

EDUCATIONAL TOUR

04-08-2022,
NELLORE

PLACE OF THE VISIT: Hi-tech Pharma, Pothireddypalem, Nellore

OBJECTIVES:

The objectives of the tour are

- To gain knowledge of industrial exposure and the processes involved in fermentation technology.
- To know how the industry is working regarding production along with R&D conditions.
- To acquire knowledge regarding the instrumentation involved in the development, production, downstream processing and packing.

REPORT:

The study tour was planned as per the curriculum and was organised on Friday the first week of September 02-09-2022) to Hi-tech Pharma which has been registered with the Ministry of Corporate Affairs as 'Hi-tech Life Sciences PVT. Ltd, located in Nellore. In the morning at 9:00 a.m. students and teaching faculty members, Prot. Vijay Anand babu (H.O.D, Dept. of Microbiology), Dr. C. Kiranmai (Asst. professor, H.O.D, Dept. of Biotechnology). Dr. K.V.L. Shrikanya Rao (Asst. professor, Dept. of Biotechnology), Dr. G. Vidya Sagar Reddy (Faculty, Dept. of Biotechnology) and Dr. Praveen gathered at Vikram Simhapuri University, Kakatur, Nellore and started at 9:30 a.m. and reached around 11:00 a.m. to Hi-tech Pharma.

Hi-tech Pharma has its foundations and accumulated expertise, decades of experience, and a deep understanding of the demands of business started its operations in 1999. It was founded by Mr. N. V. Ramana Reddy and has a team of expert doctorates and professionals manning product development and management. This evolving entity focussed on Nutrition, environment, and health management for aquatic and poultry. The dedicated facilities have been set up since, for the production of a wide range of premixes and probiotics for animals (cattle, poultry) and aqua life (shrimps, prawns, fishes, etc.). The company was registered with Reg No: AMS-K14311 and ISO 9001 2008 (quality policy).

The Biotech division in the industry includes Probiotics development involving the fermentation process where huge fermenters were used for fermentation using *Socchoromyc* culture incubated at 48°C for 48 hours supplemented with Vitamins (B & K). These were maintained at the highest quality standards. Then the fermented culture was transferred to the photosynthetic unit where the fermented culture was incubated till a change in its colour (transfer of energy). Then the liquid obtained is dried and powdered. The feed which is in the form of powder (solid) was packed accordingly to the market need. Other equipments used in

the industry were: fermenter, electric spray drier, autoclave, shaking incubator, rotatory shaker, hot air oven, weighing balance, calorimeter, U.V light filter, pH meter, Hot plate, heating mantle. The end products produced by the company are Natural Aqua Feed Supplement and Natural Animal Feed Supplement.

OUTCOME:

The educational tour of the Hi-tech pharma industry in Nellore is an excellent opportunity for students to get an insight into the working of the industry.

The tour covers all the significant aspects of the industry, from the manufacturing process to product development.

Students acquired knowledge regarding the instrumentation involved in the R&D conditions in the industry, the actual production process, downstream processing and packing.

Students and faculty members also got a chance to interact with industry experts and get their valuable feedback.





