V.V Sangha's
RAO BAHADUR Y MAHABALESWARAPPA ENGINEERING COLLEGE
Cantonment, Ballari - 583103
Department of Civil Engineering

ACTIVITY	**Site Visit for 7th and 5th Semester Students**
DATE & TIME	**09.10.2026**
Project Name	**Construction of residential and commercial building opposite new bus stand Ballari**
PARTICIPANTS	**7th and 5th Semester Students of the Civil Engineering Department**
Faculty Incharge	**Mr. Basavalingappa** **Assistant Professor**
FACULTY Visited	**Dr.Sachin Patil** **Associate Professor** **Dr.Mahesh** **Associate Professor** **Mr. Basavalingappa** **Assistant Professor** **Mr.Veeresh H M** **Assistant Professor** **Mr.Manohar** **Assistant Professor** **Mrs.Rajaselvi** **Assistant Professor**

Objectives of the Site Visit

1. To understand the purpose and applications of pile foundations.
2. To observe the major stages involved in pile foundation construction.
3. To learn about piling equipment, materials, reinforcement cages, and concreting procedures.
4. To understand the importance of site investigation, quality control, and construction safety.
5. To correlate classroom concepts in geotechnical and foundation engineering with field practice.

Activities Observed at the Site

Introduction to the Project:

The students were introduced to the construction work and the role of pile foundations in transferring structural loads to deeper, competent soil or rock strata.

Pile Foundation Construction:

The site personnel explained the sequence of pile construction and the purpose of the piling equipment. The stages discussed included setting out pile locations, boring or drilling, checking the bore, placing the reinforcement cage, and concreting. The actual activities observed depended on the stage of work in progress during the visit.

Materials and Equipment:

Students learned about the function of reinforcement steel, concrete, and the equipment used for pile installation. The importance of maintaining the specified pile diameter, depth, reinforcement details, and concrete quality was explained.

Quality Control and Safety:

The importance of checking pile records, bore depth, reinforcement placement, concrete placement, and relevant quality-control procedures was discussed. Students were also advised to follow site safety instructions and maintain a safe distance from operating machinery.

Outcomes of the Site Visit:

Students gained practical awareness of the purpose and applications of pile foundations.

1. They understood the general sequence of pile installation, including boring, reinforcement placement, and concreting.
2. They became familiar with the materials, machinery, and site checks associated with pile foundation work.
3. They recognised the importance of soil conditions, load transfer, workmanship, quality control, and safety.
4. The visit helped connect theoretical concepts from foundation engineering and geotechnical engineering with construction-site practices.

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CO–PO Mapping with Justification for the Site Visit to Pile Foundation Work

Activity: Site Visit to Pile Foundation Work near New Bus Stand, Ballari
Department: Civil Engineering, RYMEC, Ballari
Participants: 5th and 7th Semester Civil Engineering Students

Course Outcome (CO)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1: Understand the purpose and applications of pile foundations.	3	2	–	–	–	–	–	–	–	–	–	1
CO2: Understand the sequence of pile installation, including boring, reinforcement placement, and concreting.	2	2	2	–	1	–	–	–	–	–	–	1
CO3: Identify materials, machinery, and quality checks associated with pile foundation construction.	2	2	–	–	2	–	–	–	–	–	–	1
CO4: Recognize the importance of soil conditions, load transfer, workmanship, quality control, and safety.	2	2	1	–	1	2	–	–	–	–	–	1
CO5: Relate theoretical concepts of foundation and geotechnical engineering to actual construction practices.	3	2	1	–	1	–	–	–	–	–	–	2

2. Justification for CO–PO Mapping

CO	Mapped POs	Justification
CO1	PO1 (3), PO2 (2), PO12 (1)	Students applied fundamental civil engineering knowledge to understand the purpose and applications of pile foundations. The visit supported the identification of foundation-related engineering problems and encouraged further learning.
CO2	PO1 (2), PO2 (2), PO3 (2), PO5 (1), PO12	Students learned the general sequence of pile installation, including boring, reinforcement placement, and concreting. This improved their understanding of construction procedures and the practical application of engineering methods and

	(1)	tools.
CO3	PO1 (2), PO2 (2), PO5 (2), PO12 (1)	Students became familiar with construction materials, machinery, and site inspection practices. The visit helped them understand how engineering knowledge and construction equipment support the execution and quality control of pile foundations.
CO4	PO1 (2), PO2 (2), PO3 (1), PO5 (1), PO6 (2), PO12 (1)	Students recognized the influence of soil conditions, load transfer, workmanship, quality control, and safety on foundation construction. This developed awareness of practical engineering considerations and public safety.
CO5	PO1 (3), PO2 (2), PO3 (1), PO5 (1), PO12 (2)	Students connected classroom concepts from foundation and geotechnical engineering with construction-site practices, strengthening their ability to relate theoretical knowledge to practical civil engineering applications and continued professional learning.


