

## **Report of Industrial Visit Report cum Educational Tour-2015**

As the benefit for students, let them to know the industrial process and to gain the real time experience of industrial functionalization, The Department of Industrial Chemistry has arranged the two days Industrial visit cum Educational tour from 30-09-2015 to 01-10-2015. A team contains 68 PG students, 14 Research scholars, 6 faculty members and one lab assistant, has reached Cochin in Kerala on dated 30-09-2015 at 8.00am. At 10.00am the team has reached the **Sud-ChemieIndia**, Binanipuram in Kerala, where the team was split into two batches. Each batch contains three faculty members and forty one students.



**Faculties, Research Scholars and Students at Sud-ChemieIndia, Binanipuram in Kerala**



**Faculties, Research Scholars and Students at Sud-ChemieIndia, Binanipuram in Kerala**

The first batch has visited the Research & Development (R&D) Unit of the industry at 10.15am, where the field experts explained about the industrial processes such as preparation of catalysts, pre-reduction and stabilization of catalysts which can be reactivated much faster than an un-reduced catalyst, Characterization of the catalysts and analyzing the physical and chemical properties, etc. At the same time the second batch visited to the instrumentation lab, where the instruments such as XRD, TG-DTA, FT-IR, High pressure catalyst test reactor and Micro porous surface analyzer were demonstrated. At 11.45am the first batch has gone to instrumentation lab and the second batch went to R & D unit. The students have paid their keen attention and curiously interacted with the field experts. Then the team left out from the Sud-Chemie at 1.15pm.

Secondly the team has visited to the **Travancore – Cochin Chemicals Ltd (A Government Company)**, Udyogamandal, Cochin in Kerala at 2.30pm. It is a heavy chemical industry engaged in the manufacture and marketing of Caustic Soda, Chlorine and allied chemicals. The team was again divided into two batches. The first batch has visited to the continuous caustic soda fusion and Chlorine Liquefaction unit, where the field expert explained about the multistep processes carried out from the raw material for bulk production. The second batch went to the manufacturing unit of sodium Hydrosulphate and iron free sodium sulphate. Then each batch in reverse visited the industrial units. Then the team left out from the industry at 6.00pm.

On dated 01-10-2015 at 10.00am the team has sailed in Cochin, during the time we saw INS-VIKRANT India's first indigenous aircraft carrier (IAC), new harbor construction and historically significant Portuguese church named St. Louis. After one hour sailing, we have reached the island mattencherry and visited the Dutch palace.





### **at Cochin Port**

Finally the students have gained the knowledge of bulk level chemical preparation and their multi step processes and also understood the history and the historical events occurred in Cochin. The purpose of the industrial visit cum Educational tour was successfully achieved and returned to karaikudi safely.