Report of National Webinar on

'Water Quality Assessment of Indian Rivers'

This is hereby reported that a National Webinar on **'Water Quality Assessment of Indian Rivers'** was organized by Shyam Lal College, University of Delhi under the aegis of DBT Star College Scheme, Waste Management Committee (SAP) and IQAC on **24th February 2022** using Zoom as an online platform (**Annexure 1**). Taking into account the importance of Indian rivers in our lives, government at various levels is trying their best to spread awareness amongst people for cleaning the rivers and controlling the pollution. Many projects are also being run by them. Statistics showed that many crores have been spent in various efforts to clean up the rivers. In this context, University of Delhi has also organized a nationwide campaign titled 'Nadi ko Jano' for crowd sourcing of real time data on rivers. With this aim, **Dr. Sakshi Sharma**, who is a Senior Research Associate at Central Water Commission under the Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti, was the keynote speaker of the day. She talked about the growing concerns of water pollution. She also showed water quality assessment techniques and quality sites where the analyses are carried out by her department. A large number of students and faculty members attended the webinar with great enthusiasm as the techniques and data she presented was directly related to the experiments that they carry out under the academic syllabi in college chemistry laboratories. The feedback forms reflected that a majority of participants found the webinar to be very useful and informative and were highly satisfied with the ideas and concepts so presented (**Annexure 2**). **Prof. Ravi Prakash Teckchandani**, who is currently acting as Dean Recruitment & Promotion and Nodal Officer University of Delhi of Nadi ko Jano Campaign, was also invited as the Special Guest. For this overwhelming success, we are very thankful to **Prof. Rabi Narayan Kar** (Principal, SLC) and **Dr. Ashu Gupta** (Convener, Overall Coordinator DBT, Department of Chemistry) for their support and guidance throughout the organization of this event. Glimpses of the event and attendance of those submitted the feedback forms is attached herewith as **Annexure 3** and **4**, respectively.

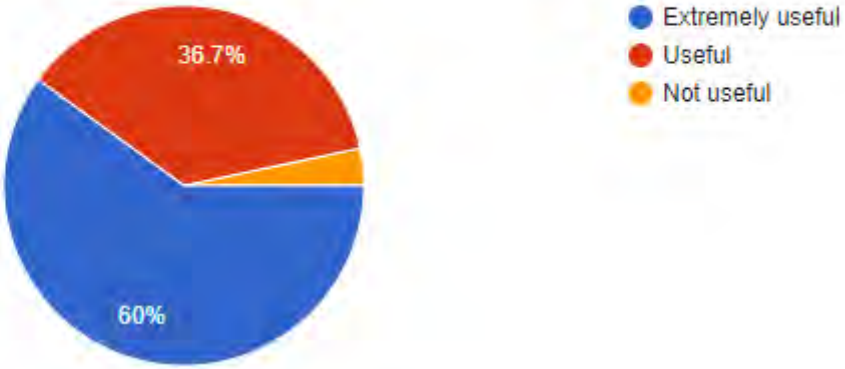
Annexure 1


Department of BioTechnology, Government of India
SLC (University of Delhi)
SHYAM LAL COLLEGE
under the aegis of DBT Star College Scheme,
Waste Management Committee (SAP) and IQAC
Organizes
National Webinar
on
Water Quality Assessment of Indian Rivers
(in association with campaign run by DU "NADI ko JANO")
on 24th Feb 2022 at 04:00 PM using ZOOM
Special Guest
Prof. Ravi Prakash Teckchandani
Dean Recruitment & Promotion
Nodal Officer, DU
Nadi ko Jano Campaign
Keynote Speaker
Dr. Sakshi Sharma
Senior Research Associate
Central Water Commission
Ministry of Jal Shakti
ORGANIZING MEMBERS
Dr. Ashu Gupta
Overall Coordinator DBT,
Department of Chemistry
Dr. Prabhat Sharma
Nodal Officer, SLC
Nadi ko Jano Campaign
Prof. Kusha Tiwari
Coordinator IQAC
Prof. Rabi Narayan Kar
Principal, SLC
Dr. Radhika Gupta
Teacher Coordinator
Department of Chemistry
Aviral, Vansh, Anshum
Student Coordinators
E-certificates will be given!

Annexure 2

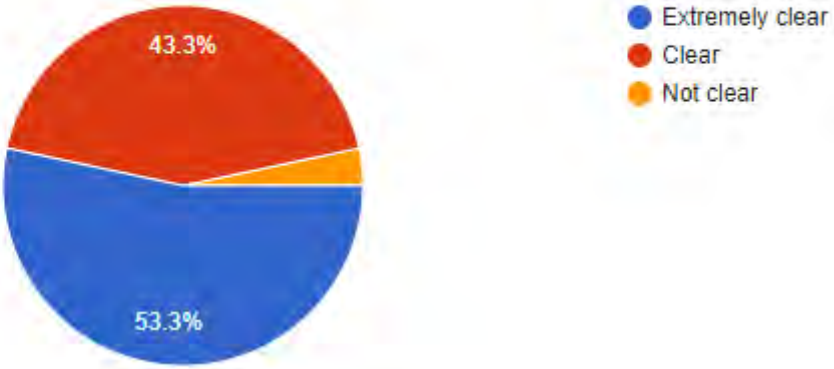
How useful did you find the webinar?

