

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.

ATTENDANCE SHEET:

Field Visit of Bagdogra STP
Date: 28.07.2025
Semester: IX

Signature of the Teachers

- 1) Kuntal Kanti Goswami
- 2) Gijendra Nath Sanyal
- 3) Parbatee Nag

Signature of the Coordinator from Bagdogra STP

Signature of the students

- 1) Nupur Das
- 2) Kalpita Mukherjee
- 3) Sejal Sankar
- 4) Megha Sankar
- 5) Koushik Chatterjee
- 6) Sachin Chatterjee
- 7) Swarna Banerjee
- 8) Noor E Fatema
- 9) Sneha Singh
- 10) Bidisha Sankar
- 11) Madhusri Sanyal
- 12) Saangeni Dey
- 13) Sakshi Samanta
- 14) Anurika Bhowmik
- 15) Aditya Pandey
- 16) Poojita Das
- 17) Soishik Das
- 18) Neelam Halder
- 19) Priyanka Rajak
- 20) Sukhdev Mishra
- 21) Sejal Reswari
- 22) Smita Banerjee
- 23) Aditya Banerjee
- 24) Sukela Ghosh
- 25) Swarnil Mondal
- 26) Pratik Biswas
- 27) Koushik Majhi
- 28) Swarni Das
- 29) Shweta Chatterjee
- 30) Srijan Sanyal
- 31) Srijan Sanyal
- 32) Urvashi Bose
- 33) Swati Ghosh
- 34) Sanya Das
- 35) Bikramjit Ray
- 36) Falak Nantawade
- 37) Srigita Saha
- 38) Anurupa Pal
- 39) Manjushree Saha
- 40) Anusheel Bhowmik
- 41) Debajyoti Sanyal
- 42) Poojita Sanyal
- 43) Sakshi Sanyal
- 44) Srijan Sanyal
- 45) Anurupa Sanyal
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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.

GEO-TAGGED PHOTOGRAPHS:



