

IPCA Centre for Waste Management and Research



ANNUAL REPORT 2024

Director's Message



Arun Kansal, PhD

Director, ICWMR, TERI SAS

I am pleased to present this year's annual report for the ICWMR. Over the past year, our Centre has played a crucial role in sustainable waste management and its environmental linkages through innovative research, capacity-building programs, and policy advocacy. We made significant progress in developing practical solutions to help industries comply with new rules like Green Credit, Eco-mark, Water neutrality, and the Extended Producer Responsibility (EPR) policy updates. We focus on assisting industries in meeting these requirements and leveraging the opportunities for sustainable business practices these regulations offer.

We developed a decision-support algorithm for industries, agricultural practitioners, and urban planners to evaluate their water footprint in real-time. We also conducted a policy analysis of water credit trading mechanisms and the associated financial ecosystem. We examined the bio-CNG project in Indore City, identifying barriers and opportunities for replication in other cities. Additionally, we performed carbon stock assessments in tree plantation programs and worked on nature-based solutions. Our next objective is to develop tools to assess Scope 3 carbon emissions and ecological footprints to support comprehensive Eco-marking of products and mission LiFE.

Our Centre has focused on revitalising synergies between health and waste management initiatives. We organized an international conference on the theme with support from IDS USA, Karlstad University, Sweden, and WHO. Additionally, we're serving as an independent observer of Delhi's public-private partnership for waste management. Our experience with PPPs has enriched us in advocating better partnership models for urban planners. We will soon be publishing policy papers on these topics.

Waste is a significant form of pollution that requires decentralized management and a large workforce, particularly from micro, small, and medium enterprises. However, academia has not yet succeeded in equipping youth with the skills and empowerment needed to become entrepreneurs in the waste management supply

chain, which is critical for achieving a circular economy. Our Centre has developed an entrepreneurship program to fill this gap, and we are proud that several of our alumni have launched successful businesses, creating job opportunities for many others. A document highlighting their success stories will be published soon.

Our SkiLLS series provides specialized training for mid-career professionals to update their knowledge and address job insecurities. This year, over 300 youths have benefited from our subsidized capacity-building programs. Education and knowledge sharing are central to our mission, and they include workshops, publications, webinars, and blogs promoting sustainable practices within the global scientific community and practitioners.

Collaboration has been a cornerstone of our success. By partnering with industry leaders, NGOs, urban local bodies, and policymakers, we have effectively connected research with practical implementation, strengthening our projects and addressing real-world challenges. Since its establishment, the Centre has been financially self-sustainable, meeting its expenses and offering subsidized capacity-building programs for youth. I want to express my heartfelt gratitude to our dedicated team, stakeholders, and partners for their belief, support and contributions.

We are set to expand our research and offer innovative skill-based courses for youth, utilizing the opportunities from the Academic Bank of Credits as per the NEP. Also, we aim to expand our physical presence in India and abroad. To achieve our goals and foster growth, we have organized our activities into four thematic areas: ASSESS (Assessment and Simulation of Suitable Environment Strategies for Sustainability); SkiLLS (Skilling Learning and Leveraging for Sustainability); STRIDE (Sustainable Trade and Resilient Industrial Development with Environment); and CAP (Communication, Archiving and Promotion). We have constituted an advisory committee for the Centre comprised of distinguished experts who will guide us in reaching our goal.

Thank you once again! **Wishing everyone a blessed and prosperous New Year 2025!**



Prof. Arun Kansal
TERI School of Advanced Studies

Patron's Message



Ashish Jain

Founder Director, IPCA

The Centre of Excellence at TERI School of Advanced Studies was conceived as an initiative to conduct data driven research, provide sustainable solutions to government and industries, and build the capacity of people/ stakeholders involved in the field of waste management and environment.

It gives me immense pleasure to see the growth of ICWMR in just two years of its inception. It has established collaborations with reputed national and international organizations. The research and consultancy projects have been undertaken with systematic and scientific approach. I have gone through the reports of various projects and would like to applaud the team for producing world class reports. The training and capacity-building programmes of the Centre have carved a niche in the field of sustainability, especially in the waste management sector.

I would like to congratulate the team members for their success and thank them for their contribution in achieving the objectives of the Centre. The future is bright and I believe the Centre will have many more collaborations and will undertake impactful work in the years to come.

