WaSH2026

Innovative WaSH: Advancing Water, Sanitation and Hygiene Technologies

2-4 December 2026 | BITS Pilani Goa Campus

Venue: DLT9 BITS Pilani Goa Campus

DAY 1

As an oral Presenter you will be given a 15-minute slot to present your work during a session related to your topic and 5 minutes of Q&A. For Keynote it will be 25 minutes of talk and 5 minutes of discussion

Wednesday, 2 December 2026

Time	Programme
09:00–09:30	Registration
09:30–09:35	Inauguration & Welcome Address – Conference Chair, WASH2026
09:35–10:00	Opening Remarks – Director, BITS Pilani, K K Birla Goa Campus, Dr Sakshi Gudwani, Senior Programme officer, Gates foundation and Dr Chandramadhavi BIRAC
	Keynote talks
10:00–10:30	Citywide Inclusive Sanitation in India – Status and challenges by Prof. Srinivas Chary, Expert in WaSH
10:30–11:00	Making Clean water by Electrochemical methods by Prof. Korneel Rabaey, Ghent University, Belgium
11:00–11:30	Tea/Coffee Break & Networking
	Sanitation Technologies – Chair: Prof Srinivas Chary, WaSH Expert
11:30–11:50	Fe-C Micro-electrolysis as a Pre-treatment Method for HTC Liquor- Guruprasad Talekar, IIT Palakkad
11:50–12:10	Enhancing the Fuel Quality of Faecal Sludge via Severity Factor-Based Process Optimization of Hydrothermal Carbonization – Gokul Gopan, IIT Palakkad
12:10–12:30	Turning Treated Wastewater into a Resource: Groundwater Recharge,Nutrient Recovery, and Sustainable Agriculture by Prof Basant Kumar Yadav, IIT Roorkee.
12:30-12:50	Beyond sanitation coverage: Understanding the groundwater sanitation nexus in Peri-Urban India by Priyanka Jamwal, ATREE, Bengaluru
13:00–14:00	Lunch & Networking
Chair	**Sanitation Technologies – Chair: Prof Rajesh Banu, Central University of Tamilnadu**
14:00–14:20	Circular Economy & Digital Transformation for Sustainable Municipal Domestic Wastewater Treatment by Dr Ganesh Kumar L&T, Chennai

14:20–14:40	Integrated bioelectrochemical technologies for wastewater management by Dr. Sunil A. Patil, IISER Mohali
14:40–15:00	Performance Optimisation of Pilot-Scale Floating Treatment Wetlands for Light Greywater Treatment under Varying System Design and Operational Conditions by Dr Jayant Gogoi, IIT Palakkad
15:00–15:20	Smart Dry Sanitation for Cold and Arid Regions: An Integrated Source Separation, Treatment and Resource Recovery by Amit Kumar CSIR NEERI, Nagpur
15:20–15:40	Predictive Assessment of Septage Sludge Gasification through Air–Steam Conversion: Insights from Comparable Biomass Gasification Studies by Dr Ram Chavan Thermax Private Limited, Pune
15:40–16:00	Tea Break
Chair	**Sanitation Technologies – Chair: Prof Mona Iyer, CEPT University**
16:00–16:20	Anaerobic Co digestion of Organic fraction of municipal solid waste and septage by RaviKiran Shet, TERI, Goa
16:20–16:40	Co-Biomethanation of Domestic Septage and Landfill Leachate for Production of Energy and Value-Added Products by Prof Sankar Ganesh BITS Pilani Hyderabad Campus
16:40–17:00	Microplastics in Faecal Sludge and Septage: Occurrence, Characterization and Environmental Implications by Prof A P Singh BITS Pilani Pilani campus
17:00 – 17:20	An innovative and sustainable development of faecal sludge separation, treatment and resource recovery by Aakash Patwa, CSIR NEERI
18:30 onwards	Welcome Reception / Networking Dinner

DAY 2

Thursday, 3 December 2026

Time	Programme
09:00–09:30	Registration
Chair	**Nature-based Solutions for Water and Sanitation - Chair: Dr. Jay Bhagwan, Water Research Commission**
09:30–09:50	Nature-Based Wastewater Treatment Across Scales: Lessons from Large-Scale, Modular and Decentralised Systems in Oman and Bhutan by Dr Anant Yadav, Bauer NIMR LLC, Oman
09:50–10:10	Nature-Based Hybrid Constructed Wetlands for Sustainable Faecal Sludge Treatment and Closing the Sanitation Loop in India by Prashant Central University of South Bihar
10:10–10:30	Decentralized wastewater treatment system by Algae by Meghanath

	Prabhu , Goa University
10:30–10:50	T works
10:50–11:30	Tea Break
11:30–13:00	Workshop 1- Reimagining Inclusive and Safe Sanitation Systems for All - Integrating Social Inclusion and Worker Safety Through Systems Thinking in Sanitation Governance by Suresh Rohilla University of Bradford, Kavita Wankhade and Niladri Chakraborti IIHS University Bangalore
12:30–14:00	Lunch
14:00–15:30	Workshop 2 – Innovative Water-Sensitive Design and Planning for Resilient Water, Sanitation and Hygiene Systems in Cities by Dr Suresh Rohilla Bradford University, UK and Dr Mono Iyer CEPT University , Ahmedabad, India
15:30–16:00	Tea Break
16:00–18:00	Visit to Field Scale Installations
19:00 onwards	Gala Dinner

