

St. John College of Engineering and Management

Autonomous Institute

(A Christian Religious Minority Institution)

Approved by AICTE and DTE, Affiliated to University of Mumbai / MSBTE

DTE Code : 3218 AICTE Permanent ID : 1-4790201



NAAC Accredited with Grade 'A+', Three Programs NBA Accredited

Academic Year: 2025-26

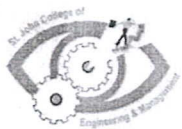
Industrial / Site Visit Report (Academic Year 2025-26)

Sr. No.	Activity Type Industrial / Site Visit	Date of Visit	Place of Visit	Department	No. of Participants
01	Industrial Site Visit to Navakar RMC Plant	13/04/2026	Vevoor-Manor Road, Palghar.	Civil Engg.	25
02	Industrial Site Visit to Water Treatment Plant	12/03/2026	Devkhop, Tal & Dist: Palghar.	Civil Engg.	30
03	Industrial Site Visit to Govardhan Eco-Village	03/10/2025	At: Galtare, Post:Hamrapur, Tal:Wada, Palghar.	Civil Engg.	30
04	Industrial Site Visit to 'Jamna Niwas' Construction site.	10/09/2025	Jamna Niwas, Opp. Patpedi Bhavan, Walan naka, Mahim Road, Palghar.	Civil Engg.	13
05	Industrial Site Visit to Navakar RMC Plant	10/09/2025	Vevoor-Manor Road, Palghar.	Civil Engg.	28
06	Industrial Site Visit to 'Jamna Niwas' Construction site.	10/09/2025	Jamna Niwas, Opp. Patpedi Bhavan, Walan naka, Mahim Road, Palghar.	Civil Engg.	28
07	Industrial Site Visit to 'Jamna Niwas' Construction site.	10/09/2025	Jamna Niwas, Opp. Patpedi Bhavan, Walan naka, Mahim Road, Palghar.	Civil Engg.	13

Coordinator sign



HOD/Civil



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INDUSTRIAL VISIT REPORT

Details of Activity:

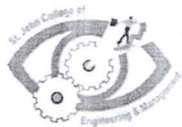
Name of the Activity	Industrial Site Visit to Navkar RMC Plant		
Date & Time	13/04/2026, 3:00 PM to 4:00 PM	Department / Committee	Civil Engineering
Venue	Vevoor-Mnaor Road, Palghar	No. of Participants	25
Nature of Activity	Industrial Visit / Field Training	Mode of Activity	Offline (On-Site)
Name of Activity In-charge	Mr. Swapnil Malipatil	Name of Activity Coordinator	Mr. Swapnil Malipatil
Name and Affiliation of Resource person	Mr. Patel, Site Engineer, Navkar RMC Plant		

Activity Information:

Objectives	1. To understand the complete manufacturing process of ready-mix concrete, including material selection, batching, mixing, quality control procedures, and delivery mechanisms. 2. To study the functioning and calibration of batching plant equipment, such as weigh batchers, conveyors, mixers, storage silos, and control systems. 3. To observe real-time quality control and testing practices, including slump test, cube casting, proportioning accuracy, and methods used to maintain consistency in concrete quality. 4. To gain exposure to safety protocols and operational workflows, ensuring understanding of onsite safety measures, plant layout, logistics, and environmental management in an industrial concrete production setup.
Target Audience	Second Year (S.E. IV Sem) Civil Engineering Students

Methodology

1. Pre-Visit Briefing: A session was conducted to discuss the project drawings and learning objectives.
2. Site Tour: The site engineer guided students through different sections of the ongoing construction (foundation, shuttering, reinforcement work, brick masonry).
3. Interactive Session: A dedicated Q&A session was held where students interacted with the site engineer regarding estimation, valuation, and contract management challenges.
4. Post-Visit Debriefing: Students discussed their observations and compiled a report linking theoretical knowledge with practical exposure.



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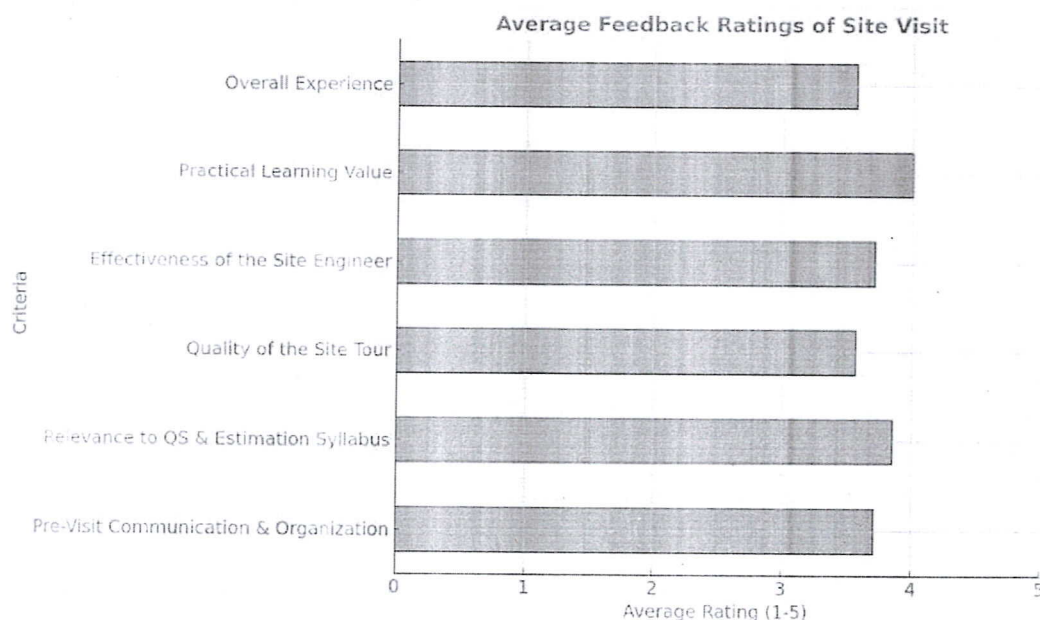
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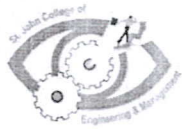
Outcomes	1. Students gained first-hand experience in measurement and quantification of excavation, PCC, formwork, reinforcement, and brickwork. 2. Students understood the importance of detailed specifications in the tender document for ensuring quality of work. 3. The visit clarified concepts of lead, lift, and wastage factors considered in rate analysis. 4. The interaction helped students understand the practical nuances of contract clauses and site management.
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SWOT Analysis of the Event:

Strength	Weakness	Opportunity	Threats
• Live example of an RCC framed structure. • Expert guidance from an experienced engineer	• Limited time to cover all aspects of the project. • Some areas were inaccessible due to active construction.	• Potential for future industry-academia collaboration for student projects • Enhanced practical understanding for upcoming exams and placements.	• Inclement weather could have disrupted the outdoor site tour.

