

**INDUSTRIAL VISIT TO ZIRCONIUM COMPLEX UNIT OF NUCLEAR FUEL  
CORPORATION OF INDIA, PAZHAYAKAYAL, THOOTHUKUDI DISTRICT,  
TAMIL NADU**

Industrial visit provides an excellent opportunity to interact with industries and know more about industrial environment. Industrial visit helps to combine theoretical knowledge with practical knowledge. Industrial realities are opened to the students through industrial visits. Hence it is an essential for chemistry students. Therefore as a part of curriculum we have visited Zirconium Complex, Unit of Nuclear Fuel Corporation of India situated at Pazhayakayal, Tuicorin District, Tamil Nadu on 05/10/2019. Zirconium has a special character which other metals don't have. i.e. it does not absorb neutron, oxidised and corroded even at very high temperatures. Therefore it is used in the nuclear reactors to keep the fuel in the form of pellets. Students learnt the various processes (Solvent extraction, reduction) in the separation and purification of Zirconium from its ore Zirconium oxide in person. Students also visited the Instrumentation centre and understood the operation of Atomic Absorption Spectrometer (AAS), and Atomic Fluorescence Spectrophotometer(AFS). Students enjoyed the Green environment inside the complex and congratulated the entire administration. Students also witnessed in person the maintaining of Zero Effluent Discharge. Finally we the faculties and students thanked the Administration of Zirconium complex on behalf of The Principal, College Administration and HOD of Chemistry for permitting us to visit the Zirconium complex. In total this industrial visit was a unique one to the students academically.