30 responses



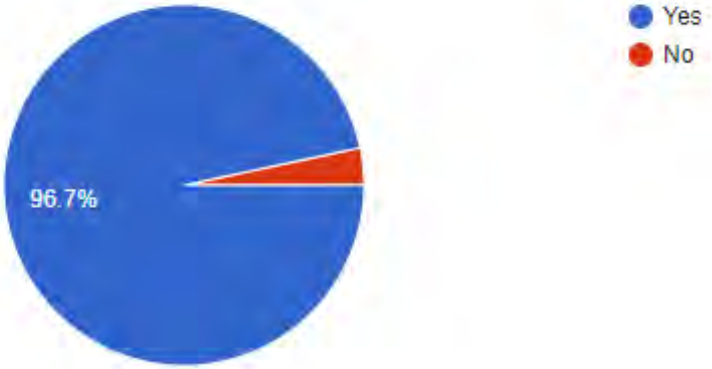
How clear were the ideas and concepts we presented?

30 responses

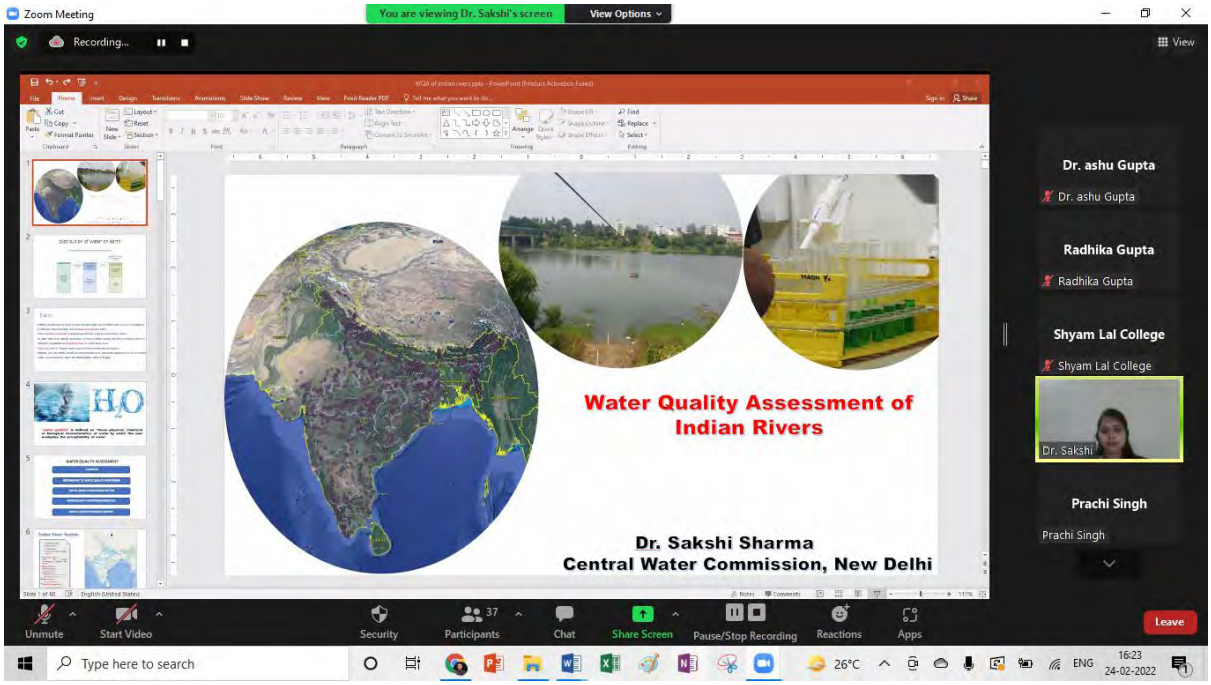


Would you like to attend such seminars in the near future?

