

## Shikshan Maharshi Guruvarya R. G. Shinde Mahavidyalaya, Paranda

### **INDUSTRIAL VISIT TO SUGAR FACTORY, FERMENTATION UNIT, AND SPINNING MILL AT VITTAL COOPERATION PVT. LTD.**

Department of Chemistry, Physics and Botany had arranged one day industrial visit to Vittal Cooperation Pvt. Ltd. Visit was arranged on 01/12/2014. The visit was arranged specially for the Final year students of B.Sc.

The main purpose behind arranging the visit was to correlate the subject knowledge with the actual process of Industry. 20 students and 2 staff members were present during the visit. We started our journey at 9.00 am in morning from our college campus and reached the factory site at 10.00 am. The factory management had made arrangement of one chief chemist who explained the entire sugar manufacturing process in detail from crushing of sugarcane to the final product called sugar. During the visit he explained each and every aspect of sugar process. There was a good interaction between the students and the chemist. He cleared all the difficulties raised by the students. During the visit we had gone through various process like crushing, boiling section, steam generation, turbines, production of electricity, refining of juice, centrifugation, removal of press mud, and crystallization process. After seeing the sugar process we moved towards the next unit which was distillery unit, in this unit the operator explained the process of fermentation of molasses using the culture of yeast. Students were also taken to the microbiology lab. It was well equipped with good instruments like B.O.D. Autoclave, Laminar air flow, water distillation unit, Microscope etc. The Whole unit was fully atomized with computer software. The manufacturing products were Rectified Spirit, liquor alcohol and alcohol of industrial use. After watching the distillery and fermentation unit we moved towards the last section of our industrial visit that was spinning mill. At the site of spinning mill we saw processing of raw material cotton which involve removal of cotton seeds in the ginning mill. Seeds removed from cotton were further processed for the manufacturing of oil. Residue left behind knows as deoiled cake was utilized as cattle feed. Free cotton was further proceeded to the spinning mill were

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Department of Botany





unwanted impurities were removed. This pure cotton was fed to next unit to with draw small threads. At the end visited the garment manufacturing section of the spinning mill were different types of garment like T-shirts, pants, inner wear were manufactured .The visit was very fruit full for the students which helped them to learn various process in the industry.

**Staff present:**

1. Mr. A. B. Ghumare-Chemistry
2. Dr. S. S. Chavan-Botany

— *Chavan*

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शिक्षण महर्षी गुरुवर्य रा. ग. शिंदे  
महाविद्यालय, परंदा.







Starting of Tour



During sugar factory Visit



During Distilary unit Visit



During Spining mill Visit



During Spining mill Visit



Interactive session