Best wishes,

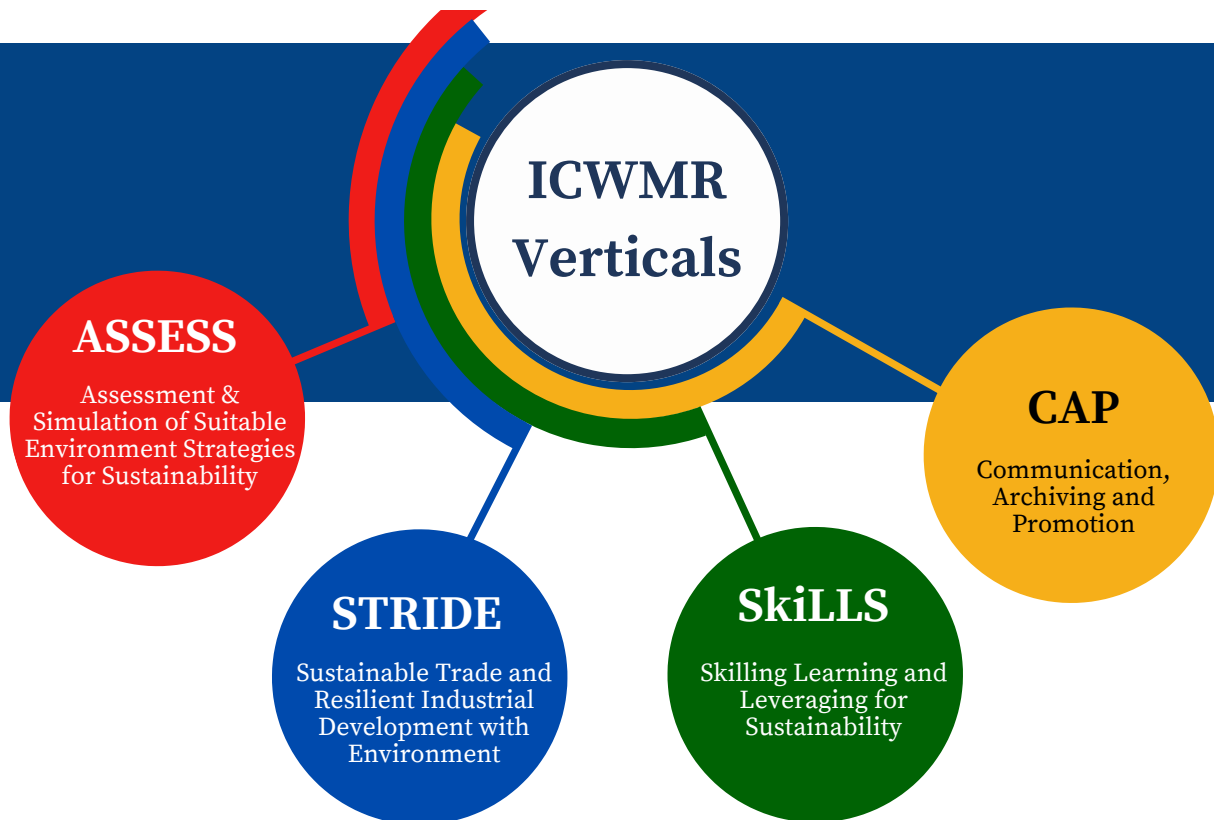
A handwritten signature in black ink that reads "Ashish Jain".

Ashish Jain

About ICWMR

IPCA Centre for Waste Management and Research (ICWMR) is a collaboration of **Indian Pollution Control Association (IPCA)** and **TERI School of Advanced Studies (TERI SAS)**, established in 2022.

It offers an autonomous and neutral platform to wide ranging stakeholders to discuss and agree for joint action; provide evidence-based inputs to Government, Industries, and Policy makers on scientific waste management, climate change and environment; and develop synergies with important actors in the field.



- ◆ Data driven research that facilitates decision making process of stakeholders
- ◆ Ecological, water and carbon footprint assessment
- ◆ Water resources and waste management
- ◆ Policy research and advocacy
- ◆ Carbon finance related to waste management



- ◆ Environment auditing
- ◆ Consultancy services for audit, BRSR, green credit, and other regulatory reporting
- ◆ Consultancy for nature-based solutions
- ◆ Social and environmental impact assessment
- ◆ Training and capacity building

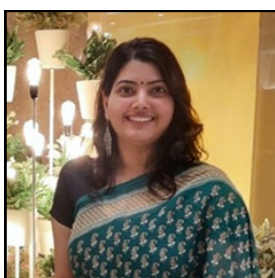
Our Team



Prof. Arun Kansal

Director

Expertise: Urban environment management, Water and used water management, Treatment technologies, Sanitation, and Solid waste management



Garima Kaushik

Head and Scientist C

Expertise: Waste management, Entrepreneurship development, Policy frameworks on WM, Research, Project management, Stakeholder management



Dr Atul Kumar

Scientist B

Expertise: Solid waste management, Life cycle assessment, Prediction modelling and socio-economic analysis, Carbon footprint assessment



Dr Divya Soman

Scientist B

Expertise: Nature-based solutions, Economic valuation of ecosystem services, Waste management, Bioremediation of municipal sewage water, Environmental accounting, and Green GDP



Anugya Singh

Manager

Expertise: Stakeholder communication, Documentation, Training and Capacity building, and Research

Our Affiliated Team



Ashish Jain

Founder Director, IPCA

Expertise: Developing sustainable supply chain of waste, recycling of plastic waste, composting of organic waste, Introduction of new technologies for waste minimization, community engagement, and EPR



Ajay Garg

Secretary, IPCA

Expertise: Crafting operational strategies and developing organizational infrastructure, Developing supply chain of solid waste management, Stakeholder management, and EPR



Dr Radha Goyal

Deputy Director, IPCA

Expertise: Air quality monitoring and management, Decentralized solid waste management systems, liaison with stakeholders on best environmental practices and compliance, CSR compliance



Dr. Gopal Sarangi

Associate Professor, TERI SAS

Expertise: Energy market and regulation, Energy, society and public policy, Governance and institutional analysis of energy and environmental interactions