30 responses



Annexure 3


Zoom Meeting
You are viewing Dr. Sakshi's screen
View Options
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Water Quality Assessment of Indian Rivers
Dr. Sakshi Sharma
Central Water Commission, New Delhi
Dr. ashu Gupta
Radhika Gupta
Shyam Lal College
Prachi Singh
Unmute
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Share Screen
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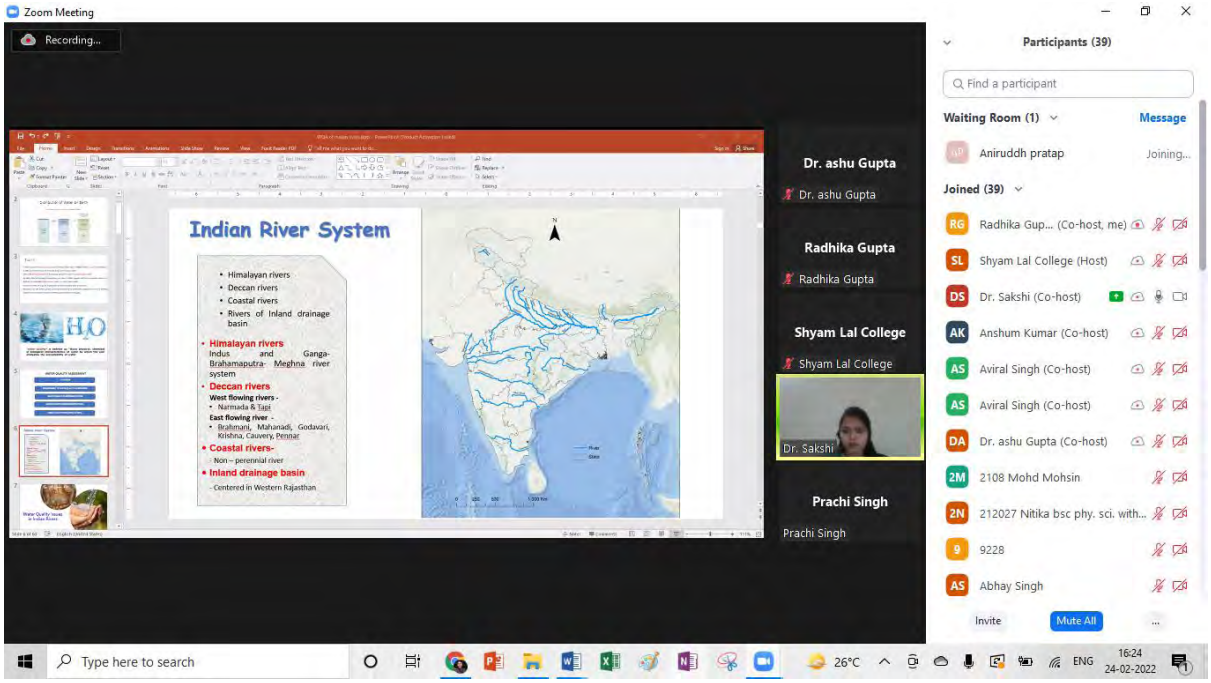
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Indian River System
Himalayan rivers
Deccan rivers
Coastal rivers
Rivers of Inland drainage basin
Himalayan rivers
Indus and Ganga-Brahamaputra- Meghna river system
Deccan rivers
