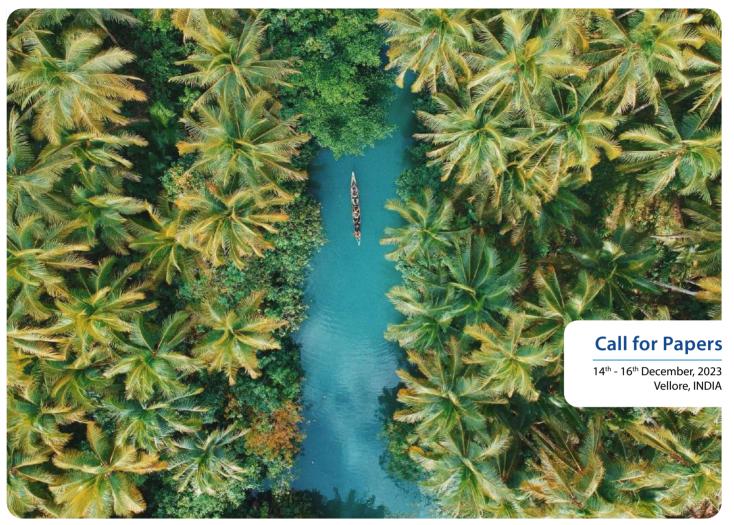


5th International Conference on

Sustainable Technologies for Water and Wastewater Treatment









Organised by



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"The human right to water is indispensable for leading a life in human dignity. It is a prerequisite for the realization of other human rights."

- UNITED NATIONS

ABOUT US

Water, the most vital natural resource, has touched every aspect of human life. Various anthropogenic activities are threatening its very existence. If the judicious utilisation of remaining supplies is to be ensured, it is our responsibility as human beings to search for viable conservation techniques. The international community has enthusiastically embraced the Sustainable Development Goals (SDG). In particular, SDG 6 has become the guiding light for efforts to meet the rising water demand and avert a worldwide water crisis. In tune with the United Nations' goal to 'Ensure availability and sustainable management of water and sanitation for all' by 2030, we at Vellore Institute of Technology-Vellore, INDIA, propose to host TECHNOSCAPE ²³, an international conference on Sustainable Technologies for Water and Wastewater Treatment, from 14th to 16th December 2023. TECHNOSCAPE ²³ aims to provide a platform for water enthusiasts and environmental experts to share their rich scientific experiences.

VELLORE INSTITUTE OF TECHNOLOGY (VIT), INDIA

Vellore Institute of Technology was established in the year 1984 as Vellore Engineering College by the Chancellor, Dr G. Viswanathan. It was conferred the university status in 2001 to recognize its excellence in academics, research and extra-curricular initiatives. With a vision of "Transforming life through Excellence in Education and Research", VIT has been consistently ranked among the best institutions in the country and is aspiring to emerge as a global leader. The Engineering and Technology subject areas of VIT are ranked 346 in the world and 9 in India as per the QS World University Rankings by Subject 2022.

YOKOHAMA NATIONAL UNIVERSITY (YNU), JAPAN

Founded in 1874, Yokohama National University has emerged as a leading international educational hub. The institution fosters practical learning based on Yokohama's deep-rooted history and tradition as a thriving city of commerce, industry and trade. The flexibility and adaptability of YNU's vibrant campus enables the cultivation of globally competitive talent. YNU was bestowed with the prestigious Nihon-Ryugaku Awards, in the categories of Graduate Schools of the Eastern Japan division (2018 and 2020) and National & Public Universities of the Eastern Japan division (2017 - 2021). According to the QS World University Rankings 2022, YNU has been ranked 801-1000 globally and 169 in Asia.

GDAŃSK UNIVERSITY OF TECHNOLOGY (GUT), POLAND

The Gdańsk University of Technology (GUT) was founded in 1899 by decree of Emperor Wilhelm II, and started for the first time in 1904. According to the prestigious Shanghai Ranking, GUT is one of the oldest technical colleges in Poland and ranks in the top eight among Polish universities and between 801 and 900 internationally. The European Commission gave Gdańsk Tech permission to utilise the coveted HR Excellence in Research mark in 2017. GUT has been recognised as an institution that provides some of the most excellent working and growth environments for European researchers.











GOALS OF THE CONFERENCE

TECHNOSCAPE²³ aims to establish a sustainable environment by achieving the following goals:

- Bring together water professionals to address the existing state of water resources, contribute plausible ideas and inculcate better water management practices to meet the colossal demand.
- Offer a platform to share prodigious knowledge about advanced and sustainable technologies for water and wastewater treatment.
- Provide a holistic view on the latest water research and insights on some of the modern technologies such as IoT, Remote Sensing and Geographic Information System (GIS).
- Focus on transdisciplinary research to facilitate a systematic approach towards challenges.

