









IE(I) STUDENTS' CHAPTER - CIVIL CHAPTER CODE: 388120/BVME/CV **B.V.M ENGINEERING COLLEGE,** V.V. Nagar – 388120.

Chairman: Prof. (Dr.) S.D. Dhiman

Faculty guide: **Prof. A.N. Bhavsar** Faculty Advisor: **Prof. N.F. Umrigar**



Organized By IE(I) Students' Chapter Civil, In Association with BVM Alumni Association, Environmental Engineering Section Civil Department, Birla Vishvakarma Mahavidyalaya Engineering College (An **Autonomous Institution**)

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Faculty Co-ordinators:

Prof. Neha Patel

Dr. Reshma Patel

Prof. Jignesh Brahmbhatt

Date: 21st March 2023

Venue: B.V.M Auditorium

Total Participants: 260





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Topic of the Expert Session:	"Be The Change: Conserve Rain Water"
Organization and Department of The Expert:	SVNIT(Surat), Civil Engineering Department
Principal of the Institution:	Prof. (Dr.) Indrajit Patel
Department:	Civil
Head of the Department:	Dr. S. D. Dhiman
Year/Semester of the Students:	2 nd 3 rd and 4 th year civil Students
Specific Subject:	Environmental Engineering
Date and Time of Session:	21st March 2023, 10:30 am-12:30 pm
Venue:	B.V.M Auditorium
No. of Days:	1
Faculty Coordinator's:	Prof. Neha Patel Dr. Reshma patel Prof. Jignesh Brahmbhatt
Total No. Of Students:	260

Summary Table







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"Be the Change: Conserve Rain Water"

OBJECTIVE-: To enlighten the students with the significance of rain water harvesting and acquaint them with numerous methods of rainwater harvesting for a sustainable and prosperous life.

DESCRIPTION

IE(I) Students' Chapter Civil in association with Environmental Engineering Section, Civil Department of Birla Vishvakarma Mahavidyalaya Engineering college organized an expert talk on "Be the Change: Conserve Rain Water" to celebrate World Water Day on 21st march 2023 from 10:30am-12:40pm. Eminent Speaker Dr. Sanjaykumar M. Yadav from Civil Department SVNIT, Surat was invited, who delivered an informative lecture.

The event commenced with Dr. I.N. Patel (Principal, B.V.M College) sharing his wisdom with the students, post which Prof. (Dr.) S.D. Dhiman (HOD, Civil Department) introduced our speaker with a delightful speech.

EXPERT TALK

The session began after the warm welcome. Dr.Sanjaykumar started by explaining the current global demand of water which is around 4600 km3 p.a., he further showcased UN water development report of 2019 stating that water demand would increase by 20% to 30% by 2050 up to 5500 to 6000 km³ p.a., and by 60% in the agricultural sector by the end of 2025. To further enlighten the participants about the significance of rain water harvesting he showcased some reports by Ministry of Jal Shakti which included-:

Report of NITI Ayog

- 21 Indian cities will run out of ground water in near future.
- 40% of India will not have access to potable water by 2030.
- In 2015,16 14 of the 28 states scored below 50% on water Management
- Gujarat scored best 76%
- Madhya Pradesh 69%
- Andhra Pradesh 68%
- Karnataka 56%

Chennai Report (19 June 2019)

- Day Zero Almost no water was left (4 reservoirs were dried out).
- Two years of deficit monsoon, particularly late 2017 and throughout 2018 led to crisis.
- Schemes were released to sell water at high rates.





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• The outcome of this event was constructive as the government took some stern actions to resolve this issue and introduced new regulatory schemes to save water.

Further moving onto the insights of the session Dr. Sanjaykumar Yadav showcased some case studies depicting the predicted availability of water by 2050, The case studies also predicted that water level of wells would deplete by 26%.

SOLUTIONS

- Artificial Recharge to Ground Water (ASCE 2011).
- The natural laws govern recharge.
- Devising structured plans for systematic irrigation.
- Creating awareness for rain water harvesting.

After giving some solutions for recharging the ground water table the session took an enthralling turn where in our expert speaker narrated the story of **Rajendra Singh**, prominently known as Water Man of India. He narrated the anecdote of how Rajendra Singh replenished water flow in dried rivers of Rajasthan.

Below is the gist of the anecdote-:

Illustration of the plan-:

- Decided to create check dams on Arvari river in Alwar district of Rajasthan (Driest region in Rajasthan) and converted this dead river into perennial river.
- Step 1- Understanding water sources and dependency.
- Step 2- Conservation of water (Rain water harvesting/Waste water management)
- Step 3- Create awareness among the community to save water.

Further he talked about some initiatives taken by Aamir Khan for Artificial recharging.

Aamir Khan Launched **Satyamev Jayate Water Camp** for soil and water conservation. This show achieved a milestone of recharging 550 billion litres of water. Reduced the gap between rich and poor. He also shared some **artificial recharging techniques**:

- 1)Direct Surface Technique.
- 2)Direct Sub Surface Technique
- 3)Combination of the above Technique
- 4)Indirect Tanks
- 5) Identification of areas for artificial recharging.

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After briefing about the various techniques, he acknowledged the attendees with Rain Water Harvesting and numerous methods of rain water harvesting which are as follows:

- 1) Rooftop Rain Water Harvesting
- 2) Campus Rain Water Harvesting
- 3) Storm Water Harvesting
- 4) Defunct Quarry

The Rooftop Rain water guidelines are stated in 15797:2008. He also shared some stats regarding flat roof and slope roof rain water harvesting. The session concluded with a Q/A session and felicitation of the chief guest. After the session attendees were provided with refreshments.

IE(I) Students' Chapter Civil is very thankful to Principal Dr. Indrajit Patel, Head of Civil Department Dr. Sanjay Dhiman, Prof. Amit Bhavsar and Prof. N.F. Umrigar for their constant support.

OUTCOMES-:

- Attendees were acknowledged with the significance of rain water harvesting
- Attendees were acquainted with the Methods of artificial recharge and rain water harvesting.
- To develop a sense of comprehensive thinking for a sustainable future.

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DELINEATION-:



Fig. (1) Principal sir addressing the participants



Fig. (2) Dr. S.D. Dhiman introducing the expert





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Fig. (3) Dr. Sanjaykumar Yadav explaining about Water man of India



Fig. (4) Dr. S.D. Dhiman Felicitating the speaker





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Fig. (5) Dr. Sanjaykumar Yadav expressing his gratitude towards the institution





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Fig. (6) Overview of Event





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An Expert talk on "Be the Change: Conserve rain water"

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