



A Y DADABHAI TECHNICAL INSTITUTE(POLYTECHNIC), KOSAMBA

CIVIL ENGINEERING DEPARTMENT

Affiliated by Gujarat Technological University



# VISIT REPORT



**SEWAGE TREATMENT PLANT BHESAN, SURAT**



**A Y DADABHAI TECHNICAL INSTITUTE(POLYTECHNIC)**  
**DEPARTMENT OF CIVIL ENGINEERING**



**VISIT REPORT**

DATE OF VISIT: 12<sup>TH</sup> March, 2024

LOCATION VISITED: SEWAGE TREATMENT PLANT, BHESAN, SURAT.

**❖ ACKNOWLEDGEMENT**

We are gladly thankful to Director Mr. M. M. Dalchawal Sir as well as I/C H. O. D. of Department Mr. M. J. Parmar and our faculties who gave to students a great guidance regarding visit. So, we decided to take students for visit to Sewage treatment plant which is situated at Bhat Gam village Bhesan taluka.

We are especially thankful to Ms. Sonali Rana madam, in charge officer of water treatment plant because she granted us permission for taking visit at treatment plant and gave the proper guidance to students and allow visiting for the practical based approach learning to students.

### ❖ GENERAL INFORMATION:

The waste water treatment plant is set up by Jetpur Dyeing and Printing Association which is called a Common Effluent Treatment Plant [CETP] at Bhat Gam Bhesan Taluka, Gujarat, India. The association has set up a common effluent treatment plant to treat the effluent arising from around 200 washing Ghats. The total cost of these textile industries project was Rs. 3 million and the plant was successfully commissioned to give treated effluent BOD < 100 mg/L. The CETP consisting of physico-chemical treatment is designed and commissioned by CA to treat 2000 cum/day of effluent with inlet BOD 180mg/L.

### ❖ PURPOSE OF VISIT:

- The main agenda for arranging this visit was to enhance the practical and field knowledge of the students, to relate the theoretical concepts with real time problems and solutions, and most importantly to give them the exposure to sewage treatment plant setup wherein they are going to be eventually working as civil site engineers.
- The basis of civil engineering in environment industry is wastewater treatment activities and various unit processes carried out in specialized equipment.
- During visit, students have visited the treatment plant design, design components and operation of equipment manuals and drawings where-in both professors and plant supervisor helped them to understand the same in depth.

### ❖ ATTENDEES:

Mr. Shahid Y Patel

Mr. Mo. Tosif I Shaikh

24 Students from Semester 6

### ❖ SUMMARY:

- On 12<sup>th</sup> March - 2024, at 10:30 A.M. we reached at common effluent treatment plant at Bhesan. The visit started from the initial tank where the waste water is collected.
- Ms. Neha Pradip Saran, the senior scientific assistant of sewage treatment plant treatment plant guided all the students about the entire process of water treatment plant
- We have visited for understanding the working of a sewage treatment plant, Bhesan. Its main aim is to treat domestic waste water and to convert harmful waste to disposable hygienic waste. It collects waste from Rander, Adajan, Jahangirabad, Pal, Pisad are being catered.
- The primary sewage treatment plant at Bhesan, with a capacity of 100 MLD and 60 MLD capacities was constructed in the year 1992 and 40MLD in the year 2007.
- The secondary sewage treatment plant, based on the Conventional Activated Sludge Process and with a capacity of 100 MLD was constructed and commissioned in the year 2007, it has been upgraded to meet the latest sewage disposal norms of Gujarat Pollution Control Board.

### ❖ CONCLUSION:

- From this visit, we get the information and practical knowledge about the treatment of waste water and components used in treatment plant and got the knowledge about detailed process of treatment.

❖ PHOTOS:



❖ Prepared by: Mr. S Y PATEL

*Sahil Patel*

Faculty sign