Konrad Adenauer Stiftung

Confederation of Indian Industry

CII-TRIVENI WATER INSTITUTE

Report on

Interactive Session
With German Parliamentarian & Technocrats on Innovative Water Management Strategies
19th April 2016: Hotel Imperial, Janpath, New Delhi

A Round table Interaction was jointly organised by **CII - Triveni Water Institute** and **Konrad-Adenauer-Stiftung (KAS)** with a Member of the German Parliament and technical experts from Germany on 19th April 2016.

The focus of the interaction was mainly on the integrated resource management of • Waste water treatment • Decentralised urban water infrastructure systems • Interactive visual planning systems • Visual analytics of big sensor data • Cameras as underwater sensors • Image enhancement and computer vision. The deliberations focused on the status of these initiatives and their application as planned in India as well as the possibilities of cooperation between German and the Indian companies.

The interaction was enriched by **Mr. Peter Stein** Member of the German Parliament, **Mr. Oliver Schwarz**, Director- International Projects, Inros Lackner and **Prof. Dr. Uwe Freiherr von Lukas**, Head of Competence Center Maritime Graphics, Fraunhofer-Institut für Graphische Datenverarbeitung (IGD) along with the various stakeholders from the Water Sector and the officials from the Ministry of Water Resources,

River Development and Ganga Rejuvenation, Government of India, who shared their experiences with regard to the water management strategies.

Mr. Peter Stein, German Parliamentarian, opened the forum by stating the possibilities of Indo-German collaboration keeping in mind the technology and experience, which Germany possesses as **Mr. Stein** expressed his interest to partner with the private sector companies in India with the support of German technology.

Mr. Sushil Gupta, Advisor, National Water Mission, Ministry of Water Resources, River Development & Ganga Rejuvenation, Govt. of India stressed upon the per capita water storage in India, wherein India has 200m^3/ capita of storage as compared to developed countries where the storage is 5000m^3/capita. **Mr. Gupta** also deliberated upon the policy interventions taken up by the Government of India, which is currently working on a national framework law taking inputs from the European framework. It will define the overarching laws of surface and ground water management. **Mr. Gupta**, mentioned that waste water is considered as a big resource for industry, while the amount of urban waste water generated is almost 30000 million litres / day, around 13000 Million litres of Industrial waste water is generated per day, which through proper technologies could be treated to be usable for Infrastructure, railways, refineries or other non-drinking purposes.

Mr. Oliver Schwarz, Director- International Projects, Inros Lackner mentioned that his company deals with inland waterways, flood basins, infrastructure works, ensuring water use, reuse and distribution & storm water drainage system. Mr. Schwartz also mentioned that while there are several important aspects and projects that they could start working upon in India, it would only be prudent to prioritise and then focus on certain pilot projects where financing and a sustainable model for the project could be worked out to move forward together.

Prof. Dr. Ing. Uwe Freiherr von Lukas, Head of Competence Center Maritime Graphics, Fraunhofer-Institut für Graphische Datenverarbeitung (IGD), introduced Fraunhofer, a German organisation with over 24000 employees which covers every aspect of water management and support companies ranging from microelectronics to materials and chemicals. **Dr. Lukas** shared the German experience with the Indian stakeholders where he mentioned about their model of financing wherein they got 25% basic funding from the state and 75% was acquired from the market. **Dr. Lukas** also highlighted the need for providing expertise on joint research projects for a market or technology with funding from the European Union in an international consortium. Talking about water, **Dr. Lukas** also mentioned about 70 different institutes working under Fraunhofer at each location with focused technologies on the topics such as water like filter system, sensor systems, and technology for underwater vehicles which could be adopted to the Indian Industry's needs as well.

Dr. Kapil Narula, ED and CEO, CII - Triveni Water Institute, highlighted the focus areas of the Institute, which included work in drought prone areas of India, working with state and central govt. to take ideas forward in terms of the state of the art technologies, working in large coastal areas and urbanising watershed, where watershed or river basin is taken as a unit of planning. Urbanising the watershed is also an important aspect from the point of view of the Hon'ble Prime minister's programme on Smart Cities.

A film was run for the participants which highlighted the unique features of the CII – Triveni Water Institute (CII-TWI) as it brought together Government, Industry and Community to work towards a common vision. The core purpose of CII-TWI is to transform water

conservation and management in India by changing the mind-set and behaviour of stakeholders resulting in more effective and sustainable water management practices at the grassroots level. The film depicted that CII-TWI has a holistic and integrated approach towards water security. It aims to ensure the availability and equitable distribution of limited fresh water resources to secure growth and integrate development for future generations. CII-TWI offers services under the verticals of Water advisory (Water Audits), Projects, Training & Capacity Building & Programmes and Conferences. The film also highlighted the flagship programme of the Institute, '**The Water Innovation Summit'** where deliberations are held amongst national and international stakeholders on pertinent issues with regard to the Water Sector and how it impacts the development of the country. The programme also demonstrates and showcases some of the promising technologies, both nationally and internationally, that could benefit the nation. It was mentioned that the 2nd Water Innovation Summit would be held in September 2016 at New Delhi.

Earlier, **Mr. Babu Khan,** Senior Director, Confederation of Indian Industry in his welcome address highlighted the challenges, faced by India currently, which significantly included the technological challenges, infrastructural challenges, Government regulations and the challenges related to pricing.

The deliberations at the Roundtable also focused upon the topics of desalination , water pricing , economic model , image sensing , satellite based infrastructure, water framework for Smart cities which focuses on storm water management , 24 x 7 Water Supply , rationalised water pricing system , recycle and reuse and recovery of waste water. The session was well attended by industry representatives from the water sector.

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