

Innovative low-cost technologies for water quality management in India

WATER MANAGEMENT IN INDIA

Water quality management

Water quality management has become a critical issue for India, as the water crisis was recently exacerbated by the dangerous effects of climate change such as desertification and drought. India is now experiencing serious challenges in the provision of drinking water, waste-water treatment and management of water systems. The close connection between global and local causes and effects shows that equally international efforts are needed from the research community and policymakers, in order to tackle the situation and provide affordable and effective solutions.

EU-India Water Management Task Force

The European Commission under the Horizon 2020 programme and the Government of India have decided to co-fund outstanding projects to co-create, co-design and co-develop innovative low-cost technologies for tackling India's issues on water and sanitation. These complementary projects are working to address water pollution challenges in India, each focusing on a different region involving local actors and communities.

Key results



Low-cost solutions to benefit local communities



Enhanced technologies for water management



Scientific collaboration between European and Indian researchers

Who benefits?



People of India



SMEs & Industry



Researchers



Policy makers



The HRB - Horizon Result Booster is an initiative funded European Commission, Directorate General for Research and Innovation, Unit J5, Common Service for Horizon 2020 Information and Data.

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#IndiaEUWater

Challenges

- ◆ **Societal:** Tackle the water crisis and support local communities across India.
- ◆ **Scientific:** Create centres of excellence in India for water management research.
- ◆ **Technological:** Develop and improve excellent water management solutions, tailored for the Indian context.
- ◆ **Industrial:** Make sure these solutions are affordable and can be implemented, manufactured and distributed across different regions of India.

Projects



Photo-irradiation and adsorption-based novel innovations for water treatment. paniwater.eu

PANIWATER: Grant Agreement No. 820718



Co-creation of a versatile multiparameter real-time sensor for water quality, based on nanotechnologies. lotus-india.eu

LOTUS: Grant Agreement No. 820881



Bio-mimetic and phyto-technologies designed for low-cost purification and recycling of water. india-h2o.eu

INDIA-H2O: Grant Agreement No. 820906



Unlocking wastewater treatment, water reuse and resource recovery opportunities in India. pavitra-ganga.eu

PAVITRA GANGA: Grant Agreement No. 821051



Cost-effective and sustainable technologies for water & wastewater treatment, monitoring and safe water reuse in India. pavitr.net

PAVITR: Grant Agreement No. 821410



Strategic planning for water resources, development and implementation of novel biotechnical treatment solutions and good practices. en.uit.no/project/springeuiindia-eu

SPRING: Grant Agreement No. 821423



Identifying best available technologies for decentralized wastewater treatment and resource recovery for India. projectsaraswati2.com

Saraswati 2.0: Grant Agreement No. 821427

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