West flowing rivers -
Narmada & Tapi
East flowing river -
Brahmani, Mahanadi, Godavari, Krishna, Cauvery, Pennar
Coastal rivers-
Non – perennial river
Inland drainage basin
Centered in Western Rajasthan
Participants (39)
Find a participant
Waiting Room (1)
Message
Aniruddh pratap
Joining...
Joined (39)
Radhika Gup... (Co-host, me)
Shyam Lal College (Host)
Dr. Sakshi (Co-host)
Anshum Kumar (Co-host)
Aviral Singh (Co-host)
Aviral Singh (Co-host)
Dr. ashu Gupta (Co-host)
2108 Mohd Mohsin
212027 Nitika bsc phy. sci. with...
9228
Abhay Singh
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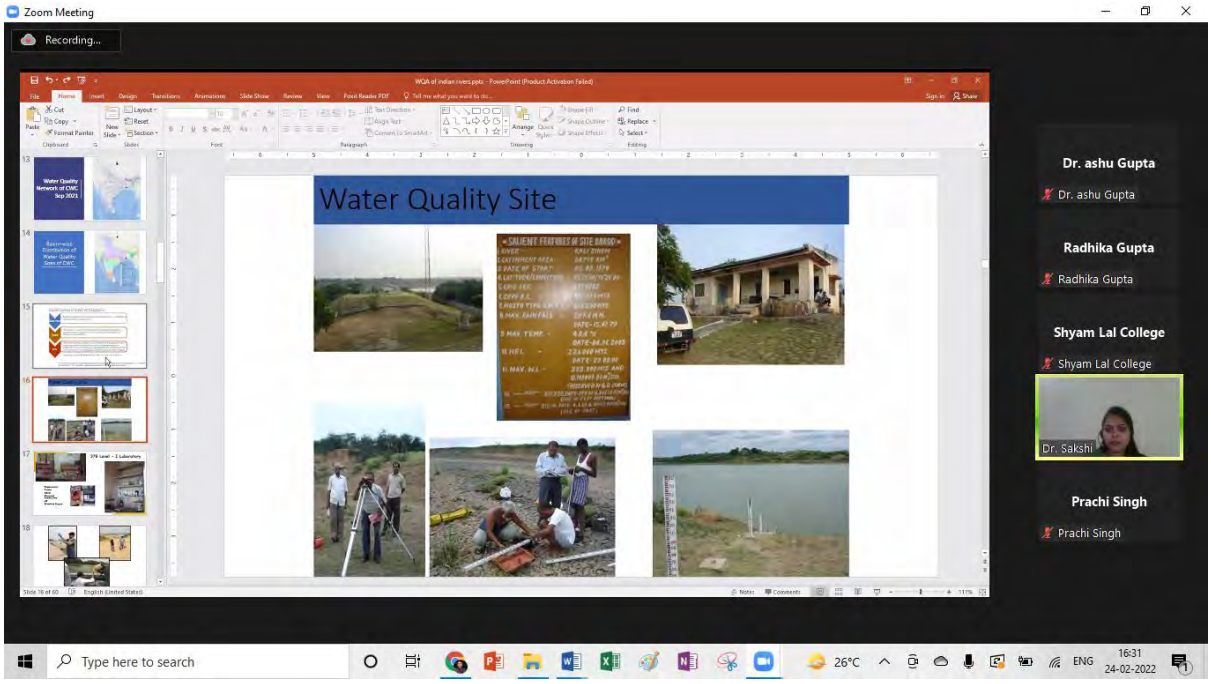
Zoom Meeting
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Water Quality Site
