mr. Rajesh Mishra, Deputy Labour Commissioner, Prayagraj, signifying the importance and relevance of the initiative. His attendance underscored the government's commitment to fostering collaboration with diverse stakeholders for the holistic development of the region.

One of the significant highlights of the programme was the sharing of invaluable insights by Dr. Shyamli Singh, shedding light on the majestic Ganga and its interconnectedness with livelihood and trade aspects. Dr. Singh's expertise provided attendees with a comprehensive understanding of the intricate relationship between the Ganga and the socio-economic fabric of the region. Her insights served as a catalyst for meaningful discussions among participants, emphasizing the imperative for collective action in preserving and leveraging the Ganga's resources sustainably.



Image 89: Dr. Shyamli Singh delivering session for Capacity Building Training Programme for Trade Unions of Prayagraj. In frame; Mr. Rajesh Mishra, Deputy Labour Commissioner, Prayagraj and Mr. Ajeet Singh, Kamla Gram Vikas Sansthan, Prayagraj



Image 90: Dr. Shyamli Singh with participants and panelists of Capacity Building Training Programme for Trade Unions of Prayagraj

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#### 4.5 CAPACITY BUILDING PROGRAMMES: DISTRICT GANGA COMMITTEE

District Ganga Committees (DGCs) have been established in the districts along the Ganga River basin to establish a local mechanism for active community involvement in the management and reduction of pollution in the Ganga River and its tributaries. The primary responsibilities of these committees include overseeing the effective use of infrastructure developed as part of the *Namami Gange* initiative, monitoring the discharge of drains and sewage into the Ganga and its tributaries, and fostering a strong community engagement in the rejuvenation efforts of the Ganga.

IIPA has initiated an extensive capacity building programme designed for the five-star states located in the Ganga basin region through which River Ganga flows, namely Uttarakhand, Uttar Pradesh, Bihar, Jharkhand, and West Bengal. A total of 46 highly successful DGC training programmes have been meticulously conducted, each focusing on distinct and diverse themes.

State	No. of Districts		Total DGCs
	Main Stem	Tributaries	
Uttarakhand	7	6	13
Uttar Pradesh	25	50	75
Bihar	12	26	38
Jharkhand	1	3	4
West Bengal	7	2	9
<b>Total</b>	<b>52</b>	<b>87</b>	<b>139</b>

Figure 08: Statewise Distribution of District Ganga Committee

These officials play a pivotal role in the effective execution and management of various projects and initiatives within their respective districts. It ensures that Executive officers, District Project Officers, District Forest Officers are well equipped to take decisions and drive sustainable development in the Ganga basin states, ultimately contributing to the preservation and responsible management of the critical ecological region. The comprehensive training programme not only covered a wide spectrum of essential topics but also ensured that expert knowledge and guidance were made accessible to participants. The collaboration with distinguished speakers and the high participation numbers underscored the program's significance in enhancing the capacity of these officers, ultimately contributing to the responsible management and conservation of the Ganga basin region. For ease of conducting training programmes, five batches of District Ganga Committee programme were designed.

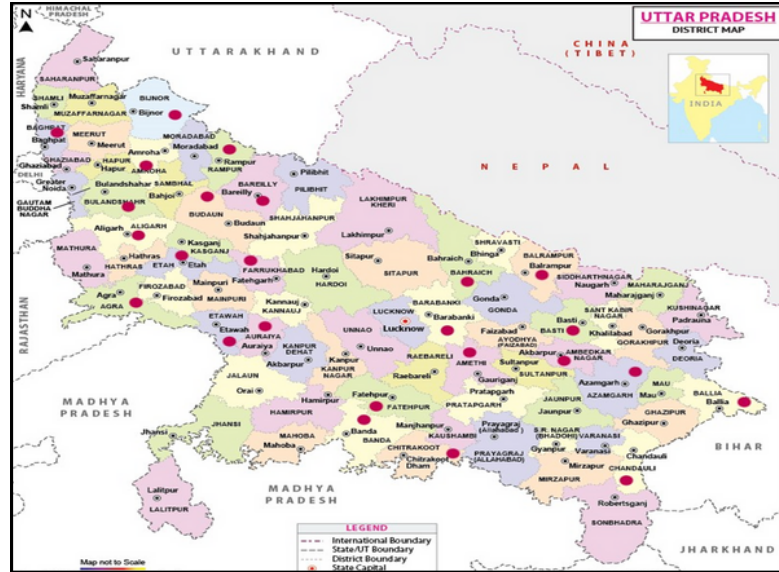


Figure 09: Batch-1 District wise Distribution of District Ganga Committee, Uttar Pradesh

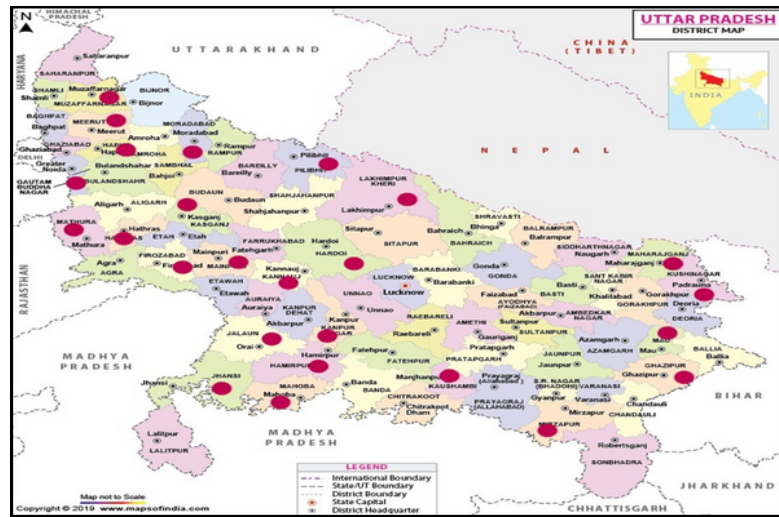


Figure 10: Batch-2 District wise Distribution of District Ganga Committee, Uttar Pradesh

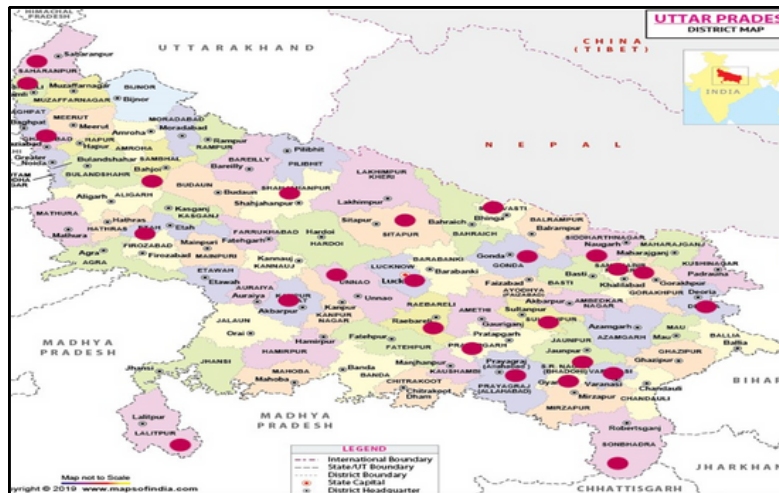


Figure 11: Batch-3 District wise Distribution of District Ganga Committee, Uttar Pradesh





Image 91: Shri Surendra Nath Tripathi, DG, IIPA; Prof. Vinod K. Sharma, Faculty IIPA; Dr. Shyamli Singh, Faculty IIPA interacting with the participants of DGC Capacity Building programme

The capacity building programme was meticulously organized with a well-structured agenda designed to maximize efficiency and effectiveness. The inaugural session, heralding the commencement of the programme, commenced with a cordial welcome extended by Dr. Shyamli Singh, esteemed Faculty member of the Indian Institute of Public Administration (IIPA). Dr. Singh's warm introduction set a conducive atmosphere for the ensuing proceedings. Subsequently, Prof. Vinod K. Sharma, another esteemed Faculty member of IIPA, took the floor to deliver the opening remarks. Prof. Sharma's insightful address not only marked the formal commencement of the session but also provided essential context, thereby laying the groundwork for the discussions to follow. His elucidation of the program's objectives and significance served to orientate participants and set the stage for engaging and productive deliberations. Following the opening remarks, the session was enriched by the distinguished presence of Shri S.N. Tripathi, who delivered insightful presidential remarks on the topic of Small River Rejuvenation and the pivotal role of District Ganga Committee (DGC) members in this endeavor. Shri Tripathi's address underscored the critical importance of rejuvenating small rivers, emphasizing their significance in the broader context of water resource management and ecological sustainability. His remarks shed light on the challenges and opportunities inherent in small river restoration efforts, emphasizing the need for concerted action at the local governance level. Furthermore, Shri Tripathi highlighted the indispensable role played by District Ganga Committee members in spearheading initiatives aimed at rejuvenating small rivers.

