



N. L. Dalmia Institute of Management Studies and Research

Industrial Visit Report

Nuclear Power Corporation of India Limited (NPCIL)

(Tarapur Atomic Power Station, Maharashtra)

Nuclear Power Corporation of India Limited (NPCIL) is a Public Sector Enterprise under the administrative control of the **Department of Atomic Energy (DAE)**, Government of India. The Company was registered as a Public Limited Company under the Companies Act, 1956 in September 1987 with the objectives of operating atomic power plants and implementing atomic power projects for generation of electricity in pursuance of the schemes and programmes of the Government of India under the Atomic Energy Act, 1962. NPCIL also has equity participation in BHAVINI, another PSU of Department of Atomic Energy (DAE) which implements Fast Breeder Reactors programme in the country.

Tarapur Atomic Power Station was constructed initially with two boiling water reactor (BWR) units under the 1963 123 Agreement between India, the United States, and the International Atomic Energy Agency (IAEA). It was built for the Department of Atomic Energy by GE and Bechtel. Units 1 and 2 were brought online for commercial operation on 28 October 1969 with an initial power of 210 MW of electricity. Later on this was reduced to 160 MW due to technical difficulties. These were the first of their kind in Asia.

Details of Industrial Visit

The Visit was organised for PGDM Finance Students with the prior permission of Director Dr. M.A. Khan, HOD of Finance Department Prof. Jyoti Nair N.L. Dalmia.



Batch - 1



Batch - 2



Batch – 3

It was a good experience, which has provided exposure to the final year students with industrial life. The students are benefited in terms of the technical details provided by the guides on an important part of TAP and Various Career Opportunities in Nuclear power plant and their core field. Presentation on Nuclear Technology & TAPS at Nuclear Training Centre (NTC): They conducted around 2 hours and 30 min seminar sessions as following details.

- Detailed presentation on the Nuclear Technology, Tarapur Atomic Power Station and its operations to students by senior Technical Staff of TAPS-3&4.
- The presentation covered various safety aspects of the nuclear power plants (NPPs) keeping in mind the Atomic Energy Regulatory Board (AERB) guidelines, their emergency preparedness and the benefits of nuclear power.

- Students were also told that radiation level is periodically measured in the surrounding areas of TMS by the Environment Sampling Laboratory (ESL) and briefed about the functioning and role of environment monitoring mechanism towards nuclear safety.
- Health monitoring of workers and local peoples are done by measuring the doses of radiations on regular intervals.
- It was also highlighted in the presentation that radiation received from NPPs, by the people residing in the vicinity, is insignificant in comparison to the natural background radiation. On this occasion, a film on Tarapur, telecast by National Geographic Channel was also screened to us

The details of Journey are as follows: -

- For convenience of pickup facility, we started travelling from Mira Road at 7.00 AM on 7th and 8th of November 2022.
- We had Tea with Samosa in the middle of the journey.
- The whole journey was enjoyable & we reached to Tarapur at morning 9.30 A.M.
- At the entrance there were CISF security, they checked the bus as well as our I card. All the Check-in process has been done by the assigned faculty and some special task force from 9.45 AM to 10.15 AM.
- Two senior officers of TAPS guided us to the power plant and they took us to the canteen for our breakfast. After finishing our breakfast, they took us to the nuclear training centre (NTC)
- 11Am to 1:30 Pm there were Presentation on Nuclear Technology & TABS at NTC.

- 1:45Pm we had lunch at TABS canteen.
- We visited the plant in detail from 2.00 pm to 5.00 pm.
- Again, check in process has been done at 5.30 pm while leaving the plant.
- At 6.00 pm we again boarded in the bus and headed towards our home.
- In the middle of return journey, we took a tea break around 7.30 pm for refreshing our mood.
- Till then time 9.00 pm all students reached to their respective homes with safe and full of glory.

During the trip students raised many questions about the radiation, congenital deformity, safety of Indian nuclear power plants, effects of earthquake and tsunami in the wake of the nuclear disaster happened at Fukushima, which were answered with authentic facts and logical approach by senior officials of Tarapur Atomic Power Station – 3&4

KEY TAKE AWAYS:

Students got the opportunity to visit NPCIL which is first and largest power plant in India. Students got exposure to the operations in power plants which gave them insights into working of companies in power sector including costing and financial in power company.

Some Glimpses of visit