Feedback Analysis: *Feedback in graphical form*





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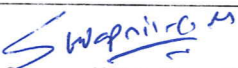
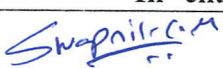


Geo-Tagged Photo



Proofs & Documents Attached (Tick mark the proofs attached) :

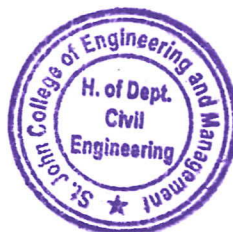
☒	Notice / Brochure	☒	Feedback Analysis
☒	Attendance list		Newsletter data for Spectrum
☒	Photos	☒	Media News Details
	Certificate	☒	CO-PO Mapping
☒	Feedback Form		Any Other

Prepared By	Checked By
Name & Dated Signature of Coordinator	Name & Dated Signature of Committee In- charge
 Mr. Swapnil Malipatil	 Mr. Swapnil Malipatil

Date of Activity: 13/04/2026

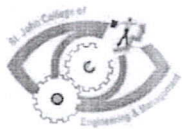
Date of Report Submission: 13/04/2026

Date:




Approved By

HOD Signature



INDUSTRY VISIT REPORT

1. Details of Industry Visit:

Department	SE Civil (B. Tech)		
Name of Industry visited	Water treatment Plant		
Address of Industry visited	Devkhop, Tal. Palghat, Dist. Palghar, Maharashtra, 401404		
Industry type	Water treatment Plant		
Date of visit	12/03/2026	Name of Faculty Member/s	Mr. Dr. B.J. Godbole
Class / Year / Branch	SE Civil (A)	No. of Students	30

2. Objectives of the Visit:

- To understand the processes involved in water purification and distribution.
- To study sedimentation, filtration, and disinfection methods.
- To gain knowledge about chemical dosing, chlorination, and advanced treatment techniques.
- To observe the functioning of pumps, pipelines, and storage reservoirs.
- To learn about the importance of water quality monitoring and laboratory testing.
- To explore the role of water treatment in public health and sustainable urban development.

3. Highlights of the Visit:

I. Introduction to the Company:

The Municipal Water Treatment Plant is a key facility ensuring safe drinking water supply to the city. It integrates conventional treatment processes like coagulation, flocculation, sedimentation, filtration, and chlorination with modern monitoring systems. The plant emphasizes sustainability by minimizing chemical usage and optimizing energy consumption.

II. Key Sessions:

During our visit, Students attended an interactive session led by the plant engineer, who explained the step-by-step process of water treatment. Topics included raw water intake, chemical dosing, sedimentation tank operation, sand and activated carbon filtration, and final



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disinfection. The session also highlighted the importance of maintaining water quality standards as per WHO and BIS guidelines

III. Site Tour/Practical Demonstration:

During the site tour, students observed:

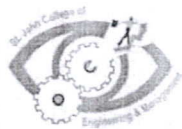
- **Sedimentation tanks** where suspended particles settle.
- **Filtration units** using sand and gravel beds.
- **Chlorination chambers** for disinfection.
- **Control room** with SCADA systems for monitoring flow and quality.
- **Laboratory facilities** for testing turbidity, pH, hardness, and microbial contamination.

IV. Interaction with Industry Professionals:

In the Q&A session, engineers emphasized the challenges of urban water supply, including rising demand, pollution of raw water sources, and the need for sustainable practices. They discussed innovations like membrane filtration, UV disinfection, and automation in water treatment.

4. Learning Outcomes

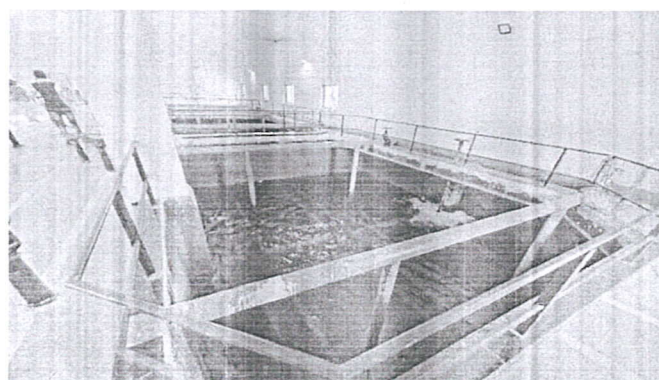
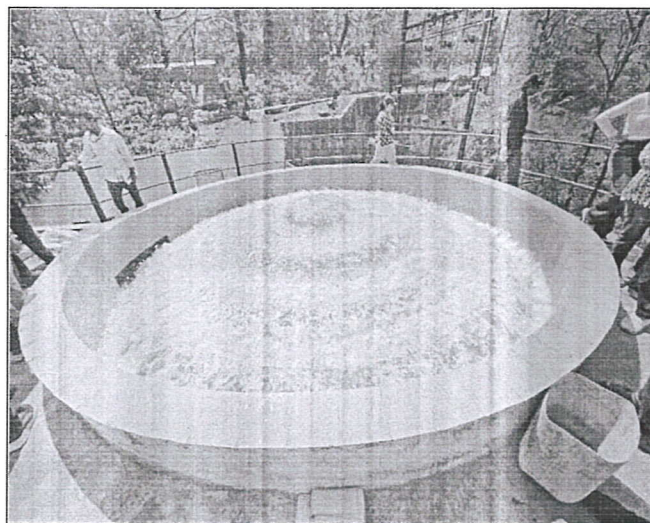
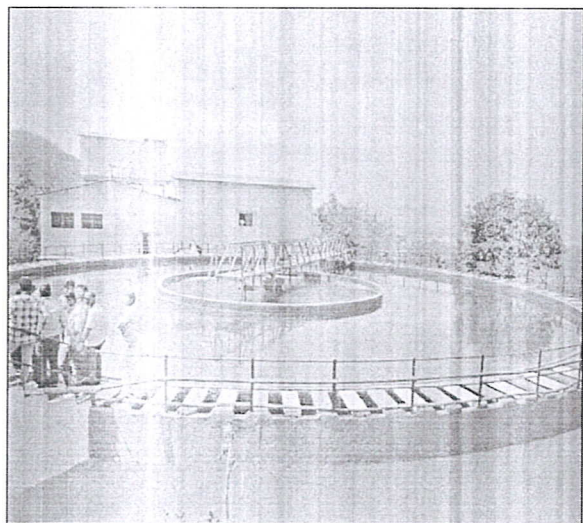
- Understood the complete cycle of water treatment from intake to distribution.
- Observed practical applications of sedimentation, filtration, and disinfection.
- Learned about the importance of water quality monitoring and laboratory analysis.
- Connected classroom knowledge of environmental engineering with real-world practices.
- Appreciated the role of water treatment in safeguarding public health and supporting sustainable development.

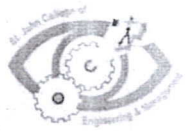


5. Academic Outcome:

The visit enhanced students' understanding of environmental engineering concepts and their practical applications. It inspired interest in careers related to water resource management, environmental sustainability, and public health engineering. Opportunities for internships, workshops, and collaborative projects with municipal authorities were discussed. The experience encouraged students to pursue innovative solutions for water conservation and treatment.

