

**VINAYAKA MISSION'S RESEARCH FOUNDATION
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY**

Department of Biotechnology

Industrial Visit to Fecal sludge Treatment Plant (FSTP), Maduranthakam -29.07.2026

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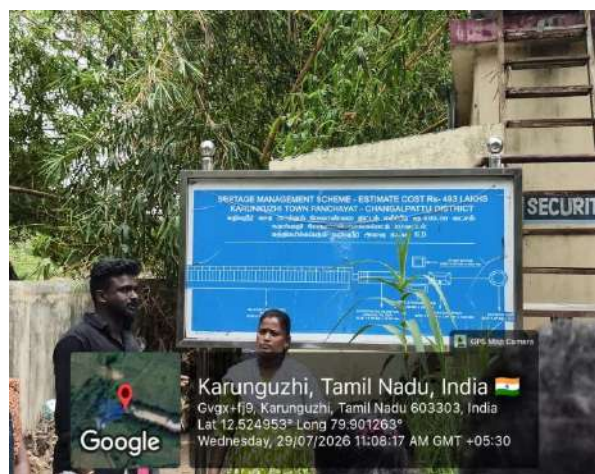
Students: II year, III year and IV year (39students)

An industrial Visit was organized by Department of Biotechnology, Aarupadai Veedu Institute of Technology for II, III and Final year students of Biotechnology to **Fecal sludge Treatment Plant (FSTP), Maduranthakam** on **29.07.2026**. There were 39 students and 4 faculty members started from AVIT campus at 9.45 am and reached the industrial premises at 10.45 am. The entry formalities were completed and without any further delay, visit started with the brief history about the industry. This **Fecal sludge Treatment Plant (FSTP)** has been operated since May 2017. After completing the entry formalities, the visit began with a brief introduction about **FSTP** by Maintenance officer. The Fecal Sludge Treatment Plant (FSTP) in Karunguzhi is Tamil Nadu's first pilot plant, established by the Government of Tamil Nadu with support from the Tamil Nadu Urban Sanitation Support Programme (TNUSSP) to treat local septage and demonstrate scalable on-site sanitation management.



The students were taken to various departments, including waste collection, segregation, manure recovery and technical treatment plant. The faculty briefed the students on the entire process, starting from sample collection, till Quaternary treatment. The biological treatment facility processes 23.4 kilolitres of septage daily from roughly from 3,000 households in Karunguzhi and 7,000 in Maduranthagam.

The capacity of the treatment plant is 23.4 KLD (kilolitres per day) of fecal sludge. The students gained insights into practical concepts which lies behind the theory Downstream processing technology



The visit provided a real-time exposure to the industry's operations, showcasing FSTP's commitment to Eco friendly environment and public health hygiene. The students appreciated

the opportunity to witness the industry's processes and equipment, gaining valuable industry exposure.

Based on the visit, we recommend that FSTP consider collaborating with academic institutions to provide students with hands-on training and research opportunities. This would enable students to gain practical experience and develop skills relevant to the industry.



Finally, we were being taken to operation and processes where the sludge removed was used as manure and treated water storage tanks. We completed the visit at 1.30.pm and reached the college premises at 2.30 pm