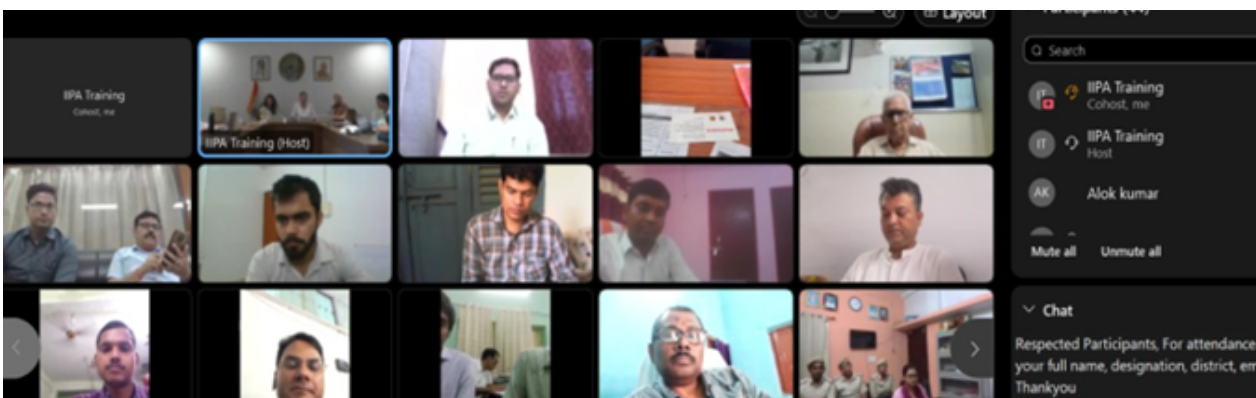


Image 92: DGC officials attending the DGC training programme



Image 93: Prof. Venkatesh Dutta, Professor, Babasaheb Bhimrao Ambedkar University, Lucknow delivering his session Small River Rejuvenation

Following this, Prof. C. K. Varshney, Emeritus Professor, JNU, presented remarkable insights on the theme of wetlands. The first phase of training was initially conducted for Bihar and then extended to Uttar Pradesh in three separate batches, each covering 25 districts. Subsequently, the training was extended to Uttarakhand, Jharkhand, and West Bengal.

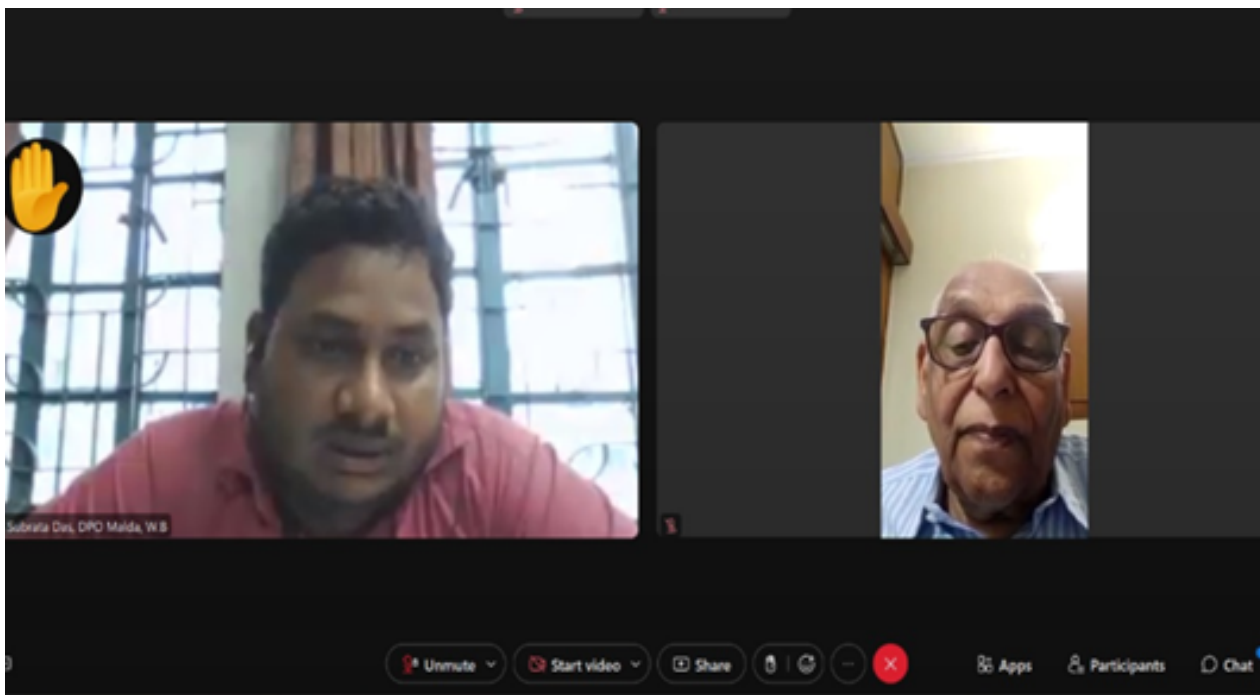


Image 94: Prof. C. K. Varshney, Emeritus Professor, JNU interacting with the participants

In the second round of theme, the focus shifted to critical areas like solid waste management, where Dr. Ashish Jain, Director, Indian Pollution Control Association, was invited as a guest speaker to provide valuable insights. Dr Radha Goel, Indian Pollution Control Association also delivered session on the theme. Additionally, the theme of Agriculture was addressed with an impressive presentation by Dr. Uday Pratap Shahi, Professor, Sardar Vallabhbhai Patel University of Agriculture & Technology, Meerut. For the theme 'Agriculture' the questions focussed on primary obstacles and potential advantages that agriculture is encountering within the district, impact of climate change and extreme weather events on crop management, most common agricultural techniques being promoted by the district's agricultural department and elaboration on government subsidies or financial assistance programs available to support local farmers.



Image 95: Shri Ashish Jain, Director, IPCA interacting with participants; Dr Shyamli Singh, Faculty, IIPA also in frame

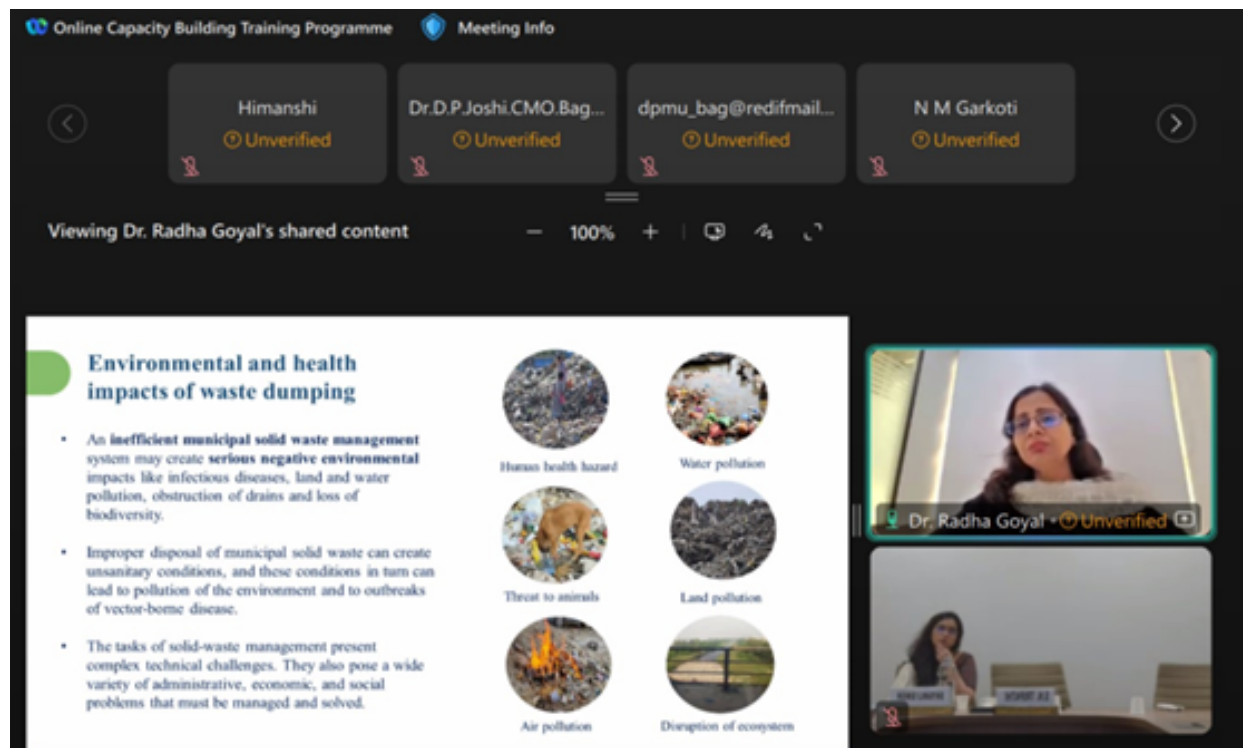


Image 96: Dr. Radha Goel, IPCA delivering session on Solid waste management; Dr. Shyamli Singh, Faculty, IIPA also in frame

This approach offers a multi-faceted and comprehensive learning experience for the participants. The inclusion of various subject matter experts ensures that participants gain a holistic understanding of the topics being covered, benefiting from a range of perspectives and expertise. These experts bring their unique insights and knowledge, enriching the training sessions with their diverse experiences and contributions.

Prof. Sharma and Dr. Singh play a pivotal role in guiding the discussions and providing additional depth to the training content. Their involvement enhances the overall learning experience, as they offer their expertise and engage with the participants, fostering a collaborative and informative environment. Together with the guest speakers, they create a dynamic and enriching training programme that equips participants with a well-rounded understanding of the themes at hand, promoting effective learning and skill development in the Ganga basin region.

