

INDUSTRIAL VISIT

B.E. Semester V, Chemical

Name of Industry: IFFCO-Kalol unit, Taluka Kalol, District Gandhinagar,
Kalol - 382423, Gujarat, India

Date: 31st August, 2023

A visit was organized for 3rd year students of Chemical Engineering at IFFCO-Kalol unit, Taluka Kalol, District Gandhinagar, Kalol - 382423, on 31st August, 2023. Indian Farmers Fertiliser Cooperative Limited (IFFCO) is the largest Fertiliser manufacturing cooperative in Asia, owned by farmers. IFFCO presently owns five giant fertilizer plants namely Kalol & Kandla in Gujarat, Phulpur & Aonla in Uttar Pradesh and Paradeep in Odisha. NPK and DAP (complex fertilisers) are produced at Kandla and Paradeep plants. Ammonia and urea are produced at Kalol, Phulpur and Aonla plants. The IFFCO Kalol Unit, spread over 96 hectares of land, is located 26 km away from Ahmedabad on the Ahmedabad Mehsana state highway. The unit started commercial production in April'1975. The unit consists of plants to produce ammonia, urea along with offsite facilities. Originally the 910 MTPD ammonia plant was based on natural gas steam reforming process of M/s M.W. Kellogg, USA and 1200 MTPD urea plant was based on CO₂ stripping process of M/s. Stamicarbon, the Netherlands. Both the plants have been revamped in 1997 to enhance capacities to 1100 MTPD ammonia and 1650 MTPD urea. The unit has also established Nano Urea (Liquid) plant a capacity of manufacturing 1.5 lakh bottles per day. The students got a first hand knowledge of the working a modern fertilizer unit. The students saw the various sections of the plant namely ammonia plant, urea plant, utility sections, bagging unit and effluent treatment unit. The students also got to know the working of a DCS. Dr. S. M. Dutta coordinated the visit. Dr. H. N. Pandya, Dr. R. P. Bhatt and Prof. Piyush Patel accompanied the students for the visit.

GLIMPSES OF THE VISIT

