

DEPARTMENT OF CIVIL ENGINEERING

Report on

Industrial Visit to Water Treatment Plant

Department of Civil Engineering, ATMECE Mysuru in co-ordination with Bangalore Water Supply & Sewage Board, Bengaluru had organized one day technical visit to Water Treatment Plant located in Torekadanahalli, Malavalli Taluk, Mandya District for 4th & 6th Semester Students on 17th April 2025.

Water Treatment Plant



Aerial View of Treatment Plant



BWSSB supplies around 1450 million liters per day, despite a municipal demand of 1.3 billion liters. Water for the city comes from a number of sources, with 80% of it coming from the Cauvery River. Cauvery water was originally drawn from a reservoir near the village of Thorekadanahalli. To meet the increasing demand, the "Cauvery Water Supply Scheme" was undertaken by the BWSSB in Stages.

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Engineer In Charge of the Visit Er. Preetham explained to students, that the plant is Asia's biggest water purification plant with 5 stages of purification and pumping along with conventional and latest technology.

The process was briefed to the students starting from the cascade aerators which are used to sediment the coarse particles and waste materials from water derived from the reservoir bed by gravity separation. The next step of treatment, i.e. chlorination and alum dosing to filtered water samples also explained the use of a flash mixture of water and sludge formation. Students were taken through the Dissolved Air Floatation units and showed the clarified water is separated by atmospheric pressure. Coagulation mechanism and flocculation techniques involved in the further processing of drinking water was also explained. The process of using sand filters called Azura filters procured from Rajasthan and Gujarat was demonstrated to students regarding the final filtration was done to ensure the water was suitable for Human consumption. Finally, filtration and backwashing was showed and water leftover after treatment is recycled to get through the serial processing techniques.

During the visit, students learned about the identification of the level of impurities in water, the formation of the layout of the plant, identifying the level of Chlorine in the plant, and the technique of Pulsification and DAF were adopted for better water treatment.

