

GOVERNMENT ENGINEERING COLLEGE VALSAD

DEPARTMENT OF ENVIRONMENTAL ENGINEERING



Report on TSDf site visit at



VAPI GREEN ENVIRO LIMITED

Formerly Known as Vapi Waste & Effluent Mgt. Co. Ltd.

VIA House, Plot No. 135, Char Rata, GIDC, Vapi – 396 195, Gujarat, India

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CIN: U74210GJ1997GAP031525

Details of Industrial visit

Name of Industry – Vapi Green Enviro Ltd.

Date of Visit – 04/05/2022

Location – Common solid waste site, GIDC road, karvad, Vapi-396191, India

Number of Participants – 14 students & Prof. K.K. Modi

Objective of Industrial Visit –

To observe and understand the concept of the landfilling, liner system, leachate system, types of liners, cap covers.

Event Description –

- The Common Solid Waste Site has one landfill that consists of 7 cells. Each cell has a capacity of 2 lac metric tons. The total capacity of the landfill site is 14 lac metric tons. The landfill has double liner system to protect seepage of liquid from the waste into the water table. Leachate collection pipes are placed in the landfill to collect the leachate generating from the hazardous waste. Leachate is then pumped to treatment plant. The liners are 1.5mm thick. The water table is 2m below the landfill. The durability of one cell is 5-7 years. The durability of Landfill is 30 years.
- HDPE material is used for jointing the pipes for leachate collection. Landfill is covered in 90 days due to monsoon season. Mirror welding is used to weld the pipes. To cover the waste, the capsule is made with different layers of regular soil, GCL, HDPE, filter media, textile and sand.



Image 1: Landfill site



Image 2: 4th sem Students at TSDF site with Prof. K.K. Modi



4th sem Students at TSDF site office with Prof. K.K. Modi and officials