



India – EU Water Partnership workshop: Water & Industry

Date: September 5th (Delhi) and 6th (Muzaffarnagar)

Introduction

In the framework of the India – EU Water Partnership a 2 day workshop is organized on water & industry. During these 2 days stakeholders from industry, research, policy come together to share best practices from India and EU and to define joint solutions for the paper- and sugar industry in the Hindon basin.

Outline of event

- **Monday September 5**
Round table discussion with Ministry of Water Resources and other relevant stakeholder at premises of CSIR in Delhi to introduce strategic European Technology Platforms, share best practises, ambitions and policies.
- **Tuesday September 6**
Multi stakeholder meeting at Muzaffarnagar with **paper & pulp industry and sugar industry** to explore solutions and to define joint cases between EU and India.

Targeted partners:

- EU Water Supply and Sanitation Technology Platform (WssTP) and European Innovation Partnership (EIP) on water & Industry.
- In association with: EU Delegation, Indian Ministry of Water Resources, UP Government, IFC, Water Resources Group 2030, FICCI, EBTC, Muzaffarnagar Paper Mill Association, Sustain Asia, India Water Partnership, NGO's, paper- and sugar industry and technology suppliers.

Organisation:

Netherlands Enterprise Agency (RVO), CSIR and DLR (Germany) in close cooperation with Indian partners.

This event is initiated by the EU project Indigo Policy which facilitates the dialogue and cooperation between EU and India in different technology fields.

Back ground.

The Government of India and the European Commission have agreed in March 2016 to establish a India EU Water Partnership (IEWP) .

The objective of this Joint Declaration is to strengthen technological, scientific and management capabilities of India and the EU in the field of water management on the basis of equality, reciprocity and mutual benefit.

IEWP organizes workshops, exchange visits in Europe (e.g. on Water Frame work Directive, governance) and is building up a long-term cooperation programme.



For this specific event a multi stakeholder event is planned on September 6 in the Hindon River basin which fits in the lines of IFC, WRG 2030 and IEWP to rejuvenate this region.

The Hindon River case

The Hindon River is a major source of water to the highly populated and predominantly rural population of Western Uttar Pradesh province. The Hindon River originates in the lower Himalayas at Pur ka Tanka village situated in the upper east area of Saharanpur district. The river flows for 260 kms through six districts (Saharanpur, Muzaffarnagar, Meerut, Baghpat, Ghaziabad and Gautambudh Nagar) until it's confluence with the Yamuna River towards south of Tilwara village in Gautambudh Nagar district, downstream of Delhi.

The Hindon River is utilized by a wide range of industrial uses along its length. The Hindon River and its two main tributaries, the Kali (West) and the Krishni Rivers, together have 60 industrial manufacturing units. These industries both extract and discharge large volumes of water for their manufacturing processes often with minimal or no treatment.

The 2030 Water Resources Group – hosted within the World Bank Group by the International Finance Corporation (IFC) is working, in close cooperation with the Uttar Pradesh government, on rejuvenating the Hindon River.

One of the target groups in the Hindon River basin is the paper- and sugar industry in the area of Muzaffarnagar.

EU Experts

Albert Jansen: Chair of European Innovation Partnership on Water Reuse and Recycling. CEO of Water Innovation Consulting (WIC), Member of the Water Supply and Sanitation Technology Platform on Water & Industry.

Inge Genné: Programme manager at VITO on Water management and Technology, Member of the Water Supply and Sanitation Technology Platform on Water & industry.

Christian Kazner Senior Researcher at University of Applied Sciences and Arts Northwestern Switzerland FHNW.

Geatano Casale: Chair of the “ Water beyond Europe” initiative of the Water Supply and Sanitation Technology Platform and expert within Unesco IHE.



Programme (concept)

Day 1, September 5

Delhi

premises of CSIR

Lodi Garden Gate No. 2,

KK Birla Lane (Opposite India International Centre Annex)