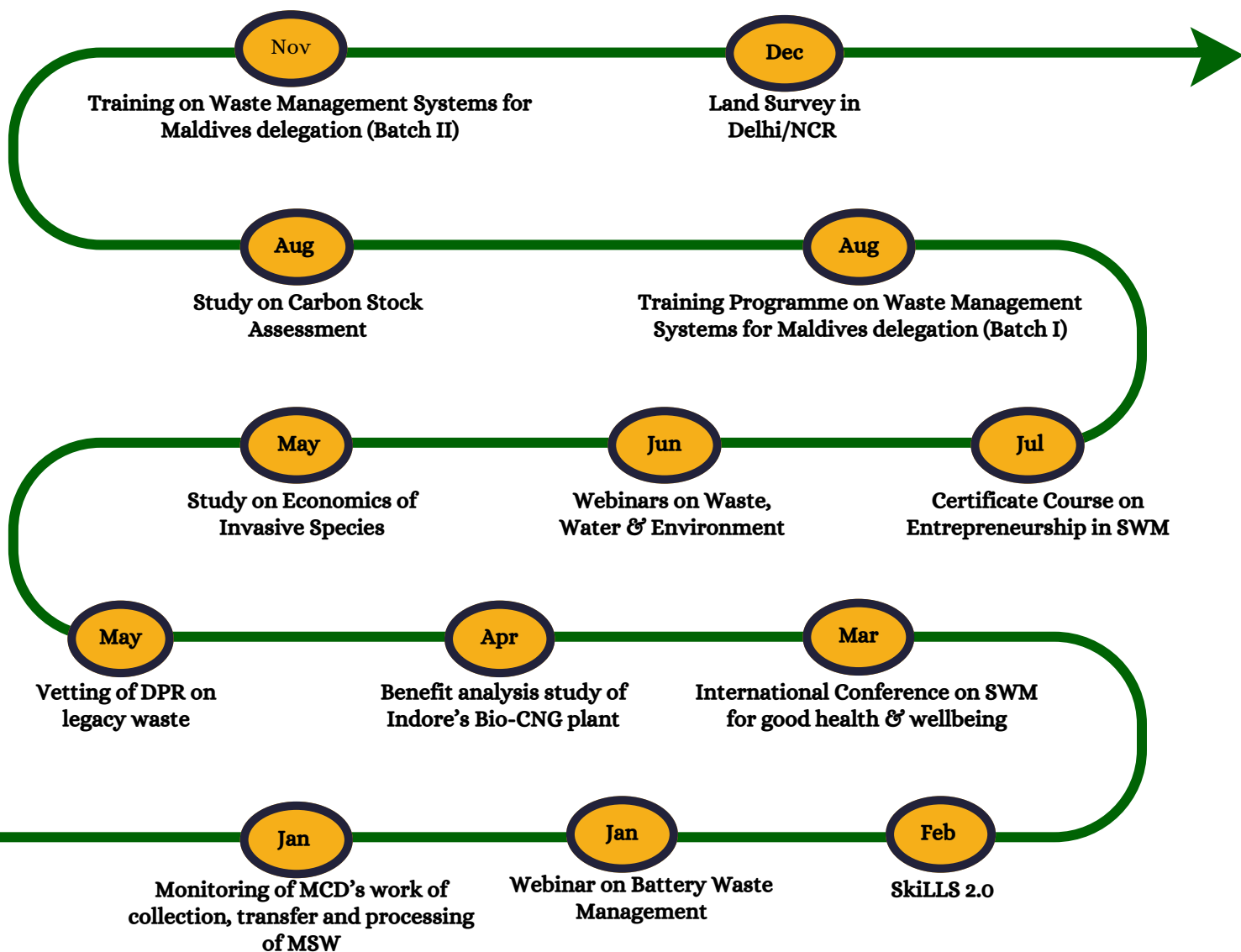
Dr. Ranjana Ray Chaudhuri

Associate Professor, TERI SAS

Expertise: Urban water management, Water and wastewater systems, Water audit, water efficiency and water budget plans, Statistical modelling of extreme events, and Agriculture water management

Year at a Glance 2024

9 Partners & Supporters 13 Projects 1500+ Direct Outreach



Membership

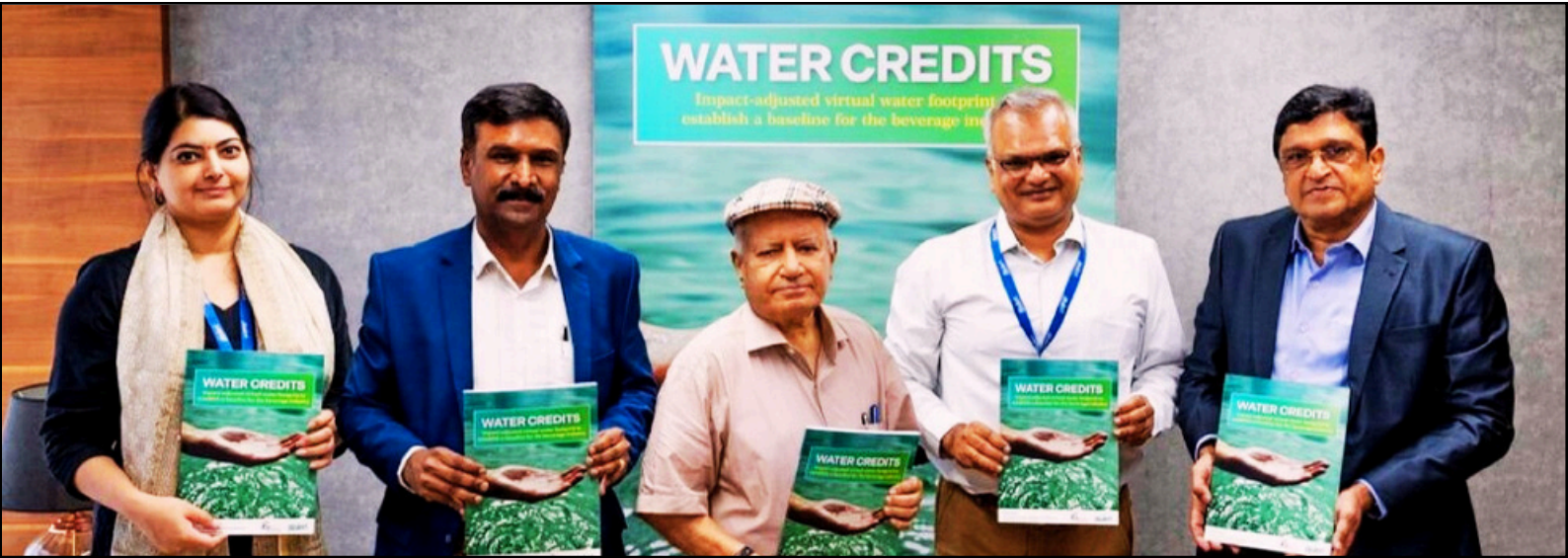
Dec Waste to Energy Research and Technology

