Xavier Institute of Engineering
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Department of Computer Engineering
(Affiliated to University of Mumbai)

ACTIVITY REPORT on Industrial Visit to the 100MLD Sewage Treatment Plant, Nerul, Navi Mumbai

Organized By:	Dr. Vaishali Gaikwad
Date of the Event:	05/04/2023
Venue:	100MLD Sewage Treatment Plant, Nerul, Navi Mumabi
Designation and Organization of the Speaker(s) :	Plant Operator, 100MLD Sewage Treatment Plant, Nerul, Navi Mumbai, NMMC
Participants Details:	SE (Computer Engineering)
Number of Participants:	20

OBJECTIVE(s):

- To gain insight into the wastewater treatment process, including primary, secondary, and tertiary treatment stages.
- To observe the functioning of various treatment technologies and equipment used in the plant, such as screens, grit chambers, clarifiers, aeration tanks, and disinfection units.
- To interact with the plant personnel and gain knowledge about their roles and responsibilities, working conditions, and safety measures adopted.
- To analyse and understand the aspects where processes can be automated.
- To experience a real-life industrial environment and gain practical knowledge about the wastewater treatment industry.

TOPIC: Industrial Visit to the 100MLD Sewage Treatment Plant, Nerul, Navi Mumbai

EVENT OUTCOME(s):

- Increased awareness and knowledge about the wastewater treatment process, including the various stages, technologies, and equipment used.
- Enhanced understanding of the importance of wastewater treatment in protecting public health, preserving the environment, and conserving water resources.
- Improved knowledge about the career opportunities and skill sets required in the field of wastewater treatment and management.
- Developed better communication and interpersonal skills through interaction with the plant personnel and other participants.
- Gained practical knowledge and experience in a real-life industrial environment.

KEY POINTS:

- The 100mld sewage treatment plant is a large-scale facility designed to treat and process sewage from the surrounding area.
- The plant uses a multi-stage treatment process that includes physical, chemical, and biological treatment to remove contaminants from the wastewater.
- The primary treatment stage involves screening, grit removal, and sedimentation to remove large solids and debris from the wastewater.
- The secondary treatment stage uses biological processes such as aeration and settling to further break down organic matter and remove dissolved contaminants.
- The tertiary treatment stage uses additional filtration, disinfection, and advanced treatment methods to further improve the quality of the effluent.
- The visit provides an opportunity to learn about the importance of wastewater treatment in protecting public health and the environment, the career opportunities in the field, and the role of industry in promoting sustainable development.

FEEDBACK:

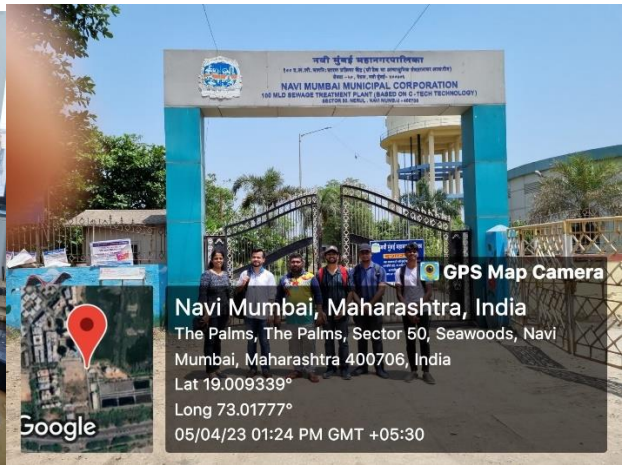
The industrial tour of Nerul's 100MLD Sewage Treatment Plant was quite educational and eye-opening. The visit gave us a thorough grasp of the methods utilized for treating wastewater, the tools and technology employed, and the difficulties the company had in doing so.

Also, the tour provided a wonderful chance to engage with the plant personnel and learn about their job roles, responsibilities, working conditions, and the safety measures they implement. The staff members were extremely knowledgeable and were able to provide us with comprehensive answers to all our queries about the treatment process and plant operations. Our visit proved to be an enlightening experience that taught us the significance of wastewater treatment in safeguarding public health and preserving the environment. Furthermore, we gained valuable insights into the various career prospects in the wastewater treatment and management field. We extend our gratitude to the plant management and staff for their warm hospitality and for making our visit both informative and engaging.

PO MAPPING:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO 1	PSO 2
Event Outcome	2	2	2	2	3	3	3	3	3	3	2	3	2	2

GALLERY:



Event Coordinator
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