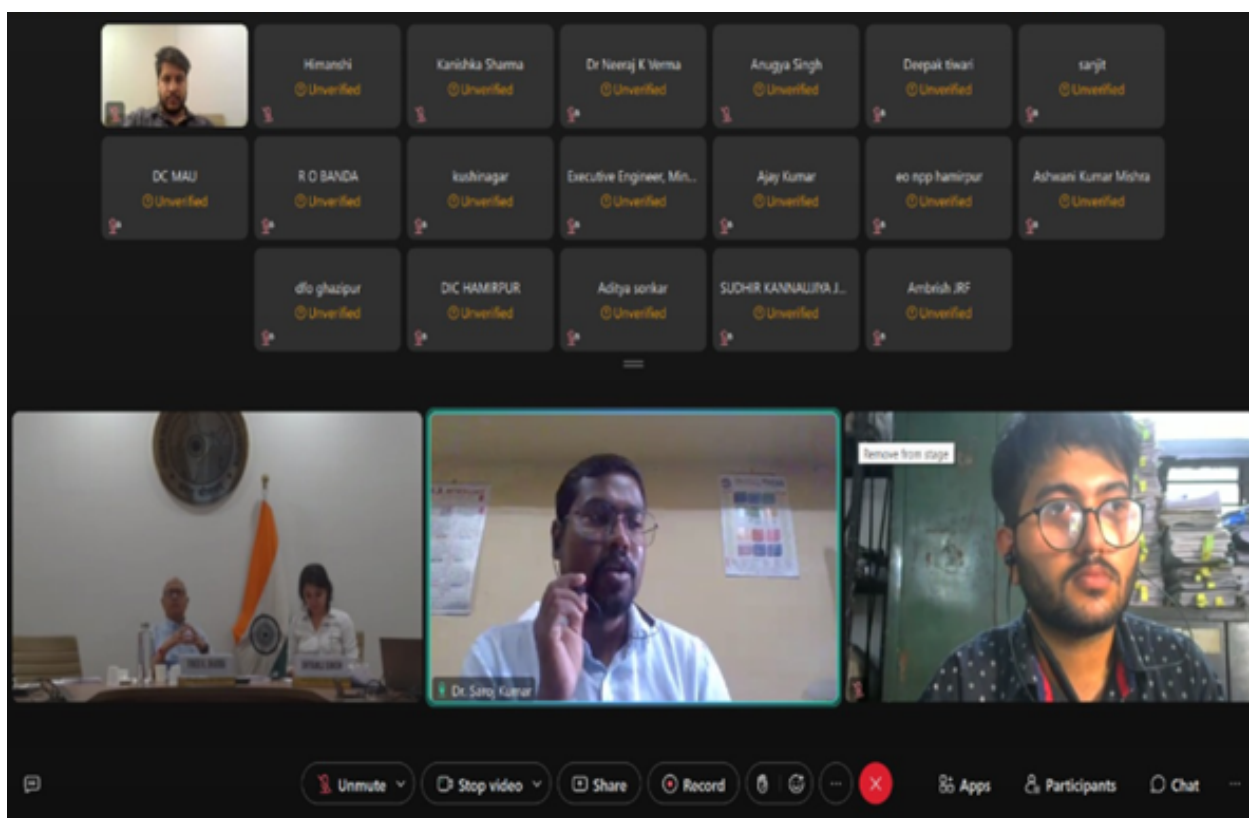


Image 97: Prof. Vinod K. Sharma, Faculty IIPA interacting with participants

An open discussion, led by the IIPA team, also took place, providing an opportunity for participants to engage, exchange ideas, and seek clarification on the subject matter. The session concluded with a segment dedicated to practical application. IIPA team presented an assignment on the theme of the training, encouraging hands-on learning and application of the concepts discussed during the session. The assignment on the theme 'Small river rejuvenation' focused on questions such as - significance of small river rejuvenation in the context of environmental conservation and sustainable development, major sources of pollution in rivers, the importance of biodiversity conservation in river ecosystem and the potential challenges that trained personnel might encounter during the river rejuvenation process. Similarly, assignment on 'Wetlands' focused on importance of determining size and location of wetland, importance of biodiversity for wetland management, importance of understanding governance & institutional mechanisms for wetland management and why is it crucial to management to comprehend the links between wetland ecosystem services & livelihoods.

For the third round of discussions focusing on 'Afforestation', sessions were taken by Prof. Sharma and Dr. Singh, while Prof. Mukesh P. Mathur, Former Director, NIUA led the session on 'Institutional Development' with a focus on 'Financing Urban Infrastructure and reforms'. The 'Afforestation' assignment addressed topics such as the influence of environmental factors on afforestation success, the significance of local community involvement, challenges in fostering community participation, resource limitations in afforestation project implementation, and the difficulties in ensuring long-term sustainability. Similarly, the 'Institutional Development' assignment covered subjects like initiatives targeting energy efficiency, water conservation, or sustainable practices, assessment of the economic impacts of urban infrastructure projects, management of financial risks, and efforts to strengthen financial management capabilities within district administrations. Feedback forms regarding these themes were also circulated among participants.

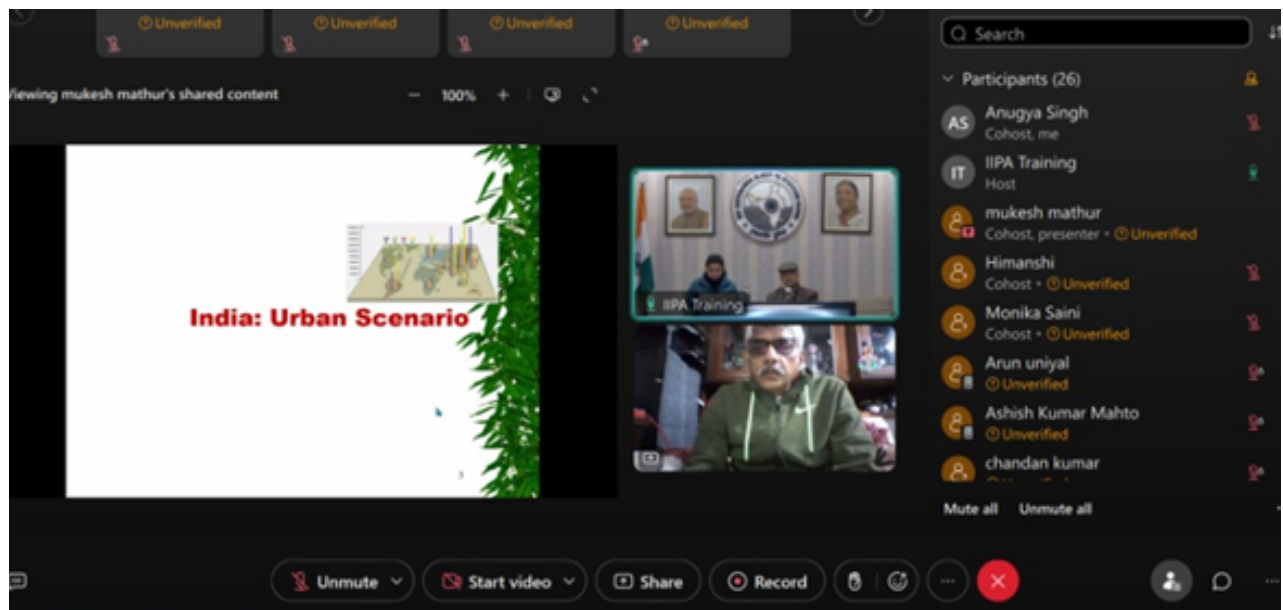


Image 98: Prof. Mukesh P. Mathur, Former Director, NIUA delivering session on 'Financing Urban Infrastructure'

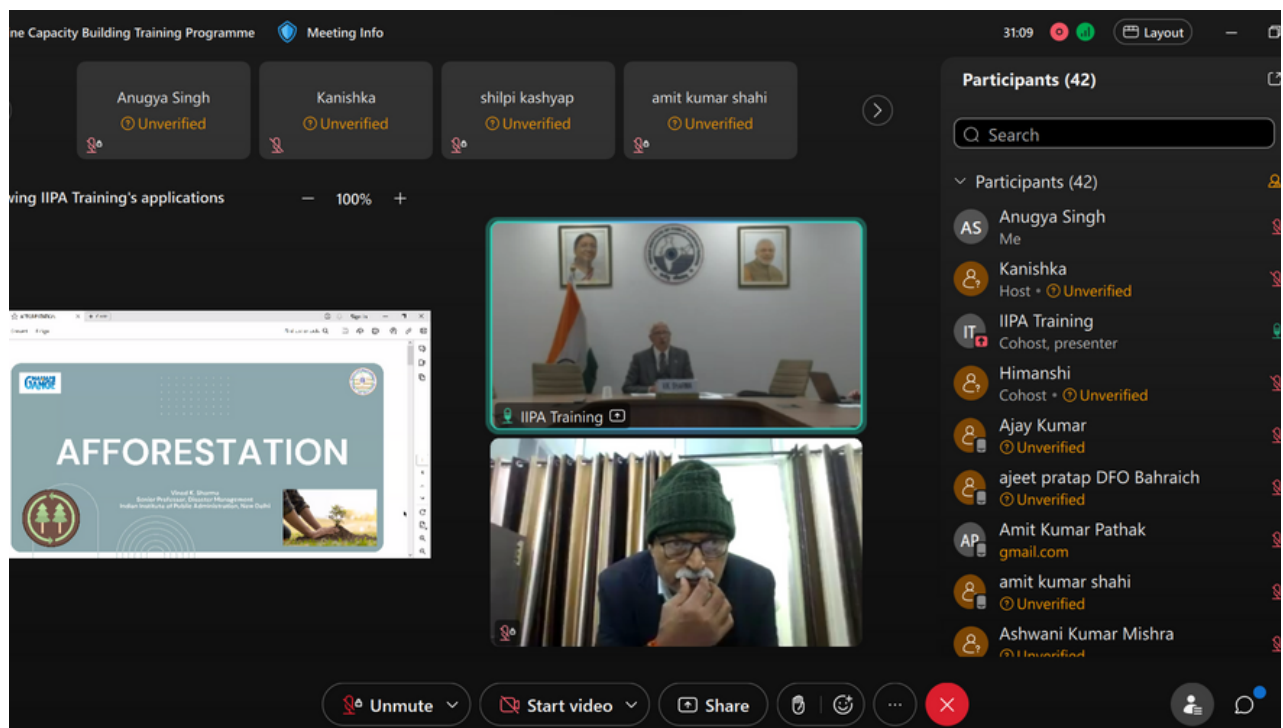


Image 99: Prof. Vinod K. Sharma, Faculty IIPA delivering session on 'Afforestation'

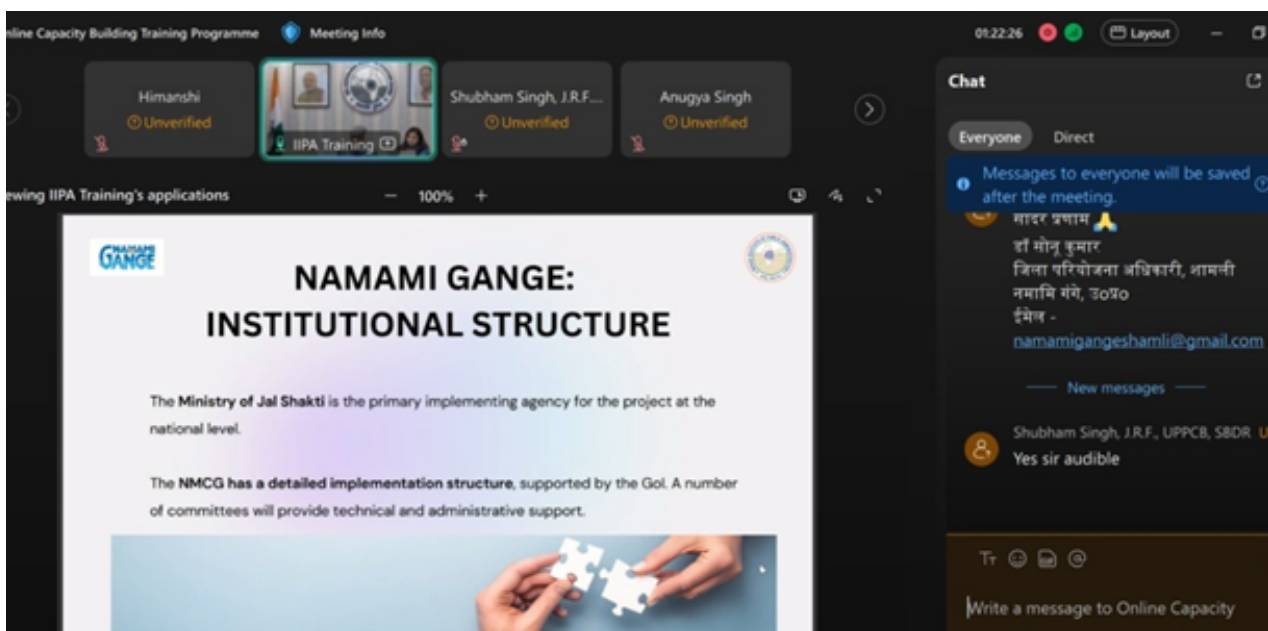


Image 100: Prof. Vinod K. Sharma, Faculty IIPA delivering session on Institutional Framework

During the fourth round of discussions on 'Riverfront Development', Mr. Shashank Bhatt, Landscape Architect, conducted sessions on 'Ecologically Sensitive Riverfront Development', while Shri J. S. Kamyotra, Former Member Secretary, CPCB, delivered a session on 'Procedures for Sampling under the Water Act, 1974 & Environment (Protection) Act, 1986, and Aspects of Industrial Sampling'. The assignment related to riverfront development focused on exploring the potential environmental impacts of development projects, their contribution to flood management and disaster resilience, their effects on the economy and tourism sector, and the necessary infrastructural enhancements to improve connectivity along the riverfront. Feedback forms were provided to gather participants' opinions on both themes.

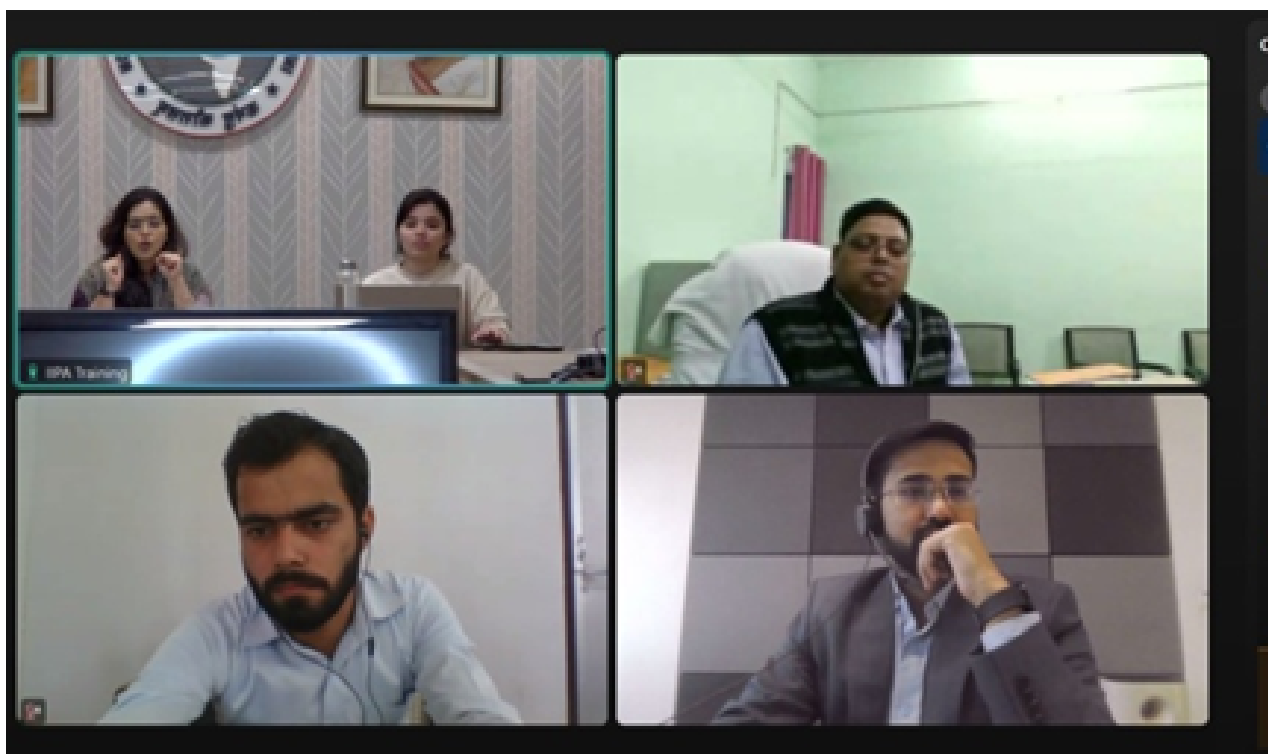


Image 101: Mr. Shashank Bhatt, Landscape Architect delivering session on Ecologically Sensitive Riverfront Development

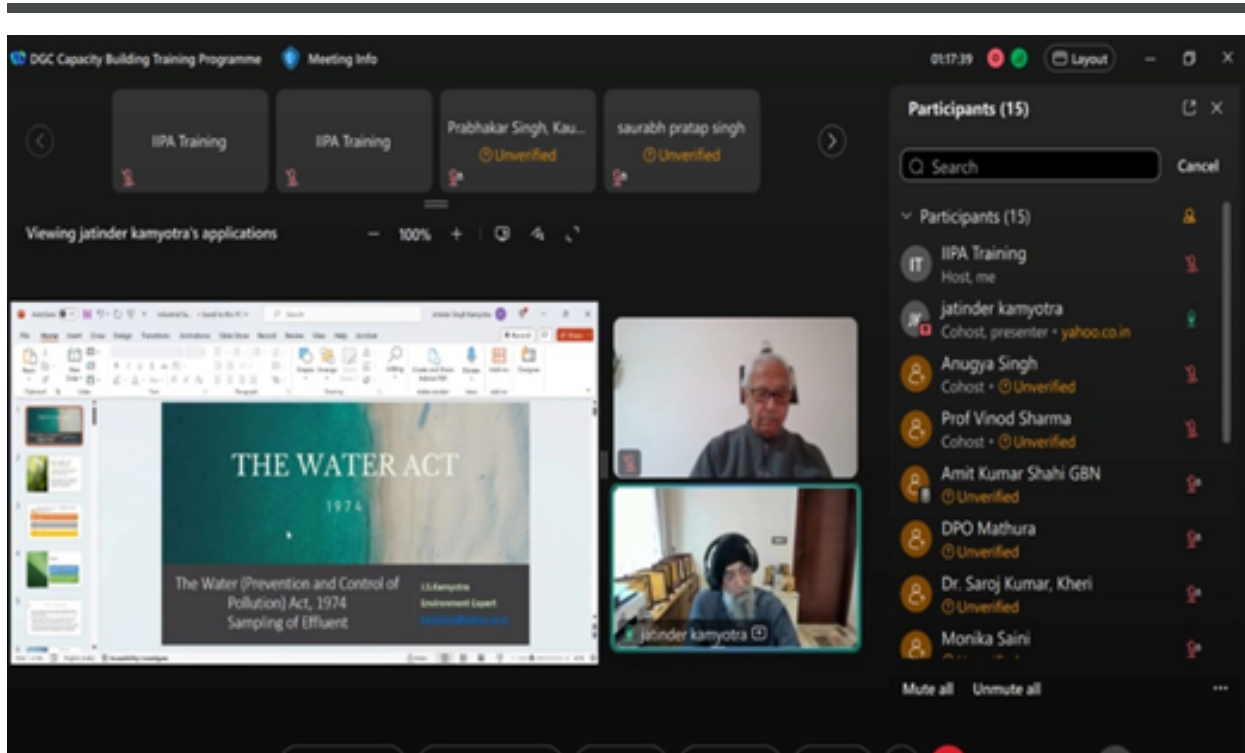


Image 102: Shri J. S. Kamyotra, Former Member Secretary, CPCB delivering session on Industrial effluent monitoring