Research & Consultancy

Estimation of Impact adjusted virtual water footprint of production units for water credits

Case study of a beverage industry

Bisleri International Private Limited | July 2023 - May 2024



The study was an industry-academic collaborative research conducted by Bisleri International Pvt. Limited (BIPL) and ICWMR, TERI SAS. It presented policy, regulatory, and legal aspects of water credits and trading, and explained the methodology for estimating watershed impact-based water footprints. Two production units were studied, and footprint estimations were made for the bottling industry for the first time.

The report was released by Mr Ramesh Chauhan, Chairman, BIPL in Mumbai on 8th May 2024.

The toolkit developed as part of the study has set water efficiency benchmarks for similar industries, and can be used to compare the water performance of the unit with that of its peer group in the same sector.

“ We have associated with (ICWMR) TERI SAS to develop a baseline for industry to establish the concept of water credit. As the next step, we would be sharing the findings of the report with the government of India, which will go into establishing the concept water credit in the future and drive the conservation of this precious resource called water. ”

Mr Angelo George, CEO, BIPL

Research & Consultancy

End to end assessment of benefits to communities from portfolio company operations and footprint

EverSource Capital | April - September 2024

The project captured stakeholders involved in the functioning of Asia's largest bio-CNG plant in Indore. The benefits of the plant on communities were derived through interviews with key stakeholders and community survey in 85 wards of Indore city.

The findings of the study will help other industries aspiring to replicate the bio-CNG model in other cities.



Monitoring the private partnership project of municipal solid waste in designated zones of Delhi

MCD & DMSWSL | January 2024 - June 2025

As part of the project, the work of collection, transportation, treatment, processing and final disposal of MSW in five zones-City SP, Rohini, Keshavpuram, Narela and Civil Lines of MCD is monitored on a daily basis.

The monitoring is done based on the pre-decided indicators. Recommendations for improving the efficiency and impact of work are provided on regular basis.



We are thankful to our partners who joined us in our vision to create a sustainable future through different projects, research work and, training and capacity-building programmes. At the Centre, we are committed to exploring emerging areas in waste management, driving innovation, encouraging entrepreneurial mindset, and strengthening the capacity of stakeholders to manage waste scientifically.

Garima Kaushik, Head, ICWMR

Research & Consultancy

Evaluation of DPR for Legacy Waste Management at Kurbathang in Kargil, Ladakh

Directorate of Urban Local Bodies, Ladakh | May 2024



The DPR for the management of the legacy waste in Ladakh was evaluated critically, and major observations/remarks were provided for further improvement of the DPR. The recommendations were accepted by the district administration and incorporated in the DPR.

Carbon Stock Assessment of Green Area Developed in Rudrapur

Perfetti Van Melle | August 2024 - September 2024



The study was undertaken for the *Monoon longifolium* (False Ashoka) planted as green belt in the SIIDCUL industrial area in Rudrapur, Uttarakhand by Perfetti Van Melle. Various pools of carbon like above ground, below ground biomass and soil were analyzed to estimate the total carbon stored in the ecosystem. The health status of the green belt was analyzed. Suggestions for maintenance and improvement of the site were also provided.

“

By investing in nature, we not only reduce our environmental and carbon footprint, but also build a resilient future for both business and the environment.

Dr Divya Soman, Scientist B, ICWMR

”

Research & Consultancy

Economics of invasive species & sustainable livelihood creation utilizing water hyacinth in Vembanad Kol wetland

The research project uses a multidisciplinary approach involving economics, governance and institutional approach to promote sustainable livelihood by utilizing the water hyacinth in the Vembanad Kol wetlands of Kerala. The study focuses on revival of the degraded wetland through developing a green entrepreneurship with the involvement of the Kudumbasree mission in Kerala.



Measurement and delineation of 5.668 Acre land at Narela-Bawana MSW processing facility

MCD and DMSWSL | December 2024

In this project, 5.668 acres of land was measured and delineated from the existing land capacity in Narela-Bawana MSW processing facility, jointly owned by MCD and DMSWSL, using Differential Global Positioning System (DGPS) and Electronic Total Station methods. Simultaneously, the marking was done on the ground with two different sets of options for the same area as per the consent of both parties.