Dr. ashu Gupta
Dr. ashu Gupta
Radhika Gupta
Radhika Gupta
Shyam Lal College
Shyam Lal College
Dr. Sakshi
Prachi Singh
Prachi Singh
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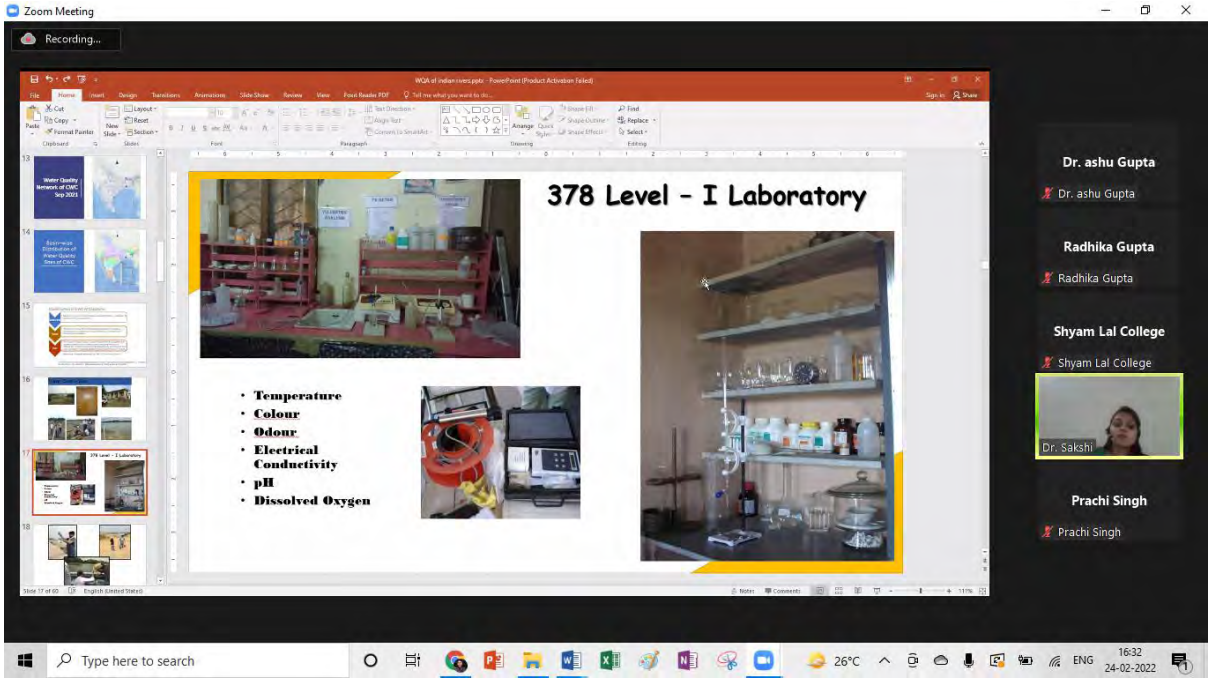
Zoom Meeting
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378 Level - I Laboratory
Temperature
Colour
Odour
Electrical Conductivity
pH
Dissolved Oxygen
Dr. ashu Gupta
Dr. ashu Gupta
Radhika Gupta
Radhika Gupta
Shyam Lal College
Shyam Lal College
Dr. Sakshi
Prachi Singh
Prachi Singh
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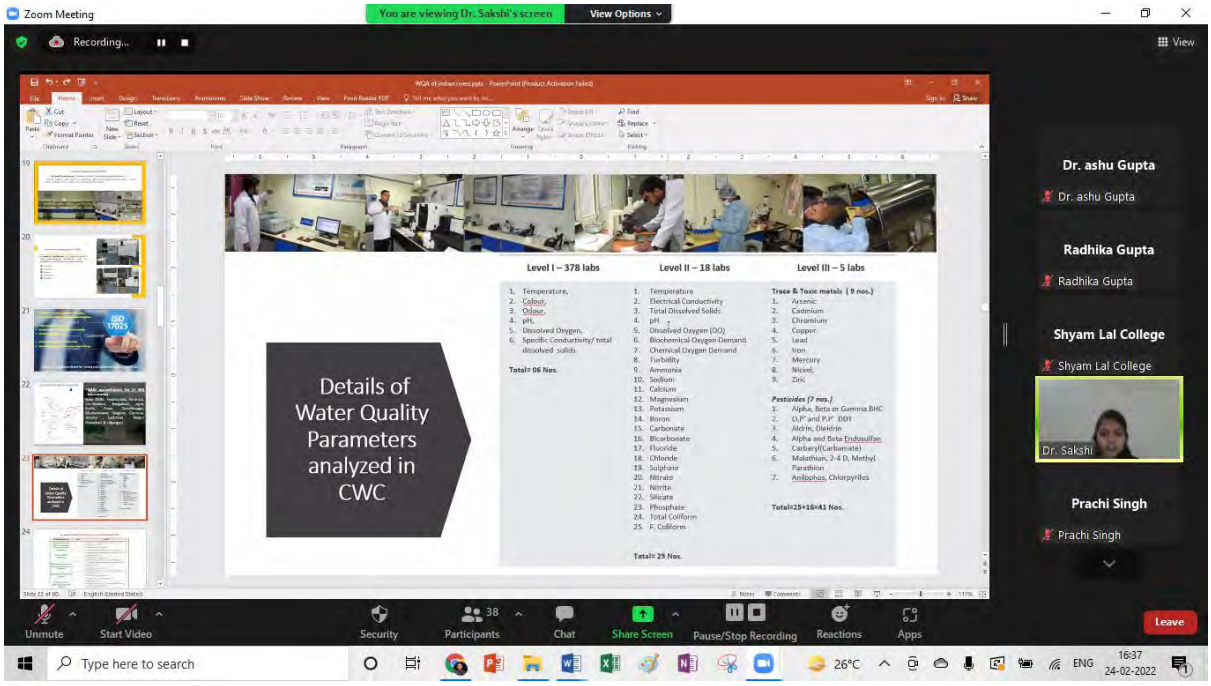
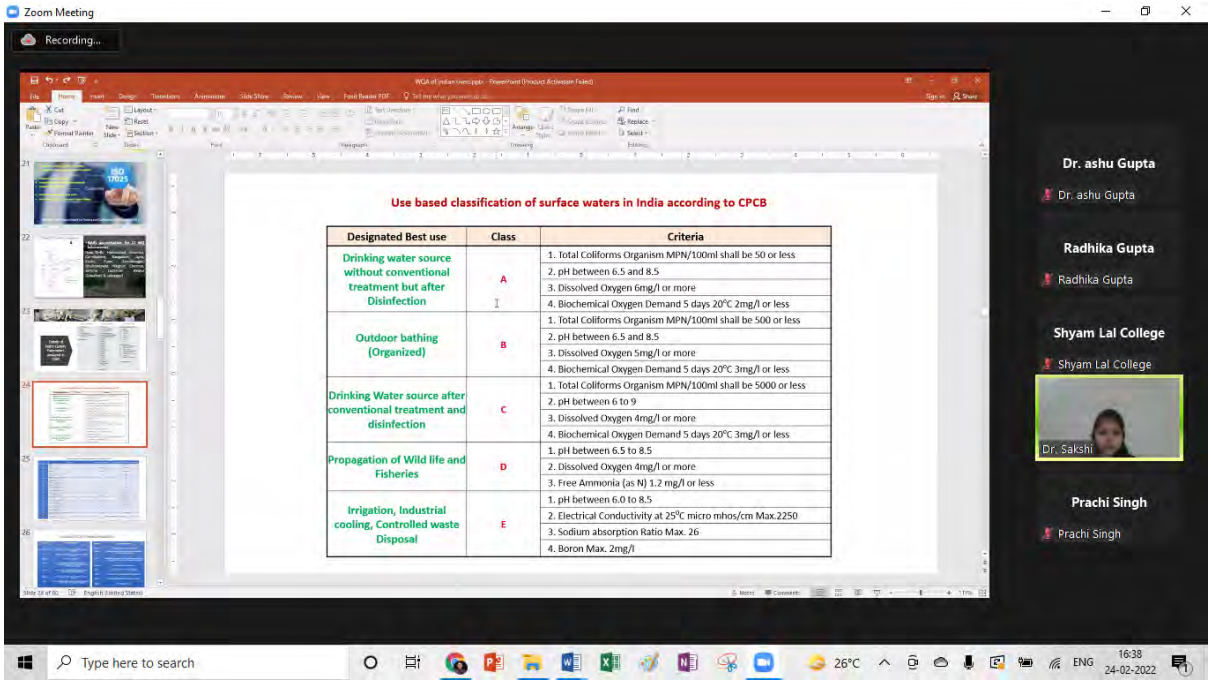
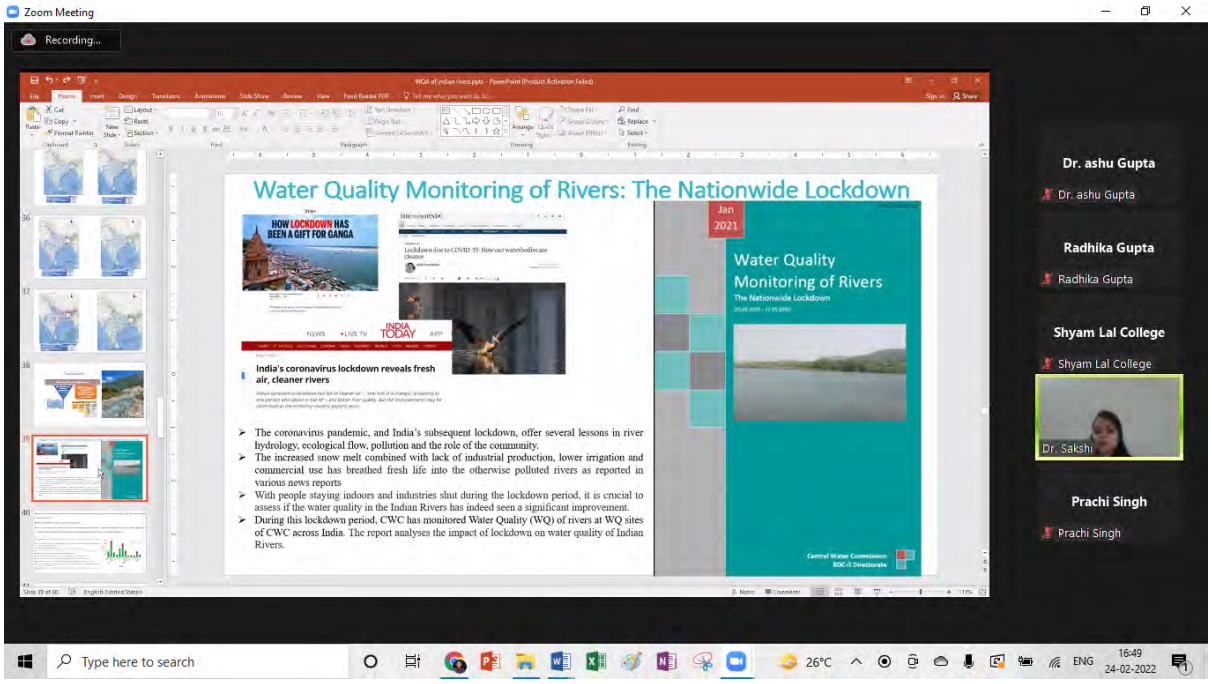




