



GONDIA EDUCATION SOCIETY'S
**SETH NARSINGDAS MOR COLLEGE OF ARTS, COMMERCE &
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DEPARTMENT OF CHEMISTRY

Industrial Visit at Manas Agro Industries and Infrastructure

Ltd. Dewhada

Introduction: Industrial visits are arranged by colleges for the students to provide an opportunity to explore different sectors in which the students are passionate about it, Manufacturing, services, finance, and marketing. Industrial visit helps to mix theoretical knowledge with practical knowledge in a good way. Hence, Industrial realities are opened to the students through industrial visits. The visit was aimed to enhance the knowledge of the students, to understand the operations that are used in the Manas Sugar Factory and to understand the different process implemented to prepare sugar from sugarcane. At Industry students were able to see and understand different mechanical operation carried out in industry e.g. cutting, shredding, screening, centrifuging etc. Students have experienced the actual operations which are being taught in the classroom e.g. evaporation, crystallization etc. The aim of visit was fulfilled at the end of “Sugar Industry” visit. and the company's contributions to sustainable energy.

Participants: This visit was organized by department of Chemistry, S. N. Mor College of Arts & Commerce and Smt. G. D. Saraf Science College, Tumsar, **Manas Agro Industries and Infrastructure Ltd. located in Dewhada.** Total 40 numbers of students from **B.Sc. students SEM-II & IV)** and 3 faculty members are actively participated in this study tour. Faculty members Dr. Pravin A. Dhakit, Prof. Pankaj .L. Pardhi, Prof. Vaishali T. Parate are accompanied to visit.

Industrial Visit Schedule: A total strength of **43 including 40 students along with 03 faculty members** of Chemistry Department on dated -17/02/2025. All the students approached college by 09:15 am and started the journey by 10:00 am. After overall communication we reached Manas Agro Industries and Infrastructure Ltd. located in Dewhada, by 10:00 am. The Schedule of visit was started from 11:00 am to 12:30 pm in which they guided tour of the for factory visit, in which students had knowledge about Sugar production by different process implemented to prepare sugar from sugarcane. After factory visit take lunch at plant canteen and we leave plant at 02:00 pm and reached college at 03:00 pm.



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Purpose of the industry visit: Main aim of industrial visit is to provide an exposure to students about practical working environment. They also provide students a good opportunity to gain full awareness about industrial practices. Through industrial visit students get awareness about new technologies while studying in college before, theoretical classes are so boring; to balance the situation and keep it more interesting practical knowledge has been introduced. Nowadays practical and other curricular activities are included in the part of the syllabus so that students can study more diligently. Similarly, an Industrial visit is a type of practical knowledge that introduces us to the working world. Before proceeding, we need to know what the industrial visit is.

Objective of the industry visit: The objective of an industrial visit is to provide students with an insight into the corporate world. It provides students have experienced the actual operations which are being taught in the classroom e.g. evaporation, crystallization etc. Sugar is manufactured through Double Sulphitation Process and to reach the International standard of Sugar Syrup Clarification System has been installed in factory. Major products are as follows, **Sugar** which is a carbo-hydrate is obtained from sugar cane, **Bagasse** is the residue obtained from crushing cane in the mills, **Molasses** which is dark brown viscous liquid obtained as a by-product in processing cane sugar, **Rectified Spirit** it is manufactured by formation & distillation of molasses, **Absolute Alcohol** (ethanol) it is manufactured by azeotropic distillation. The main aim of industrial visits \ Educational trips is to give exposure to the students about the practical working environment with theoretical learning. They provide students a good opportunity to achieve full awareness about industrial practices and working.

Outcome /Observations: The students gained a practical understanding of the complex systems involved in the chemical laboratories, food production and small power production. Many students expressed a keen interest in pursuing careers in the energy sector, especially in Chemistry department, food process and production, and environmental management. The visit highlighted the importance of sustainability and responsible industrial practices in Chemistry exposure, mitigating environmental impact. Students learned about the importance of safety measures in industries and how they are implemented in large-scale operations.

Conclusion: - The industrial visit at Manas Agro Industries and Infrastructure Ltd. in Dewhada, was a valuable learning experience for the students of Department of Chemistry, S. N. Mor College of



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Arts & Commerce and Smt. G. D. Saraf Science College, Tumsar. It provided them with a practical understanding of Chemical Laborites, Food Process and Production, Power Generation, Industry Practices, Environmental Management, and Safety Protocols. The visit also opened avenues for future exploration in the field of food production and process, making the students more aware of the modern industrial practices that contribute to national development. This practical knowledge will be helpful to students for enhancing their interest in the subject and developing the employment and scientific approach for their future carrier.

Photos:

