

## **Activity Report**

**Name of the conference/workshop:** Capacity Building Training Program as Key Resource Centre (KRC) "Rain Water Harvesting and Groundwater Recharge Techniques in Rural Areas"

**Objective of the programme:**

Participants will learn about the concept on various techniques used for rain water harvesting and ground water recharging Design, field implementation and deployment of RWH structures, assessment of ground water recharge and also study some case studies on rain water harvesting and artificial recharge structures.

**Faculty Coordinator:**

1. Dr. Jyotiprakash Padhi (+91 9692023641)
2. Dr. Dillip Kumar Bera (+91 7894470698)

**Resource Person:**

1. Dr. B. Das, Dr. J.Padhi, Dr. S. Moulick, Dr. D.K. Bera , SCE
2. Dr. Ajay Pradhan, MD, C2S2 Ltd., New Delhi
3. Er. Anil Kumar, Associate Director, CH2M Hill, New Delhi
4. Er. Sushant Pattnaik, Asst. Executive Engineer, Directorate of Groundwater Development, Govt. of Odisha
5. Dr. Nihar Ranjan Das, MD, Geoenvitech, Bhubaneswar

**Duration:** 3 days (06-06-2017 to 08-02-2017)

**Schedule/Programme:**

<b>Timing</b>	<b>Name of the Session</b>	<b>Topics covered</b>
<b>Day 1 (6<sup>th</sup> February 2017, Monday)</b>		
9:30 – 10:30 AM		Registration
10:30 - 11:00 AM		Inauguration
11:00–11:15 AM		Overview of the training program by Dr. Bitanjaya Das, Senior Professor, School of Civil Engineering, KIIT
11:15–11:30 AM		Tea Break
11:30 – 12:30 PM	Technical Session – 1	<b>Topic: <i>Rain Water Harvesting: Need, Identification and scope of Groundwater Recharging in Urban &amp; Rural Areas</i></b> <b>Resource Person:</b> Dr. Bitanjaya Das, School of Civil Engineering, KIIT
12:30-1:15 PM	Technical Session – 2	<b>Topic: <i>Identification of Potential Groundwater Recharge Zones for Natural Recharging</i></b> <b>Resource Person:</b> Dr. Bitanjaya Das, School of Civil Engineering, KIIT
1:15 – 2:30 PM		<b>Lunch Break</b>
2:30 – 4:00 PM	Technical Session – 3	<b>Topic: <i>Estimation of Yield of Catchment and Sizing of Storage Capacity of Reservoir</i></b> <b>Resource Person:</b> Dr. JyotiprakashPadhi, School of Civil Engineering, KIIT
4:00 – 4:15 PM		<b>Tea Break</b>
4:15 – 5:45 PM	Technical Session – 4	<b>Hands on Session: <i>Estimation of Yield of Catchment and Sizing of Storage Capacity of Reservoir</i></b> <b>Resource Person:</b> Dr. JyotiprakashPadhi, School of Civil Engineering, KIIT
<b>Day 2 (7<sup>th</sup> February 2017, Tuesday)</b>		
9:00 – 10:00 AM		<b>Visit to KIIT and KISS Campuses</b>
10:00 – 11:30 AM	Technical Session – 5	<b>Topic: <i>Rainwater Harvesting and Infiltration Techniques – National and International Experiences</i></b> <b>Resource Person:</b> Dr. Ajay Pradhan, MD, C2S2 Ltd., New Delhi

11:30 – 11:45 AM	<b>Tea Break</b>	
11:45 – 1:15 PM	Technical Session – 6	<b>Topic:</b> <i>Policy and Technology of Rainwater Management – Experiences from India and Abroad</i> <b>Resource Person:</b> Dr. Ajay Pradhan, MD, C2S2 Ltd., New Delhi
1:15 – 2:30 PM	<b>Lunch Break</b>	
2:30 to 4.30 PM	Technical Session – 7	<b>Topic:</b> <i>DPR for Artificial Ground Water Recharging through Storm Water Runoff.</i> <b>Resource Person:</b> Er. Anil Kumar, Associate Director, CH2M Hill, New Delhi
4:30PM-4.45PM	<b>Tea Break</b>	
4.45PM-5.45PM		<b>Topic:</b> <i>Roof Top Rain Water Harvesting: Concept, Policy &amp; Programme of Govt. of Odisha</i> <b>Resource Person:</b> Er. Sushant Pattnaik, Asst. Executive Engineer, Directorate of Groundwater Development, Govt. of Odisha
<b>Day 3 (8<sup>th</sup> February 2017, Wednesday)</b>		
10:00 – 12:00 PM	Technical Session – 8	<b>Topic:</b> <i>Rain Water Harvesting System in Odisha: Case Studies</i> <b>Resource Person:</b> Dr. Nihar Ranjan Das, MD, Geoenvitech, Bhubaneswar
12:00 – 12:15PM	<b>Tea Break</b>	
12:15 – 1:15 PM	Technical Session – 9	<b>Topic:</b> <i>Guidelines and Practical Tools on Rain water quality</i> <b>Resource Person:</b> Ms. Sananda Sarkar, Asst. Professor, School of Civil Engineering, KIIT
1:15 – 2:30 PM	<b>Lunch Break</b>	
2:30 – 3:30 PM	<b>Interactive session among the Participating Officers on Rainwater Management for their Official Jurisdiction Area</b> <b>Resource Persons:</b> Dr. Dillip Kumar Bera and Dr. Jyotiprakash Padhi, School of Civil Engineering, KIIT	
3:30 – 4:30 PM	<b>Presentation by the Participating Officers</b>	
4:30 – 4:45 PM	<b>Tea Break</b>	
4:45 – 5:45 PM	Training Assessment, Feedback and Valedictory function	

**Summary:**

KIIT successfully conducted the training programs under Key Resource Centre declared by Ministry of Drinking Water & Sanitation to train 35-40 Nos. of Asst. Executive Engineers and above from Public Health Department of 5 different states. The programme coverage include introduction to rainwater harvesting and groundwater recharge techniques, description of rain water harvesting and ground water recharge methods, site selection and planning of water harvesting and recharge schemes, hydro-geological aspects of rainwater harvesting, design criteria for different types of recharge structures including rooftop rainwater harvesting (RTRWH) and mapping of groundwater recharge zones using GIS.



**Full Name of Faculty Coordinator: Dr. Jyotiprakash Padhi**

**Date: 10.2.2017**



**Photographs:**