6. Photo Gallery





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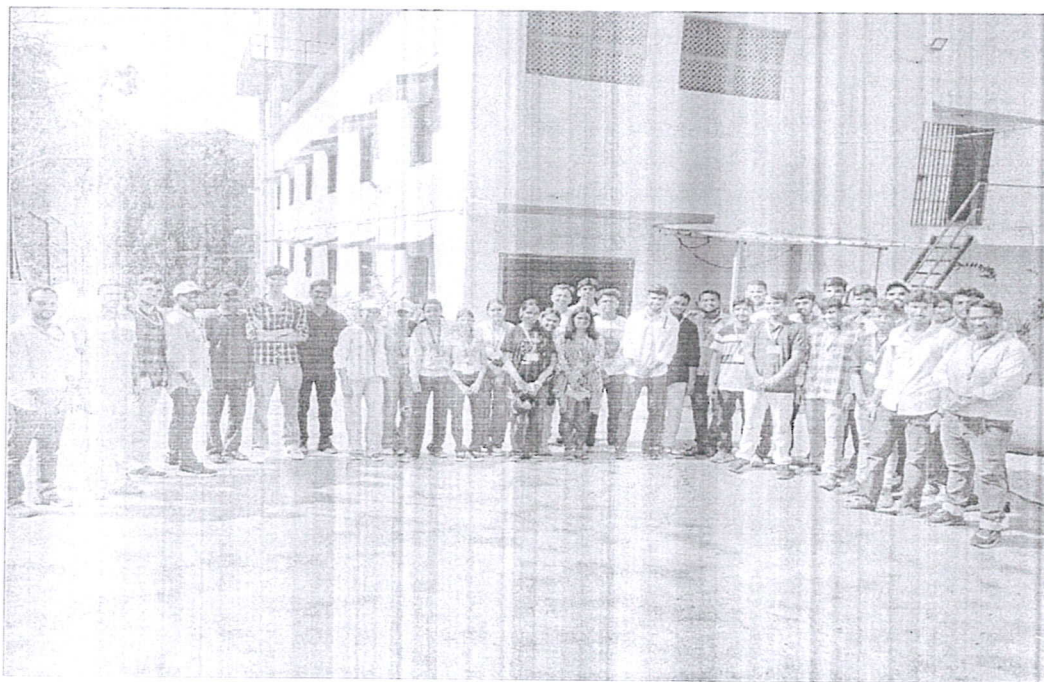
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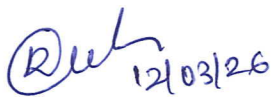
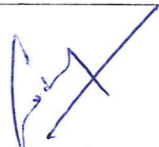
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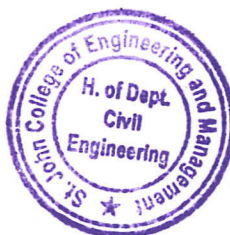
☐	Permission Letter to Institute	☐	Permission Letter to Industry
☐	Student attendance sheet	☐	Uundertaking by students with emergency contact details
☐	Consent letter from parents (for visit outside Palghar)	☐	Thanks Letter to the industry

Prepared By	Checked By
Name & Dated Signature of Coordinator	Name & Dated Signature of HOD
 12/03/26	

Date of Visit: 12/3/2026

Date of Report Submission:

Reason for delay if any:



Date: 12/03/26

Approved By
Principal



INDUSTRY VISIT REPORT

1. Details of Industry Visit:

Department	SE Civil (B. Tech)		
Name of Industry visited	Govardhan Eco-Village		
Address of Industry visited	At Galtare, Post Hamrapur, Tal. Wada, Dist. Palghar, Maharashtra, 421303		
Industry type	Eco-tourism & Sustainable Development Industry		
Date of visit	03/10/2025	Name of Faculty Member/s	Mr. Swapnil Malipatil
Class / Year / Branch	SE Civil (A)	No. of Students	30

2. Objectives of the Visit:

- To understand the concept of **eco-tourism** and its role in sustainable development.
- To study the use of **eco-friendly construction practices** and green building technologies.
- To gain knowledge about **organic farming techniques** and water conservation methods.
- To observe how **waste management, biogas, and renewable energy** systems are implemented.
- To learn about the integration of **spiritual values with modern sustainability practices**.
- To explore the role of such initiatives in **rural development and community upliftment**.
- To get exposure to the **hospitality and wellness industry** from a sustainable perspective.

3. Highlights of the Visit:

I. Introduction to the Company:

Govardhan Ecovillage (GEV), set up in 2003 by ISKCON in Palghar district, is a unique model of eco-tourism and sustainable living. Spread over 100+ acres, it combines organic farming, cow protection, water and waste management, renewable energy, and eco-friendly construction with spiritual and cultural values. The main attractions include heritage tours depicting the life of Lord Krishna through statues and monuments, wellness programs in yoga and Ayurveda, and training on sustainability. GEV has earned global recognition, including the **UNWTO Award for Sustainable Tourism (2017)**, and is considered a leading example of how traditional wisdom and modern practices can work together.



II. Key Sessions:

During our visit, we had an interactive session conducted by **Mr. Janardhan Liladhar**, who also served as our tour guide. He introduced us to the vision and mission of Govardhan Ecovillage and explained its journey from inception to becoming a globally recognized model of sustainability. Through his presentation and narration, we learned about eco-friendly construction methods, organic farming practices, water and waste management systems, and the role of spirituality in sustainable living. He also guided us through the Krishna heritage monuments, where he narrated the stories of Lord Krishna depicted through statues and landscapes. His session helped us connect the concepts of sustainability with practical applications and gave us a deeper appreciation of how traditional wisdom is integrated with modern techniques at GEV.

III. Site Tour/Practical Demonstration:

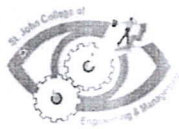
During the site tour at Govardhan Ecovillage, we observed several practical workflows and sustainable technologies. We saw how Krishna heritage monuments are created to depict stories through statues and landscapes. The tour included eco-friendly construction using earth blocks, natural cooling systems, and solar utilities. We also observed organic farming techniques, water conservation methods, waste management through composting, and the operation of a goshala with biogas production from cow dung. The visit provided hands-on insight into how sustainable practices and spiritual values are integrated into daily community life.

IV. Interaction with Industry Professionals:

In the discussion and Q&A session, **Mr. Janardhan Liladhar** shared insights on sustainable living, eco-tourism, and the integration of spiritual values with modern technology. Key takeaways included the importance of **resource conservation, organic farming, renewable energy, and community engagement** in sustainable projects. He also emphasized that combining tradition with innovation can create effective models for environmental and social development.

4. Learning Outcomes

- Observed **organic farming practices** and water/waste management systems.
- Learned how **renewable energy** and biogas systems are implemented in a community.
- Understood the integration of **spiritual and cultural values** with modern sustainability practices.
- Saw a real-world example of **eco-tourism and rural development** aligning with academic concepts.



