



**Potential and Validation
of Sustainable Natural & Advance Technologies
for Water & Wastewater Treatment,
Monitoring and Safe Water Reuse
in India**

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1.0	07.01.2022	TTZ	1 st Preliminary version
1.1	31.01.2022	TTZ	Final version

List of abbreviations

AIMEN – Asociación de Investigación Metalúrgica del Noroeste
AMU – Aligarh Muslim University
AU – Aarhus Universitet
AUTARCON – Autarcon gmbh
BIOAZUL – Bioazul S.L.
BOKU – Universitaet fuer bodenkultur Wien
DST – Department of Science and Technology
EASME – Executive Agency for Small and Medium-sized Enterprises
EC – European Commission
ESF – Ecosan Services Foundation
EU – European Union
GoI – Government of India
IRIDRA – Iridra srl
IIT(ISM)Dhanbad – Indian School of Mines
IITKGP – Indian Institute of Technology Kharagpur
KRETA – Kretschmer Tauscher landschaftsarchitekten partnerschaft mbh
NEERI – National Environmental Engineering Research Institute
PESSL – Pessl instruments gmbh
SEECON – Seecon international gmbh
SIU – Symbiosis International University
TTZ – Verein zur forderung des technologietransfers an der hochschule Bremerhaven ev
UFZ – Helmholtz zentrum fuer umwelforschung gmbh
UPC – Universitat Politecnica de Catalunya

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1. Executive Summary

The present document reports on the planning of the final PAVITR conference. It was initially planned for November 2022. However, due to the COVID-19 situation, our strategy is to postpone it to combine it to the 13th IWA International Conference on Water Reclamation and Reuse in Chennai, India from 15th to 19th January 2023. The results, experiences, and lessons learnt will be presented to a brought audience on this occasion. The present document describes the strategy for our final conference. A second version of Deliverable d8.13 will include a detailed conference program upon confirmation of the date and location (tentative delivery of D8.13-version 2 in October 2022).

2. Introduction and objectives

The present document reports on the planning of the final PAVITR conference. It was initially planned for November 2022. However, due to the COVID-19 pandemic, our strategy is to postpone it to combine it to the **13th IWA International Conference on Water Reclamation and Reuse in Chennai, India (15-19.01.2023)**. The present document describes the strategy for our conference, and the second version will include the detailed program of the conference. The results, experiences, and lessons learnt shall be presented to a brought audience on this occasion.

The scientific coordinator of PAVITR Günter Langergraber, is in contact with Josef Lahnsteiner, chair of the IWA SG Water Reuse, which is organising the conference. They discussed how the final PAVITR conference could be included in the IWA Water Reuse Conference. The most likely version would be getting one of the parallel streams on one of the conference days. Josef Lahnsteiner sees the advantages for the Water Reuse conference to connect with the PAVITR conference and will reach out to the IWA SG Water Reuse and the local organisers of the Chennai conference. Further details will be discussed when the IWA SG and local organisers give their general okay. Our strategy (see figure 1) is under development.



Figure 1 PAVITR Conference Strategy

3. Venue for the PAVITR Final conference

The conference is planned to be combined with the *13th IWA International Conference on Water Reclamation and Reuse* in Chennai, India. This is scheduled for the 15th to 19th January 2023. The central theme of this conference will be “Water Reuse: Overcoming the Challenges of Growth and Climate Change” and intends to make progress in creating sustainable solutions for the reuse of water. In this context, the experience gained in other countries will contribute to finding sustainable solutions. The conference will comprehensively address the topics related to water reclamation and reuse. The focus will be on water reuse adoption, water reuse implementation and removal of water reuse bottlenecks.

This conference is the perfect platform to present the results of the PAVITR project.

Holding the conference in India makes sure that a lot of the Indian partners can participate. The European partners are invited to attend this conference besides travelling to India, where the prototypes of the projects are installed.

The conference will be held on a hybrid model. The presentations and stage programme will be broadcast online so more people can attend the conference. The broadcast will take place with an online conference tool, e.g. Zoom. Given the development of the pandemic COVID-19, the event might be rescheduled.

4. Targeted audience

Besides experts from all over the world, the conference will intend to bring together the relevant stakeholders involved in the scale-up of the technologies tested and adapted in India (such as universities, research centers, local and national authorities, policy makers at international and national level, donors, service suppliers, end-users, etc.). The local partners will identify the regional key stakeholders.