“Sustainable waste management is the art of turning challenges into opportunities by minimizing waste, maximizing resource recovery, and building a cleaner, more resilient future for all.

Dr Atul Kumar, Scientist B, ICWMR”

Training & Capacity Building

SkiLLS 2.0 Skilling Learning and Leveraging on Saturday

Fee based | January-February 2024



SkiLLS is a unique programme that offers training on valuable, application-based, and relevant skills via online sessions on weekends. It is a rigorous, intensive and impact-oriented programme which helps students, mid-career professionals, start-ups, consultants and environment enthusiasts to stay relevant in the gradually changing world of sustainability.

Four sets of training programmes were conducted:

- Fundamentals and application of life cycle assessment
- Anaerobic digestion of organic waste: Market potential, technology and implementation
- Validation, registration, verification and issuance of carbon credit certificate
- Protection of intellectual rights: A primer for students, researchers, start-ups and institutions

42



Participants

“The training comprehensively addressed everything from the basics of LCA to advanced applications. The hands-on experience with SIMA Pro software significantly boosted my confidence in navigating the intricacies of LCA work. Overall, it was an enriching experience that equipped me with valuable skills.”

Ch V Tulasi

“It helped me in understanding the basics of carbon market. Experienced Faculty with strong practical knowledge. All the faculty patiently answered all the questions.”

Girish Ramanathan

Training & Capacity Building

Certificate Course on Entrepreneurship in SWM

Fee based | India Development Services | June-August 2024



27 Participants from **13** States & **02** Union Territories

This is our flagship programme that offers training and mentorship support to enhance understanding of participants on Solid Waste Management (SWM) and guide them to set up, build, manage and promote a SWM enterprise.

During the course, 64 hours of content was delivered during weekends by industry experts, entrepreneurs from waste management sector and academicians.

Since the conclusion of the certificate course,

- ◆ 2 participants have been able to scale up their enterprises
- ◆ 3 participants are planning to start their enterprises
- ◆ 2 participants have started initiatives on waste management in their vicinity
- ◆ Others are finding ways to utilise the learnings of the course



“The course has enhanced my confidence to start a waste management enterprise. If not a big one, I am surely going to try setting up a small enterprise for the management of waste.”

Starwin Johnson

Training & Capacity Building

Waste Management Systems: Operations and Maintenance

Maldives Clean Environment Project, MoCCE&E, Maldives | August & November 2024

Two batches of the training programmes were conducted for participants belonging to 21 island councils and officials from the Maldives Clean Environment Project, Ministry of Climate Change, Environment and Energy of Maldives during August and November 2024. The training included a holistic exposure on the approaches, models, processes and compliance related to waste management practices and field visit to the waste management facilities.

The concluding ceremony of the training programme was graced by the presence of His Excellency Mr. Ibrahim Shaheeb, High Commissioner of the Republic of Maldives.



16

Participants
27th - 30th Aug, 2024



17

Participants
11th - 14th Nov, 2024

“ I have got very important and motivated lessons from this training and thanks for providing and conducting this kind of training to us.

Abdulla Jameel, Participant, Batch 1

We appreciate the warm welcome and hospitality given to our team. We would apply the things that we learned during the training.

Ahmed Thasleem, Participant, Batch 2”

Outreach

International Conference on Solid Waste Management for Good Health and Wellbeing

India Development Services | 1st March 2024



Attended by delegates representing government agencies, medical practitioners, NGOs, academic institutions, and media

The conference served as an initiative to highlight the interlinkages between waste management and health, offer a platform for knowledge sharing, and foster solutions for improving the policy frameworks, current practices, and mechanisms to develop a holistic approach to waste management for public health. **Ms Payden, Deputy WHO representative, WHO India** was the keynote speaker at the Conference.

During the conference, delegates were organised in 4 groups for the Stakeholder Consultation on four pre-identified agenda points, namely community health and waste management; new imperatives for waste management policies and regulations; fiscal measures; and role of stakeholders.



Outreach

Webinar on waste, water and other relevant environmental issues

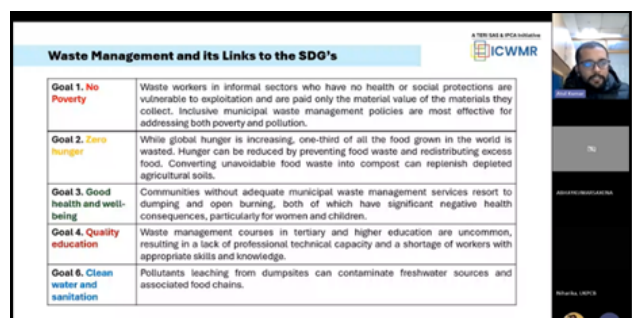
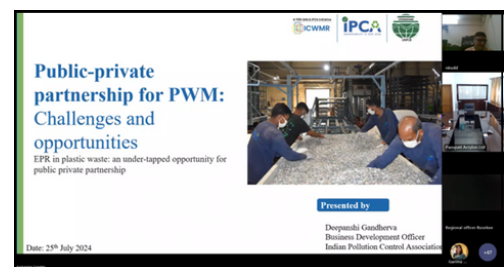
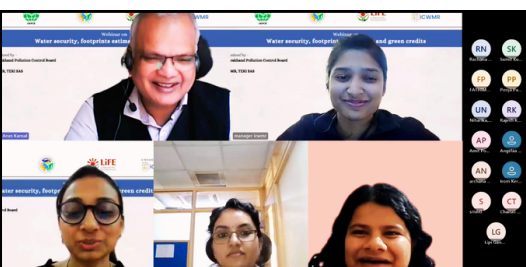
Uttarakhand Pollution Control Board | July-December 2024

