

*Coca Cola Department of
Regional Water Studies*

*Quarterly Report -
July - September 2017*



Highlights

1. Events, Workshops, Seminars, Meetings

I. Review of Water Quality Modelling capabilities of DELWAQ model

This project has been assigned to the Department by Ministry of Water Resources. DELWAQ is a component of RIBASIM system (River Basin Simulation Model). RIBASIM is a set of modelling software designed for strategic planning and basin management.

The key input parameters involved in RIBASIM are:

- Water demand: Spatially explicit demographic, economic, crop water requirements; current and future water demands and pollution generation.
- Economic data: Water use rates, capital costs, discount rate.
- Water supply: Historical inflows at a monthly time step; groundwater sources
- Scenarios: Reservoir operating rule modifications, pollution changes and reduction goals, socioeconomic projections, water supply projections.

We have evaluated the model capability for river Yamuna and found that based on pollution loads and scenario development, the pollution can be predicted for downstream nodes. Strategic planning of river basins requires macro scale understanding of water quality and impact on downstream due to upstream pollution which may be caused by lack of sewage treatment capacity, increase in industrial pollution.

II. Article published in News daily: One of the students of the Department of Regional Water

Studies named **Zeba Zoariah Ahsan** (MTech 2016-2018 batch) published articles for a leading daily 'Assam Tribune'. The article titled "Toilet Trails" by Zeba that appeared in the news daily on **Aug 11, 2017**, draws attention towards starting the building and use of toilet as sanitation movement in India and making whole

India "Open Defecation Free (ODF). In the article, she has shared her experience of visiting the Toilet Museum in Delhi as one of the participants in the WASH summer school



programme organised by Coca Cola Department of Regional Water Studies, TERI University.

III. Prof. Arun Kansal delivered a lecture on ‘**Sustainability education: challenges, pedagogy and current trends**’ at **Hyderabad, on August 14, 2017**. The workshop title was “Harvard Model United Nations INDIA-2017”.



IV. Prof. Arun Kansal delivered a lecture during the Sustainability Sensitizing Workshop at School of Planning and Architecture, New Delhi on “**Impact of Urban Development on Environment - Evolving Technologies for Environmental Management**” at **Delhi on August 29, 2017**. He shared his thoughts and experience with Post Graduate Environmental Planning students on issues of sustainability.

V. Prof. Arun Kansal delivered lectures during one week training programme on ‘**Municipal Waste Management- Bio Composting Landfill Gas Management & Control Waste to Energy and Implementation of construction and Demolition Waste Rules, 2016**’ organised from **September 04-08, 2017** at HIPA Complex, Gurugram. His lectures were on themes indicated below:

Date/Day	Time	Topic
08.09.2017 Friday	10:00 AM - 01:00 PM	<ul style="list-style-type: none"> • Municipal Solid Waste Management Options & Opportunities • Technical Choices for Municipal Solid Waste Disposal

Haryana Institute of Public Administration (HIPA) is an apex Institution primarily engaged in Training and Orientation programmes for the State. This course was designed for Class I & II Officers from the Department of Environment, Govt. of Haryana and was intended to cover the following important points:

- ❖ Measures for adopting green growth;
- ❖ Financing Mechanisms;

- ❖ Enforcement of rules;
- ❖ Involvement of Informal sector;
- ❖ Guidelines for the Selection of Site for Land filling &
- ❖ Construction and Demolition Waste Management Rules, 2016.

VI. Lecture Series: During this period an expert lecture was delivered by Dr. Sukanya Das on “Quantifying Health Impact of Water Related Diseases” on **28 August 2017**. Another lecture on “Ground Water Management-Current Issues” was delivered by Ms. Sushmita Mandal on **7 September 2017**. Both the lectures were highly appreciated by students.

VII. Institutional Contract signed between TERI University-India, ICIMOD-Nepal and Samtse College of Education, Royal University of Bhutan (1 August 2017 – 30 April 2018): An Institutional Contract was made on August 1,2017, by and between the International Centre for Integrated Mountain Development (ICIMOD),Nepal, and Samtse College of Education, Royal University of Bhutan and TERI University, New Delhi, India with a purpose to build partnership linkages and exchange of knowledge through interactions among Bhutan, Nepal and Indian HUC partners for a long term association to work on water sustainability assessment of Himalayan cities. In Himalayan cities, freshwater ecosystems are particularly fragile and vulnerable because they are in the region characterised by young fold mountains with high elevation and steep gradients and there is increasing evidence in the landscapes of anthropogenic disturbances as human settlements are confined mostly to interior river valleys and a strip of southern plains. The objectives of the contract is to establish strong network and team building with the partner institutions in relation to sustainability of water resources management.

VIII. Training of Trainers Workshop at Chennai: Ms. Ranjana Ray Chaudhuri delivered a lecture on Sustainable Development Goal 6 - Clean Water & Sanitation in the Training of Trainers Workshop held in Chennai on **16-17 September, 2017**.



2. Academic

Graduating batch: The third batch of M.Sc/M.Tech students graduated on 15 Jul 2017. The batch had 3 M.Sc and 4 M.Tech students. The final placement status of the students as of date is as follows:

S.no.	Name of the student	Internship organisation	Placement Status
1	Sridhar S	University of Colorado Boulder	Placed with TATA Trust
2	Pankaj Notani	Sharda University	Placed with Pratibha Syntex
3	Bhavya Chawla	Government of India	Government of India, Consultant
4	Pragya Bhatt	TERI University	Went for Higher Studies
5	Swekritha B.S	Hindustan Coca Cola Beverages Pvt Ltd	Placed with Hindustan Coca-Cola Beverages Pvt Ltd (HCCB)
6	Ashray Tyagi	The Energy and Resource Institute	Jugapro, Solidaridad,
7	Aditya Jaiswal	Department of River Rejuvenation, Art of Living	Placed with Global Hydrological Solutions