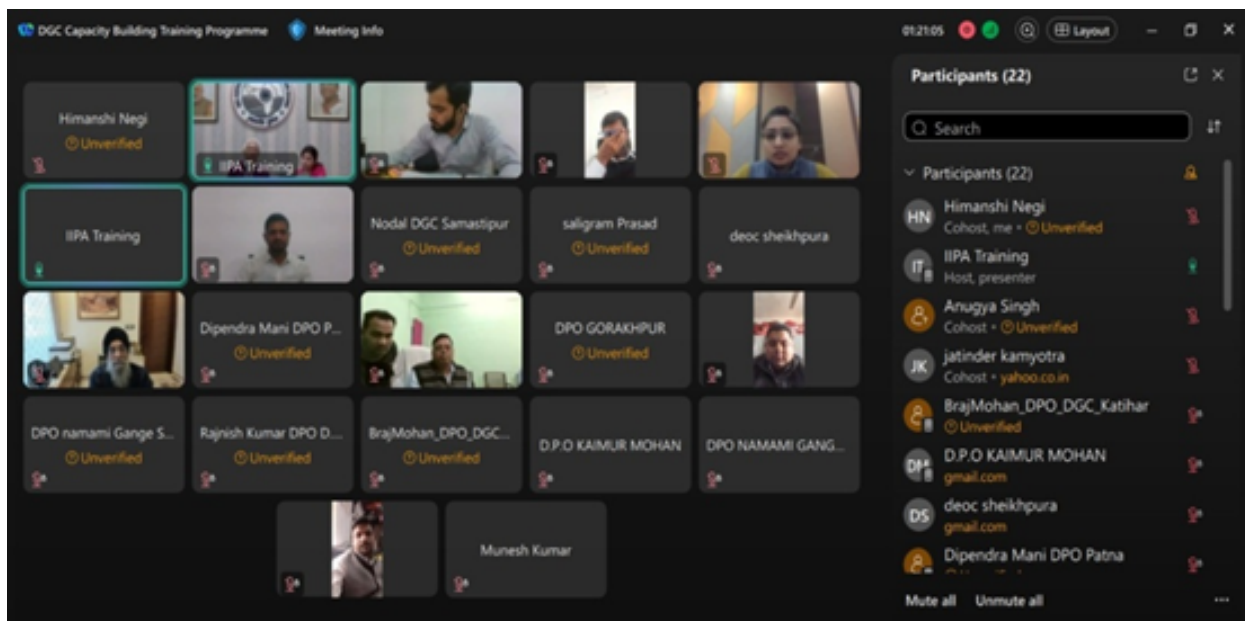


Image 103: DGC members attending the session

During the fifth round of discussions on 'Public Awareness' and 'Biodiversity', Ms. Abantika Mukherjee, PhD Scholar, IIT Kharagpur led the sessions on public awareness, while Dr. Lolita Pradhan, Assistant Professor, Amity University conducted sessions on biodiversity. The discussions on public awareness delved into comprehending public engagement, devising participation strategies, public involvement in water conservation, and global best practices. Meanwhile, the biodiversity sessions focused on topics such as medicinal plants along the Ganges, the river's biodiversity, threats it faces, the significance and process of creating a biodiversity register, and sustainable livelihood through pond aquaculture. The assignment related to public awareness covered topics like activities fostering a connection between people and rivers, the efficacy of communication channels, success stories demonstrating community participation, and the role of technology and social media in public engagement. Feedback forms were distributed to gather participants' opinions on both themes.

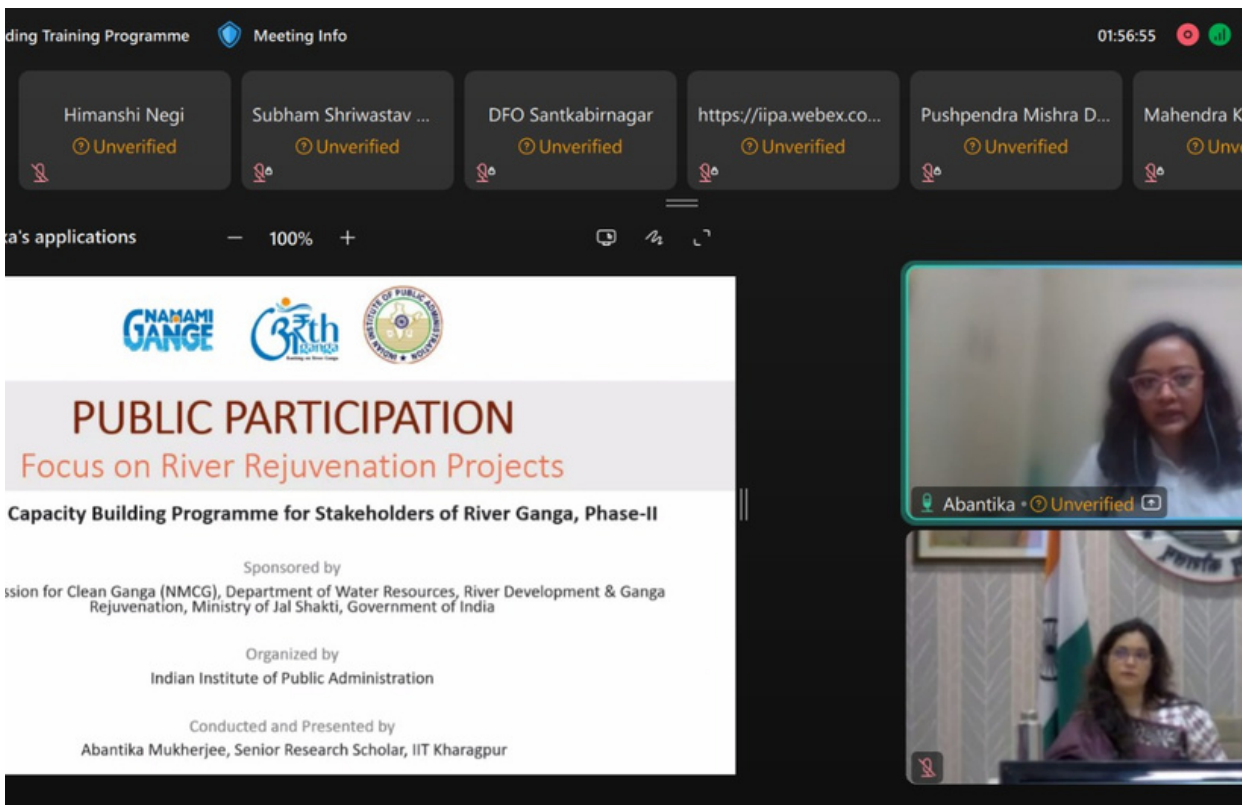


Image 104: Dr. Abantika Mukherjee, IIT Kharagpur delivering session on Public Awareness