Possible conference attendees could be involved in sister projects e.g., LOTUS, PANIWATER, INDIA-H₂O, PAVITRGANGA, SARASWATI 2.0, and SPRING or in additional research and development projects funded by the Department of Science and Technology (DST) and

European Commission (EC). But also, from following organisations that already engaged in various PAVITR activities:

Organization	Country	Project
Department of Science and Technology (DST), Government of India	India	N/A
EASME, European Commission (EC)	Belgium	N/A
Prasad Andhra University	India	N/A
Trust-IT Services	Italy	EC Booster
University of Birmingham	Spain	INDIA-H ₂ O
Pandit Deendayal Petroleum University (PDPU)	India	INDIA-H ₂ O
CSIR-Central Electronics Engineering Research Institute (CSIR-CEERI)	India	INDIA-H ₂ O
Robyn MODUS	United Kingdom	INDIA-H ₂ O
University of Exeter	United Kingdom	LOTUS
GAC Group	France	LOTUS
CSIR-National Environmental Engineering Research Institute (CSIRNEERI)	India	PANIWATER
NUIM	Ireland	PANIWATER
TARA	India	PANIWATER
Development Alternatives	India	PANIWATER
Buckinghamshire New University	United Kingdom	PANIWATER
Universidad Rey Juan Carlos	Spain	PANIWATER
RCSI	Ireland	PANIWATER
Royal College of Surgeons in Ireland	India	PANIWATER
INNOVA Srl	Italy	PANIWATER
The Energy and Resources Institute (TERI)	India	PAVITRGANGA
VITO	Belgium	PAVITRGANGA
IHE Delft Institute for Water Education	Netherlands	PAVITRGANGA
University of Natural Resources and Life Sciences (BOKU)	Austria	SARASWATI 2.0
The Arctic University of Norway (UiT)	Norway	SPRING
Indian Institute of Technology Guwahati	India	SPRING
SRKREC	India	SPRING
Elixiiir Ecobiotech Private Limited	India	SPRING

TTZ Bremerhaven	Germany	PAVITR
Aligarh Muslim University (AMU)	India	PAVITR
BIOAZUL S.L.	Spain	PAVITR
CSIR-National Environmental Engineering Research Institute (CSIRNEERI)	India	PAVITR
Aarhus University	Denmark	PAVITR
Ecosan Services Foundation	India	PAVITR
University of Natural Resources and Life Sciences (BOKU)	Austria	PAVITR
AIMEN Technology Centre	Spain	PAVITR
National Mission for Clean Ganga (NMCG)	India	PAVITR
Symbiosis Institute of Technology	India	PAVITR
IIT(ISM)Dhanbad	India	PAVITR
Indian Institute of Technology, Kharagpur	India	PAVITR
IRIDRA Srl	Italy	PAVITR
Kretschmer Tauscher Landschaftsarchitekten Partnergesellschaft mbB	Germany	PAVITR
Universitat Politècnica de Catalunya	Spain	PAVITR
AUTARCON GmbH	Germany	PAVITR
Helmholtz Centre for Environmental Research GmbH (UFZ) Leipzig	Germany	PAVITR
PESSL	Austria	PAVITR

5. Conference Programme (Agenda)

The conference programme will integrate the technical and scientific outputs of the PAVITR project and focus on the outcome of the PAVITR Strategic Research & Innovation and linked research questions as well as on the PAVITR Public-Private Working Group with the aim to enhance natural-based and high-innovative water & wastewater treatment technologies through an interdisciplinary approach.

5.1. Draft Agenda

<p>Water & Rainwater Research</p> <ul style="list-style-type: none"> • Enhancement of Remote Controllable, Highly Automated, Energetic Autonomous, and Cost-Efficient Drinking Water Treatment System • Process and Materials Combination Research • System's Performance & Enhancement • Storage, Building Reuse & Ground Water Recharge Approach
<p>Wastewater Treatment Research</p> <ul style="list-style-type: none"> • Enhancement of Aerobic Systems

- Enhancement of Anaerobic Systems
- Enhancement of Nature-Based Treatment Systems
- Research for Reliable- Resource Recovery, Reuse and Recycle
- Research Bio Sludge Management Systems
- Enhancement of System for Emerging Pollutants Removal

Strategy and Decision Making Research

- Adaptation of planning tool to low data availability context
- Evaluation of potential modifications of existing tool to streamline sewer generation and scenario generation
- Review and evaluation of open access data available for ALLOWS

High-resolution Management Research

- Definition of Automation Levels Suitable for PAVITR Technologies
- Enhancement of ORP-Monitor Sensor
- Enhancement of CW-MFC Monitor Sensor for Semi-continuous Organic Matter Removal Assessment in Constructed Wetlands
- Development of a portable VFA- Sensor for in-situ Volatile Fatty Acids Monitoring in UASB Reactors
- Detection and Quantification of Pathogens based on Visible Measurements
- Enhancement of MonitorSensor forSmartFertigation for Water Reclamation by PAVITR Technologies
- Consumer Data Generation as a base for future Pre- and Postpaid Water Billing
- Borderless-Digital Single Connection in a Multi-Stakeholder Approach

Business Studies Research

6. Promotion and Registration platform

Information about the Conference will also be available to the general public on the project webpage. All the documentation distributed during the workshops and panels will also be available on the project website.

