



Vishnu Waman Thakur Charitable Trust's

**VIVA INSTITUTE OF TECHNOLOGY**  
Shirgaon, Post: Virar (w), Tal: Vasai, Dist: Palghar – 401 305.

**CIVIL ENGINEERING DEPARTMENT**

**Subject Name:** Environmental Engineering

**Place:** 30 MLD STP, Behind Central Park, Gokul Township,, Bolinj, Virar West

**Date:** 5-04-23

**Time:** 11:00 am

**Programme/Summary details :** As per the curriculum of University of Mumbai students of Third Year Civil Engineering having Environmental Engineering subject, required to visit sewage Treatment Plant site as a part of their term work. A site visit was arranged to 30 MLD STP, Behind Central Park, Gokul Township,, Bolinj, Virar West, Virar, Maharashtra 401303

**About the plant:** There are three types of wastewater or sewage: domestic sewage, industrial sewage, and storm sewage. Since the Vasai-Virar is household area it mostly creates domestic waste. Domestic sewage carries used water from houses and apartments; it is also called sanitary sewage. Various studies shown that domestic sewage has slightly more than 99 % water by weight. The rest less than 1 % contains wide variety of dissolved and suspended impurities. Although the amount of impurities is a very small fraction but it can still create significant technical problem during disposal.

The treatment of sewage consist many complex Processes Treatment process are often classified are as Follows;

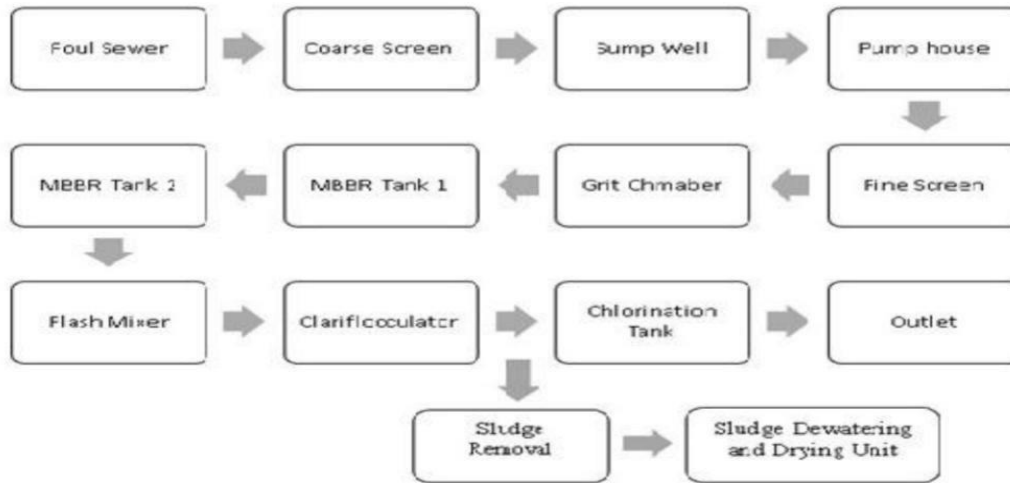
- 1) Primary treatment
- 2) Secondary treatment
- 3) Tertiary treatment

**Treatment process:**



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**Conclusion:** To dispose waste water is the responsibility of any water utility system. In Sewage Treatment Plant the raw water is treated for physical, chemical and biological standards to achieve the required drinking water standards. In this site visit, we have got the knowledge regarding –

- Functioning of water treatment Plant in actual practice.
- Various essential units of WTP
- Technical details of each unit with their working
- The various routine laboratory tests done on raw as well as pure water.

Also we studied the characteristics of raw and treated water which help us to understand the effectiveness of treatment so as to achieve the permissible drinking and disposing water standards.

