



ST. XAVIER'S COLLEGE, MAPUSA GOA

Report of Activity conducted in the Academic Year 2025-26

Name of Activity	Field trip of F. Y. BSc Biotechnology students to Sewage Treatment Plant, Tonca, Panjim
Date/ Duration	3 rd October 2025 at 9.30 am
Venue	STP, Tonca, Panjim
Name of organizing Department/Cell	Department of Biotechnology
In collaboration with	
Name/s of Faculty Co ordinator	Dr Larissa Menezes, Ms Nerisa Lobo
Stratum of Event	College
Name & details of Resource Person/s if any	Mr Saiprasad Parab, Junior Engineer.
Report	A field trip was organised for the First year Biotechnology students, to the Sewage Treatment Plant at Tonca, Panjim as part of their curriculum. Three faculty members, Ms Jenica Rangel, Ms Nerisa Lobo and Dr Larissa Menezes accompanied 24 students to the plant where Mr Saiprasad Parab, the Junior Engineer explained that the plant was constructed in 2005 with an initial capacity of 12.5 MLD, with a current additional capacity of 15MLD. He informed the students that domestic sewage of Panjim and Taleigao was brought to this plant through systematic underground sewerage pipelines that were placed in the center under all the roads to differentiate water and other cable pipes laid underground. The students were shown the collection chamber of raw input sewage and the chamber where solids afloat were screened and removed. This was followed by oil and grease removal. Mr Parab enlightened us about the SBR technology being used i.e. Sequential Batch Reaction and showed the students the control room where the pumps and blowers were controlled and monitored. Further in the treatment process, aeration was carried out for 90 minutes with the help of blowers. This enables the solids to flocculate and settle. The cleared upper water was then decanted and sent to the Chlorine Contact Tank (CCT), while the solid sludge was pumped into a chamber after which it was desqueezed using a centrifuge to remove water and the sludge was transported

	using a vehicle to drying beds, later used as manure. The water in the CCT was dosed with chlorine to disinfect it and held in the partitioned chamber for some time after which it is released into the Mandovi river and St. Inez nullah. The field trip ended with a group photograph. Students and faculty alike benefitted from the information shared and the practical aspect of waste water treatment.
Brochure/Poster	NA
Photographs	https://xavierscollegegoa.ac.in/wp-content/uploads/2025/10/photos-16.pdf
List of participants with signatures	NA
Certificate	NA