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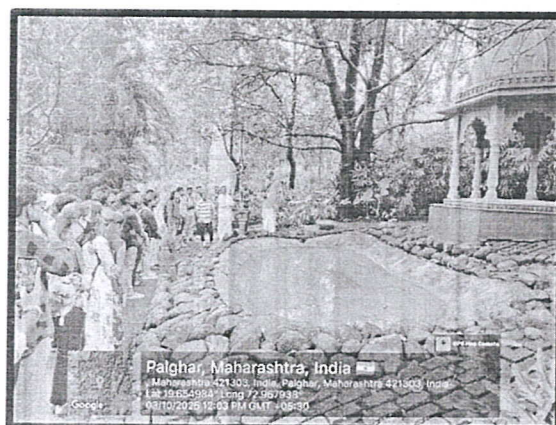
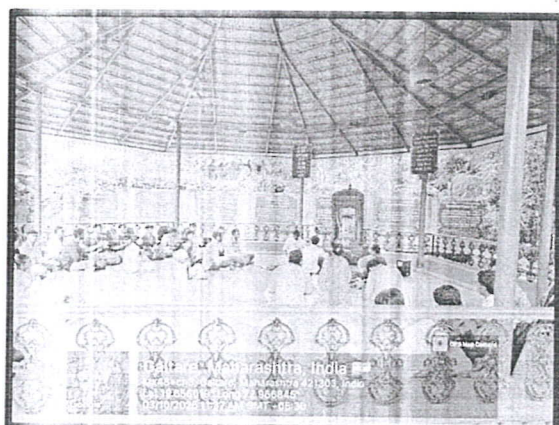
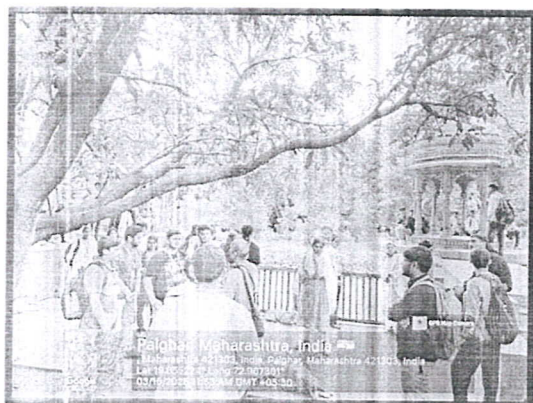


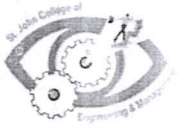
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5. Academic Outcome:

The industrial visit to Govardhan Ecovillage provided valuable insights that enhanced our understanding of sustainable practices and eco-tourism, linking classroom knowledge with real-world applications. Students developed a keen interest in areas such as **organic farming, renewable energy, water and waste management, and eco-friendly construction**. The visit also inspired interest in exploring future academic and professional opportunities, including **MOUs with the ecovillage, internships for hands-on training, participation in workshops, and attending guest lectures** conducted by experts. Overall, the experience encouraged students to consider careers and projects focused on **sustainability, rural development, and integrating traditional wisdom with modern technology**, fostering a deeper appreciation for socially responsible and environmentally conscious practices.

6. Photo Gallery





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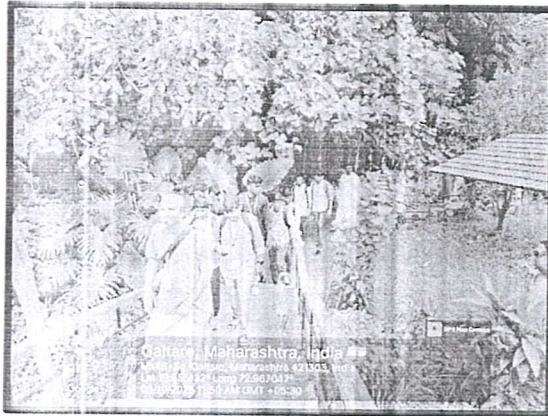
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03/10/2025 11:58 AM GMT +05:30



Palghar, Maharashtra, India
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Lat 19.654983° Long 72.965122°
03/10/2025 01:06 PM GMT +05:30



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Prepared By	Checked By
Name & Dated Signature of Coordinator	Name & Dated Signature of HOD
 Mr. Swapnil Malipatil	

Date of Visit: 03/10/2025

Date of Report Submission: 06/10/2025

Reason for delay if any: No Delays

Date: 06/10/2025



Approved By
Principal



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INDUSTRIAL VISIT REPORT

Details of Activity:

Name of the Activity	Industrial Site Visit to "Jamna Niwas" Construction Site		
Date & Time	10/09/2025, 2:00 PM to 4:00 PM	Department / Committee	Civil Engineering
Venue	Jamna Niwas, Opp. Patpedhi Bhavan, Walan Naka, Mahim Road, Palghar	No. of Participants	13
Nature of Activity	Industrial Visit / Field Training	Mode of Activity	Offline (On-Site)
Name of Activity In-charge	Mr. Mohammed Shakeebulla Khan	Name of Activity Coordinator	Mr. Mohammed Shakeebulla Khan and Ms. Swai Bawankar
Name and Affiliation of Resource person	Mr. Rajesh Sharma, Site Engineer, "Sharma Construction & Associates" (Contractors for the Project)		

Activity Information:

Objectives	1. To observe the practical application of quantity surveying and estimation techniques on a live RCC framed structure project. 2. To understand the process of preparing and referring to Bill of Quantities (BOQ), specifications, and tender documents. 3. To analyze the methods of rate analysis for various items of work as per the ongoing market rates. 4. To study the execution of civil engineering works, safety protocols, and project management practices.
Target Audience	Final Year (B.E. VII Sem) Civil Engineering Students
Methodology	1. Pre-Visit Briefing: A session was conducted to discuss the project drawings and learning objectives. 2. Site Tour: The site engineer guided students through different sections of the ongoing construction (foundation, shuttering, reinforcement work, brick masonry). 3. Interactive Session: A dedicated Q&A session was held where students interacted with the site engineer regarding estimation, valuation, and contract management challenges. 4. Post-Visit Debriefing: Students discussed their observations and compiled a report linking theoretical knowledge with practical exposure.



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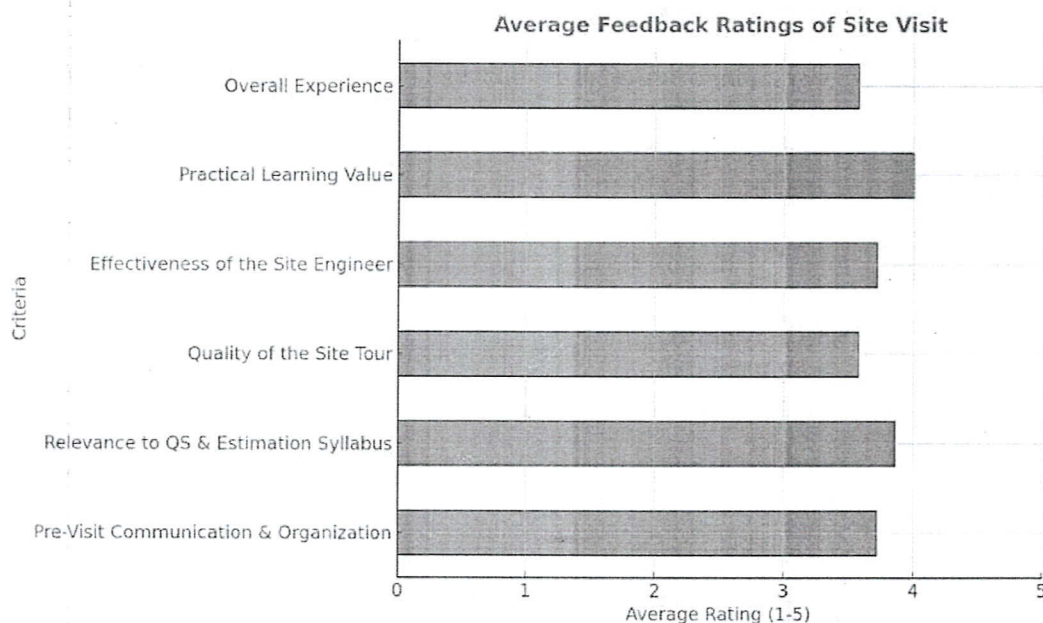
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Outcomes	1. Students gained first-hand experience in measurement and quantification of excavation, PCC, formwork, reinforcement, and brickwork. 2. Students understood the importance of detailed specifications in the tender document for ensuring quality of work. 3. The visit clarified concepts of lead, lift, and wastage factors considered in rate analysis. 4. The interaction helped students understand the practical nuances of contract clauses and site management.
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SWOT Analysis of the Event:

