

A VISIT AT WATER TREATMENT PLANT



SGRR college planned and organized visit to water purification plant for students under the guidance of faculty as per the below schedule.

SGRRIM&HS NURSING COLLEGE ,SGRR UNIVERSITY STUDENTS EDUCATIONAL VISIT SCHEDULE 2023 (OLD AGE HOME)				
DATE	BATCHES	NUMBER OF STUDENTS	TOTAL NO. OF STUDENTS	COMMUNITY DEPT TEACHER
21-04-2023	MSc (N) I YR	15	95	MR RENJITH THOMAS, MRS ARTI, MR ANOOP
	BSc (N) III YEAR	80		
24-04-2023	ANM I YR	30	90	MRS RAKHI, MS.ANJALI, MRS.DAVINDER HANS
	GNM II YR	60		
25-04-2023	PB BSc (N) II YR	30		MRS SOSAN RANA, MRS CHETNA BHATNAKAR

This visit was as part of their curriculum activity. Through this visit students got good amount of information about the procedure that used in water purification.

Objective of the visit

- To observe the set up of the water purification plant.
- To gain knowledge regarding the overall process of purification
- To know how the water is supplied the area in Dehradun.

Functioning of the system

Mr. A K Gupta explained the basic process in the water treatment plant. Water is collecting from Bizapur river to a common tank and under go the process of sedimentation. During sedimentation clarification process with coagulation is happening. Alum is using as the coagulating agent. After coagulation it passed to the filtration tank though pipes. In filter plant it passes though the clarification process to remove the coagulated sediments. After clarification process it passes though different kind of filtration system like sand filter, multigrade filters and activated carbon filters. For coagulation purpose aluminium sulphate is used, and doing proper chlorination for disinfectant purpose.

During each stage of the process, in process check is there each stage depending on the requirement, pH, MLSS, conductivity etc are checking and noting down in the log sheets.

Most of the tank for mixing purpose air mixing is there using high pressure blowers.



Inlet tank



Clarification system



Cascade aeration system



Distribution

Filtered water stores in huge storage tank and continuously flows to the required sources by gravity

Conclusion

From the visit students got information's and practical knowledge about the treatment of raw water and component used in treatment plant and got the knowledge about different types of filtration process. The visit was concluded by nice photography.