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A REPORT ON FIELD VISIT (SEMESTER IV) AT BAGHAJATIN STP

THEME OF THE EVENT: The Department of Microbiology, Asutosh College has conducted a

one day field visit (part of CC205 practical syllabus) of semester IV students at Baghajatin STP so that students can to gain practical knowledge about the waste water treatment process and the

operation of the plant.

ACADEMIC SESSION: 2024-2025

DATE: 28 July 2025

VENUE: Baghajatin STP

OBJECTIVE/ PURPOSE: The main objective of a field visit to a water treatment plant is to

gain practical knowledge about the waste water treatment process and the operation of the plant. This includes understanding the different treatment stages, how they work to make water safe for release in the environment. It also involves learning about the

technologies used, the plant's operation and maintenance, and the

environmental impact of the process.

RESOURCE PERSON: Mr. Dhananjay Jana, AE, Baghajatin STP

ORGANIZERS: Following Faculties of Dept. of Microbiology, Asutosh College

Dr. Kuntal Kanti Goswami, Assistant Prof. & HOD

Mrs. Parbatee Nag, SACT

Dr. Gajendra Nath Maity, Assistant Prof.

TARGET PARTICIPANTS: Semester IV students of the Department.

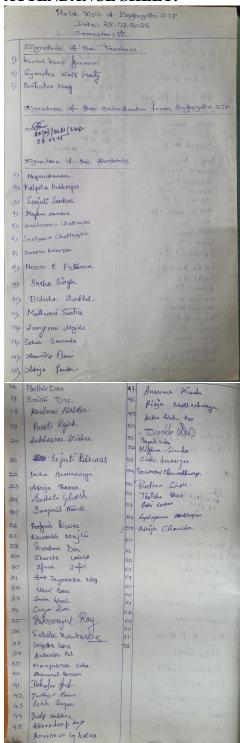


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ATTENDANCE SHEET:





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BRIEF REPORT ABOUT THE EVENT/ PROGRAMME:

Students have seen that the incoming water was visibly dirty and had a strong foul smell. The Primary treatment process started with the grit chamber, where heavier solid particles like sand and grit settled out. From there, the water passed through valve tanks, which helped in controlling the flow.

Next, the water entered the aeration ponds, where motors were used to mix air into the water. This process helps aerobic microbes grow, which are essential for decomposition of the organic matter present in the wastewater. Mr. Dhananjay Jana, member at the plant briefly explained how these biological processes work to reduce the organic load in the water — this part falls under secondary treatment.

After aeration, the water went to the secondary sedimentation tank, where the settled microbial mass and other suspended particles were removed. This step helps clarify the water even more. Finally, students were shown the chlorination unit, which is a part of tertiary treatment. Here, chemicals like chlorine are added to kill any remaining harmful microbes before the treated water is released.

EXPECTED OUTCOME:

- 1. The visit should give students a practical look at how sewage is treated in real life.
- 2. It should help students understand how each stage from mechanical removal of solids to biological treatment and final disinfection plays a role in cleaning wastewater.
- **3.** The explanations they received on-site should help them connect the theoretical knowledge with what actually happens on the ground.



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GEO-TAGGED PHOTOGRAPHS:









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