A series of webinars were conducted on waste and wastewater management in association with Uttarakhand Pollution Control Board (UKPCB) with the objective to raise awareness amongst stakeholders on various topics related to environment. The following webinars were conducted in 2024:

- Unboxing the potential of battery waste in India
- EPR in plastic waste: An under-tapped opportunity for public-private partnership
- management of biomedical waste
- The ravaging forest fires in Uttarakhand: Causes, impact and mitigation strategies
- Water audit: A tool for water resource planning and conservation at municipal level
- Water security, footprints estimation and green credits
- Sustainability assessment: A guide for municipal officials to monitor and understand the impact of waste management practices of the state

1000+ Participants

Representing UKPCB, Urban Local Bodies, industries, academic institutions, health care facilities, consulting firms, etc.



Other Extension Activities



◆ **Ms Garima Kaushik** was invited by Bisleri International Pvt Ltd. to deliver a session on “Solid Waste Management and CSR” for its CSR team on 9th January 2024.

◆ **Dr Divya Soman** was invited as an expert member for the Stakeholder meeting by the Kerala State Pollution Control Board for the Management of invasive species in Kerala on 5th February 2024.

◆ **Dr Atul Kumar** delivered a talk on “Potential of Waste to Energy Technologies and its Environmental Impacts” as part of the short-term course on Waste Management and Sustainability at Gargi College, DU on 10th February 2024.

◆ The Centre was the supporting partner of the Water Fest 2024 organized by W for W Foundation on 17th - 18th February 2024 at IIT-BHU Campus.

◆ **Dr Divya Soman** delivered a talk on “Wetlands and its importance for the humans” in the webinar hosted by Indian Network on Ethics and Climate Change, in collaboration with Sustera Foundation on 17th February 2024.

◆ **Prof Arun Kansal** delivered a talk on “Water Security & Business” in a webinar organized by IDFC First Bank on 26th April 2024.

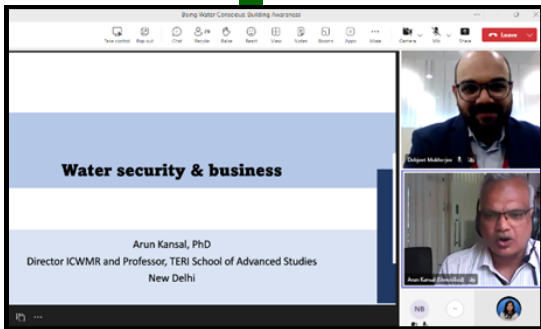
◆ **Dr Divya Soman** delivered a talk on “Biological Sciences in Water Education- Invasive Species and Wetland Degradation” for W for W Foundation on 12th June 2024.



Other Extension Activities



◆ **Dr Divya Soman** took a session on “Ecotourism and a Transformative Economy” on 14th June 2024 for a One-Week Compulsory Training Course for IFS Officers in Leh Ladakh, UT, organized by ICFRE-Himalayan Forest Research Institute, Shimla (H.P.)



◆ **Prof Arun Kansal** visited the Department of Environment System Sciences, University of Graz, Austria, from 15th – 22nd June 2024. He delivered lecture for Master’s students on topics such as- *Human factors in Sustainable mobility transition, Comparative environmental governance: Europe and India, water security, emerging paradigms of waste management*, etc. He also gave a faculty seminar and interacted with professors and experts for potential collaboration opportunities.



◆ **Ms Garima Kaushik** was invited to deliver a session on “Plastic Waste Management” in the National Seminar on Plastic Waste Management, organised by Indian Biodiversity Conservation Society on 6th July 2024.



◆ **Prof Arun Kansal** was invited to take an online session on “Renewable Energy and Circularity in Energy” on 23rd August 2024 for the Green School Initiative of TERI

◆ **Prof Arun Kansal** was invited to deliver a session on “Cities and Climate Change” at the North Zone Conference organised by Haryana Regional Chapter (ITPI) on the theme Urban Ecology and Environmental Challenges on 26th October 2024 held at Westin Resort, Sohna, District Gurugram

Other Extension Activities



◆ **Dr Divya Soman** was invited to deliver a lecture on “Scope of Environmental Sciences in the wake of climate change and net zero emissions” in NSS College, Cherthala on 8th November 2024

◆ **Prof Arun Kansal** was invited to deliver keynote lecture on “Climate change, water and ecosystems” in the International Conference on Water and Sustainable Development: 2024 (ICWSD: 2024), organised by Indian Water Works Association, Nagpur Centre from 8th - 9th November 2024 at VNIT, Nagpur.

◆ **Prof Arun Kansal** chaired a session on “Water and Heritage Conservation” in the National Conclave on Planning Sustainability & Ecological Restoration at the International Convention Centre, GBU, 22nd - 23rd November 2024

◆ **Prof Arun Kansal** participated in the interactive dialogue on strategies for responsible living and sustainable practices in Gurugram, organized by Navjyoti India Foundation on 24th November 2024

◆ **Ms Anugya Singh** was invited as an external examiner for practical exam of ‘Innovation and Design Thinking’ on 2nd December 2024 at Lady Irwin College, University of Delhi.

