

Integral University

A Report on Industrial Visit & Plantation at “Bharwara Sewage Treatment Plant” on 07th & 11th December 2021

Department of Civil Engineering strongly believe that site visit allows the students to develop a greater understanding of how civil engineering theory is put into practice. In this context Department of Civil Engineering, Integral University organised site visit on 7th & 11th



December 2021 for the B.Tech. Final year students at Bharwara Treatment Plant located in the outer parts of Gomti Nagar, Lucknow. Department also undertook plantation drive on both the days. A total of 50 saplings were planted to promote green environment at the Bharwara Treatment plant. The drive was led by Head of Department along with the faculty members and students.

Bharwara plant is the Asia's largest sewage treatment plant

built in 2010 and Operation commenced in 2011 by U.P. Jal Nigam. The project cost is ₹360 crore. It has design capacity of 345 MLD and covers an area of about 120 hectare. The plant is based on the Up-flow Anaerobic Sludge blanket Technology [UASBR]. It is now operated and maintained by Suez- a French based utility company which specializes largely in the waste water treatment and waste management systems.

The Students were accompanied by faculty members Mr.Nusrat Ali, Mr. Mohd Sadat and Mr. Mehtab Ahmad on 07th December and Prof. Syed Sqeel Ahmad, Mr. Nusrat Ali, Mr. M.U. Rizvi and Mr. Mohd. Sajid on 11th December 2021 to the Plant. At the plant, students were welcomed and briefed about the plant by Mr.Rajesh Deshraj, Assistant Engineer, Suez Group. He along with assistants took the students on a detailed tour of the plant.





The plant consisted of the following components:

1. Primary Treatment unit (Screening, Grit Chamber, Flow Measuring Device and Sedimentation Tank)
2. UASB reactors for secondary treatment
3. Methane collection tank
4. Pre-aeration unit
5. Aeration ponds
6. Chlorination unit.