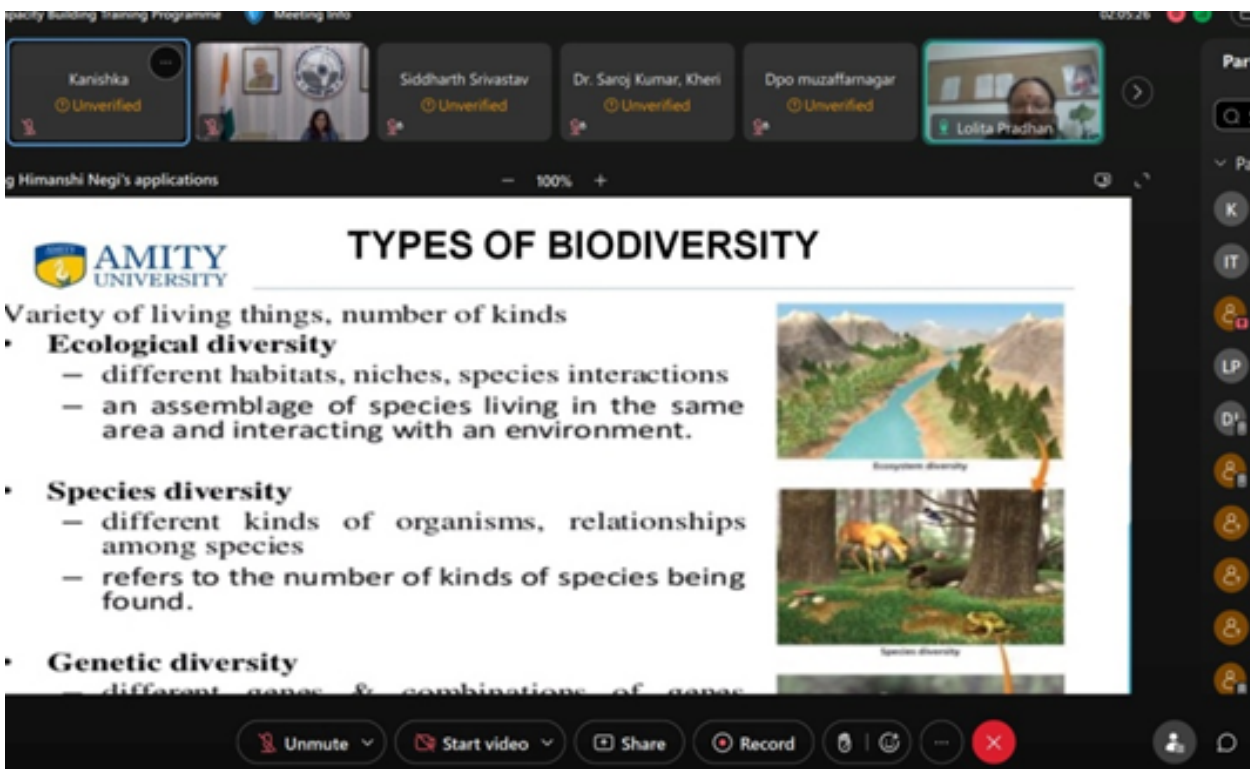


Image 105: Dr. Lolita Pradhan, Assistant Professor, Amity University delivering session on Biodiversity

These capacity building training programmes provided a comprehensive overview of the theme and role within the context of the Ganga basin, empowering participants with valuable knowledge and practical insights. 46 Such trainings were conducted and details of the same are in Annexure V. Questionnaire for DGC training participants are attached in Annexure VI.

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#### 4.6 CAPACITY BUILDING PROGRAMMES: GENERAL MASSES, SPIRITUAL COMMUNITY

A significant milestone was achieved successfully hosting the capacity building programme specifically designed for the *pandas*. This unique event took place at *Shankar Ghat*, Prayagraj, and it bore testament to the commitment of these organizations to engage diverse stakeholders in the conservation of the sacred River Ganga. The programme garnered considerable interest and participation, with over 50 *pandas* in attendance. Their enthusiasm and dedication to the cause of preserving the Ganges were truly commendable. *Pandas* play a pivotal role in the spiritual and cultural aspects of the region, and their involvement in river conservation is of paramount importance. Through this unique capacity-building programme, the organizations are fostering a sense of responsibility and empowerment among an essential group of individuals who have a direct impact on the Ganges' preservation.



Image 106: Participants of Namami Gange Awareness Programme with *pandas* of Prayagraj at Shankar Ghat, Prayagraj



Image 107: Participants of Namami Gange Awareness Programme with *pandas* of Prayagraj at Shankar Ghat, Prayagraj

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Capacity Building Programme focusing on the *Mallah* community residing along the sacred River Ganga. The event garnered participation from 50 key contributors to the local community. During the programme, participants shared profound insights into the challenges faced by the Ganga and the hardships inherent in their livelihoods. Their narratives encompassed issues ranging from pollution to concerns about sustaining their livelihoods. The firsthand accounts provided by these community members were not only invaluable but also served as a powerful source of inspiration. Their stories have fuelled a heightened dedication to the ongoing efforts for the restoration of the Ganges.



*Image 108: Participants of Namami Gange Awareness Programme with Mallahs of Prayagraj taking pledge to keep surroundings clean*



*Image 109: Participants of Namami Gange Awareness Programme with Mallahs of Prayagraj*

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Capacity Building Programme focusing on the *Spiritual Community*



Image 110: Participants of Namami Gange Awareness Programme with Spiritual Community at Shankar Ghat, Prayagraj



Image 111: Participants of Namami Gange Awareness Programme with Spiritual Community at Shankar Ghat, Prayagraj



Image 112: Participants of Namami Gange Awareness Programme with Spiritual Community at Shankar Ghat, Prayagraj

## GANGA PAKHVADA

The launch of the Phase-II (2023-2026) of the project, Indian Institute of Public Administration (IIPA) has celebrated "Ganga Pakhvada". "Ganga Pakhvada" constituted a fortnight-long endeavour strategically aimed at raising awareness about the significance of the Ganges River and the need for its conservation and cleanliness. As part of this initiative, a series of engaging competitions has been organized for school students and teachers, allowing them to participate actively in our mission to protect River Ganga. Additionally, these competitions have provided a platform for creative expression and have empowered the youth to become ambassadors for Ganga cleanliness and preservation.

This title encapsulates the diverse range of competitions and activities within the Ganga Pakhvada initiative, creating a sense of excitement and celebration around the event. There were 05 different categories of competitions for Students and 02 for Master Trainers.

### Competition For Students

- **Melodic Creation:** Compose a melody encapsulating the essence of Rivers
- **Ganges Reverie:** Capture a "Gangesfie" - a selfie in proximity to the Ganga or its tributary
- **Aquatic Affirmation:** Devise resonant slogans that advocate for the conservation of Rivers
- **River Emblem:** Create a logo emblemizing the spirit of Rivers
- **Riverscapes:** Convey the perceptions of Rivers through the medium of paintings or posters

### Competition For Master Trainers

**Rivulet Editorial:** Encapsulate the insights within a 500- word exposition, expounding upon Rivers as a thematic subject

**River Pinnacle:** Share best practices using case studies or school eco-club activities (500 words). A total of 215 entries were received from 80+ institutes across Ganga Basin.

Entries Received	Total
River Pinnacle	2
Rivulet Editorial	88
Melodic Creation	8
River Emblem	33
Riverscapes	40
Ganges Reverie	5
Aquatic Affirmation	31
River Story	8
	<b>215</b>

Figure 16: Competition wise entries received during Ganga Pakhavada



Image 113: Collage of activities by Rishi Kumars and School students associated with Ganga Action Parivar during Ganga Pakhavda week at Parmarth Niketan Ashram, Rishikesh



Image 114: Collage of activities by school students of New Green Field School, Saket, New Delhi and Shree Ram World School, New Delhi

#### 4.7 CAPACITY BUILDING PROGRAMMES: POLICY MAKERS, ULB OFFICERS /PRIS, CIVIL SOCIETY & NGOS

Indian Institute of Public Administration (IIPA) collaborated with *Disha Drishti Sansthan* in Prayagraj to host a significant press conference at the Circuit House in Prayagraj, Uttar Pradesh. The event drew a substantial audience, with around 60-70 attendees, comprising both members of the media and representatives from various non-governmental organizations (NGOs). The focal point of the press conference was Prof. Vinod K. Sharma, Faculty at IIPA, who took the opportunity to address the attendees. His presentation covered the essential objectives and anticipated outcomes of a significant project, namely, the "Blended Capacity Building Programme for Stakeholders of River Ganga, Phase-II". This project holds great promise for addressing critical issues and enhancing the capacity of stakeholders involved in the restoration and preservation of the Ganges River. The press conference served as an important platform for disseminating information, sharing insights, and building awareness around the project's goals and its vital role in the ongoing efforts to protect the River Ganga.



Image 115: Prof. Vinod K. Sharma addressing media during press conference at Circuit House, Prayagraj



Image 116: Mr. R.P. Mishra and Ms. Kanishka Sharma with participants of press conference at Circuit House, Prayagraj



Image 117: Ms. Kanishka Sharma, RO, IIPA, Prof. Vinod K. Sharma and Mr. Vinod Mishra addressing media professionals during press conference at Circuit House, Prayagraj



Image 118: Ms. Kanishka Sharma, RO, IIPA, Prof. Vinod K. Sharma and Mr. Vinod Mishra addressing media professionals during press conference at Circuit House, Prayagraj



Image 119: Media professionals and other participants during press conference at Circuit House, Prayagraj

In a collaborative effort between the Indian Institute of Public Administration (IIPA) and Kamla Gram Vikas Sansthan, Prayagraj, a significant program targeting Non-Governmental Organizations (NGOs) was orchestrated on March 05, 2024. Hosted at the State Institute of Educational Management and Training (SIEMAT) in Prayagraj, Uttar Pradesh, this event was held within the framework of the "Blended Capacity Building Programme for Stakeholders of River Ganga Phase-II" initiative. The program served as a platform for fostering dialogue and knowledge exchange among stakeholders invested in the sustainable management of the River Ganga.

The distinguished presence of Mr. Dinesh Singh, Director of SIEMAT, Mr. Kunwar Pankaj, ADM, PCS, and Dr. Shlesh Gautam, Assistant Professor at Allahabad University, graced the occasion, emphasizing the significance and collaborative spirit of the initiative. Their attendance underscored the commitment of governmental and academic institutions to synergize efforts with NGOs for the holistic development of the Ganga basin.