◆ **Dr Atul Kumar** delivered an invited lecture on “Life Cycle Assessment and its application in Business Management at XLRI Delhi-NCR on 13th December 2024.

◆ **Dr Atul Kumar** delivered an invited lecture on “Sector-specific E-commerce Driven Solid Waste: Its Projection and Approaches for Reduction” at CSIR–National Institute of Science Communication and Policy Research (CSIR–NIScPR) on 23rd December 2024.



DEPARTMENT OF ENVIRONMENTAL SCIENCE

Guest of climate change and net zero emissions

Dr. Divya Soman
Scientist B,
IPCA Centre for Waste Management and Research (ICWMR),
TERI School of Advanced Studies (TERI SAS), New Delhi

Programme Schedule

Topic and Acknowledgements:
Haripriya B Nuth & team

Chairman:
Dr. Sudarsh N
Assistant Professor & Head of the Department
Department of Environmental Science

Resourceful address:
Prof. (Dr.) Anup M
Principal, NSS College, Cherthala

Co-Chairman:
Dr. Maya Venugopal
VSC Coordinator

Co-Chairman:
Dr. Divya V
Guest lecturer, Dept. of Environmental Science

About the speaker:
Ph.D. in Environmental Studies from Kerala Forest Research Institute (KFRI) on the topic "Assessment of Ecosystem Services from Panchajanya Tiger Reserve".
Nature-based Solutions (NbS), Economic Valuation of Ecosystem Services, Bioremediation of Municipal Sewage, Water and Environmental Accounting and Green GDP

About the topic:
Environmental sciences play a crucial role in addressing climate change and achieving net zero emissions. The scope of environmental sciences encompasses:

Key Areas:

1. Climate Modelling and Prediction
2. Renewable Energy Systems
3. Sustainable Land Use and Forestry
4. Water Resource Management
5. Waste Reduction and Management
6. Ecosystem Services and Biodiversity
7. Environmental Policy and Governance
8. Green Technology and Innovation
9. Carbon Capture and Storage
10. Climate Change Adaptation and Resilience

Get in Touch

Dr. Sudarsh N, HOD, EVS

Date & Time:
08th November 2024
10.30 to 11.30 AM

Publications & Blogs



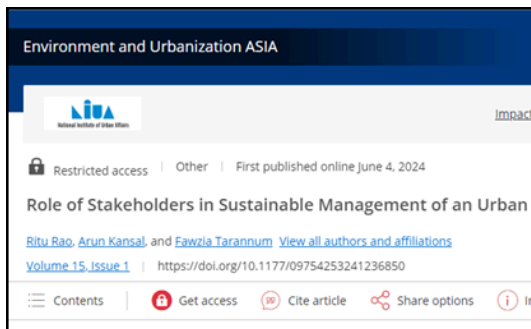
- ◆ An article on 'Unplastic- King' the Future, published in Clean India Journal, 2023 featured the thoughts and expertise of Ms Garima Kaushik on the impact of plastic waste on our environment. <https://cleanindiajournal.com/emag/2024>



- ◆ Rao, R., Kansal, A., & Tarannum, F. (2024). Role of Stakeholders in Sustainable Management of an Urban Waterbody and Wetland. Environment and Urbanization ASIA, 15(1), 175-191. <https://doi.org/10.1177/09754253241236850>



- ◆ Anitha, V., Soman, D., Sandeep, S., Sreejith, K.A., Sreekumar, V.B. (2024). The Nexus of Ecosystem Services and Human Wellbeing: Case Study from the Forests of Western Ghats, Kerala, India. In: Joseph, S., Pradeepkumar, A. (eds) Ecosystem Services Valuation for Sustainable Development. Springer, Singapore. https://doi.org/10.1007/978-981-97-4688-0_4



- ◆ A. Kansal. (2024). New paradigms of water sustainability through market-based instruments. Central Mirror. <https://icwmr.terisas.ac.in/images/new-paradigm.pdf>
- ◆ A. Kansal. (2024). Changing perspectives on waste management approach: Moving from Health to Wealth and back to Health. Central Mirror. <https://icwmr.terisas.ac.in/images/changing-perspectives.pdf>

Media Coverage

टोस अपशिष्ट प्रबंधन विषय पर अंतर्राष्ट्रीय सम्मेलन का आयोजन



भास्कर समाचार सेवा

नई दिल्ली। अंतर्राष्ट्रीय अपशिष्ट बोनने वाला दिवस के अवसर पर टेरी स्कूल ऑफ एडवांस्ड स्टडीज में आईपीसीए सेंटर फॉर वेस्ट मैनेजमेंट एंड रिसर्च ने इंडिया डेवलपमेंट सर्विस, यूएसए के सहयोग से स्वास्थ्य और खुशहाली के लिए टोस अपशिष्ट प्रबंधन विषय पर अंतर्राष्ट्रीय सम्मेलन का आयोजन किया। चिकित्सा सेवाओं, गैर सरकारी संगठनों, शहरी स्थानीय निकायों और कचरा प्रबंधन सहित विभिन्न क्षेत्रों के प्रतिष्ठित विशेषज्ञ अपशिष्ट प्रबंधन में महत्वपूर्ण चुनौतियों का समाधान करने के लिए एकत्र हुए। अपने मुख्य भाषण के दौरान, भारत में डब्ल्यूएचओ प्रतिनिधि एवं सम्मेलन की मुख्य अतिथि राशी पेडेन ने कहा, कचरा प्र

