

Visit to The Eco-Friendly Panipat Refinery – The Energy of India

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Thirty one students of B.Sc.(Hons.) Stage 2 and Stage 3, went for an industrial visit to the Panipat Refinery of Indian Oil Corporation Limited, on March 15, 2011. They were accompanied by three faculty members from IILM Institute of Higher Education- Ms. Shivani Khurana, Ms. Sangeeta Chopra and Mr. Girish Ahuja. It was a daylong visit and the group savoured each moment of it. We toured the entire plant wherein we witnessed the entire production & storage facility. Ms. Anjana Baruah Sharma, Mr. Dinesh and Mr. Laxman das of IOC, had made prior arrangements for us, thus making the visit comfortable and hasslefree. Mr. Vikas of the engineering department, toured with us the entire plant, explaining to us all along, the intricacies of IOC's production and storage facilities. The plant tour was followed by a detailed presentation by their GM-HRD Mr. Verghese Cherian, which proved to be very instructive for our students.

Panipat refinery is the 7th refinery of Indian Oil Corporation. It is located about 20 kms. from Panipat city and 100 km. from Delhi. Benchmarking Quality, Quantity and Service to world-class standards is a philosophy that Indian Oil adheres to, ensuring that its customers get a truly global experience in India. Continued emphasis is on providing fuel management solutions to customers who can then benefit from their expertise in efficient sourcing and least cost supplies, keeping in mind their usage patterns and

inventory management.



IOC at a glance

Each drop counts

IILM Students and Faculty members, at the IOC Panipat Plant



Panipat Refinery is built at a cost of Rs. 3868 crores (including Marketing and pipelines network installation) with an installed capacity of processing 6 million metric tonnes of crude oil, per annum. The Refinery has the vision to become a major diversified, transnational, integrated energy company, with national leadership, strong environment conscience, and playing a national role in oil security & public distribution. IOC Cross-country pipelines are globally recognised as the safest, cost-effective, energy-efficient and environment-friendly mode for transportation of crude oil and petroleum products. Panipat Refinery is one of India's most modern refinery with global technologies from France,

Denmark, Stone & Chaksu, Webster USA. The refinery receives crude oil through a 1350- KM long pipeline from Salaya in Gujarat and Vadodra Salaya reaching Panipat via Chaksu. This refinery has processed about 30 types of imported crude oil from countries like Saudi Arabia, Iran, Iraq, Dubai, Kuwait, Malaysia, Nigeria and other African countries, since its commissioning.

Products from Refinery:

IOCL produces a range of products, churning out these in impressive volumes viz. 2 lakh tonnes of cooking gas (LPG)- Indane Gas, Autogas, Natural Gas, 8 lakh tonnes of Petrol, 24 lakh tonnes of Diesel, 3 lakh tonnes of Jetfuel, Servo-lubricants and Greases, 6 lakh tonnes of Kerosene, Industrial fuels, Bitumen (i.e a common binder used in road construction), Crude oil and Petrochemicals. The refinery has also commenced production of ultra low sulphur diesel and 1 % benzene petrol.

IndianOil's leadership extends to its energy brands :

Indane LPG, *SERVO* Lubricants, Autogas LPG, XtraPremium Branded Petrol, XtraMile Branded Diesel, XtraPower Fleet Card, IndianOil Aviation and XtraRewards cash customer loyalty programme. Petroleum products are transported through Pipeline, Rail and Road. Majority of products are transported through environment-friendly pipelines. Panipat Refinery meets the demand of petroleum products not only of Haryana but also of entire North-West Region including Punjab, J&K, Himachal Pradesh, Chandigarh, Uttaranchal state and parts of Rajasthan & Delhi.

Only Desulphurised Fuel Gas and Low Sulfur Fuel Oil with Sulphur content below 0.5% is used in Refinery furnaces, making this Refinery a Zero Effluent Discharge Refinery. Air Quality around the Refinery is monitored continuously through Air

Monitoring stations and Mobile Air Quality Monitoring Van.

Community Development Programmes:

IOCL, Panipat Refinery is committed to improving living standards of people in its vicinity, with the objective of making them self-reliant. As a part of its social responsibility, it supports community initiatives in the field of health, water management, vocational training, education and literacy etc.

The Refinery has undertaken various health camps in the nearby villages through reputed hospitals/doctors. Various projects for providing clean drinking water to the nearby villages have been undertaken by the Refinery.

The Refinery believes in empowering underprivileged rural women by providing them income generating opportunities. Training is conducted for them in skills like tailoring and durrly-making, securing their livelihood and improving their standard of living. This inturn helps to accord greater dignity to the rural women.

Visit to the Panipat refinery has been insightful as we observed its following best practices firsthand.

- Use of energy efficient and environment friendly technologies.
- Benchmarking performance with the best in the world and endeavoring to stay ahead.
- Use of renewable sources of energy.
- Fostering a culture of participation and innovation amongst stake holders for continual improvement in energy conservation.
- Propagating the message of avoiding wastage of energy, to the community.
- Desulphurised Fuel Gas and Low Sulfur Fuel Oil with Sulphur content below 0.5% is used in Refinery furnaces.
- Panipat Refinery is a Zero Effluent Discharge Refinery, which makes it

ecofriendly – The Energy of India.