

GOVERNMENT ENGINEERING COLLEGE VALSAD

DEPARTMENT OF ENVIRONMENTAL ENGINEERING



Report on Industrial Visit at Bharuch Enviro Infrastructure LTD (BEIL)

Name of Industry: Bharuch Enviro Infrastructure LTD (BEIL), Ankleshwar

Date of Visit: 25th April 2022

Number of Participants: 4th Semester Environmental Engineering Students (no. 27) with Prof. M. N. Chaudhary and Prof. M. K. Kunvarani.

Objectives of industrial visit: To observe and understand the concept of the landfilling, Incineration processes, different lab methods conducted to determine the properties of waste.

EVENT DESCRIPTION:

- The Department of Environment Engineering organized an industrial visit to BEIL, Ankleshwar on 25th of April 2022. The visit was organized for 4th-semester students. The total number of students who visited the plant was 27. The students were accompanied by two faculty members as mentioned above.
- The purpose of the visit was to observe and make students learn about the practical aspects of landfilling and incineration processes. Also to show the laboratory equipments and other analysis, which they have already learned in their 4th sem subjects MISWM (Municipal Industrial solid waste management). Thus it was a good experience to visit and observe the units practically.
- Beil is the first laboratory in India which has the approval of MOEF (Ministry of Environment, Forest and climate change) and the company has several national and international standard certifications like ISO-14001, OHSAS-18001 and NABL certification ISO-17025. The analysis done in this laboratory is accepted all over the India and accepted by all government authorities.
- Laboratory at BEIL performs leachate analysis, stack analysis and ambient air analysis, which meets national and international standards
- BEIL is spread over 68 acres of land with its own laboratory, fire hydrant system, Drains, Roads and weigh bridges facilities. Beil is dedicated to treat the hazardous waste at secure landfill and incineration facility as per the acceptance criteria by CPCB.
- The incinerator plant runs on biofuel generated from waste collected from residential area and the residual waste is used as fertilizers.
- The dumpers carrying the waste has a GPS system monitored by the company and the GPCB. The landfill is designed and constructed as per the CPCB criteria of operation and maintenance guidelines. The secure landfill capacity is 34 lac metric tons. Two common incinerators maintains 1100 centigrade temperature and has an operational capacity of 120 metric tons per day.
- Hazardous waste is transported here in dedicated vehicles by using XGN online manifest system of GPCB.
- The plastic waste that reaches the plants are turned into granules and then recycled.

- At last, the BEIL facility has facilities like landfill, Drum-decontamination, tanker washing, multi effect evaporation, etc.

Glimpses of the Industrial Visit:



Aerial image of BEIL



Plastic recycling equipment in BEIL



4th semester students with Prof. Monali N. Chaudhari and Prof. Meera K. Kunvarani

END OF REPORT