

My visit to

Wastewater

Treatment

Plant

→ On the morning of 3 June 2024, I visited a Wastewater Treatment Plant. My purpose was to explore the place, get the knowledge about it and how it has engaged itself for environment's benefit. I visited 'Sewer Water Treatment Plant' of Kanher Khara, Meerut. As I step into the facility, the sound of large machines humming, filled the air. Heavy and large machines, many motors and a lot of dirty water was present. I could smell the chemicals, used in the treatment. The guide showed and explained me the process.

→ Upon arrival, I was introduced to the intricate processes involved. The tour began with an explanation of the preliminary treatment, where large debris and grit are removed. I then observed the primary treatment tanks, where organic solids settled out of the water.

→ The most fascinating part was the secondary treatment, where biological processes break down harmful microorganisms. The aeration

tanks, with their bubbling air, showcased how oxygen is added to support bacteria in decomposing organic matter.

→ The tertiary treatment involved advanced filtration and disinfection to ensure that the water meets quality standards before being released back into the environment.

→ The people who worked there faced some challenges as well. The pipes and machines gets old, they need to be fixed. New pollutants like medicine and tiny bits of plastic is tricky to clean out. So, they need more money and energy to look after this. Bad weather can make the situation worse. They have to look after each and every thing, so that dirty water should not reach the environment before too treated properly.

→ Some protocols which I got to know there, included keeping workers safe, operating the equipment and to ~~so~~ make sure the treated water is clean enough. It also included steps to protect the environment and follow laws.

→ Reflecting on the work, I realized that the importance of / significance of the efforts made by the people, working there, in preserving the environment and ensuring clean water for us. I also realized that, that was the place, where sustainable development's goals are/is practiced. It's all about conserving nature and environment by practicing 'sustainability'. It was such a fruitful and knowledgeable visit. It was educational and inspiring, showcasing the complexity and necessity of modern water treatment technology.