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A Report on

“WATER PURIFICATION PLANT”

Gavlane phata, Vilholi,

Nashik-Mumbai Agra road

Nashik 422010.



About Visit:

Firstly we take permission to Executive engineer, Nashik Municipal corporation, Nashik Maharashtra for a field visit for academic curriculum.

K.V.N.N.S.P.S.'s IoPER, Nashik organized a Water purification plant visit to a Water purification plant, Gavlanephata, Vilholi, Nashik-Mumbai Agra road, Nashik, Maharashtra on 2nd January 2024, for 1st year D.Pharmacy students.

1st year D.pharmacy students with faculty member Mr. Ganesh Sangle, Mr. Yogesh S. Thakare, were present for Water treatment plant visit on 25th March 2023.

Detail of the Journey:

1. We started Journey from KVN Naik, IOPER college, with all students at 11:00 am.
2. We reached Water treatment plant at 11:30 am.
3. The Water treatment plant visit started with a warm welcome at 11:45 o'clock followed by the introduction of the Mentor/Guide of Water treatment plant, Mr. Bipin sir.
4. Mr. Bipin introduced himself and the working of the water purification method.
5. He gave information on detailing steps of water purification procedure that conducted and its method.
6. Then the physical setup of the water treatment plant was discussed by Mr. Bipin.
7. Followed by the visit, students participated in a question-answer session where Mr. Bipin was discussed to a variety of topics.
8. The college faculty member presented Mr. Bipin with a gesture of appreciation.
9. Then the journey started to Garbage treatment plant at 1 pm o'clock for next field visit.
10. Confirmation of reaching safety was taken.

Summary:

The Opportunity to a Water treatment plant and realities of the water purification technique was a great experience.

Mr. Bipin was discussed from basic things to detailed procedure for purification of water; Water treatment is the process of removing all those substances, whether biological, chemical, or physical, that are potentially harmful to the water supply for human and domestic use.

The whole procedure occurs in stages and involves a combination of technical processes like;

Coagulation: When water enters a treatment plant, the first stage in the process is coagulation where chemicals are added to the water supply to enable microparticles and small solids to stick together. Polyelectrolyte, ferrous sulfate, and aluminum sulfate are examples of chemicals used in the water treatment plant process to aid coagulation.

Flocculation: Once water has been treated with the coagulation chemicals it enters a tank with giant paddles. These mix the chemicals and water together and enable the micro particles to form into larger pieces that are likely to stick together, making the Sedimentation process in water treatment process more effective.

Sedimentation: Once the flocculation process is complete the water enters the sedimentation phase. Once the water is in the primary settling basins the large particles formed during the coagulation and flocculation stage separate and settle. This leaves cleaner water for further processing in the treatment plant.

Disinfection: Once clarified water leaves the sedimentation basins in the treatment plant, chlorine is added during the disinfection water treatment stage.

Filtration: Finally, water goes through a filtration process using rapid gravity filters. Sand is commonly used in this type of filter and it removes any further sediment or particles in the water. During this final stage water is passed through a filter in a regulated manner.

He also spoke about the management of employees in the Water treatment plant. He also addressed Quality of water to be maintained and supply of water to a different area. Students were well mannered and disciplined throughout the visit. This visit was arranged for First year D.pharmacy. The guiding faculty on site were very supportive for all students. We all benefit and bring positive change in our thinking and practical behaviour regarding education.

We are extremely thankful to Dr. A. B. Darekar (Principal), Prof. Amol R. Patil, Prof. A. J. Jadhav (HOD) and all teachers for providing Full-fledge support in all aspects during the entire visit.



Mr. Y. S. Thakare

Prepared by



Prof. A. J. Jadhav

HOD



Prof. (Dr.) A. B. Darekar

Principal

PRINCIPAL

K.V.N. Naik S.P.S.'s

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