

A REPORT ON
ONE DAY INDUSTRIAL VISIT
TO
Numaligarh Refinery Limited

ORGANIZED BY

Department of Instrumentation Engineering, Jorhat Engineering college, Jorhat



A one day industrial visit was organized by the Department of Instrumentation Engineering, Jorhat Engineering College to one of the most prestigious and technically advanced refinery, The Numaligarh Refinery Limited (NRL), Numaligarh. The visit was scheduled on 4th May, 2018. All faculty members, including the HOD and students of the department had joined the visit. The team started around 8.00am from JEC and reached the refinery at 10am. Mr Rubul Boruah, Senior Manager (F&S), NRL, along with other persons from Department of Instrumentation Engineering, NRL received us with a warm welcome. Crossing the security checking, the team was received by many engineers of NRL who are alumni of Jorhat Engineering College. The team was taken to visit many important plants of NRL under supervision of Er Anjan Jyoti Dutta. Some of them are –

1. **CDU (Carbon Distillation Unit)**
2. **VDU (Vacuum Distillation Unit)**
3. **Wax Plant**
4. **Hydrocracker unit**
5. **Power generation unit**
6. **Turbine unit**
7. **Colling Towers**
8. **LPG filling plant**
9. **Instrumentation Workshop**

The team could not enter some plants due to security and safety regions but the escort took care so that students can see whatever possible. In the control room, the engineers of NRL tried to give all possible exposure to the students. The team got live demonstration of PLC -DCS – SCADA networking system, which gave the students an insight what they had studied in theory courses, specially the final year students. For the junior students, this exposure was important as in the higher semesters while studying different courses they will be able to correlate and recall what they had seen. During fieldtrip the team got the opportunity to visit newly renovated Wax Packaging plant, where the packaging is done in fully automatic manner.

The faculty team met the senior officers of Instrumentation Department and discussed regarding students' Internship and project. The HOD (Instrumentation), ER NiharPrasad Sarma, assured their full cooperation on student matters.

The visit ended with delicious meal provided by NRL to show their hospitality.

NRL is a huge industry, not only in size but also in technology. A one day visit is not sufficient to understand everything, but the students definitely got a glimpse, what the Instrumentation Engineering is! They got idea about how top to bottom instrumentation is related in every section of any process plant or industry, from automatic hand dryer to PLC. Moreover, by looking at their seniors working in an industry, the students were highly motivated. The journey was completed with a hope. Hope to a better future. Hope to become a better Instrumentation Engineers to serve the nation! The visit has been successfully completed.



Coordinators: 1. Mr Arobindra Saikia

2. Mrs Monisha Pathak