THEMES

- Advancements in Membrane Technologies
- Carbon Footprint Reduction
- Circular Economy
- Ecological Sanitation
- Emerging Contaminants in Water and Wastewater
- GIS and Remote Sensing in Water Monitoring
- Green Technologies for Crude Oil Processed Water Treatment
- Hydroponics and Smart Farming
- Impact of COVID-19 on Wastewater Management
- Incorporation of IoT, AI, and ML in Water Technologies
- Landless Farming
- Novel Desalination Technologies
- Phytoremediation
- Process Water Treatment Technology
- Produced Water Treatment
- Recovery and Remediation of Marine oil-spills
- Resource Recovery
- Socio-Economic issues concerning Wastewater Management
- Sustainable Initiatives to Achieve Zero Liquid Discharge
- Water-Energy-Land-Food nexus
- Water Governance
- Water Reclamation from Industrial Effluents
- Water Sanitation and Hygiene (WASH)
- Water Sensitive Urban Design

















KEY DATES

15 MAR 2023

Call for Papers Abstract
Opens Submissions
Closes

15 JUL 2023

Intimation to
Selected Ri
Delegates O

15 JUL 30 SEP 2023

Early Bird Early Bird
Registration
Opens Registration
Closes

31 OCT 2023

Full Paper Submission Closes 2023
Registration

Closes

30 NOV

SUBMISSION PROCEDURE

30 JUN

2023

Authors, who wish to have their papers considered for Platform or Poster presentation, can submit an abstract of a maximum of two pages. A template is available for download on the conference website www.technoscape.in. The abstract can be turned in through TECHNOSCAPE ²³ online submission portal. All the submissions will be assessed on the basis of scientific content, novelty, and relevance to the scope of the conference. Recommendations from reviewers will be considered final for the selection.

PUBLICATIONS

Papers accepted for the conference will have the opportunity to be published in the supporting journals. The acceptance is subject to the peer-review by the International Advisory Committee, preceded by the payment of the registration fee. The conference is supported by the given Scopus Indexed Journals:

Environmental Science and Pollution Research (ESPR) – Springer Publications (IF: 5.190) Environmental Monitoring and Assessment (EMAS) – Springer Publications (IF: 3.307) Chemical Engineering Communications (CEC) – Taylor & Francis (IF: 2.586)

REGISTRATIONS

	INDIA (₹)			Low Income Country (\$)**			High Income Country (\$)**		
	Early Bird	Regular	On-spot	Early Bird	Regular	On-spot	Early Bird	Regular	On-spot
Academicians	6000	7000	8500	300	350	450	350	400	500
Research Scholars / Students ***	4000	5000	6000	200	250	350	250	300	400
Industrial Delegates	10000	12000	15000	350	400	500	450	500	600
Accompanying Delegate	2000	2000	2000	125	125	125	150	150	150

[#] Registration fee is inclusive of 18% GST

For Cancellation and Refund policy, kindly refer to the conference website.











^{**} Check World Bank High/Low-income country classification here – https://datahelpdesk.worldbank.org/knowledgebase/articles/906519-world-bank-country-and-lending-groups

^{***} A student registering for the conference should be a holder of a student identification card from a recognized higher educational institution or a holder of an international student card. Proof of student status is required and should be sent at the time of registration.

DESTINATION

INDIA

India, one of the world's oldest civilizations, is a mosaic of multicultural experiences. It marks out for having unrivalled natural beauty, ranging from tropical rainforest to snow-capped mountains. The maxim 'Athithi Devo Bhava that translates to 'Guest is equivalent to God' dwells within the heart of every Indian. There exists a myriad of cultures, including those of the Portuguese, Dutch, French, Mughals, Persians and British. With the world rank of 8th in Tourism, the country is home to lush paddy fields, spectacular sunrises, historical places of worship and awe-inspiring rock-cut structures.



Kanyakumari, Tamil Nadu

TAMIL NADU

Tamil Nadu, the birthplace of the world's oldest language - Tamil, has a lot to offer with its unique festivals and breathtaking spectacles of nature, culture and art. Its ancient architectural marvels date back two millennia, a few of which are world heritage sites. The fervour of fans, their unique love, and frenzy for cinema and the culinary experience can compete with the best in the world. It has a beautiful coastline of over 1000 km, with golden sands, lush vegetation and twisted gorges cascading into a series of spectacular waterfalls. Adding to its rich heritage, there exists a juxtaposition of the 'Shola forest and grassland ecosystem' and the beautiful mountainous regions.

VELLORE

"They've kept the tale a hundred years; they'll keep the tale a hundred more" - Sir Henry Newbolt.

