



2022-23

VISIT TO ARNAV POLYMERS, UNGUTURU ON 31.07.2023

#### OBJECTIVES OF THE VISIT

1. To study the manufacturing of thermocol from its raw material on large scale
2. To gain a learning experiences which is out of the classroom but are necessary
3. To provide practical knowledge related to chemistry subject in industries
4. To offer exposure to different environments, teamwork, problem solving, observational skills in students.
5. To enhance learning abilities by applying theoretical knowledge.

#### OUTCOMES

1. Students will be able to understand the manufacturing of thermocol from its raw material
2. Gain some learning experience related to their subject in industry
3. Students get motivated and engage in learning

#### BRIEF REPORT

On 31<sup>st</sup> of July 2023 students and staff of our college visited Arnav Polymers Pvt. Ltd, Unguturu. After visiting Arnav polymers industry, students were able to understand the manufacturing of thermocol from its raw material which was explained by the manager. Thermocol is prepared by using polystyrene using different techniques like polymerisation.

Arnav polymers Pvt. Ltd is a private company incorporated on 25<sup>th</sup> August 2010 which is classified as non-government company and is registered at registrar of companies, Vijayawada.

Thermocol is a polymer mainly useful for packing prepared by thermoplastic polymer of Styrene which can be moulded into objects. It is useful for thermal insulation, to protect products like TVs, computers, glass products etc.,

**SAS GOVERNMENT DEGREE COLLEGE, NARAYANAPURAM, WEST GODAVARI  
DISTRICT**

Department of Chemistry



**II. VISIT TO LIXIL INDIA SANITARYWARE, BHIMADOLE**

**OBJECTIVES OF THE VISIT**

1. To understand the manufacturing process of sanitaryware which is useful to gain knowledge about chemicals, machinery used in production on large scale.
2. To experience practical knowledge outside the classroom
3. To encourage self employment

**OUTCOMES**

1. Students will able to understand the methods of manufacturing of different types of sanitaryware.
2. It gives a learning and practical exposure to the students

**REPORT**

On 20.07.2023 II B.Sc (MPC&BZC) students along with staff visited LIXIL India sanitaryware Pvt. Ltd. Which is at Amberpet near Bhimadole to study the process of manufacturing and exporting.

After the industrial visit students got some knowledge about the manufacturing process of sanitaryware using normal bench casting , battery casting, beam casting etc. and types of products.

LIXIL, a water and housing products major has invested Rs. 400 crore in its first sanitaryware . the one million units per annual capacity plant became operational today. It aims to support Governments "Make in India" initiative and generate employment opportunities.

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Department of Chemistry



**III. STUDY VISIT TO PB SIDDHARTHA COLLEGE OF ARTS & SCIENCE**

**OBJECTIVES OF THE VISIT**

1. To experience academic rigor at that college and to know various advanced facilities available there.
2. To acquire knowledge of some latest equipment in Science laboratories like HPLC, Spectrophotometer, Museum etc.,

**OUTCOMES**

1. Students will be able to explore higher levels of college knowledge ,efficacy and academic relevance
2. Provide opportunities to the students in upgrading their skills .
3. Help to interact with their peers and build strong bonds.

**BRIEF REPORT**

One day study visit was organised by the department of Chemistry On 29<sup>th</sup> of April 2023 students MPC&BZC along with the staff to Parvathaneni Brahmayya Siddhartha college of Arts & Science, Vijayawada. Students could experience an excellent academic rigor at the college and to know various advanced facilities available there.

By using latest equipment like HPLC students were able to understand the analysis of drugs used in daily which was explained by the lab technician over there. The biggest library and the Medicinal garden are some more important areas experienced by them.



2021-22

**1. FIELD VISIT TO PRISM JOHNSON TILES PVT. LTD., UNGUTURU**

**OBJECTIVE OF THE VISIT**

1. To study the manufacturing of different types of tiles from their raw material
2. To make students understand the concept of production, design and architecture of different tiles

**OUTCOMES**

1. Students will be able to observe and absorb the concepts of large scale industries
2. They will be able to get knowledge on the raw materials, casting, pressing, curing etc., in the manufacturing of tiles.