Designated Best use	Class	Criteria
Drinking water source without conventional treatment but after Disinfection	A	1. Total Coliforms Organism MPN/100ml shall be 50 or less
		2. pH between 6.5 and 8.5
		3. Dissolved Oxygen 6mg/l or more
		4. Biochemical Oxygen Demand 5 days 20°C 2mg/l or less
Outdoor bathing (Organized)	B	1. Total Coliforms Organism MPN/100ml shall be 500 or less
		2. pH between 6.5 and 8.5
		3. Dissolved Oxygen 5mg/l or more
		4. Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Drinking Water source after conventional treatment and disinfection	C	1. Total Coliforms Organism MPN/100ml shall be 5000 or less
		2. pH between 6 to 9
		3. Dissolved Oxygen 4mg/l or more
		4. Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries	D	1. pH between 6.5 to 8.5
		2. Dissolved Oxygen 4mg/l or more
		3. Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial cooling, Controlled waste Disposal	E	1. pH between 6.0 to 8.5
		2. Electrical Conductivity at 25°C micro mhos/cm Max.2250
		3. Sodium absorption Ratio Max. 26
		4. Boron Max. 2mg/l


Zoom Meeting
Recording...
Water Quality Monitoring of Rivers: The Nationwide Lockdown
HOW LOCKDOWN HAS BEEN A GIFT FOR GANGA
India's coronavirus lockdown reveals fresh air, cleaner rivers
The coronavirus pandemic, and India's subsequent lockdown, offer several lessons in river hydrology, ecological flow, pollution and the role of the community.
The increased snow melt combined with lack of industrial production, lower irrigation and commercial use has breathed fresh life into the otherwise polluted rivers as reported in various news reports
With people staying indoors and industries shut during the lockdown period, it is crucial to assess if the water quality in the Indian Rivers has indeed seen a significant improvement.
During this lockdown period, CWC has monitored Water Quality (WQ) of rivers at WQ sites of CWC across India. The report analyses the impact of lockdown on water quality of Indian Rivers.
Jan 2021
Water Quality Monitoring of Rivers
The Nationwide Lockdown
Dr. ashu Gupta
Dr. ashu Gupta
Radhika Gupta
Radhika Gupta
Shyam Lal College
Shyam Lal College
Dr. Sakshi
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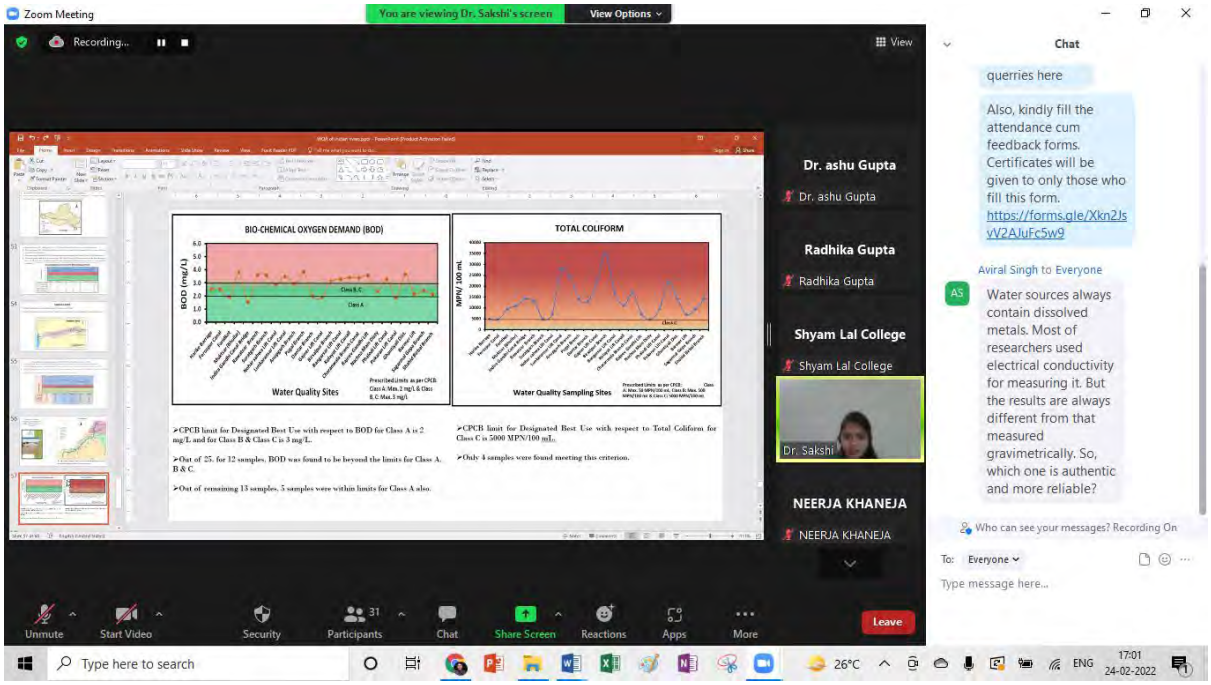
Zoom Meeting
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BIO-CHEMICAL OXYGEN DEMAND (BOD)
BOD (mg/L)
Water Quality Sites
TOTAL COLIFORM
MPN/ 100 mL
Water Quality Sampling Sites
CPCB limit for Designated Best Use with respect to BOD for Class A is 2 mg/L and for Class B & Class C is 3 mg/L.
Out of 25, for 12 samples, BOD was found to be beyond the limits for Class A, B & C.