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Feedback Analysis: *Feedback in graphical form*





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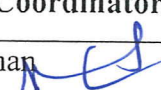
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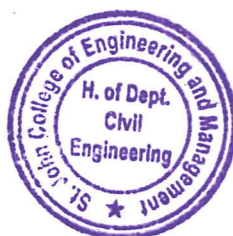
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☒	Feedback Form	☐	Any Other

Prepared By	Checked By
Name & Dated Signature of Coordinator	Name & Dated Signature of Committee In-charge
Mr. Mohammed Shakeebulla Khan 	Mr. Mohammed Shakeebulla Khan 
Ms. Swai Bawankar 	Ms. Swai Bawankar

Date of Activity: 10/09/2025

Date of Report Submission: 12/09/2025

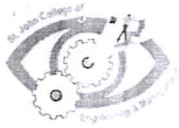
Date:





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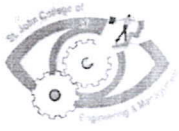
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Venue	Jamna Niwas, Opp. Patpedhi Bhavan, Walan Naka, Mahim Road, Palghar	No. of Participants	28
Nature of Activity	Industrial Visit / Field Training	Mode of Activity	Offline (On-Site)
Name of Activity In-charge	Mr. Ashok Meti Mr. Swapnil Malipatil	Name of Activity Coordinator	Mr. Ashok Meti Mr. Swapnil Malipatil
Name and Affiliation of Resource person	Mr. Patel, Site Engineer, Navkar RMC Plant		

Activity Information:

Objectives	1. To understand the complete manufacturing process of ready-mix concrete, including material selection, batching, mixing, quality control procedures, and delivery mechanisms. 2. To study the functioning and calibration of batching plant equipment, such as weigh batchers, conveyors, mixers, storage silos, and control systems. 3. To observe real-time quality control and testing practices, including slump test, cube casting, proportioning accuracy, and methods used to maintain consistency in concrete quality. 4. To gain exposure to safety protocols and operational workflows, ensuring understanding of onsite safety measures, plant layout, logistics, and environmental management in an industrial concrete production setup.
Target Audience	Third Year (T.E. VI Sem) Civil Engineering Students

Methodology

1. Pre-Visit Briefing: A session was conducted to discuss the project drawings and learning objectives.
2. Site Tour: The site engineer guided students through different sections of the ongoing construction (foundation, shuttering, reinforcement work, brick masonry).
3. Interactive Session: A dedicated Q&A session was held where students interacted with the site engineer regarding estimation, valuation, and contract management challenges.
4. Post-Visit Debriefing: Students discussed their observations and compiled a report linking theoretical knowledge with practical exposure.



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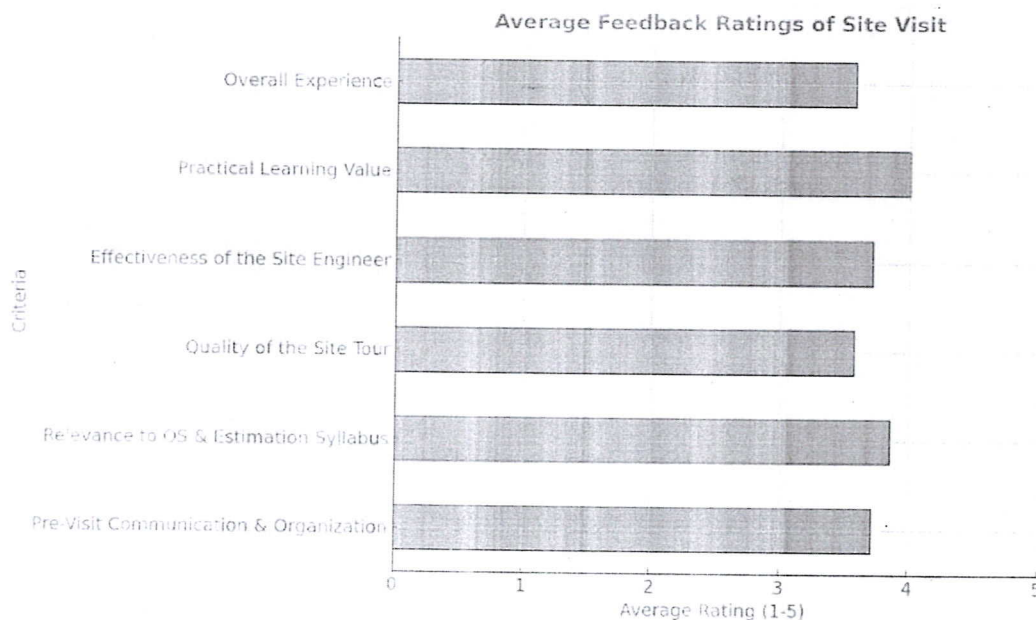
NAAC Accredited with Grade 'A+', Three Programs NBA Accredited

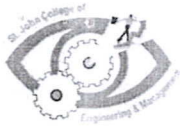
Outcomes	1. Students gained first-hand experience in measurement and quantification of excavation, PCC, formwork, reinforcement, and brickwork. 2. Students understood the importance of detailed specifications in the tender document for ensuring quality of work. 3. The visit clarified concepts of lead, lift, and wastage factors considered in rate analysis. 4. The interaction helped students understand the practical nuances of contract clauses and site management.
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SWOT Analysis of the Event:

Strength	Weakness	Opportunity	Threats
• Live example of an RCC framed structure. • Expert guidance from an experienced engineer	• Limited time to cover all aspects of the project. • Some areas were inaccessible due to active construction.	• Potential for future industry-academia collaboration for student projects • Enhanced practical understanding for upcoming exams and placements.	• Inclement weather could have disrupted the outdoor site tour.