New Delhi-110003

Round table meeting with Ministry of Water Resources and technical experts

| Time | What | Speaker |
|------------|--|---|
| 09.30 am | Registration and coffee | |
| 10:00 hrs | Welcome notes and introduction by CSIR | Dr. Amitava Bandopadhyay or Dr. Rama Swami Bansal |
| 10:10 hrs | Brief introduction EU Project Indigo Policy, setting the scene and expectations | Bart Jeroen Bierens |
| 10.20 hts | Brief introduction attendees | all |
| 10:35 hrs | Introduction by EU Delegation on roadmap for India - EU Water Partnership | Henriëtte Faergemann |
| 10.50 hrs | Introduction Indian Ministry of Water Resources | Speaker t.b.d. |
| | Strategic European Water Platforms | |
| 11.10 hrs | Introduction WssTP (Water Supply and Sanitation Technology Platform) by Mr. Gaetano Casale, chair of working group " Water beyond Europe" of WssTP and expert within Unesco IHE. | |
| 11.30 hrs | Introduction European Innovation Partnership on Water (EIP). Industrial wáter re-use and recycling by Mr. Albert Jansen | |
| 11.50 hrs | Q&A | |
| | Best practices Water & Industry | |
| 12.00 hrs | Assessment, improvement and upgrading of industrial effluent treatment plants (ETP) and common effluent treatment plants (CETPs) in Delhi, Gujarat, Maharashtra and Andhra Pradesh by Christian Kazner, Senior Researcher at University of Applied Sciences and Arts Northwestern Switzerland FHNW | |
| 12.20 hrs. | Cooperation by VITO, Flemish Institute for Technological Research by Inge Genné, programme manager at VITO | |
| 12.40 hrs. | Water & Industry at CSIR (speaker t.b.c.) | |



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| 13.00 hrs. | Q&A | |
| 13.10 hrs. | Lunch | |
| 14.00 hrs. | Round table discussion on policies, measures, technologies and collaboration EU and India in the field of water & industry | |
| 15.15 hrs. | End of session and leave to Muzaffarnagar by bus | |
| 19.15 hrs. | Arrival <i>Solitaire Inn Hotel</i> Muzaffarnagar | |
| 20.00 hrs. | Dinner | |

Day 2, September 6

Muzaffarnagar
Solitaire Inn Hotel,

Multi-stakeholder Workshop on Reducing Industrial Pollution in Hindon River Technology experts, Paper and Sugar Industries -

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| 09.30 hrs | Welcome and registration | |
| Setting the context for Reducing Industrial Pollution in Muzaffarnagar | | |
| 10.00 hrs | Welcome notes and introduction by EU Delegation | Henriëtte Faergemann |
| 10.10 hrs | Multi-stakeholder approaches to Hindon River Rejuvenation by 2030 Water Resources Group | Bastiaan Mohrmann |
| 10.20 hrs | Challenges facing the Paper and Sugar Mills | Nitin Verma, Sustain Asia, MD |
| Hindon Rejuvenation: Opportunities for Water Treatment Technologies | | |
| 10.35 hrs | Moving towards Zero Liquid Discharge, Muzaffarnagar Paper Mills Association (MPMA) | Pankaj Aggarwal, MPMA, Chairman |
| 10.50 hrs | Reducing Water Consumption and Optimizing Costs, FICCI Water Audits in Uttar Pradesh | MA Patil, Director, FICCI |
| 11.05 hrs | Best Practices from local Sugar Mills | Shamli Sugar Mills |
| 11.20 hrs | Tea Break | |
| Introducing Strategic European Water Platforms | | |
| 11.35 hrs | Introduction WssTP (Water Supply and Sanitation Technology Platform) | Gaetano Casale, chair of working group "Water beyond Europe" of WssTP |
| 11.50 hrs | Introduction European Innovation Partnership on Water (EIP). Industrial water re-use and recycling | Mr. Albert Jansen |
| Multi Sectoral Best Practices – Industrial Waste Water Treatment | | |



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| 12.05 hrs | Implementing the Charter for Water Recycling and Pollution Prevention, | government |
| 12.20 hrs | Innovative Bioremediation Solutions to Industrial Pollution | IIT Roorkey t.b.c. |
| 12.35 hrs | Best practices CSIR | Speaker t.b.c. |
| 12.50 hrs | Q&A | |
| 13.00 hrs | Lunch | |
| 14.00 hrs | <p>3 Break out sessions</p> <p>Exploring solutions for industrial clusters in India to improve their water footprint using best practices and low cost advanced technologies / equipment that can reduce water footprint and enhance water use efficiencies.</p> <p>In 3 groups major problems, constraints and solutions are discussed for paper- and sugar industry</p> | <p>Moderator 1: Bart Jeroen Bierens</p> <p>Moderator 2: Hans Westphal</p> <p>Moderator 3: t.b.c.</p> |
| 16.00 hrs | Presentation of the results of the break out sessions by moderators | Moderators |
| 16.30 hrs | Defining follow up actions, projects and partnerships | Core Working Group |
| 17.30 hrs | Drinks and networking | |
| 19.30 hrs | Dinner for Visiting Delegates | |

Day 3, September 7

Next morning: Visits to Local Paper and Sugar Industries, NGOs and local Govt.

Afternoon: Drive back to Delhi for late evening flights.

Contact and registration

This workshop is on invitation only. Please contact below persons for information

CSIR

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