

**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)
Managed by Charutar Vidya Mandal**

**Faculty Co-ordinators:
Prof. Neha Patel
Dr. Reshma Patel
Prof. Jignesh Brahmhatt**

**Date: 21st March 2023
Venue: B.V.M Auditorium
Total Participants: 260**



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:	21 st 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 Brahmhatt
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 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.



- 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.



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.

DELINEATION:-



Fig. (1) Principal sir addressing the participants



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



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



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







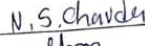

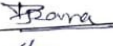








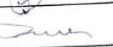
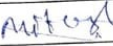
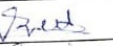
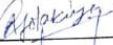

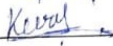
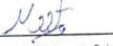



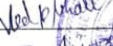




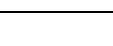
Fig. (5) Dr. Sanjaykumar Yadav expressing his gratitude towards the institution



Fig. (6) Overview of Event

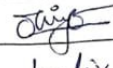
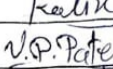
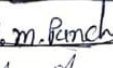
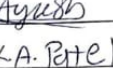
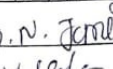
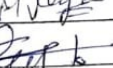
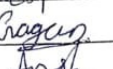
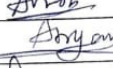
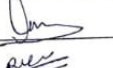
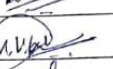
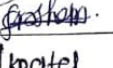
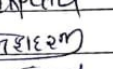
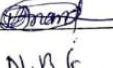
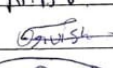
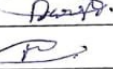
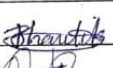
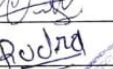






An Expert talk on "Be the Change: Conserve rain water"

Date: 21/03/2023

SR. No.	Name	ID. Number	Signature
1	Manan Patel	22CP047	
2	Manish Avadhya	22CP058	
3	Shah Shashishekh	22CP059	
4	Mehul Mistry	22CP049	
5	Narendru Chavda	22CP015	
6	Yash Puro	22CP024	
7	Divy Rana	22CP039	
8	Vishnu Solanki	22ME082	
9	Yash Stasiya	22ME066	
10	Kartik Lohanbhai	22ME051	
11	Vinayak Kotak	22ME010	
12	Harsh Patel	22ME072	
13	Rajiv Chandraudiyu	22ME092	
14	Manan Doshi	22ME081	
15	Bhramar Kataria	22ME406	
16	Dhruv Shah	22ME087	
17	Bhargav Kathiriyar	22ME091	
18	Milish Koladiya	22CP063	
19	Vincent Kadam	22CP060	
20	Arun Gokuliga	22ME083	
21	Barad Kevil	22CP052	
22	Kevul Hirani	22CP054	
23	Meet Chaudhari	22CP050	
24	Aditya Desai	22CP043	
25	Dhruv Prajapati	22CE087	
26	Bhavya Shah	22CE033	
27	Ved Bhatt	22CE065	
28	Rushikesh Ravipati	21CE008	
29	Romit Rethod	21CE033	
30	Dhruv Rishi	21CE062	
31	Dhruv Vishal	21CE058	

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

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SR. No.	Name	ID. Number	Signature
1.	Umash Shigdel	22ME028	
2.	Kalins Gehel	22ME017	
3.	Patel Veda	22ME024	
4.	Panchal Vraj	22ME027	
5.	Ayush Patel	22ME031	
6.	Keshav Patel	22ME025	
7.	Joshi Om	22ME034	
8.	Manan Vasa	22EL070	
9.	Deep Maheshwari	22EL072	
10.	Gagan Mulviya	22EL057	
11.	Ansh Pandey	22EL073	
12.	Aryan Yadav	22EL054	
13.	OM Parmar	22EL062	
14.	DABHI RUSHIRATSIKH	22CP044	
15.	Bivek Banoija	22CP014	
16.	Kharva Darshan	22CP002	
17.	Dhruv Patel	22CP070	
18.	Hitesh Duggi	22ME068	
19.	Demuni Anand	20CE101	
20.	Nikhil Gehel	22EL064	
21.	Urvish Talada	21CE009	
22.	Darsh Ajmera	21CE017	
23.	Milan Desai	21CE025	
24.	Bhavitik Parmar	21CE014	
25.	Panth Samayya	22ME096	
26.	Rudra Gajera	22ME110	
27.	Abhay Kshirsagar	22ME084	
28.	Panchal Jayesh	22ME118	
29.	Mihir Timbada	22ME408	