Out of remaining 13 samples, 5 samples were within limits for Class A also.
CPCB limit for Designated Best Use with respect to Total Coliform for Class C is 5000 MPN/100 mL.
Only 4 samples were found meeting this criterion.
Dr. ashu Gupta
Dr. ashu Gupta
Radhika Gupta
Radhika Gupta
Shyam Lal College
Shyam Lal College
Dr. Sakshi
NEERJA KHANEJA
NEERJA KHANEJA
Chat
querries here
Also, kindly fill the attendance cum feedback forms. Certificates will be given to only those who fill this form. https://forms.gle/Xkn2JsvV2AJuFc5w9
Aviral Singh to Everyone
AS
Water sources always contain dissolved metals. Most of researchers used electrical conductivity for measuring it. But the results are always different from that measured gravimetrically. So, which one is authentic and more reliable?
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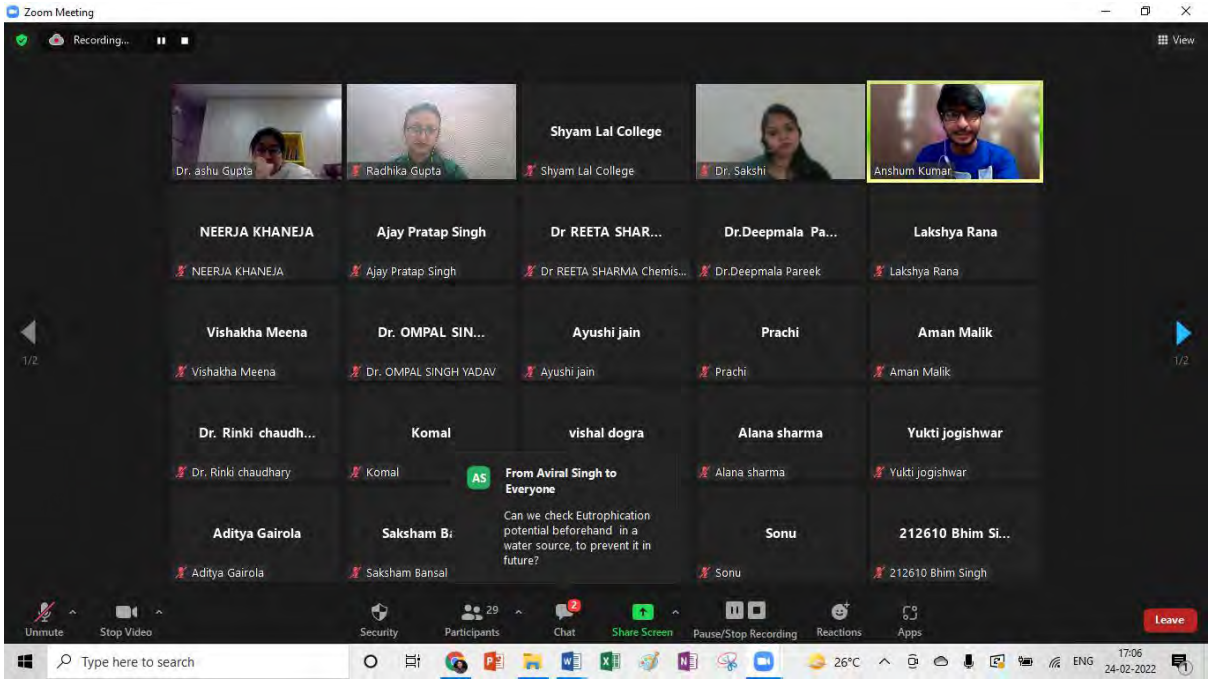
Zoom Meeting
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Dr. ashu Gupta
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Shyam Lal College
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Anshum Kumar
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Ajay Pratap Singh
Ajay Pratap Singh
Dr REETA SHAR...
Dr REETA SHARMA Chemis...
Dr.Deepmala Pa...
Dr.Deepmala Pareek
Lakshya Rana
Lakshya Rana
Vishakha Meena
Vishakha Meena
Dr. OMPAL SIN...
Dr. OMPAL SINGH YADAV
Ayushi jain
Ayushi jain
Prachi
Prachi
Aman Malik
Aman Malik
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Dr. Rinki chaudh...
Dr. Rinki chaudhary
Komal
Komal
vishal dogra
Alana sharma
Alana sharma
Yukti jogishwar
Yukti jogishwar
From Aviral Singh to Everyone
Can we check Eutrophication potential beforehand in a water source, to prevent it in future?
Aditya Gairola
Aditya Gairola
Saksham Bansal
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212610 Bhim Singh
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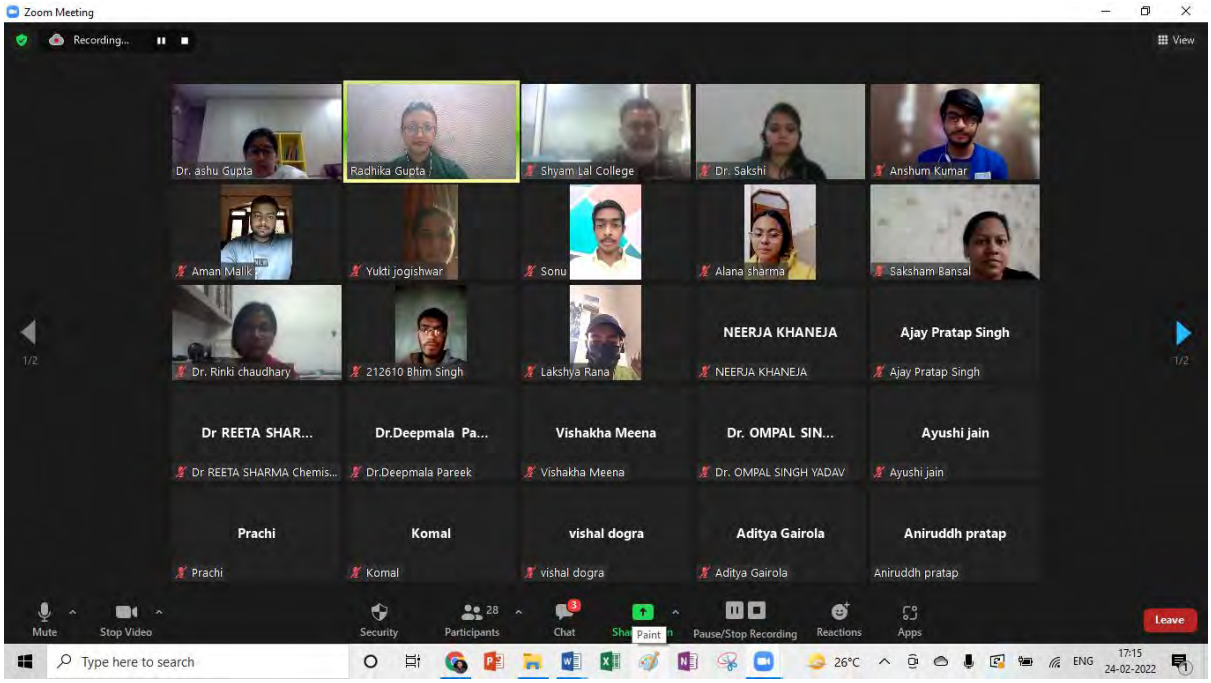
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Dr. ashu Gupta
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Aman Malik
Yukti jogishwar
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Alana sharma
Saksham Bansal
Dr. Rinki chaudhary
212610 Bhim Singh
Lakshya Rana
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NEERJA KHANEJA
Ajay Pratap Singh
Ajay Pratap Singh
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Dr REETA SHAR...
Dr REETA SHARMA Chemis...
Dr.Deepmala Pa...
Dr.Deepmala Pareek
Vishakha Meena
Vishakha Meena
Dr. OMPAL SIN...
Dr. OMPAL SINGH YADAV
Ayushi jain
Ayushi jain
Prachi
Prachi
Komal
Komal
vishal dogra
vishal dogra
Aditya Gairola
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Annexure 4