BRUCE PET
Ballari
KSRTC BUS STAND
Link Cabin
BALLARAPPA COLONY
Bangalore Rd
Google
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Longitude 76.921271 76°55'16" E
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90°F
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BRUCE PET
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Hubballi Rd
KSRTC BUS STAND
Ballari Link Cabin
BALLARAPPA COLONY
Bangalore Rd
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Longitude 76.919391 76°55'9" E
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Ballari Chord Cabin
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Ballari
KSRTC BUS STAND
Ballari Link Cabin
BALLARAPPA COLONY
Bangalore Rd
Google
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2026-10-09(Fri) 10:54(AM)
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Ballari
KSRTC BUS STAND
BALLARAPPA COLONY
Bangalore Rd
Google
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32°C
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2026-10-09(Fri) 11:16(AM)

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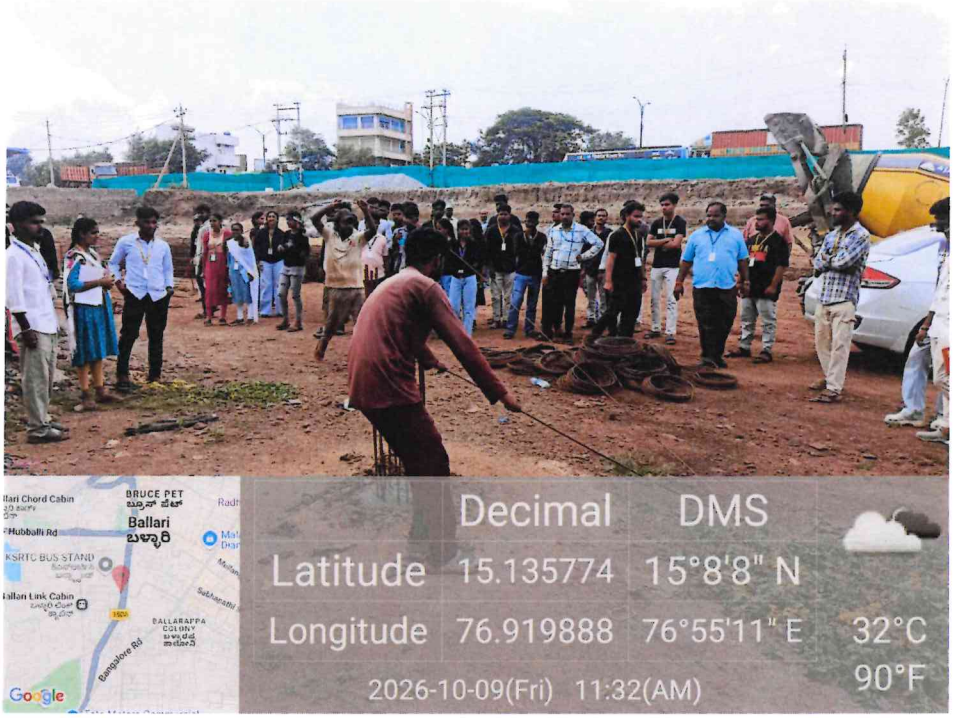


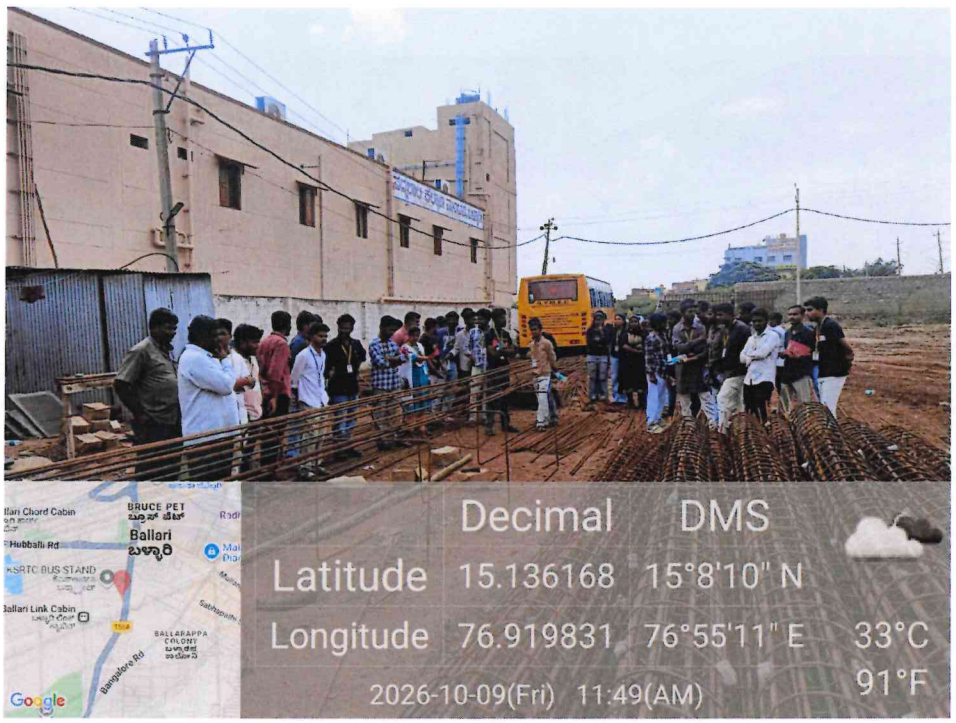
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Faculty Incharge
Basavalingappa

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