**BRIEF REPORT**

On 22.02.2022 students along with the staff visited one of the largest producer of world class tiles Prism Johnson Tiles Pvt Ltd. which is at unguturu. The students could visualise different types of tiles and studied their manufacturing process. Ceramic tiles are of two types glazed and unglazed. They are made from clay mixed with sand feldspar. Then heated, the glazed which creates colour on the tiles is added after firing. They are used for kitchen and bathrooms. Basically the manufacturing of tiles comprises of the following steps.

1. Clay preparation
2. moulding of tile by pressing
3. Glaze preparation
4. Drying, glazing and decoration
5. Kiln firing
6. Classification and packing

**SAS GOVERNMENT DEGREE COLLEGE, NARAYANAPURAM, WEST GODAVARI  
DISTRICT**

Department of Chemistry



**2020-21**

**FIELD VISIT CUM TRAINING PROGRAM**

**OBJECTIVES**

1. To develop Entrepreneurship through low cost processing of fruits and vegetables
2. To experience practically and observe preparation of different products like squash, ketchup, jam
3. To learn how to develop a small scale business and grow into a big industry

**OUTCOMES**

1. Students will be able to understand the concept of Entrepreneurship
2. They could practically understand functioning of machinery
3. They will be able to gain an insight of different preparations of edible products like jam, ketchup etc.,

**Brief Report**

A 3 day Field visit cum Training program was conducted by the Department of Chemistry in collaboration with Horti Business Incubation Centre (HBIC) Dr.Y.S.R. Horticulture University, Venkataramannagudem, West Godavari Dt. A.P from 21.01.2021 to 23.01.2021

The training program is conducted named as 'Entrepreneurship development through low- cost processing of Fruits and vegetables'.

Day 1: Started with an Inaugural function and different techniques of Food preservation & preparation of Squash was explained by Dr.V.Sudha Vani

Day 2: Started with explaining preparation and preservation of tomato ketch up by Dr. D.Venkata swami, Librarian in the Forenoon session.

In the Afternoon explained about low cost machinery and schemes promoting Entrepreneurship in food processing sector

Day 3: Practicals on preparation and preservation of mixed Fruit jam, packing and labelling, Digital marketing by Dr.V.Sujatha.

Program completed by valedictory session



2019-20

INDUSTRIAL VISIT TO ANDHRA SUGARS LTD. SUGAR UNIT -III, SURAPPAGUDEM  
BHIMADOLE

**OBJECTIVE OF THE VISIT:**

1. To provide an experiential learning to the students.
2. To understand the manufacturing process of sugar and its technology.
3. To experience the actual operations which are being taught in the classroom

**OUTCOMES;**

1. Students will be able to understand the equipment, process of production of sugar on large scale
2. They can have a practical exposure to the industrial set up
3. Students observed the construction and working of different components

**BRIEF REPORT**

On 1<sup>st</sup> day of February 2020 our students along with the staff visited Andhra Sugars Ltd. Sugar Unit – III ,Surappagudem, Bhimadole as a part of Experiential learning.

In this visit to Sugar factory students experienced the relation between theoretical and practical knowledge and observed the operation of chemical plant and processes like cutting, shredding, screening, centrifuging etc., some operations like evaporation, crystallisation etc., which was explained by the manager and technical staff over there.

The factory was established on 11<sup>th</sup> August, 1947 and been generating tons of sugar over the years along with other products.

**SAS GOVERNMENT DEGREE COLLEGE, NARAYANAPURAM, WEST GODAVARI  
DISTRICT**

**Department of Chemistry  
2018-19**

**VISIT TO POLAVARAM PROJECT**

**OBJECTIVES**



1. To make the students familiar with the construction of the project.
2. To get practical knowledge of power generation through Hydro energy resources.
3. To experience huge constructions like Reservoir, Dam, Spill way, Cofferdam, Catchment area etc.,

**OUTCOMES**

1. Students will be able to understand huge constructions and the materials used for such projects.
2. Learn how electrical power can be generated from water resources.
3. Understand how the floods can be controlled using this reservoir.

**BRIEF REPORT**

On 13<sup>th</sup> December 2018 our students along with the staff visited Polavaram project and studied Irrigation, Hydro power generation, Flood control, Drinking water supply and Employment and economic growth.

We observed this National River – Linking Project which works under aegis of Indian ministry of water resources which was designed to overcome the deficit of water in the state.

Students could experience some important components like Head works, dam, Spill channel, etc., with the help of view point students enjoyed the huge construction of project.