Timestamp	Designation	Name	College
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2022/02/24 4:21:18 PM GMT+5:30	Student	Robin Singh	Shyamlal College
2022/02/24 4:21:27 PM GMT+5:30	Student	Himanshi	Shyam lal college
2022/02/24 4:21:34 PM GMT+5:30	Faculty	Ajay Pratap Singh	Shyam Lal College
2022/02/24 4:21:38 PM GMT+5:30	Student	Sonu	Shyamlal college
2022/02/24 4:22:21 PM GMT+5:30	Student	Aditya Gairola	Shyam Lal college
2022/02/24 4:22:56 PM GMT+5:30	Student	Mohd Mohsin	Shyam lal college
2022/02/24 4:24:41 PM GMT+5:30	Student	Vishakha meena	Shyaam lal college
2022/02/24 4:26:07 PM GMT+5:30	Faculty	Yukti	Shyamlal college
2022/02/24 4:26:54 PM GMT+5:30	Student	Vishal dogra	Shyamlal college
2022/02/24 4:28:33 PM GMT+5:30	Student	Alana Sharma	Shyam lal college
2022/02/24 4:33:43 PM GMT+5:30	Student	Ayushi jain	Shyam lal college
2022/02/24 4:39:12 PM GMT+5:30	Student	Muskan Gupta	Shyam lal college
2022/02/24 4:43:45 PM GMT+5:30	Student	PRIYANSHU	Shyam lal college
2022/02/24 4:43:55 PM GMT+5:30	Student	Harsh jha	Shyam Lal college
2022/02/24 4:44:15 PM GMT+5:30	Student	Nitika	Shyam lal college
2022/02/24 4:47:29 PM GMT+5:30	Faculty	Neerja Khaneja	Shyamlal college
2022/02/24 4:48:01 PM GMT+5:30	Student	Sonu	Shyamlal
2022/02/24 4:49:07 PM GMT+5:30	Student	Aniruddh pratap singh	Shyam lal college
2022/02/24 4:51:30 PM GMT+5:30	Student	Abhay singh	Shyam lal college
2022/02/24 4:52:09 PM GMT+5:30	Student	Sudeep	Shyam lal college
2022/02/24 4:52:52 PM GMT+5:30	Faculty	Dr. Reeta Sharma	Shyam Lal College
2022/02/24 4:57:09 PM GMT+5:30	Student	Ayushi jain	Shyam lal college
2022/02/24 4:58:07 PM GMT+5:30	Student	Aakash Saxena	Shyam Lal College (M)
2022/02/24 4:58:12 PM GMT+5:30	Student	Anandita	Shyam lal college (M)
2022/02/24 5:00:36 PM GMT+5:30	Student	Vishakha meena	Shyam lal college
2022/02/24 5:02:02 PM GMT+5:30	Student	Vishakha meena	Shyam lal college
2022/02/24 5:04:24 PM GMT+5:30	Student	Aviral Singh	Shyam Lal College
2022/02/24 5:13:15 PM GMT+5:30	Student	Aman Malik	Shyam lal college
2022/02/24 6:12:06 PM GMT+5:30	Student	Riya Prajapati	Shyam lal college