

## PAVITRA GANGA PROJECT: UNLOCKING WASTEWATER TREATMENT, WATER RE-USE AND RESOURCE RECOVERY OPPORTUNITIES FOR URBAN AND PERI-URBAN AREAS IN INDIA

India's water resources are under severe stress resulting from overexploitation and pollution. **PAVITRA GANGA** links directly to the Namami Gange programme and builds on existing cooperation between EU/India, supported by national governments. The objective is to fulfil SDG6 by unlocking the environmental and economic benefits of municipal wastewater treatment and reuse solutions for urban and peri-urban areas in India.

**By focussing on the three pillars we ensure maximum impact:**

**1. People:** we create social awareness on wastewater through a participatory monitoring approach. We create a community of practitioners by the establishment of open innovation sites and training & learning network.

**2. Planet:** we focus on rejuvenation of the river by removing organic pollutants, heavy metals and emerging compounds. We provide technology innovations to upgrade existing wastewater infrastructure and add treatment systems to open drains, resulting in the improved water quality of receiving rivers.

**3. Profit:** we apply the principles of waste-to-energy, water reuse and resource recovery. Solutions are cost-effective and require low investments making them particularly suited to the Indian market.

**In collaboration with local stakeholders and supported by industrial partners we are building on the pilot site already established at the Barapullah Drain (New Delhi) and developing a new pilot site at the Jajmau STP (Kanpur).**

### PAVITRA GANGA CONSULTATION WORKSHOPS

**AIM:** At the workshops in Delhi and Kanpur, the innovative wastewater treatment and reuse technologies that are being developed and piloted in the Pavitra Ganga Project in Delhi and Kanpur will be briefly presented. For the Project it is important to better understand the **current wastewater situation and practices**, what the **past experiences** with wastewater treatment, reuse and resource recovery are, and how to **envisage the future** of wastewater treatment, reuse and resources recovery in India.

#### 2 WORKSHOPS IN NEW DELHI AND KANPUR

**New Delhi:** 27<sup>th</sup> February 2020, 10:00-16:30 at TERI, hosted by Mr. Anshuman.

**Kanpur:** 6<sup>th</sup> March 2020, 10:00-16:30 at IIT Kanpur, hosted by Prof. Vinod Tare and Prof. Purnendu Bose.

**PARTICIPANTS:** You are selected on the basis of your expertise and experience in the local context, and we hope you will be available for one of the workshops. Your contribution is absolutely crucial.

**WORKSHOP STRUCTURE:** The workshop will be split up into **3** different facilitated sessions:

**Session 1:** A plenary to introduce the project and workshop followed by a consultation.

**Session 2:** Engagement on the current opportunities and constraints of wastewater treatment systems with focus on policy, governance practices, and technologies.

**Session 3:** Discussion on past experiences with wastewater treatment, reuse and resource recovery.

**Conclusion:** To gather the key take-away messages from the workshop on future wastewater treatment possibilities and the ways forward for Pavitra Ganga.



## PAVITRA GANGA PROJECT PARTNERS

### Indian Partners

The Energy and Resources Institute (**TERI**), Indian Institute of Technology, Delhi (**IITD**), Indian Institute of Technology, Kanpur (**IITK**), Institute for Resource Analysis and Policy (**IRAP**), Ion Exchange (I) Ltd. (**IEI**)

### European Union Partners

Vlaamse Instelling voor Technologisch Onderzoek N. V. (**VITO**), Fachhochschule Nordwestschweiz (**FHNW**), Stichting IHE Delft Institute for Water Education (**IHE Delft**), Stichting AKVO (**AKVO**)  
Consiglio Nazionale delle Ricerche (**CNR-IRSA**), Technische Universiteit Delft (**TU Delft**), Aquafin NV, Aqua-Q, Hochschule Bochum (**HBO**)



The Energy and Resources Institute



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Indian Institute of Technology Delhi



IIT  
Kanpur



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