Feedback Analysis: *Feedback in graphical form*





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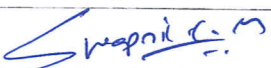
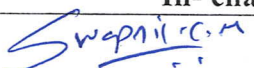


Geo-Tagged Photo



Proofs & Documents Attached (Tick mark the proofs attached) :

☒	Notice / Brochure	☒	Feedback Analysis
☒	Attendance list		Newsletter data for Spectrum
☒	Photos	☒	Media News Details
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☒	Feedback Form		Any Other

Prepared By	Checked By
Name & Dated Signature of Coordinator	Name & Dated Signature of Committee In- charge
 Mr. Ashok Meti and Mr. Swapnil Malipatil	 Mr. Ashok Meti and Mr. Swapnil Malipatil

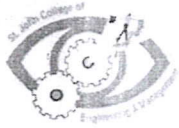
Date of Activity: 10/09/2025

Date of Report Submission: 12/09/2025

Date:



Approved By
HOD Signature



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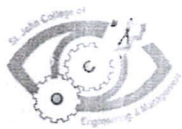
INDUSTRIAL VISIT REPORT

Details of Activity:

Name of the Activity	Industrial Site Visit to "Jamna Niwas" Construction Site		
Date & Time	10/09/2025, 2:00 PM to 4:00 PM	Department / Committee	Civil Engineering
Venue	Jamna Niwas, Opp. Patpedhi Bhavan, Walan Naka, Mahim Road, Palghar	No. of Participants	28
Nature of Activity	Industrial Visit / Field Training	Mode of Activity	Offline (On-Site)
Name of Activity In-charge	Mr. Ashok Meti Mr. Swapnil Malipatil	Name of Activity Coordinator	Mr. Ashok Meti Mr. Swapnil Malipatil
Name and Affiliation of Resource person	Mr. Rajesh Sharma, Site Engineer, "Sharma Construction & Associates" (Contractors for the Project)		

Activity Information:

Objectives	1. To observe the practical application of quantity surveying and estimation techniques on a live RCC framed structure project. 2. To understand the process of preparing and referring to Bill of Quantities (BOQ), specifications, and tender documents. 3. To analyze the methods of rate analysis for various items of work as per the ongoing market rates. 4. To study the execution of civil engineering works, safety protocols, and project management practices.
Target Audience	Third Year (T.E. VI Sem) Civil Engineering Students
Methodology	1. Pre-Visit Briefing: A session was conducted to discuss the project drawings and learning objectives. 2. Site Tour: The site engineer guided students through different sections of the ongoing construction (foundation, shuttering, reinforcement work, brick masonry). 3. Interactive Session: A dedicated Q&A session was held where students interacted with the site engineer regarding estimation, valuation, and contract management challenges. 4. Post-Visit Debriefing: Students discussed their observations and compiled a report linking theoretical knowledge with practical exposure.



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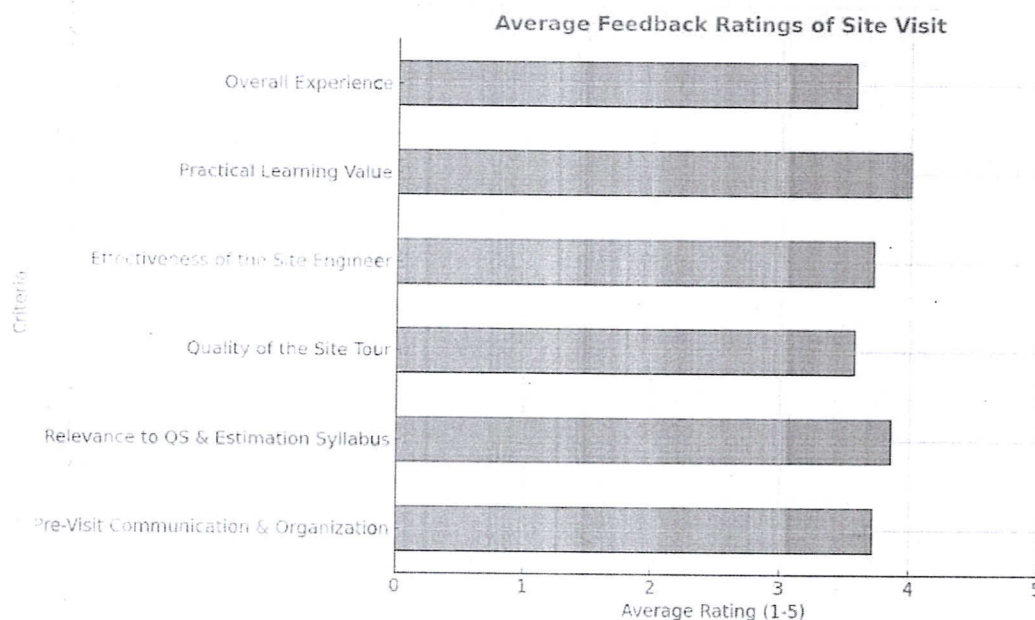
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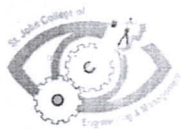
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SWOT Analysis of the Event:

Strength	Weakness	Opportunity	Threats
• Live example of an RCC framed structure. • Expert guidance from an experienced engineer	• Limited time to cover all aspects of the project. • Some areas were inaccessible due to active construction.	• Potential for future industry-academia collaboration for student projects • Enhanced practical understanding for upcoming exams and placements.	• Inclement weather could have disrupted the outdoor site tour.

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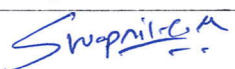
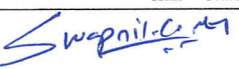
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Geo-Tagged Photo



Proofs & Documents Attached (Tick mark the proofs attached) :

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Prepared By	Checked By
Name & Dated Signature of Coordinator	Name & Dated Signature of Committee In-charge
 Mr. Ashok Meti and Mr. Swapnil Malipatil	 Mr. Ashok Meti and Mr. Swapnil Malipatil

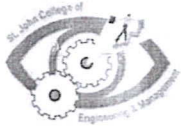
Date of Activity: 10/09/2025

Date of Report Submission: 12/09/2025

Date:



Approved By
HOD Signature



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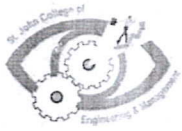
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Nature of Activity	Industrial Visit / Field Training	Mode of Activity	Offline (On-Site)
Name of Activity In-charge	Mr. Mohammed Shakeebulla Khan	Name of Activity Coordinator	Mr. Mohammed Shakeebulla Khan and Ms. Swai Bawankar
Name and Affiliation of Resource person	Mr. Rajesh Sharma, Site Engineer, "Sharma Construction & Associates" (Contractors for the Project)		

Activity Information:

Objectives	1. To observe the practical application of quantity surveying and estimation techniques on a live RCC framed structure project. 2. To understand the process of preparing and referring to Bill of Quantities (BOQ), specifications, and tender documents. 3. To analyze the methods of rate analysis for various items of work as per the ongoing market rates. 4. To study the execution of civil engineering works, safety protocols, and project management practices.
Target Audience	Final Year (B.E. VII Sem) Civil Engineering Students
Methodology	1. Pre-Visit Briefing: A session was conducted to discuss the project drawings and learning objectives. 2. Site Tour: The site engineer guided students through different sections of the ongoing construction (foundation, shuttering, reinforcement work, brick masonry). 3. Interactive Session: A dedicated Q&A session was held where students interacted with the site engineer regarding estimation, valuation, and contract management challenges. 4. Post-Visit Debriefing: Students discussed their observations and compiled a report linking theoretical knowledge with practical exposure.



