



22<sup>th</sup> October, 2018

## Visit of NWA, Pune on 17<sup>th</sup> October, 2018

National Water Academy (formerly known as Central Training Unit), set up by Central Water Commission, Government of India to impart training to the in-service engineers of various central and state organisations involved in the development and management of water resources. As part of the first induction program for newly appointed Senior Research Associates SRA's of CWC, a team of 25 SRA's along with the Head of Department and Assistant Director visited NCL on the 17<sup>th</sup> October, 2018.

Dr U. K. Kharul gave an overview of different types of health concerns arising out of contaminated drinking water. He explained the water borne pathogens like virus, bacteria, cysts, spores that are associated with it and its role in causing diseases. He further detailed on the diseases caused and methods to eradicate the pathogens. Dr Kharul explained the ultrafiltration membrane (UF) based filtration for removing the tiniest available viruses and bacteria. He further stated that UF membrane based filtration ensures complete removal of smallest known pathogen. Dr Kharul also briefed to the audience on NCL's research and development of various technologies like the electricity free handpump, the details on the membrane capacity to withstand pressure upto 4 bars, comparison on water disinfection methods etc. The presentation also included a detailed statistics on different types of fibers used for different purposes.

Dr Shubhangi Umbarkar briefed the work on Jalshakti project and how the laboratory took initiative in managing the solid wastes. She showed the pictures of Ganesh Visarjan and explained the difficulty of PMC department to manage the solid waste after the visarjan year after year. Dr Shubhangi explained the steps in which the plaster of paris (POP) made idol can be dissolved to form ammonium sulphate ( $(\text{NH}_4)_2\text{SO}_4$ ) and calcium carbonate ( $\text{CaCO}_3$ ) by using  $(\text{NH}_4)\text{HCO}_3$  ammonium bicarbonate (ABC). The  $(\text{NH}_4)_2\text{SO}_4$  further mixed with three times more water can be used as fertilizer to plants. The other product  $\text{CaCO}_3$  is also useful for building constructions or to make toys for children.

The SRA's and the faculty staff were impressed by both the talks. The NWA staff felt that we should invite them next year again for the next batch of students to learn the importance



# Human Resource Management Unit



CSIR-National Chemical Laboratory, Dr Homi Bhabha Road, Pashan, Pune 411008

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and methods developed within NCL for purified water and how to make use of technology for improvement for societal problems.

The team was then taken to see the Shudh Jal plant by Mr Atul Mahajan and Mr Ajit Phadke.





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**Feedback Form**

Name of Student / Faculty filling the form in capital letters: Ashutosh Tripathi (SRA)

1.	Today's Date	17-Oct-2018		
2.	Name of School / College in capital letters with District / State	CENTRAL WATER COMMISSION		
		MINISTRY OF WATER RESOURCES.		
3.	Standard / Class in which studying	M.Sc. Chemistry.		
4.	Total Number of Students Visiting and Teachers / Principals accompanied	No of Girls	No of Boys	No of Teachers / Principals
		7	18	2
5.	Name of department (if studying in college)	x		
6.	Expectations from the visit	very high expectation from NCL Inum It's very Recognised place in India but my hope.		
7.	Was the visit helpful, kindly tick (✓) from 1 to 5 (1-okay 2 - Good, 3-Very good- 4- Excellent)	1	2	3
8.	What did you learn / understand during the visit	Membrane filtration work		
		and used By Companies.		
9.	Which talk / facility did you like the most	About POP used make		
		for the Murti.		
10.	Any Suggestions / Compliments	more interaction in lab because		
		how doing work.		

**Thank you for visiting CSIR-NCL.**



### Feedback Form

Name of Student / Faculty filling the form in capital letters: R. SRUJANA

1.	Today's Date	17/10/2018			
2.	Name of School / College in <u>capital letters</u> with District / State <u>Organisation</u>	CENTRAL WATER COMMISSION			
3.	Standard / Class in which studying				
4.	Total Number of Students Visiting and Teachers / Principals accompanied	No of Girls	No of Boys	No of Teachers / Principals	
5.	Name of department (if studying in college)				
6.	Expectations from the visit	Knowledge regarding NCL works.			
7.	Was the visit helpful, kindly tick (✓) from 1 to 5 (1-okay 2 – Good, 3-Very good- 4- Excellent)	1	2	3	4
8.	What did you learn / understand during the visit	Very good.			
9.	Which talk / facility did you like the most	Good to know that social challenges regarding environments are being solved from research laboratories like NCL.			
10.	Any Suggestions / Compliments	Dr. S. B. Umbaskar.			
		Arranging workshops on any advances in water Quality Technologies.			