For the early registration to the conference, the platform JotForm is an option we are evaluating. We obtained good results when we used it for the workshop (see Deliverable 7.14 2nd international workshop). With this tool, attendance can be monitored. Additionally, it makes sure the attendees accept the data protection regulation of personal processing data so that the responsible partner can process these data. Figure 2 shows the form for registration[SC1] . The attendees can choose if they join the conference in India or will participate online. Also, the location they come from will be documented.

The link for registration and advertising for the conference can be distributed via the PAVITR website and social media channels.

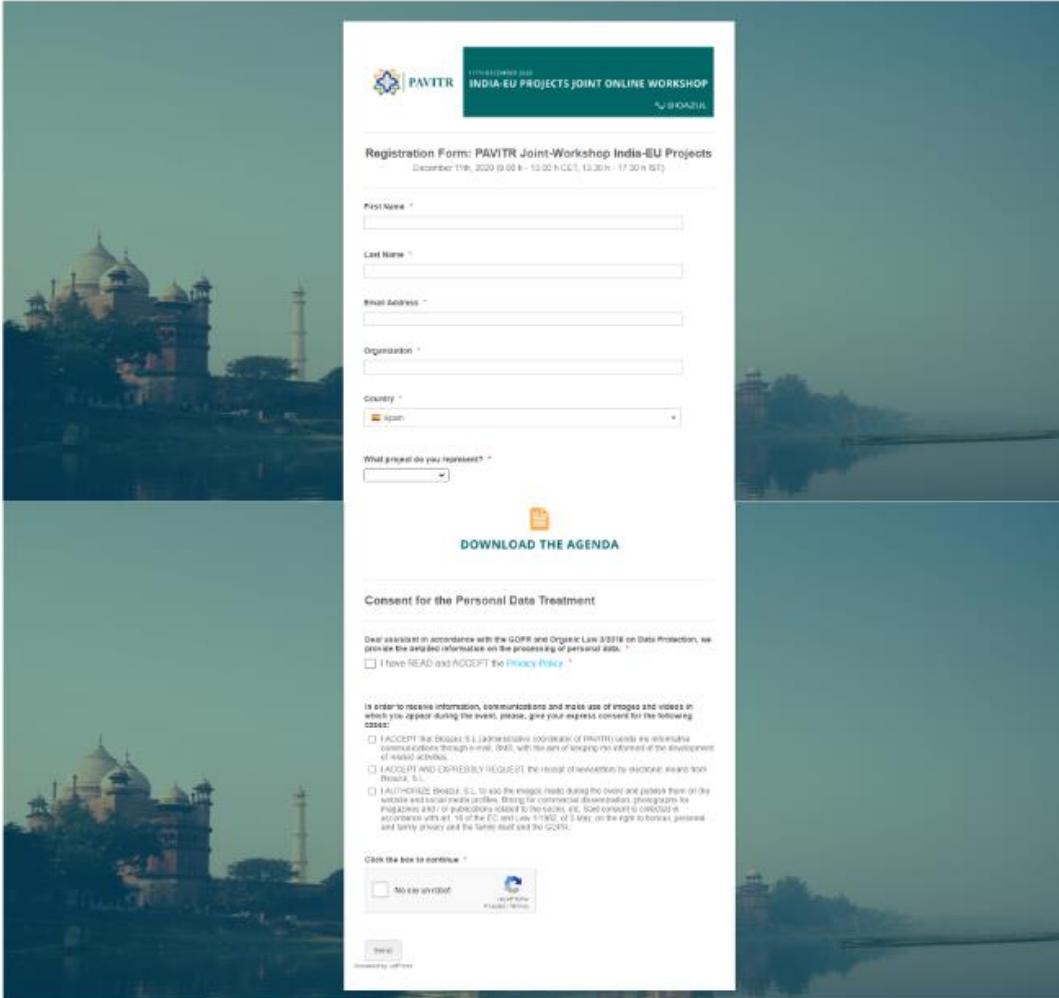


Figure 1: Registration form for the workshop

Registration link

<https://form.jotform.com/203352766420350>

Figure 2 JotForm to start the invitation to our PAVITR conference

7. Conclusion

This deliverable contains the preliminary planning for the conference. The final planning will take place in the further course of 2022. With the *13th IWA International Conference on Water*

Reclamation and Reuse, a possible venue has already been found that offers a suitable framework for the contents of the PAVITR project. The stakeholders to be addressed will also be present at this conference. The hybrid form of the conference offers the flexibility to allow as many interested parties as possible to participate and responds to the uncertain situation regarding COVID-19. It provides a foundation for the final planning of the conference.

The PAVITR conference will be an important milestone for the project and the consolidation of the PAVITR PP Working Group in the future.

References

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