



A Report on Water Treatment Plant Visit

<u>Title</u>	Water Treatment Plant Visit
<u>Date</u>	31 st December 2024
<u>Time</u>	10:00 am to 1:00 pm
<u>Organizer</u>	Krantiveer Vasantao Narayanrao Naik Shikshan Prasarak Sanstha's Institute of Pharmaceutical Education and Research, Nashik.
<u>Venue</u>	Water Purification Plant, Nilgiri Baag, Bidi Kamgar Colony, Nashik-422006
<u>Objectives</u>	To provide students with practical exposure to water treatment processes.
<u>Photographs</u>	 <p>Photograph 1 (Top Left): A group of students in white lab coats and caps are gathered around a guide, listening to a presentation. The location is: KVN Naik Institute of pharmaceutical Education and research, Nashik, Maharashtra, 113/6/34, Thakkar Nagar, Sharanpur Gaathan, Nashik, Maharashtra 422007, India. Lat 20.004755° Long 73.771874°. 31/12/24 11:29 AM GMT +05:30.</p> <p>Photograph 2 (Top Right): A group of students in white lab coats and caps are standing on a walkway overlooking a large water treatment tank. The location is: KVN Naik Institute of pharmaceutical Education and research, Nashik, Maharashtra, 113/6/34, Thakkar Nagar, Sharanpur Gaathan, Nashik, Maharashtra 422007, India. Lat 20.004755° Long 73.771874°. 31/12/24 11:45 AM GMT +05:30.</p> <p>Photograph 3 (Bottom): A group of students in white lab coats and caps are posing for a group photo in front of the entrance to the water treatment plant. The location is: Nashik, Maharashtra, India, 8, Nilgiri Bag Rd, Panchavati, Kailash Nagar, Maharashtra 422003, India. Lat 20.00786° Long 73.830317°. 31/12/24 12:09 PM GMT +05:30.</p>

<p><u>Brief Report on Activity</u></p>	<p>The educational visit to the Water Treatment Plant at Nilgiri Baag, Bidi Kamgar Colony, Nashik, was organized for First Year D. Pharmacy students by the K.V.N.N.S.P.S.'s Institute of Pharmaceutical Education and Research, Nashik as part of their academic curriculum.</p> <p>The journey began from the college premises at 10:00 am, where students and faculty members -Mr. Yogesh S. Thakare, Miss. Madhuri Nikam, and Miss. Saniya Patel-gathered and departed for the visit site. The team reached the Water Treatment Plant at around 11:00 am.</p> <p>Upon arrival, the students and faculty received a warm welcome from the staff of the Water Treatment Plant. Mr. Rahul, the mentor and guide for the session, introduced himself and began the visit with a detailed explanation of the water purification and treatment process.He elaborated on the step-by-step treatment stages as follows:</p> <ol style="list-style-type: none"> 1. Coagulation: The initial stage where chemicals like polyelectrolyte, ferrous sulfate, and aluminum sulfate are added to raw water to agglomerate micro-particles and small suspended solids. 2. Flocculation: The treated water is transferred to tanks with large paddles which stir the water, allowing small particles to clump into larger flocs. 3. Sedimentation: The water is then moved to sedimentation basins, where the heavier flocs settle down at the bottom, resulting in clearer water. 4. Disinfection: The clarified water undergoes chemical disinfection, typically using chlorine, to kill pathogens and make the water safe for consumption. 5. Filtration: Finally, the water is passed through sand filters (rapid gravity filters) to remove any remaining impurities. <p>Mr. Rahul also emphasized the importance of each stage and the role of the plant in ensuring safe, potable water for the Nashik region. He spoke about employee roles, water quality maintenance, and distribution strategies.</p> <p>A question-and-answer session followed, where students asked insightful questions about the technical and operational aspects of the plant. Mr.Rahul answered them in detail, ensuring student understanding of the scientific principles involved.</p> <p>To appreciate his guidance and hospitality, the faculty presented Mr.Rahul with a token of gratitude</p> <p>At around 1:00 pm, the group commenced the return journey and reached the college safely. The faculty ensured that every student returned safely to their homes.</p>
<p><u>Outcome</u></p>	<ul style="list-style-type: none"> • The visit was educational, engaging, and well-organized. • Students gained practical understanding of the water purification steps and their applications.They learned the importance of clean water supply and the technology used behind it. • The exposure helped in developing their scientific curiosity and practical approach toward pharmaceutical and environmental sciences.
<p><u>Students feedback</u></p>	<ul style="list-style-type: none"> • The visit to the Water Treatment Plant was highly appreciated by all the participating students. It provided them with a real-world perspective on the theoretical concepts studied in class, especially related to water purification techniques and environmental hygiene. • They felt more aware and responsible towards water conservation and public health. • Overall, students conveyed gratitude for organizing such a beneficial academic visit and recommended similar field visits for future batches.


Prof.D.M. Ghuge
 Prepared By




Prof.(Dr.) A.B. Darekar
Principal
PRINCIPAL
 K.V.N. Naik S.P.S.'s
 Inst. of Pharmaceutical Edu. & Research
 Canada Corner, Nashik-422 002.