**Thank you for visiting CSIR-NCL.**



### Feedback Form

Participants  
Name of Student / Faculty filling the form in capital letters: Mrs. Vena D. Chavhan.

1.	Today's Date	17/10/18		
2.	Name of School / College in capital letters with District / State OFFICE	CENTRAL WATER COMMISSION, WAINGANGA DIVISION, NAGPUR		
3.	Standard / Class in which studying	WORKING AS SRA		
4.	Total Number of Students Visiting and Teachers / Principals accompanied	No of Girls	No of Boys	No of Teachers / Principals
		6	18	2 FACULTY
5.	Name of department (if studying in college)	MINISTRY OF WATER RESOURCES, CWC, NEW DELHI		
6.	Expectations from the visit	RESPONSE IS TOO GOOD AS PER OUR EXPECTATION. <del>BE</del>		
7.	Was the visit helpful, kindly tick (✓) from 1 to 5 (1-okay 2 - Good, 3-Very good- 4- Excellent)	1	2	3 ✓ 4 ✓
8.	What did you learn / understand during the visit	WE GET GOOD INFORMATION ABOUT HOW TO SERVE OUR SOCIETY, ABOUT WATER RELATED PROBLEMS.		
9.	Which talk / facility did you like the most			
10.	Any Suggestions / Compliments	In future we want to come again & participate		

**Thank you for visiting CSIR-NCL.**



**Feedback Form**

Name of Student / Faculty filling the form in capital letters: RAJAT SHARMA

1.	Today's Date	17 OCT 2018			
2.	Name of School/ College in capital letters with District / State	CENTRAL WATER COMMISSION, NWA			
3.	Standard / Class in which studying				
4.	Total Number of Students Visiting and Teachers / Principals accompanied	No of Girls	No of Boys	No of Teachers / Principals	
		06	16	02 OFFICER	
5.	Name of department (if studying in college)	CWC			
6.	Expectations from the visit	To understand the basis of membrane technology in water disinfection and treatment & treatment of <u>Idal</u> immersed water bodies			
7.	Was the visit helpful, kindly tick (✓) from 1 to 5 (1-okay 2 - Good, 3-Very good- 4- Excellent)	1	2	3	4
				✓	
8.	What did you learn / understand during the visit	Membrane technology can also be used in water disinfection technique in CWC.			
9.	Which talk / facility did you like the most	Both of them taught exceptionally well. Thank you. Please invite in future also.			
10.	Any Suggestions / Compliments	—			

**Thank you for visiting CSIR-NCL.**



### Feedback Form

Name of Student / Faculty filling the form in capital letters: A. VIJAY KUMAR.

1.	Today's Date	13/11/18			
2.	Name of School / College in <u>capital letters</u> with District / State  097	CENTRAL WATER COMMISSION			
3.	Standard / Class in which studying				
4.	Total Number of Students Visiting and Teachers / Principals accompanied	No of Girls	No of Boys	No of Teachers / Principals	
		6	15		
5.	Name of department (if studying in college)	Central water commission.			
6.	Expectations from the visit	Issue related with water quality of surface water quality			
7.	Was the visit helpful, kindly tick (✓) from 1 to 5 (1-okay 2 - Good, 3-Very good- 4- Excellent)	1	2	3	4
				✓	
8.	What did you learn / understand during the visit	Re membrane Technology to water Disinfection.			
9.	Which talk / facility did you like the most	water Disinfection Technology			
10.	Any Suggestions / Compliments	-			

**Thank you for visiting CSIR-NCL.**



**Feedback Form**

Name of Student / Faculty filling the form in capital letters: SENIOR RESEARCH ASSISTANT  
From Central Water Commission

1.	Today's Date	17/10/2018		
2.	Name of School / College in <u>capital letters</u> with District / State	CENTRAL WATER COMMISSION		
3.	Standard / Class in which studying			
4.	Total Number of Students Visiting and Teachers / Principals accompanied	No of Girls	No of Boys	No of Teachers / Principals
		7	15	02
5.	Name of department (if studying in college)			
6.	Expectations from the visit	To learn and have an exposure to chemical analysis of water.		
7.	Was the visit helpful, kindly tick (✓) from 1 to 5 (1-okay 2 - Good, 3-Very good- 4-Excellent)	1	2	3
				4 ✓
8.	What did you learn / understand during the visit	How to tackle the social problem in an easy way without		
9.	Which talk / facility did you like the most	Both		
10.	Any Suggestions / Compliments			

best of these aspects

**Thank you for visiting CSIR-NCL.**