



blo-mimetic and phyto-techNologies Designed for low-cost purficAtion and recycling of water

Fact Sheet

Project Information

INDIA-H2O

Grant agreement ID: 820906

[Project website](#)

DOI
[10.3030/820906](https://doi.org/10.3030/820906)

Project closed

EC signature date
26 October 2018

Start date
1 February 2019

End date
31 July 2024

Funded under
SOCIETAL CHALLENGES - Climate action,
Environment, Resource Efficiency and Raw
Materials

Total cost
€ 3 797 087,61

EU contribution
€ 2 551 348,00

Coordinated by
THE UNIVERSITY OF
BIRMINGHAM
 United Kingdom

This project is featured in...



Sustainable solutions for water management in India

Project description

Cleaning wastewater through osmosis

Used in nature for a long time – by plants, trees and human cells – forward osmosis is today considered a promising technology for wastewater treatment. It involves the transport of water molecules across a semi-permeable membrane. The EU-funded INDIA-H2O project will develop and demonstrate novel batch-reverse osmosis technology for high-recovery, low-cost water treatment. For rural domestic water treatment, the new system will remove salinity and emerging pollutants like agricultural chemicals. For industrial wastewater in textile, desalination and dairy, the project will develop a cost-effective hybrid technology for recycling with minimum liquid discharge. The project will test its technologies in India's arid state of Gujarat where surface water resources are scarce. Policy briefs on economic models and governance agreements will be disseminated.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [environmental engineering](#) > [waste management](#) > [waste treatment processes](#) > **[recycling](#)**

[engineering and technology](#) > [environmental engineering](#) > [water treatment processes](#) > **[wastewater treatment processes](#)**

[engineering and technology](#) > [materials engineering](#) > **[textiles](#)**

[natural sciences](#) > [chemical sciences](#) > [inorganic chemistry](#) > **[post-transition metals](#)**

[engineering and technology](#) > [chemical engineering](#) > [separation technologies](#) > **[desalination](#)**



Keywords

[Desalination](#)

[Forward Osmosis](#)

[Reverse Osmosis](#)

Programme(s)

[H2020-EU.3.5. - SOCIETAL CHALLENGES - Climate action, Environment, Resource Efficiency and Raw Materials](#)

MAIN PROGRAMME

[H2020-EU.3.5.4. - Enabling the transition towards a green economy and society through eco-innovation](#)

[H2020-EU.3.5.2.2. - Developing integrated approaches to address water-related challenges and the transition to sustainable management and use of water resources and services](#)

Topic(s)

[SC5-12-2018 - EU-India water co-operation](#)

Call for proposal

[H2020-SC5-2018-2019-2020](#)

[See other projects for this call](#)

Sub call

H2020-SC5-2018-1

Funding Scheme

[RIA - Research and Innovation action](#)

Coordinator



THE UNIVERSITY OF BIRMINGHAM

Net EU contribution

€ 657 859,50

Total cost

€ 721 962,50

Address

Edgbaston
B15 2TT Birmingham
 **United Kingdom** 

Region

West Midlands (England) > West Midlands > Birmingham

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Participants (20)

 **INTERNATIONAL PARTNER** 

ARVIND LIMITED 

 India

Net EU contribution

€ 0,00

Address

NARODA ROAD GUJARAT
380025 Ahmedabad 

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost

No data

 **INTERNATIONAL PARTNER** 

GANDHINAGAR DISTRICT CO OP MILK PRODUCERS UNION LTD 

 India

Net EU contribution

€ 0,00

Address

SECTOR 25 K ROAD GIDC ELECTRONICS ESTATE
382024 Gandhinagar 

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

No data

 INTERNATIONAL PARTNER

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH 

 India

Net EU contribution

€ 0,00

Address

RAFI MARG 2
110001 NEW DELHI 

Activity type

Research Organisations

Links

- [Contact the organisation](#)  [Website](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

No data

 INTERNATIONAL PARTNER

GUJARAT CHAMBER OF COMMERCE AND INDUSTRIES 

 India

Net EU contribution

€ 0,00

Address

GUJARAT CHAMBER OF COMMERCE AND INDUSTRY - SHI AMB MILLS GUJARAT
CHAMBER BUILDING
380009 Ahmedabad 

Activity type
Other

Links
[Contact the organisation](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
No data