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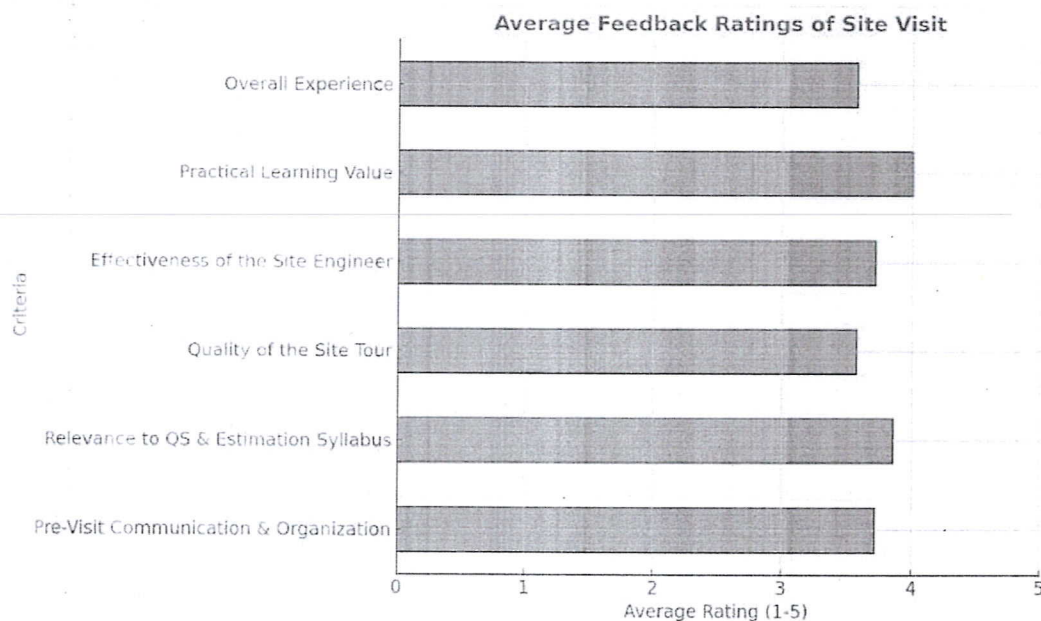
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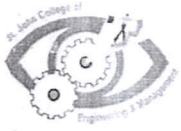
Outcomes	1. Students gained first-hand experience in measurement and quantification of excavation, PCC, formwork, reinforcement, and brickwork. 2. Students understood the importance of detailed specifications in the tender document for ensuring quality of work. 3. The visit clarified concepts of lead, lift, and wastage factors considered in rate analysis. 4. The interaction helped students understand the practical nuances of contract clauses and site management.
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Geo-Tagged Photo



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Prepared By	Checked By
Name & Dated Signature of Coordinator	Name & Dated Signature of Committee In-charge
Mr. Mohammed Shakeebulla Khan	Mr. Mohammed Shakeebulla Khan
Ms. Swai Bawankar	Ms. Swai Bawankar

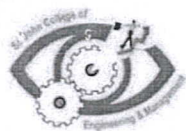
Date of Activity: 10/09/2025

Date of Report Submission: 12/09/2025

Date:



Approved By
HOD Signature



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INDUSTRY VISIT REPORT

1. Details of Industry Visit:

Department	SE Civil (B. Tech)		
Name of Industry visited	Navkar RMC Plant		
Address of Industry visited	Devkhope, Tal. Palghat, Dist. Palghar, Maharashtra, 401404		
Industry type	RMC Plant		
Date of visit	13/04/2026	Name of Faculty Member/s	Swapnil Malipatil Sir
Class / Year / Branch	SE Civil (A)	No. of Students	30

2. Objectives of the Visit:

- To understand the manufacturing process of Ready Mix Concrete (RMC)
- To study concrete mix design and proportioning of materials
- To observe batching, mixing, and transportation of concrete
- To learn about quality control tests like slump and compressive strength
- To understand the working of batching plant and transit mixers
- To gain knowledge about modern construction practices using RMC

3. Highlights of the Visit:

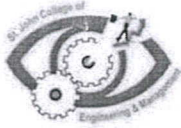
I. Introduction to the Company:

Navkar RMC Plant is a modern facility involved in the production of Ready Mix Concrete used in construction projects. The plant uses automated systems for batching and mixing, ensuring accuracy, consistency, and high-quality concrete production.

The plant follows standard procedures for material storage, mix design, and quality control, making it suitable for large-scale infrastructure and building projects.

II. Key Sessions:

During our visit, students attended an informative session conducted by our faculty and the plant engineer. The session covered:



- Raw materials used in concrete (cement, sand, aggregates, water, admixtures)
- Concrete mix design and grade selection (M20, M25, M30, etc.)
- Importance of water-cement ratio
- Use of admixtures to improve workability and strength
- Automated batching process and plant operation

III. Site Tour/Practical Demonstration:

During the industrial visit to the Navkar RMC Plant, students were given a detailed site tour where the complete process of concrete production was observed in a step-by-step manner. The plant was well-organized with separate sections for storage, batching, mixing, and transportation.

1. Aggregate Storage and Handling:

Students observed that coarse and fine aggregates were stored separately in designated storage bins. Different sizes of aggregates such as 10 mm and 20 mm were maintained to ensure proper grading of concrete. The aggregates were stored on hard surfaces to prevent contamination with soil and impurities.

Moisture content in aggregates was carefully monitored, as it directly affects the water-cement ratio and overall strength of concrete.

2. Cement Storage (Silos):

Cement was stored in large vertical silos to prevent exposure to moisture and environmental conditions. The silos were equipped with:

Dust collectors to reduce air pollution

Level indicators to monitor cement quantity

Pneumatic systems for transferring cement to the batching unit

This ensured proper storage and continuous supply of cement during production.

3. Batching Process:

The batching process was fully automated and controlled through a computerized system. All materials were measured accurately by weight batching, which is more precise than volume batching.

The batching included:

Cement

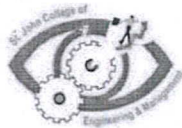
Fine aggregates (sand)

Coarse aggregates

Water

Chemical admixtures

The system automatically adjusted quantities based on moisture content and required mix design.



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4. Mixing Operation:

The materials were then transferred into a central mixing unit, where uniform mixing of concrete was achieved. The mixing process ensured:

Proper coating of aggregates with cement paste

Uniform consistency

Required workability

The duration of mixing was controlled to avoid under-mixing or over-mixing, both of which can affect concrete quality.

5. Use of Admixtures:

Students observed the addition of chemical admixtures such as superplasticizers. These were used to:

Improve workability without increasing water content

Enhance strength and durability

Control setting time

The dosage of admixtures was carefully controlled through automated systems.

6. Transit Mixers (Transportation):

After mixing, the concrete was discharged into transit mixers for transportation to construction sites. These mixers continuously rotated to prevent segregation and maintain uniformity.

Key observations:

Rotation speed was controlled

Delivery time was limited (generally within 90 minutes)

Proper scheduling ensured timely supply

7. Control Room and Automation:

The plant had a centralized control room where all operations were monitored. The control panel displayed:

Quantity of materials used

Mix proportions

Production rate

System status

Automation minimized human error and improved efficiency.

8. Quality Control and Testing:

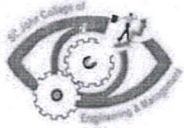
The plant maintained strict quality control measures. Students observed:

Slump test to check workability

Sampling of fresh concrete

Cube casting for compressive strength testing

These tests ensured that the concrete met required standards before being delivered.