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

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1	Shivang	22CP080	S.M.C.
2	DARPII	22ELOGO	N. Deepthi
3	Aradh	22CP078	Ata
4	Romit	22CP069	R.H. Patel
5	Donal	22ELOG8	Bonnel
6	Karamshi	20CE141	Karamshi
7	Krunal	20CE124	Krunal
8	Yash	20CE115	Yash
9	Hitesh	20CE058	Hitesh
10	Aum	20CE014	A
11	Jeel	20CE045	Jeel
12	Prarth	20CE068	P.S. Patel
13	Vipul	20CE086	Vipul
14	Makar	20CE065	M.V. Suthar
15	Yash	21CE311	Yash
16	Haseen	21CE307	Haseen
17	Aniket	21CE312	A.M. Bhatt
18	Harsh	21CE323	Harsh
19	Sagar	20CE142	Sagar
20	Divyesh	20CE136	Divyesh
21	Nayem	22EL032	N.M.G.
22	meat	22CE011	M.R. Bhoi
23	Akash	22EL003	Akash
24	Rajveer	22EL063	Rajveer
25	Nikhil	22EL022	Nikhil
26	Hem	22ME019	Hem
27	Darsh	22EL023	D

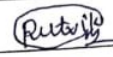

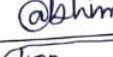
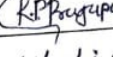
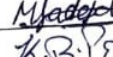
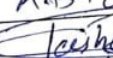
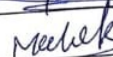
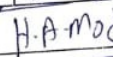



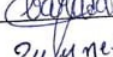

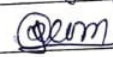
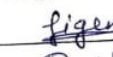
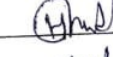
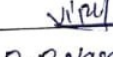
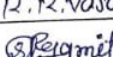
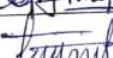
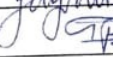

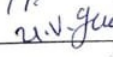
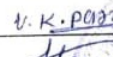






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























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29)	Rutvik M. Pratyapati	20CE158	
30)	Faizan chughhe	22ME001	
31)	Amit Bhimani	19CE024	
32)	Kushyap. Pratyapati	20CE125	
33)	Mayur J. Jadhav	20CE146	
34)	Patel Kenil B.	22CE084	
35)	Kaheer V. Bhoi	22ME074	
36)	Mahesh Joshi	22ME078	
37)	Harsh mode	22ME075	
38)	Priyanshu Khandelwal	21CE088	
39)	Sagar Kumar	20CE138	
40)	Jatin Vora	19CE012	
41)	Rushad. Jivry	19CE052	
42)	Zulu meet	19CE051	
43)	Bhazat Gajjar	19CE092	
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46)	Hetvi chandhvir	19CE129	
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55)	Harsh Vora	22CE322	
56)	Mitesh Vora	22CE304	

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1	Nevil Nakrani	22CP061	
2	Ansh Kubavat	22CP038	
3	Parth Valiya	22CP045	
4	Nasiruddin Mali	22CP019	
5	Taimin Desai	22CP081	
6	Anshul Jani	22CP048	
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9	Utkar Vasoya	22CP046	
10	Tilak Suhagiya	22CP073	
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20	Jay Raulji	22ME085	J.D. Raulji
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22	YASH BHAD	22EL006	Y.M. BHAD
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24	Sahil A. Purohit	22EL020	
25	Rudren Putadhiya	22EL011	
26	Dev. S. Mengar	22ME062	
27	Kaushal K. Tandel	22ME077	
28	Meer N. Lakkad	20CE149	