With its bright blue sky, the hillocks and the blazing sun, Vellore, 'The City of spears' is located on the banks of the River Palar in Tamil Nadu. Located in the heart of the city, the picturesque Vellore fortress boasts a military- inspired architecture that has stood the test of time. The city, surrounded by hills and facing the lovely sundown, puts on a purple tinge like a heather bloom to greet us with tropical temperature.



Thanjavur, Tamil Nadu











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IVORY COAST USA INDIA



water akvo vesi vatn vesi eau wetter aghe jan auga iò tskhali das wasser nero y dlo ruwa wai वर्ष पानी víz vatn mmiri air uisce acqua 水 amane ನೀರು thuk maza mae amazi amazi mool av mni nam mâmba aqua ægoa mayi vanduo water pi waasser вода rano air വെള്ളം ilma wai ko paani yc kôm atl iâo yann aiga lögr iala дон awa âb woda água ਪਾਣੀ pani apă voda abba acua uisge вода metsi magi myuraa panhi vatura voda voda voda ari dji agua maji vatten tubig pape நீர் su ನೆಟಿ su vu Вода pani madi nuoc aiwe d^wr amanzi vasser omi amanzi water uji wàsser dlo tũ 🚜 djour su ji ura Вада পানা amane zou voda dour voda yei pál aigua hanum hi ama 水 paa acqua voda voda vand het water water akvo vesi vatn vesi eau wetter aghe jan auga iò tskhali das wasser nero y dlo ruwa wai ਰਾਜੀ víz vatn mmiri air uisce acqua 水 amane ನ**ೀರು thuk maza mae amazi amazi mool av mni nam mâmba aqua ægoa mayi vanduo water pi waasser вода rano air വെളളം ilma wai ko** paani Ус kôm atl iâo vann aiga lögr jala дон awa âb woda água ਪਾਣੀ pani apă voda abba acua uisge вода metsi magi mvuraa panhi vatura voda voda voda ari dji agua maji vatten tubig pape நீர் su నీటి su vu Вода pani madi nuoc aiwe d^wr amanzi vasser omi amanzi water uji wàsser dlo tū 🚜 djour su ji ura Вада পানা amane zou voda dour voda yei pál aigua hanum hi ama 水 paa acqua voda voda vand het water water akvo vesi vatn vesi eau wetter aghe jan auga iò tskhali das wasser nero y dlo ruwa wai ਠਾਰ ਧਾਜੀ víz vatn mmiri air uisce acqua 水 amane ನ**ೀ**ರು thuk maza mae amazi amazi mool av mni nam mâmba aqua ægoa mayi vanduo water pi waasser вода rano air വെളളം ilma wai ko paani Ус kôm ati iâo vann aiga lögr jala дон awa âb woda água ਪਾਣੀ pani apă voda abba acua uisge вода metsi magi mvuraa panhi vatura voda voda voda ari dji agua maji vatten tubig pape เநீர் su ් ් su vu Вода pani madi nuoc aiwe d^wr amanzi vasser omi amanzi water uji wàsser dlo tū д. djour su ji ura Baga পাৰ্না amane zou voda dour voda yei pál aigua hanum hi ama 水 paa acqua voda voda vand het water water akvo vesi vatn vesi eau wetter aghe jan auga iò tskhali das wasser nero y dlo ruwa wai x 귀테 víz vatn mmiri air uisce acqua 水 amane 저ᡥ(ਰ) thuk maza mae amazi amazi mool av mni nam mâmba aqua ægoa mayi vanduo water 🛍 wa ser вода rano air ബെള്ളം ilma wai ko paani yc kôm atl iâo vann aiga lögr jala дон awa âb woda água ਪਾਣੀ pani apă voda abba acua uisge в a metsi magi mvuraa panhi vatura voda voda voda ari dji agua maji **1^wr amai** vatten tubig pape நீர் su ්ර්ಟಿ su vu Вода pani madi nuoc aiwq /asser omi amanzi water uii wàsser dlo tū 🛵 diour su ji ura Вада পানা àmane zou voda dour voda yei pál aigua hanum hi ama 🤉 voda vand het water water akvo vesi vatn vesi eau wetter aghe paa acqua vol jan auga iò tskhali das wasser nero y dlo ruwa wai वानी z vatn e acqua 7k amane ನೀರು thuk maza mae amazi amazi mool av mni nam mâmba aqua ægoa mayi vanduo water pi waa; er вода Bo ilma wai ko paani Ус kôm atl iâo vann aiga lögr jala дон awa âb woda água ਪਾਣੀ pani apă voda abba acua uisgo nhi vatura