होने वाली समस्याओं के निस्तारण केवल स्वास्थ्य क्षेत्र के दृष्टिकोण से ही नहीं वरन सामुदायिक और व्यवहारिक रूप से हम सभी का इसमें योगदान देना आवश्यक है। टेरी एसएएस के कुलपति प्रोफेसर अरुण कंसल ने प्रदूषण निर्वरण और सामुदायिक स्वास्थ्य लक्ष्यों के साथ अपशिष्ट प्रबंधन उद्देश्यों के संरेखण पर जोर दिया। आईपीसीए के संस्थापक निदेशक आशीष जैन ने कहा कि स्वास्थ्य के लिए अपशिष्ट प्रबंधन को नगर निकायों में इंजीनियरों का मार्गदर्शन करना चाहिए। सम्मेलन ने सामुदायिक स्वास्थ्य और भलाई को प्राथमिकता देने वाले टिकाऊ अपशिष्ट प्रबंधन प्रथाओं की दिशा में सहयोगात्मक प्रयासों के लिए एक ढांचे के रूप में कार्य किया।

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टोस अपशिष्ट प्रबंधन पर सम्मेलन में जुटे विभिन्न क्षेत्रों के विशेषज्ञ

एक नूतन, नई दिल्ली: अंतर्राष्ट्रीय स्तर पर अंतर्राष्ट्रीय दिवस पर टेरी स्कूल ऑफ एडवांस्ड स्टडीज में आईपीसीए सेंटर फॉर वेस्ट मैनेजमेंट एंड रिसर्च (आईपीसीए) ने इंडिया डेवलपमेंट सर्विस (आईडीएस), यूएसए के सहयोग से 'स्वास्थ्य और खुशहाली के लिए टोस अपशिष्ट प्रबंधन' विषय पर अंतर्राष्ट्रीय सम्मेलन का आयोजन किया। सम्मेलन में चिकित्सा सेवाओं, गैर सरकारी संगठनों, शहरी स्थानीय निकायों और कचरा प्रबंधन सहित विभिन्न क्षेत्रों के प्रतिष्ठित विशेषज्ञ अपशिष्ट प्रबंधन में महत्वपूर्ण चुनौतियों का समाधान करने के लिए एकत्र हुए। भारत में डब्ल्यूएचओ प्रतिनिधि पेडेन ने कहा, कचरे से सम्मेलन के दौरान प्रो. अरुण कंसल, आशीष जैन, पेडेन और रशी प्रसाद ने स्वास्थ्य के दृष्टिकोण से ही नहीं बल्कि सामुदायिक और व्यवहारिक रूप से भी इसमें सभी का योगदान देना आवश्यक है। टेरी स्कूल के कुलपति प्रो. अरुण कंसल ने प्रदूषण निर्वरण और सामुदायिक स्वास्थ्य लक्ष्यों के साथ अपशिष्ट प्रबंधन उद्देश्यों के संरेखण पर जोर दिया। उन्होंने अपशिष्ट प्रबंधन के मानवीय पहलु पर प्रकाश डाला और कहा कि स्वास्थ्य संबंधी विचार भी बुनियादी ढांचे की तरह ही महत्वपूर्ण हैं। कोलारगो विस्वविद्यालय कोलारगो सिप्रस के डॉ. प्रसाद ने टोस अपशिष्ट आपूर्ति शृंखलाओं के पीछे स्वास्थ्य सेवाओं पर एक केस अध्ययन प्रस्तुत किया, जो अहमदाबाद के संस्थापक निदेशक आशीष जैन ने प्रभावित अंतरिक्ष समुदाय-आधारित दृष्टिकोण आवश्यकता पर बल दिया। उन्होंने कहा कि स्वास्थ्य के लिए अपशिष्ट प्रबंधन के लिए निकायों में तकनीकी विकास का

Bisleri International and TERI School Launch Pioneering Study on Water Credits

Key Highlights:

1. Bisleri International partners with TERI School of Advanced Studies to launch "Water Credits: Impact-Adjusted Virtual Water Footprint".
2. The study aims to create a framework for water credits, promoting sustainable water management similar to carbon credits.
3. Bisleri, a water-positive company, replenishes more water than it extracts, demonstrating a strong commitment to environmental stewardship.
4. The study's findings will be shared with the Government of India to facilitate the development of water credits.

Introduction to Water Credits:

Bisleri International, a leader in India's mineral water market, has collaborated with TERI School of Advanced Studies to introduce a groundbreaking study titled "Water Credits: Impact-Adjusted Virtual Water Footprint". This initiative marks a significant step towards sustainable water management in the beverage industry.

Objectives and Importance:

The study aims to establish a framework for water credits, akin to carbon credits, tailored to the unique needs of water conservation. Unlike carbon emissions,

NewsVair

Mumbai (Maharashtra) [India], June 7: Bisleri International, India's leading mineral water brand along with TERI School of Advanced Studies has launched an innovative study titled "Water Credits: Impact-Adjusted Virtual Water Footprint". This collaborative effort sets a benchmark for the beverage industry's commitment to water conservation.

The study aims to establish a framework for water credits, akin to carbon credits, to promote sustainable water management. Unlike carbon emissions, water savings require a localized approach, factoring in variables such as rainfall and consumption at a watershed

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Anugya Singh, Manager, ICWMR

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IPCA Centre for Waste Management and Research

TERI School of Advanced Studies, 10 Institutional Area

Vasant Kunj, New Delhi, 110070

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