



(ESTD. 1965)

Gondia Education Society's

**SETH NARSINGDAS MOR COLLEGE OF ARTS & COMMERCE &
SMT. G. D. SARAF SCIENCE COLLEGE**

Tumsar-441912 (M.S.) Dist. Bhandara

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Ref. No. : _____

Date : 12.10.2019

Academic Visit to
CLARION DRUGS LIMITED
On 10th October 2019

Jointly organized by :
**S. N. Mor College, Tumsar Dist : Bhandara &
Dr. Ambedkar College, Deekshabhoomi, Nagpur.**

INTRODUCTION

Clarion Drugs Ltd falls under the Ministry of Science & Technology and is situated in Central India at Tumsar, Dist. Bhandara in the state of Maharashtra about 80km from the city of Nagpur.

It is a manufacturer of Pharmaceutical Intermediates & fine chemicals in India. Clarion for last 15 years is a well known name from India for manufacturing a very wide range of basic and advanced pharma intermediates. It has been the largest manufacturer of Acetophenone, Benzaldehyde & Propiophenone intermediates in the world. The Company offers major intermediates for the International Pharmaceutical & Perfumery industry.

They have a multi-process plant which performs wide range of reactions equipped with a state of art machinery & utilities.

Purpose of the visit

- To discuss with the Scientists on the manufacture of various drugs and chemicals.
- To understand the working of state of the instruments & machines being used to manufacture the drugs and chemicals.
- To understand the opportunities available for the students completing Graduation & P.G in chemistry.
- To understand overall working of various machineries & utilities.



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The visit started at 4 pm 32 students of B.Sc. Sem.-V of S. N. Mor College and 22 Students of M. Sc. (Chemistry) of Dr. Ambedkar college, Nagpur along with faculty member of both college Dr. P. A. Dhakite, Dr. Sawant, Dr. Sagar, and Ms. Pooja with the introduction of Clarion Drugs Ltd by **Vice President, Mr. Atish Bera**, who welcomed the students at the gate & provided the information about the company & its overall working process.

He showed the students various machineries which are being used to manufacture the drugs & chemicals.

Firstly, the students were taken to a **Reactor machine** which is used for processing & formation of Acetophenone intermediate occurring in a reactor.

A reactor is a double jacketed instrument used for the substance to react where the temperature is maintained upto 0° in space & inside upto -1° temp is being maintained. Secondly, he told that there are **50** reactions in their company & after that he showed the further process.

Machines used were placed in the **AFDP** lab. The first machine is called as **FDP**, where hot air is produced & placed on the material to dry & remove the moisture completely.

Next the substance after drying is put in a **Milling machine** so that it gets milled in fine particles & finally it is put in a **Centrifuge machine** where the material is separated.

Then the material is purified & its quality is checked in **QC lab** and it is weighed in the **Instrumental lab**.

Finally the intermediate is packed and distributed to various foreign countries rather than India.

Lastly, Dr. P. A. Dhakite giving the vote of thanks to Dr. A. K. Bera and team of Clarion Organic Ltd for such useful educational visit and knowledge given by them to student about intermediate synthesis.



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