DAY 3

Friday, 4 December 2026

Time	Programme
09:00–09:30	Registration
Chair	**Climate-Resilient Sanitation & Urban Water Systems:** **Chair: Prof Basant Yadav, IIT Roorkee**
09:30–9:50	Sustainable Urban Drainage for Climate-Resilient Water Systems: A Catchment Scale Approach for the Bommasandra–Chandapura Lake Series by Siddanagouda Patil, CDD India
9:50–10:10	Navigating peri-urban turbulence: water resources, livelihoods, and governance gaps along the Musi River in Hyderabad Prajna Paramita Mishra, Lavanya Pisipati, and Snehalatha Mekala
10:10–10:30	Residence Time Distribution Measurements in Subsurface Flow Constructed Wetlands using Radiotracer by Dr Sunil Goswami BARC.
10:30–10:50	Mobile treatment Unit Implementation case study, challenges and possibilities by Vinod Subramaniam, Bhouma Pvt Ltd
10:50–11:10	Quantifying Climate Impact of Sanitation Infrastructure: A District-Level Methane (CH4) and N2O Baseline Assessment Across 41 Districts of Rajasthan, India by Prof Anil Dutt Vyas, Manipal University Jaipur
11:10–11:40	Tea/Coffee Break
Chair	**Urban Wastewater Management**

	Chair: Prof Suresh Rohilla, University of Bradford
11:40–12:00	Lessons learned from deploying water efficient closed loop sanitation technologies in south african schools under the sanitation appropriate for education (safe) programme by Trevor Rajnarain, MPAMOT, South Africa
12:00–12:20	Unlocking the potential of wastewater in India by A S Vishwanathan, Sri Sathya Sai Institute of Higher Learning
12:20–12:40	Water Quality Degradation and its Impact on Health of the Riparian Slum Women of River Mahananda: A Research Insight into Siliguri Municipal Corporation, West Bengal – Jytoirmayee Sarkar, IIT BHU
12:40–13:00	Transforming Sacred Waters: Water, Sanitation, and Hygiene in the Urban Evolution of Varanasi, Amrita Dwivedi, IIT (BHU) Varanasi
13:00–14:00	Lunch
Chair	**Resource Recovery, Circular Bioeconomy and Transformative Innovation in WaSH** **Chair: Dr Sunil Goswami, BRNS**
14:00–14:20	Cascading Valorization of Invasive Gracilaria salicornia through Energy-Efficient Pretreatment for Agar, VFA, and Biohydrogen Production by Rajaguru Palanichamy, Central University of Tamil Nadu.
14:20–14:40	Sustainable Food Waste Biorefinery: Immobilized Amylase-Secreting Bacteria for Integrated VFA, Biomethane, and PHA for Drug Delivery Applications by Poornachandar Gugulothu
14:40–15:00	Early Effects of the Jal Jeevan Mission on Water Access, Women: Water Burden and Girls; Education in India, Haryana and Madhya Pradesh Geeta Sachdeva NIT Kurukshetra
15:00 – 15:20	Integrated Corncob Biorefinery for Lignin-Derived Biopolymer and Cellulose-Derived Biohydrogen Production Rethinapraga Karthikeyan and Rajesh Banu Jeyakumar
15:20 – 15:40	Occurrence and ecological risk of pharmaceuticals in Indian waters - Prachi Dessai NIT Suratkal
15:40 – 15:50	Closing Remarks
15:50–17:00	High Tea

POSTERS

ID	**Poster Presentations**
WaSH-033	Water as a Common Good: Sustainability, Governance and the Ethics of Financing SDG 6 in India *George Joseph*
WaSH-034	Biomass-Derived Lignin-Based Hydrogel for Sustainable Water Treatment Applications *Helly Parmar, Sridhar Dalai, and Snigdha Khuntia*
WaSH-035	Beyond Hardware: Governance and Partnerships as Innovations for Sustainable Rural Sanitation in Iringa, Tanzania *Khadija Haroun, Remijius Sungu, and Regina Shigongo*
WaSH-036	Advanced Rotating-Anode Electrocoagulation for Simultaneous Arsenate and Fluoride Removal: Reaction Kinetics, Energy Consumption, and Techno-Economic Evaluation *Mukesh Bharti and Mihir K. Purkait*
WaSH-037	Unravelling Spatial and Seasonal Geochemical Dynamics and Water Potential in the Kuppam River, Southern Western Ghats, India: Insights into Contamination and Sustainability. *Olin B. Jose, A. Krishnakumar, Manoharan A. N, and K. Anoop Krishan*
WaSH-038	Assessment of Wastewater Management Infrastructure and Potential Implementation of Combined Sewerage and Decentralized Systems in Ranchi City *Prashant Kumar and Bimal Chandra*
WaSH-039	From Macro to Micro: Mimicking Biological Tannery Effluent Treatment through Integrated Adsorption–Phycoremediation Using Sargassum longifolium macroalgae Biochar and Indigenous Chlorella sorokiniana microalgae *Roshna Parveen G and Rangabhashiyam Selvasembian*
WaSH-040	Passive Snow-Melting Apparatus for Water Harvesting *Sachin Basavaraj Halladamani, Nagarjuna Prakash Dalbanjan, and M.B.Sulochana*
WaSH-041	Influence of Nanomaterials on Bacterial Degradation of Organic Pollutants *Sivaraman Chandrasekaran, Kalimuthu Vignesh, Thirumurugan Ayyadurai, Mohammed Aslam, and Ahmed Saleh Ahmed Summan*
WaSH-042	A framework for managing recurring garbage vulnerable points in Ahmedabad, India *Divyank Sharma, Mona Iyer, Siddh Doshi*
WaSH-043	Rethinking Urban Stormwater Management in Ahmedabad: Decentralised Surface Storage and Groundwater Recharge through Public Parks *Uddipan Adhikary, Mona Iyer, Siddh Doshi*