PANDIT DEENDAYAL PETROLEUM UNIVERSITY

 India

Net EU contribution
€ 0,00

Address
RAISAN GANDHINAGAR
382007 Gandhinagar 

Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
€ 633 770,00



**CENTRO DE INVESTIGACIONES ENERGETICAS MEDIOAMBIENTALES Y
TECNOLOGICAS**

 Spain

Net EU contribution
€ 204 892,50

Address

AVENIDA COMPLUTENSE 40
28040 MADRID 

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Research Organisations

Links

- [Contact the organisation](#) 
- [Website](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

€ 204 892,50



AQUAPORIN AS

 Denmark

Net EU contribution

€ 335 250,00

Address

NYMOLLEVEJ 78
2800 Kobenhavn 

SME 

Yes

Region

Danmark > Hovedstaden > Københavns omegn

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

€ 370 250,00

 INTERNATIONAL PARTNER 

Aquaporin Asia Pte. Ltd.

 Singapore

Net EU contribution

€ 0,00

Address

"1 CleanTech Loop #03-05 CleanTech One"

637141 Singapore 

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



STICHTING IHE DELFT INSTITUTE FOR WATER EDUCATION

 Netherlands

Net EU contribution

€ 315 538,75

Address

WESTVEST 7

2611 AX Delft 

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 315 538,75



ACONDICIONAMIENTO TARRASENSE ASSOCIACION

 Spain

Net EU contribution

€ 431 725,00

Address

CARRER DE LA INNOVACIO 2
08225 Terrassa 

Region

Este > Cataluña > Barcelona

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost

€ 431 725,00



GOVIND BALLABH PANT KRISHI EVAM PRODYOGIK VISHWAVIDYALYA

 India

Net EU contribution

€ 0,00

Address

DIST UDHAM SINGH NAGAR UTTARAKHAND
263145 Pantnagar 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost

€ 132 119,00



MODUS RESEARCH AND INNOVATION LIMITED

 United Kingdom

Net EU contribution

€ 235 837,25

Address

UNIT D TAYSIDE SOFTWARE CENTRE GEMINI CRESCENT DUNDEE TECHNOLOGY PARK
DD2 1TY DUNDEE 

SME 

Yes

Region

Scotland > Eastern Scotland > Angus and Dundee City

Activity type

Research Organisations

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

€ 235 837,25



BEN-GURION UNIVERSITY OF THE NEGEV

 Israel

Net EU contribution

€ 215 256,25

Address

.
84105 Beer Sheva 

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#)  [Website](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

€ 215 256,25



DAVEY PRODUCTS

 India

Net EU contribution

€ 0,00

Address

**C440 NORTH PHASE AMBATTUR INDUSTRIAL STATE
600053 Chennai** 

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 77 336,00



Advanced Center for Water Resources Development & Management 

 India

Net EU contribution

€ 0,00

Address

**SUVIDYA BUNGLOW, PLOT NO. 27, LANE NO. 3, KSHIPRA ARVENAGAR
411052 Pune** 

SME 

Yes

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



JADAVPUR UNIVERSITY

 India

Net EU contribution

€ 0,00

Address

**RAJA S C MALLICK ROAD JADAVPUR 188
700032 Kolkata** 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 50 350,00



ENVIROCHEM SERVICES (OPC) PVT LTD 

 India

Net EU contribution

€ 0,00

Address

**A-12, NR. DHARTI NAMKEEN, GROUND FLOOR PLOT NO. A- UDHNA UDHYOG NAGAR,
ROAD 3 UDHNA
394210 SURAT** 

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



FUNDACION CENTRO TECNOLOGICO DE INVESTIGACION MULTISECTORIAL

 Spain

Net EU contribution

€ 114 500,00

Address

PARQUE EMPRESARIAL ALVEDRO, CALLE H NUMERO 20
15180 Culleredo 

Region

Noroeste > Galicia > A Coruña

Activity type

Research Organisations

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

€ 114 500,00



ASTON UNIVERSITY

 United Kingdom

Net EU contribution

€ 40 488,75

Address

ASTON TRIANGLE
B4 7ET Birmingham 

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#)  [Website](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

€ 40 488,75



COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

 India

Net EU contribution

€ 0,00

Address

RAFI MARG 2

110001 NEW DELHI 

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 253 061,61

Last update: 31 March 2025

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European Union, 2025