A field visit to **Maredumilli forest** could have various objectives, outcomes, and reporting requirements depending on the purpose and scope of the visit. Here's a general outline:

1. **Objectives:**
   - **Biodiversity Assessment**: Evaluate the biodiversity of the Maredumilli forest, including flora, fauna, and microorganisms.
   - **Ecological Study**: Understand the ecological processes at play within the forest ecosystem, such as nutrient cycling, water dynamics, and ecological succession.
   - **Conservation Assessment**: Assess the conservation status of different species and habitats within the forest, identifying any threats and conservation needs.
   - **Community Interaction**: Engage with local communities to understand their relationship with the forest, assess any conflicts or synergies, and explore opportunities for sustainable development.
   - **Educational Purposes**: Provide learning opportunities for students, researchers, or enthusiasts interested in ecology, conservation, or forestry.
   - **Policy Implications**: Gather data and insights to inform policy decisions related to forest management, conservation, and sustainable development.

2. **Outcomes:**
   - **Data Collection**: Gather data on species diversity, population densities, habitat characteristics, etc., through field surveys, interviews, and observations.
   - **Analysis and Interpretation**: Analyze the collected data to draw conclusions about the biodiversity, ecology, and conservation status of the Maredumilli forest.
   - **Community Engagement**: Build rapport with local communities, understand their perspectives and needs, and foster collaboration for sustainable forest management.
   - **Capacity Building**: Enhance the knowledge and skills of participants through hands-on experience, workshops, and training sessions.
   - **Awareness Generation**: Raise awareness about the importance of forest conservation and sustainable use among stakeholders, including policymakers, local communities, and the general public.

3. **Report**:
    - **Introduction**: Provide background information about the Maredumilli forest, its location, ecological significance, and any previous studies conducted.
    - **Objectives**: Clearly state the objectives of the field visit and the rationale behind them.
    - **Methodology**: Describe the methods used for data collection, including field surveys, interviews, sampling techniques, etc.
    - **Findings**: Present the findings of the field visit, including biodiversity assessments, ecological observations, conservation status of key species, community perspectives, etc.
    - **Discussion**: Interpret the findings in the context of existing knowledge, discuss any implications for forest management and conservation, and identify areas for further research or action.
    - **Recommendations**: Provide recommendations for conservation measures, community engagement strategies, policy interventions, or further research based on the findings.
    - **Conclusion**: Summarize the key findings and implications of the field visit.
    - **Appendices**: Include any supplementary information, such as raw data, maps, photographs, or detailed methodologies.
    - **References**: Cite any sources or literature referenced in the report.

This outline can be adapted and expanded based on the specific requirements and objectives of the field visit to Maredumilli forest.

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Department of Physics

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 29th 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.

SAS GOVERNMENT DEGREE COLLEGE, NARAYANAPURAM, WEST GODAVARI DISTRICT

Department of Physics

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.

SAS GOVERNMENT DEGREE COLLEGE, NARAYANAPURAM, WEST GODAVARI DISTRICT

Department of Physics

2022-23

I.M SIT 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 31st 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 25th 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 into objects. It is useful for thermal insulation, to protect products like TVs, computers, glass products etc.,

SRI ARAVINDA SATHA JAYANTHI GOVT. DEGREE COLLEGE * Narayanapuram

SAS GOVERNMENT DEGREE COLLEGE, NARAYANAPURAM, WEST GODAVARI DISTRICT

Department of Physics

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 Physics

2021-22

I.VI SIT TO ARNAV POLYMERS, UNGUTURU ON 21.09.2022

OBJECTIVES OF THE VISIT

1. To study the manufacturing of thermocol from its raw material on large scale
2. To gain a learning exp9riences 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 21.09. 2022 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 isprepared by using polystyrene using different techniques likepolymerisation.

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

A field visit to **Balayogi Science Park in Eluru** likely aims to achieve several objectives, such as:

1. **Education and Awareness**: Providing participants with hands-on learning experiences to increase their understanding of various scientific concepts and phenomena.
2. **Promotion of Scientific Temper**: Encouraging curiosity, critical thinking, and a scientific approach to problem-solving among visitors, especially students.
3. **Exposure to Innovations**: Introducing visitors to the latest advancements in science and technology through interactive exhibits, demonstrations, and workshops.
4. **Environmental Awareness**: Highlighting the importance of environmental conservation and sustainable practices through exhibits and activities related to ecology, renewable energy, and conservation.
5. **Promotion of STEM Education**: Inspiring interest in Science, Technology, Engineering, and Mathematics (STEM) fields among students by showcasing their real-world applications and career opportunities.
6. **Community Engagement**: Providing a platform for the local community to engage with science and technology in a fun and interactive manner, fostering a culture of scientific curiosity and innovation.