Image 120: Dr. Shyamli Singh, Faculty IIPA presenting memento to Dr. Dinesh Singh, Director of SIEMAT during the programme



Image 121: Dr. Shyamli Singh, Faculty, IIPA and Dr. Dinesh Singh, Director of SIEMAT with participants of capacity building programme for NGOs of Prayagraj

Approximately 25 stakeholders from various NGOs participated in the program, contributing diverse perspectives and experiences to enrich the discussions. Dr. Shyamli Singh, a renowned authority in environmental studies, shared invaluable insights during the event, focusing particularly on the majestic Ganga and its associated livelihood aspects. Dr. Singh's expertise provided attendees with a deeper understanding of the interplay between the Ganga's ecosystem and the livelihoods dependent upon it, emphasizing the importance of sustainable practices and community engagement in ensuring the river's well-being.

The program served as a catalyst for meaningful collaborations and initiatives aimed at promoting environmental conservation and socio-economic development in the Ganga basin. The insights shared and connections forged during the event are expected to catalyze further actions and initiatives by NGOs and other stakeholders, contributing to the collective effort towards the preservation and rejuvenation of the River Ganga.



Image 122: Dr. Dinesh Singh, Director of SIEMAT addressing participants of capacity building programme for NGOs of Prayagraj



Image 123: Dr. Shyamli Singh, Faculty, IIPA and Dr. Dinesh Singh, Director of SIEMAT interacting with participants of capacity building programme for NGOs of Prayagraj



Image 124: DM Varanasi, Shri S.Rajalingam addressing participants of Capacity Building Programme for Civil Society at Circuit House, Varanasi



Image 125: Director General IIPA, Shri S.N. Tripathi, DM Varanasi, Shri S.Rajalingam, Shri Himanshu Nagpal, Chief Development Officer, Varanasi and Dr. Shyamli Singh, Faculty IIPA during Capacity Building Programme for Civil Society at Circuit House, Varanasi



Image 126: Participants of Capacity Building Programme for Civil Society at Circuit House, Varanasi



## CHAPTER 5

Mahatma Gandhi Setu, Patna

# FEEDBACKS

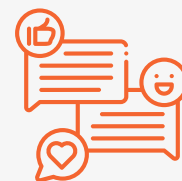


Feedback is the information provided by the learner about his or her experience in relation to learning objectives or outcomes. It is a valuable addition in a capacity building programme. It provides you with a detailed understanding of what your learners are doing and an in-depth view of your training course without requiring you to attend the sessions yourself. Each training programme had feedback forms.

We also received e-mails and messages on the success of the programme.

Feedback for the training programme and sessions is required;

- To assess the gaps in provided services
- To formulate better decisions to improve and increase performance
- To upgrade resources/content/services



## 5.1 FEEDBACK FROM SCHOOL STUDENTS

We collected feedback from school students through Google Form and our Learning Management System (LMS), incorporating a variety of questions related to the training. The Google Form allowed us to create a customized questionnaire that covered different aspects of the Capacity Building Programme. Students were able to provide their thoughts, suggestions, and experiences regarding the Capacity Building Programme. By utilizing Google Form's diverse question formats, such as multiple-choice, rating scales, and open-ended responses, we ensured a comprehensive and insightful feedback collection process. This enabled us to gain a deep understanding of the students' perspectives and identify areas of improvement or further development in the Capacity Building Programme. The digital nature of Google Form made it convenient for students to participate and submit their feedback, promoting active student engagement and collaboration in shaping the Capacity Building Programme. Feedback form for school students is attached as Annexure VII.

Response collected from the School Students through Learning Management System (LMS)

Future view of attending more such Capacity Building Programme sessions

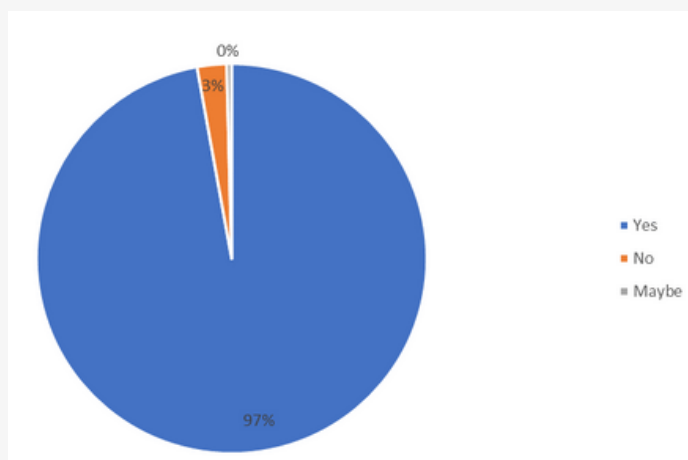


Figure 17: Future view to attend more such Capacity Building Programme sessions

Response collected from School Students through Google Form

View on Capacity Building Programme helped towards Ganga Awareness

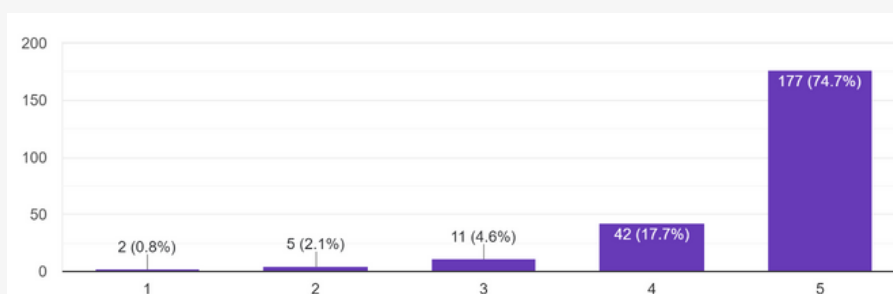


Figure 18: View on Capacity Building Programme helped towards Ganga Awareness

## 5.2 FEEDBACK FROM MASTER TRAINERS



Learning Management System (LMS), incorporating a range of diverse questions that focused on different aspects of the training. Utilizing the versatile features of Google Form, we designed a customized questionnaire to gather their valuable insights, suggestions, and experiences related to the Capacity Building Programme. The master trainers were able to provide feedback on various elements such as content, delivery methods, effectiveness, and overall impact of the training. By leveraging the digital platform, we ensured a seamless and efficient feedback collection process, allowing the master trainers to share their perspectives conveniently. Analyzing the feedback received through Google Form enabled us to identify areas of strength, areas for improvement, and further opportunities to enhance the Capacity Building Programme, ultimately contributing to its continuous growth and effectiveness. Feedback form for master trainers is attached as Annexure VIII.

Response collected from Master Trainer through Google Form

My knowledge and skills increased as a result of this course

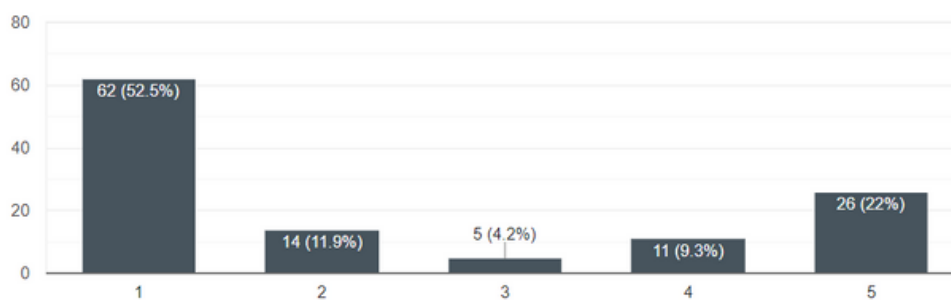


Figure 19: My knowledge and skills increased as a result of this course

## 5.3 FEEDBACK FROM COLLEGE STUDENTS

We collected feedback from college students through our Learning Management System (LMS), incorporating a diverse range of questions that focused on different aspects of the training. Using the flexible features of LMS, we designed a customized questionnaire to gather their valuable insights, suggestions, and experiences related to the Capacity Building Programme. The college students were able to provide feedback on various elements such as the relevance of the Capacity Building Programme to their studies, the effectiveness of the Capacity Building Programme methods, the applicability of the content, and their overall satisfaction with the Capacity Building Programme experience. By utilizing the digital platform, we ensured a convenient and accessible feedback collection process, allowing the college students to share their perspectives effortlessly.



Response collected from Master Trainer through Google Form

Would you disseminate the knowledge what you have learnt in your role?

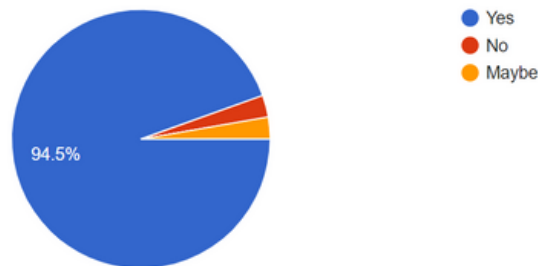


Figure 20: Disseminate the knowledge what you have learnt in your role

#### 5.4 FEEDBACK FROM DGC MEMBERS

Utilizing the versatile features of Google Form, we designed a customized questionnaire to gather their valuable insights, suggestions, and experiences related to the Capacity Building Programme. The DGC members were able to provide feedback on various elements such as content, delivery methods, effectiveness, and overall impact of the training. By leveraging the digital platform, we ensured a seamless and efficient feedback collection process, allowing the DGC members to share their perspectives conveniently. Analyzing the feedback received through Google Form enabled us to identify areas of strength, areas for improvement, and further opportunities to enhance the Capacity Building Programme, ultimately contributing to its continuous growth and effectiveness.

Response collected from DGC member through Google Form

Are there any public awareness or education campaigns focused on waste management and environmental responsibility?