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9. Safety Measures:

Proper safety measures were followed at the plant, including:

Use of helmets and safety gear

Restricted access to machinery areas

Dust control systems

Clear pathways for movement of vehicles

10. Overall Observation:

The entire process from raw material storage to final dispatch of concrete was systematic and efficient. The use of automation, proper material handling, and strict quality control ensured the production of high-quality Ready Mix Concrete.

IV. Interaction with Industry Professionals:

During the visit, students interacted with plant engineers and technical staff, which provided valuable practical insights. The professionals explained the importance of maintaining accuracy in mix design and batching to achieve the desired strength and durability of concrete.

They discussed common challenges such as maintaining the correct water-cement ratio, preventing segregation during transportation, and ensuring timely delivery of concrete to construction sites. The role of admixtures in improving workability and controlling setting time was also highlighted.

Students were also informed about the importance of quality control measures and regular testing to meet standard specifications. The interaction helped in understanding real-world construction practices beyond theoretical knowledge.

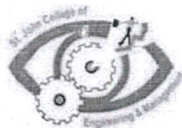
V. Learning Outcomes

Gained understanding of Ready Mix Concrete (RMC) production process

- Learned about concrete mix design and material proportioning
- Observed the working of batching plant and transit mixers
- Understood the importance of quality control tests like slump and compressive strength
- Connected classroom concepts of concrete technology with practical applications

VI. Academic Outcome:

The visit enhanced students' understanding of environmental engineering concepts and their practical applications. It inspired interest in careers related to water resource management,



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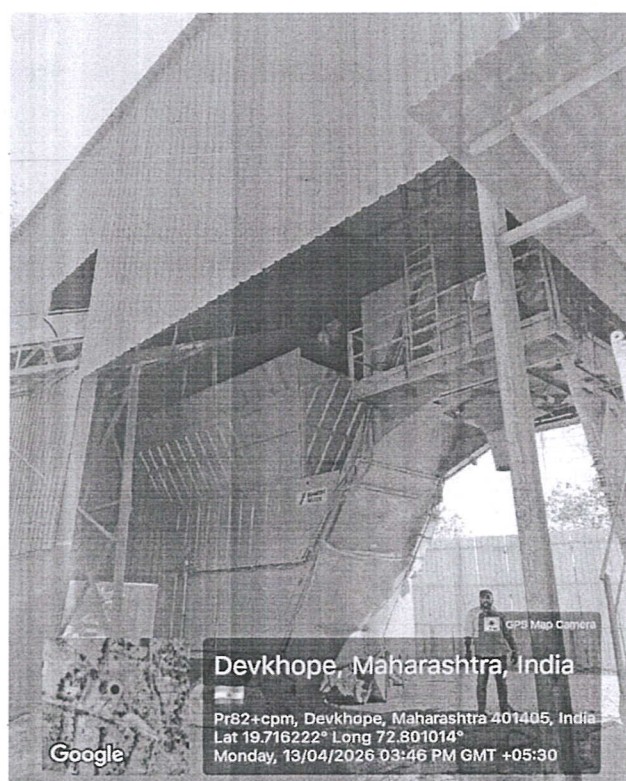
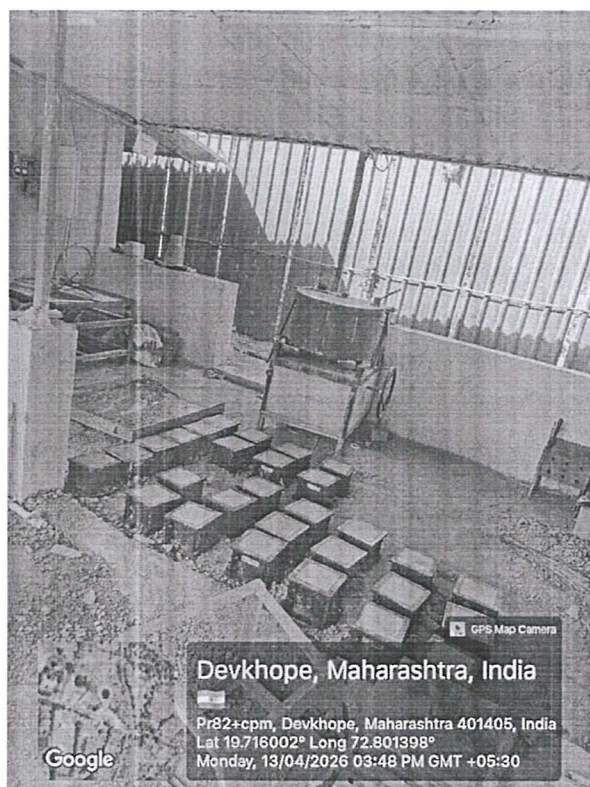


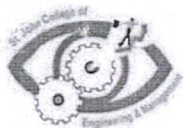
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environmental sustainability, and public health engineering. Opportunities for internships, workshops, and collaborative projects with municipal authorities were discussed. The experience encouraged students to pursue innovative solutions for water conservation and treatment. The industrial visit also enhanced students' knowledge of modern construction techniques and concrete production methods. It provided practical exposure to the functioning of an RMC plant and its role in large-scale construction projects.

The visit also helped students understand the importance of automation, quality assurance, and efficient material management in the construction industry. It encouraged interest in fields such as construction management, material testing, and site engineering, thereby contributing to their academic and professional development.

4. Photo Gallery





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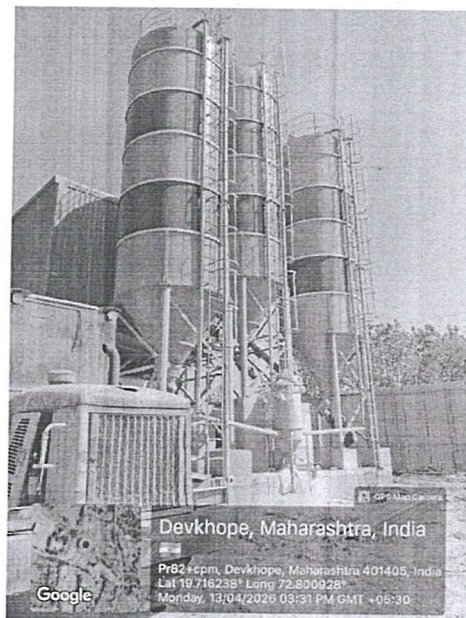
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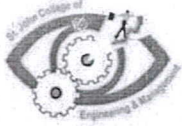
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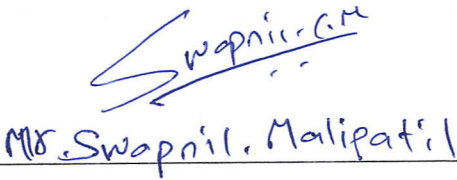
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Proofs & Documents Attached (Tick mark the proofs attached):

☐	Permission Letter to Institute	☐	Permission Letter to Industry
☐	Student attendance sheet	☐	Undertaking by students with emergency contact details
☐	Consent letter from parents (for visit outside Palghar)	☐	Thanks Letter to the industry

Prepared By	Checked By
Name & Dated Signature of Coordinator	Name & Dated Signature of HOD
 Mr. Swapnil Malipatil	

Date of Visit: 13/4/2026

Date of Report Submission:

Reason for delay if any:



Approved By
Principal