The outcomes of the field visit could include:

1. **Increased Knowledge**: Participants gain a deeper understanding of various scientific concepts and principles through hands-on experiences and interactions with exhibits.
2. **Enhanced Skills**: Visitors develop critical thinking, problem-solving, and teamwork skills as they engage with the interactive exhibits and participate in workshops and demonstrations.
3. **Inspiration and Motivation**: The visit may inspire students to pursue careers in STEM fields by exposing them to real-world applications and success stories in these areas.
4. **Environmental Awareness**: Participants gain a greater appreciation for the environment and are motivated to adopt more sustainable practices in their daily lives.
5. **Community Engagement**: The visit strengthens ties between the science park and the local community, fostering ongoing interest and participation in science-related activities and events.

As for the report, it should include details such as the objectives of the visit, activities undertaken, observations made, feedback from participants, and recommendations for future visits or improvements to the science park. It may also include photos, videos, or other multimedia elements to document the experience.

Department of Physics

A field visit to a **social forest ,Unguturu** can serve multiple objectives including:

1. **Assessment of Environmental Impact**: Such visits help in understanding the impact of the social forest initiative on the local environment, including biodiversity, soil health, and water resources.
2. **Community Engagement and Participation**: Field visits provide an opportunity to interact with local communities involved in the management and utilization of the social forest. This engagement can help in assessing the level of community participation, understanding their needs, and addressing any challenges they may face.
3. **Economic and Social Benefits**: Evaluating the socioeconomic benefits derived from the social forest, such as employment generation, income enhancement for local communities through sustainable forest products, and improved livelihoods.
4. **Biodiversity Conservation**: Assessing the effectiveness of the social forest in conserving biodiversity, including native flora and fauna species, and promoting habitat restoration and conservation practices.
5. **Education and Awareness**: Field visits offer a platform for educating stakeholders, including policymakers, researchers, and the general public, about the importance of social forestry, sustainable land management practices, and the role of forests in mitigating climate change.

Outcomes of the field visit may include:

1. **Data Collection and Analysis**: Gathering field data on various aspects of the social forest, such as vegetation cover, species diversity, soil characteristics, and socioeconomic indicators.
2. **Stakeholder Feedback and Recommendations**: Obtaining feedback from local communities, forest officials, NGOs, and other stakeholders on the strengths, weaknesses, opportunities, and threats related to the social forest initiative. Based on this feedback, recommendations can be formulated to enhance the effectiveness and sustainability of the initiative.

3. **Documentation and Reporting**: Compiling the findings of the field visit into a comprehensive report that highlights key observations, achievements, challenges, and recommendations. This report can serve as a valuable resource for decision-makers, researchers, and practitioners working in the field of social forestry and sustainable development.

Overall, the field visit to the social forest in Unguturu aims to assess its impact, engage with stakeholders, promote sustainable practices, and contribute to the conservation and well-being of both the local community and the environment.

SAS GOVERNMENT DEGREE COLLEGE, NARAYANAPURAM, WEST GODAVARI DISTRICT

Department of Physics

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 1st 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, crystallisationetc., which was explained by the manager and technical staff over there.

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

Field Visit- Objectives and Outcomes Report:

Solar Plant at Gollagudem

1. Objectives

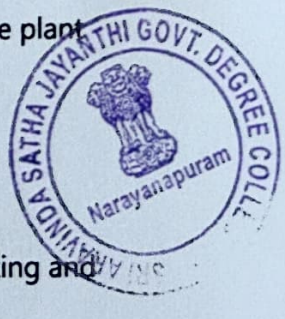
- Clearly defined objectives for the field visit, such as:
  - Assessing the operational efficiency and performance of the solar plant.
  - Evaluating the adherence to safety standards and environmental regulations.
  - Reviewing the maintenance practices and infrastructure integrity.
  - Examining the impact on local communities and stakeholders.
  - Identifying opportunities for improvement and optimization.

2. Field Visit Activities

- Chronological account of activities undertaken during the visit, including:
  - Inspection of solar panels, inverters, and other key components.
  - Assessment of energy production levels and system performance.
  - Examination of safety protocols and emergency preparedness.
  - Interviews with plant operators, maintenance staff, and management.
  - Interaction with local residents to understand community perceptions and concerns.

3. Outcomes and Recommendations

- Discussion of outcomes derived from the field visit and their implications, including:
  - Insights into the overall performance and sustainability of the solar plant.
  - Recommendations for enhancing operational efficiency and reliability.
  - Suggestions for improving safety measures and environmental stewardship.
  - Proposals for community engagement initiatives and social responsibility programs.
  - Actions to address any identified gaps or issues to optimize plant performance.



4. Report

- Summarization of the key findings and recommendations.
- Emphasis on the value of the field visit in informing decision-making and driving continuous improvement at the Gollagudem solar plant.

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Department of Physics

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, Coffer dam, 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 13th 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.