

Integral University

Department of Civil Engineering

A Report on Industrial Visit at Bharwara Sewage Treatment Plant on 25th & 26th February 2020

Department of Civil engineering strongly believes that site visits allow students to develop a greater understanding of how civil engineering theory put into practice. In this context Department of Civil Engineering, Integral University organised a site visit for the B.Tech



students at Sewage Treatment Plant located at Bharwara, Gomti Nagar, Lucknow on 25th and 26th February 2020. It is Asia's largest sewage treatment plant with a design capacity of 345 mld and covers an area of about 120 hectares. The plant is based on the Up-flow Anaerobic Sludge blanket Technology [UASBR]. It was constructed with a budget of Rs. 169 crore by U.P. Jal Nigam in July 2008. It is now operated and maintained by Suez- a French-based utility company which specializes largely in the wastewater treatment and waste management systems.

The students were accompanied by faculty members Mr Nusrat Ali, Mr Mohd Sadat and Mr Mohd Bilal Khan to the Plant. On the plant, students were welcomed and briefed about the plant by Mr Surendra Kumar, Assistant Engineer, U.P. Jal Nigam. He along with his team 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 Tank.

