

Reports on Enrichment trip of the 6th semester student 2023 Department of Chemistry KNGC Jowai to Mawphlang Treatment plant

Date: 2nd May 2023

Location: Mawphlang Treatment plant

Participants: 6th semester students 2023

Purpose: Enrichment trip to explore the Mawphlang Treatment Plant for drinking water.

Summary

This report details the enrichment trip conducted by students of 6th semester Chemistry Department Kiang Nangbah Government College, Jowai to the Mawphlang reservoir Treatment Plant for Drinking Water in Meghalaya, India. The aim was to provide students with an immersive learning experience about the processes involved in delivering clean and safe drinking water to Shillong cities.

Introduction

Access to safe drinking water is a basic human right, vital for public health and well-being. The enrichment trip to the Mawphlang Treatment Plant in Meghalaya was organized to give students practical exposure to the methods and technologies employed in ensuring the availability of potable water to local populations.

Objectives

The primary objectives of the enrichment trip were as follows:

Understanding Water treatment: To comprehensively understand the various stages and technologies involved in water treatment for drinking purposes.

Exploring Sustainability Measures: To observe and learn about innovative and sustainable methods used by the treatment plant for water purification and distribution.

Challenges and solutions: To gain insights into the challenges related to water quality and availability in the region, and to understand the plant's solution.

Interaction with Experts: To engage in discussion and interactions with professional and experts working in the field of water treatment.

Trip Highlights

1. Introduction to Mawphlang Treatment plant

Upon arrival at the Mawphlang Treatment Plant, students were warmly welcomed by the plant's staffs. The demonstrator provided an insightful overview of the facility, its



history, and its mission. The students were given a sense of the plant's significance in ensuring clean water access to the region especially the Shillong city.

2. Water Treatment Process.

The core of the trip involved a guided tour through the various stages of water treatment:

Intake and Screening: Students observed the initial collection of raw water from natural sources and the preliminary screening process to remove large debris and contaminants.

Coagulation and Flocculation: The tour included an explanation of chemical treatments employed to remove impurities and particles from the water, making it suitable for further processing.

Filtration: The use of sand and other materials in filtration beds to remove remaining contaminants was demonstrated, emphasizing the importance of this step in the purification process.

Disinfection: Students were shown how disinfectants are carefully applied to the treated water to eliminate harmful microorganisms, ensuring its safety for consumption.

Distribution: The trip concluded with a visit to the distribution system, where students observed how treated water is transported to homes and communities.

3. Interaction with the experts:

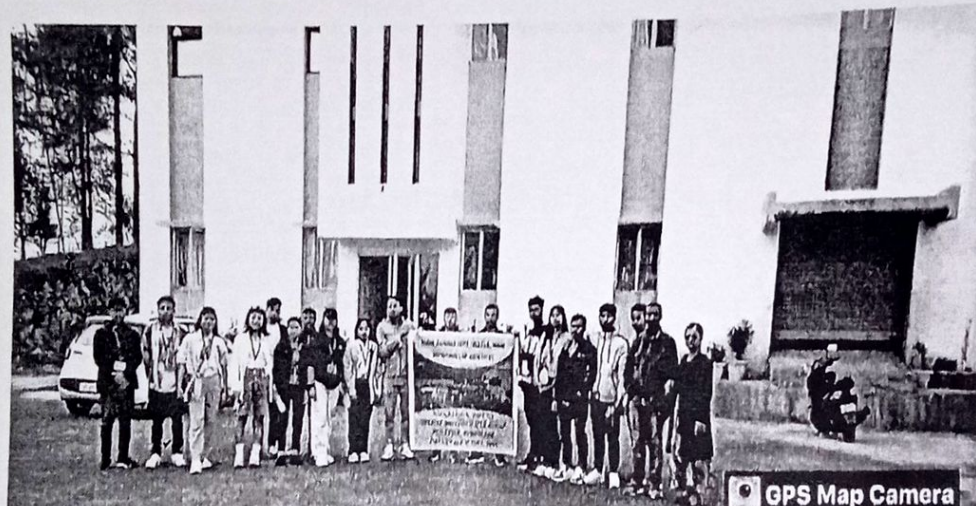
The enrichment trip provided an opportunity for students to engage in discussions with experts and professionals in the field of water treatment. These interactions expanded their horizons, offering insights into potential career paths in water resource management, environmental engineering, and related fields.

Conclusion:

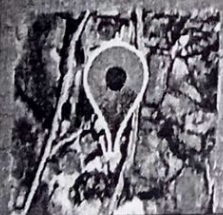
The enrichment trip to the Mawphlang Treatment Plant for Drinking Water was an enriching educational experience. It not only expanded students' knowledge but also deepened their commitment to the critical cause of providing clean and safe drinking water as a fundamental human right. We extend our heartfelt thanks to the Chief Engineer of the PHE departments staffs of the Mawphlang Treatment Plant for the permission and their hospitality and willingness to share their expertise.

This experience has not only broadened our understanding but has also instilled in the students a sense of responsibility to contribute to the preservation of this invaluable resource. We hope they apply the knowledge gained during this trip to their academic endeavors and future careers in environmental science, engineering, and related fields.





GPS Map Camera



Synrang Kaban, Meghalaya, India
Greater Shillong Water Supply, East Khasi Hills,
Mawngap-Mawphlang Rd, Synrang Kaban, Meghalaya 793121, India
Lat 25.473263°
Long 91.769397°

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K.N.Govt. College



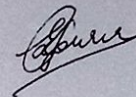
SL NO	ROLL NO	NAME OF STUDENT	SIGNATURE
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7	S2002338	WONLY RYMBAI	<i>Rymbai</i>
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10	S2002342	SDANGKHHI SHYRMANG	<i>S. Shyrmang</i>
11	S2002343	LEWAKI BAMON	<i>L. Bamon</i>
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23	S2002356	PLEASANT PHALANGKI	<i>[Signature]</i>
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25	S2002359	NGATTMI SARI	
27	S2002361	AKMENLANG POISHNA	
28	S2002362	CHIWAN PDE	A.P. Pishna
29	S2002363	SANJINA BANG	S. Bang
30	S2002364	KYRKHUMIJA I SHADAP	
31	S2002365	CRITIC L PYRTUH	
32	S2002366	VINCENT LAMARE	

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