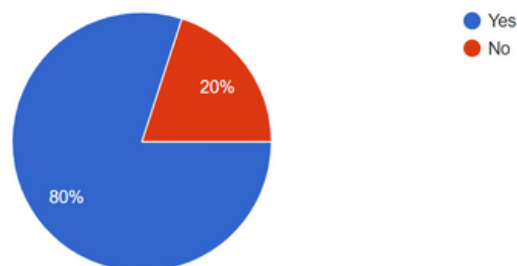
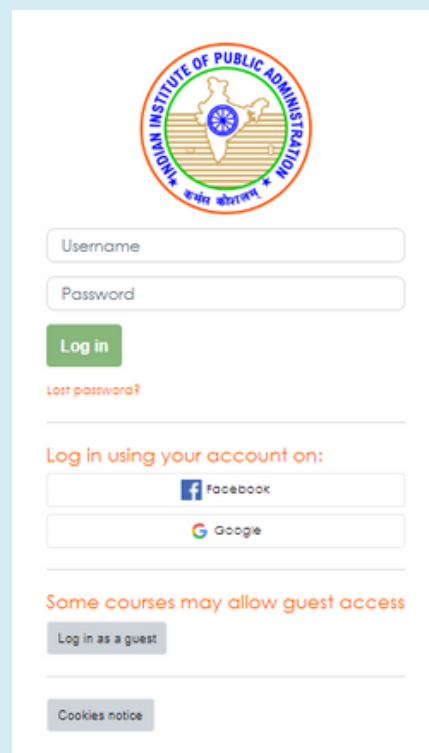


Figure 21: Public awareness or education campaigns focused on waste management and environmental responsibility

## CHAPTER 6

# LEARNING MANAGEMENT SYSTEM

A learning management system (LMS) is a web-based education hub that offers a comprehensive and important set of capabilities to support educational activities such as classroom instruction, distant education, and continuing education. Trainers desire a simple approach to develop content for their classes and manage their resources, data, and learner audiences in today's technology-driven world. Additionally, they must give the best learning experiences possible to adequately prepare pupils for the future. An LMS may significantly improve students' learning experiences and teaching activities, regardless of whether they are instructor-led, self-paced, or incorporate blended learning and microlearning. Namami Gange landing page hyperlink has been linked with official IIPAs homepage (<https://www.iipa.org.in/cms/public/>). The *Namami Gange* webpage has been further hyperlinked with IIPAs specified web domain (<https://iipa.education/>) for its learning management system that makes it easier to navigate inside the LMS content. The steps to access the capacity building programme content is attached as Annexure IX.



Indian Institute of Public Administration

Username

Password

Log in

[Lost password?](#)

Log in using your account on:

[Facebook](#)

[Google](#)

Some courses may allow guest access

[Log in as a guest](#)

[Cookies notice](#)

Image 127: Screenshot of LMS portal

MOODLE: One of the reasons Moodle is the world's top learning management system is that it is backed by a global developer community. A significant advantage of open-source software is that the code is transparent. This means that developers from any country can access and modify the code to make it more secure. The primary reason IIPA chose Moodle for *Namami Gange* Programme is that it is highly adaptable, extremely adaptable, and feature rich. Apart from the ability to edit Moodle's open-source code, there are hundreds of Moodle plugins that enable you to customise Moodle's behaviour.

The training programme has a wide variety of stakeholders and IIPA's MOODLE can cater different sets and subsets of audiences.

The system encompasses the entire range of educational institutes and industry professionals:

- Gamifying Your E Learning
- Individual Learning Plans
- Assessing Your eLearning: Questionnaire
- Ticking Who's Present: Attendance
- Engaging You Again: Reengagement
- Custom Certificate
- Beautifying Your Content Arrangement: Tiles Format

## LMS IS USED FOR

# MANAGING EDUCATIONAL ACTIVITY



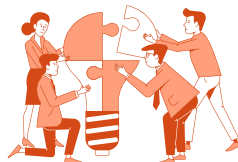
Creating & Delivering Educational Content



Assessing Students & Analyzing their results



Tracking Student Progress



Collaborating on Projects



Making Learning more interactive & engaging

Image 128: Key Features of LMS Platform



## CHAPTER 7

# RESEARCH STUDIES



The Indian Institute of Public Administration (IIPA) is conducting research initiative centered on Harmonizing Climate Change, Sustainable Development Goals, Artificial Intelligence, and Water Resources Management in the River Ganga Basin. This endeavor seeks to confront critical environmental issues while igniting sustainable development efforts across the region. Aligned with this overarching objective, our research will embark on an exploration of various subthemes, each providing invaluable insights into the intricate interplay of environmental, social, and technological dynamics. These subthemes encompass a diverse array of topics, including innovative approaches for mitigating and adapting to climate change impacts, the integration of Sustainable Development Goals (SDGs) into climate action plans, leveraging artificial intelligence to bolster climate resilience in water management, and analyzing policy frameworks to ensure sustainable water resource management amidst changing climatic conditions. Additionally, we will delve into empowering local communities through capacity-building initiatives, exploring emerging technologies for water conservation and quality monitoring, addressing equity and social justice concerns in access to clean water, and assessing the implications of climate change on agriculture and livelihoods. Furthermore, our research will advocate for cross-sector collaboration in sustainable water governance and envision AI-driven solutions to anticipate and mitigate climate-induced water challenges in India's future. Through a commitment to rigorous research, interdisciplinary collaboration, and active stakeholder engagement, IIPA aims to make a substantial contribution to advancing knowledge and formulating evidence-based policies that foster climate resilience and sustainable water management in the River Ganga Basin.



## CHAPTER 8

# WAY AHEAD



As we move into the second year of the project, our trajectory is marked by a comprehensive plan to amplify impact across diverse sectors and stakeholders. Continuing our commitment to education, we are set to conduct 30 school training programmes, fostering environmental consciousness among the youth. Empowering leaders for sustainable change, we will organize 30+1 master trainer programmes, equipping them with the skills to catalyze transformation in their communities. Bridging academia with practical solutions, we aim to engage 5 community-based programmes, fostering collaboration between academia, students, and the scientific community. Extending our reach to the grassroots, we will collaborate with KVKs, agriculture workers, and extension services, implementing targeted capacity building programmes. Innovation lies at the heart of progress. Through a dedicated workshop, we will facilitate immersive learning experiences for industry professionals, driving forward-thinking solutions. Building upon community engagement, we will conduct 20 capacity-building programmes targeting the general masses and spiritual communities, fostering a sense of collective responsibility towards environmental stewardship. Advocating for policy reform, we will conduct 3 capacity-building programmes tailored for policymakers, ULB officers/PRIs, and civil society organizations. Additionally, we aim to engage 20 district Ganga committees, Ganga Prahari, Ganga Doots, and Ganga Mitra, empowering them as custodians of our waterways. This strategic roadmap sets the course for our collective endeavor towards a cleaner, greener, and more sustainable future. Together, let's embark on this journey towards positive change.

## CHAPTER 9

# RESOURCE DIRECTORY



The Resource Directory's (RD) goal is to disseminate specialized resources that aid in the development of sustainable and mature data archives as well as the development of new concepts and features within current data archives. The RD is a curated inventory of current resources that collects, selects, and reviews information on pertinent papers, training materials, tools, and support services. IIPA Team ventured on locating resource persons who would add important knowledge and value to the training course. Since the training covered schools and colleges from the belt of Ganga, the engagement was diverse and resource persons engaged were plenty. The information and opinions received from them were used to ensure effective training.

The research team also established contact with various industries during their exposure visit. Surveys were conducted with local people to understand the situation and communicate the information during the training. By integrating their own experience, District Urban Development Agency and District magistrate's secretary played the role of resource persons and helped in to getting nominations and their contacts for Urban local body officers training programme. Similarly, School and college teachers or coordinators were engaged during school and college capacity building programme to build a knowledge sharing platform and helped in achieving the intended objectives. Mutual collaboration of human expertise was created during the photo documentation visit as well in which the team engaged with the experts and locals to get a hold of the nexus of Ganga Rejuvenation. The contact details of the resource person have been recorded in Annexure X.

# CHAPTER 10

# PARTNERS & COLLABORATORS



**Th. Har Narayan Singh**  
Post Graduate College  
(KARAILABAGH Prayagraj)



**Shyama Prasad Mukherjee**  
Govt. Post Graduate College  
(A Constituent Post Graduate College of University of Allahabad)

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# ANNEXURES

(attached separately)



- ANNEXURE – I Minutes of Meeting of First Project Steering Committee
- ANNEXURE – II Minutes of Meeting of Second Project Steering Committee
- ANNEXURE – III List of Capacity Building Programmes: School Students
- ANNEXURE – IV List of Capacity Building Programmes: Master Trainers
- ANNEXURE – V List of Capacity Building Programmes: District Ganga Committee (DGC)
- ANNEXURE – VI Questionnaire for District Ganga Committee Training Participants
- ANNEXURE – VII Feedback Form School Students
- ANNEXURE – VIII Feedback Form Master Trainers
- ANNEXURE – IX Steps to access the Learning Management System
- ANNEXURE – X Resource Directory

## **Additional Annexures**

- ANNEXURE-XI Newspaper Articles
- ANNEXURE-XII Poster Winners





Indian Institute of Public Administration  
New Delhi

Indraprastha Estate, Ring Road, Mahatma Gandhi Marg,  
New Delhi 110002

Website- [www.iipa.org.in](http://www.iipa.org.in)