voda voda voda ari dji agua maji vatten tubig раре நீர் su ನೆಟಿ su vu Вода pani madi nuoc aiwe d^y er omi <u>amanzi wa</u>ter uji wàsser dio tū 씨 diour su ji ura Вада পান amane zou voda dour voda yei pál aigua hanum hi ama ${f x}$ | rater akvo vesi vatn vesi eau wetter aghe jan auga iò tskhali das wasser nero y dlo ruwa wai वानी vi i maza mae amazi amazi mool av mni nam mâmba aqua ægoa mayi vanduo water pi waas m atl iâo vann aiga lögr jala дон awa âb woda água ਪਾਣੀ pani apă voda abba acua uj la voda vodi ari dji agua maji vatten tubig pape நீர் su నిటి su vu Вода pani madi nuoc aiwe ' dio tū 🖦 d<mark>io</mark>ur su ji ura Вада পাৰ্না àmane zou voda dour voda yei pál aigua hanum hi ama : <mark>ater akvo v</mark>esi vatn ve<mark>si </mark>eau wetter aghe ian auga iò tskhali das uk maza mee amazi amazi mool av mni nam mâmba wasser nero y dlo ruwa wai ਰਾਜੀ vann aiga lögr jala дон awa âb woda água aqua ægoa mayi vanduo water pi waas kôm atl i*i* ਪਾਣੀ pani apă voda abba acua uisge в**oz**a metsi n **්තුi agua maji vatten tubig pape** நீர் su ්ර්් su vu Вода pani madi nuoc aiwe d^wr ama ₭r su ji ura Baдa পানা amane zou voda dour voda yei pál aigua hanum hi ama 水 paa acqua vol oda vand an vesi eau wetter aghe jan auga iò tskhali das wasser nero y dio ruwa wai בימ पानी víz vatn mmiri air uisce asqua 水 ai vanduo water pi waasser вода rano air റവളളം ilma wai ko paani ye kom atl iâo vann aiga lögr jala дон awa âb woda água ਪਾਣੀ pani apă voda abba acua uisge вода metsi magi mvuraa panhi vatura voda voda ari dji agua maji vatten tubig pape ҧீர் su నీటి su vu Вода pani madi nuoc aiwe d^wr amanzi vasser omi amanzi water uji wàsser dlo tū ы. djour su ji ura Вада পাৰ্না amane zou voda dour voda yei pál aigua hanum hi ama 水 paa acqua voda voda vand het water water akvo <u>vasi</u> vatn vesi eau wetter aghe jan auga iò tskhali das wasser nero y dlo ruwa amazi amazi mool av mni nam mâmba aqua ægoa mayi vanduo wai عימ पानी víz vatn mmiri air uisce acqua 水 amane ನೀರು t n atl iâo v<mark>a</mark>nn aiga lögr jala дон awa âb woda água ਪਾਣੀ pani apă voda abba water pi waasser вода rano air വെളളം ilma wai ko paani Ус acua uisge вода metsi magi mvuraa panhi vatura voda voda aiwe d^wr amanzi vasser omi amanzi water uji wàsser dlo ti ারুর পার্না amane zou voda dour voda yei pál aigua hanum hi ama imes paa acqua voda voda vand het water water akvo vesi va $oldsymbol{ ilde{x}}$ ve he jan auga iò tskhali das wasser nero y dlo ruwa wai वानी víz vatn mmiri air uisce acqua 水 amane ನೀರು thuk maza ool av mni nam mâmba aqua ægoa mayi vanduo water pi waassviz vaui illiliri air uisce acqua 水 aliane నిం(0) uluk maza mae app y aliane 2001 av illil ilalii illaliiba aqua ægoa mayi valuub water pi waass-er вода rano air വെളളം ilma wai ko paani yc kôm atl iao vann aiga lugr jala дон awa âb woda água ਪਾਣੀ pani apă voda abba acua uisge вода metsi magi mvuraa panhi vatura voda voda voda ari dji agua maji vatten tubig pape ҧீர் su నீటి su vu Вода pani madi nuoc aiwe d^wr amanzi vasser omi amanzi water uji wàsser dlo tū 🖟 djour su ji ura Baдa পार्ना amane zou voda dour voda yei pál aigua hanum hi ama 水 paa acqua voda voda vand het water water akvo vesi vatn vesi eau wetter aghe jan auga iò tskhali das wasser nero y dlo ruwa wai are पानी víz vatn mmiri air uisce acqua 水 amane ನೀರು thuk maza mae amazi amazi mool av mni nam mâmba aqua ægoa mayi vanduo water pi waasser вода rano air വള്െെ ilma wai ko paani Yc kôm atl iâo vann aiga lögr jala дон awa âb woda água ਪਾਣੀ pani apă voda abba acua uisge вода metsi

TOWARDS A SUSTAINABLE FUTURE









