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INDUSTRIAL VISIT REPORT

BBA 3rd SEM
Section A

On 26th August
2025

Date of Visit: 26th of August 2025

Place of Visit: Sewage Treatment Plant, Bhandewadi, Nagpur

Faculty Incharge: Dr.Sampada Wasade

Supporting Faculty Members: Prof.Akhilesh Ingle, Prof.Namrata Gupta

Objective and Purpose of Visit:

The industrial visit to the Sewage Treatment Plant (STP) in Bhandewadi, Nagpur, was organized with the primary goal of providing students with practical insights that go beyond classroom learning. As the first on-site experience, it was a unique opportunity to observe how theoretical concepts are applied in real-life operations..

The visit's main objectives were to encourage experiential learning and to raise awareness about modern waste management practices. The aim was to see how a large-scale wastewater treatment facility operates and to understand its critical role in protecting public health and conserving water resources. By observing the plant's processes and hearing from its employees, we gained a better appreciation for its contribution to building a more sustainable future.



Brief Overview of the Company:

Vishwaraj Infrastructure is an Indian company that specializes in infrastructure projects, with a strong focus on a Public-Private Partnership (PPP) model. The company, led by Chairman Arun Lakhani, works in three main areas: roads and highways, water supply, and wastewater

management.

They are known for being a pioneer in the industry, having created India's first successful 24/7 full-city water supply project in Nagpur. They also emphasize that wastewater, when properly treated, is a valuable resource that can be reused by industries.

The Bhandewadi Sewage Treatment Plant (STP) in Nagpur is a crucial facility for advanced wastewater treatment. It operates through a unique Public-Private Partnership (PPP) model involving several key players. The Nagpur Municipal Corporation (NMC) provides raw sewage, while the Maharashtra State Power Generation Company (MAHAGENCO) is the main customer, using the treated water for cooling at its thermal power plants.

This project is a prime example of sustainable water management. The plant, originally designed to handle 130 million liters per day (MLD), is being expanded to 200 MLD to meet increasing industrial demand. It supplies a significant amount of treated water daily to the Koradi and Khaperkheda Power Plants, which reduces their need for fresh water. As one of Central India's largest STPs, the Bhandewadi plant plays a vital role in reducing river pollution and conserving water for the city's growth.



Our industrial visit began with an insightful session by **Mr. Das**, Head of the STP. He encouraged us to learn with curiosity, ask as many questions as possible, and leave with maximum clarity. He also motivated us by stressing the importance of education, sharing his personal anecdotes that inspired us to focus on continuous learning.

Following this, we were addressed by **Ms. Qureshi**, who introduced us to the **Vishwaraj Foundation** and its various CSR (Corporate Social Responsibility) initiatives. She highlighted the real meaning of CSR—rather than creating dependency, CSR should empower citizens and enable sustainable communities.

The Vishwaraj Foundation, promoted by **Mr. Arun Lakhani**, has multiple initiatives focusing on **empowering citizens, skilling the youth, promoting healthy communities, and sustainable environments**. In his own words, *“Let’s make an impact.”* Mr. Lakhani emphasized that projects which truly succeed are not only technical but also social in nature. His philosophy rests on **social-technical projects** where the first step is always involvement of the local community.

LEARNING OUTCOME:



The industrial visit to the Bhandewadi Sewage Treatment Plant offers invaluable lessons for the students, demonstrating how the principles of business and management are applied. The key takeaways are as follow

- **Process Management and Optimization:** Students learn about how the use of innovative technology like Sequential Batch Reactors (SBR) can improve efficiency, reduce operational costs, and increase output quality.
- **Asset and Maintenance Management:** The visit provides a real-world look at the management of complex and expensive infrastructure. Understanding the maintenance schedules for machinery, the importance of operational safety protocols, and the need for regular quality testing demonstrates the critical role of maintenance in ensuring a business's long-term sustainability and reliability.

- **Public-Private Partnership (PPP):** The project is a classic example of a successful PPP. The students can analyse this model to understand how public and private entities can collaborate to tackle large-scale infrastructure projects.
- **Corporate Social Responsibility (CSR):**



○ The Bhandewadi STP's existence and purpose are inherently tied to CSR. The project directly addresses two major societal issues: environmental pollution from untreated sewage and water scarcity. By fulfilling this vital public service, the partner organizations demonstrate a strong commitment, building

goodwill and a positive public image.

- Practical Insight into CSR, we understood the true spirit of Corporate Social Responsibility—not just providing aid, but empowering people to become self-reliant and responsible citizens.
- **Environmental Management:**



The visit also teaches students that businesses can lead on environmental issues by adopting sustainable practices that not only protect the planet but also offer a competitive advantage, whether through cost savings, new revenue streams, or enhanced brand reputation.

CONCLUSION

This industrial visit was more than just a technical tour; it was a powerful lesson in purpose-driven management and the symbiotic relationship between business and society. We left with a deeper understanding of how an organization can fulfil its operational and commercial goals while actively contributing to community empowerment and sustainable development. Ultimately, the visit showed us that environmental engineering and corporate responsibility are not separate concepts but are deeply intertwined. The plant's efficient processes and its role in solving the dual challenges of water scarcity and pollution are a testament to this. The Vishwaraj Foundation's initiatives, which transform communities by

creating empowered citizens rather than dependents, taught us that where there's a will to make a positive impact, there is always a way, even in the face of significant challenges.

