



G. K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.
Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA
Department of Civil Engineering

Ref: DACOE/Civil/24-25/

Date: 16/01/2025

To,

The Principal

Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering,
Karad.

Subject-Regarding permission of field visit.

Respected Sir,

With reference to mentioned subject Civil Engineering Department is going to arrange field visit as per curriculum & syllabus of Shivaji University B. Tech. - final year and third year. Undertakings of all students are collected. Students and Faculty list is attached herewith.

Sr. No.	Class	Subject	No of Student	Date	Time	Location
1	B.Tech Civil Final Year	Transportation Engineering - II, Water Resource Engineering - II Design of Bridges,	28 students	20/01/25 to 22/01/25	3 Days with 2 night	Ratnagiri , Sindhudurg
2	Third Year	Geotechnical Engineering - II	4 students	20/01/25 to 22/01/25	3 Days with 2 night	Ratnagiri , Sindhudurg

Including five faculty member and one lab assistant of Civil Engineering Department for assistance.

So, Kindly consider the same and please do the needful.

Yours Faithfully

Subject in Charge
TRE-II and WRE-II

Dr. M. B. Kumthekar
H.O.D

Dr. A. M. Mulla
Principal





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Department of Civil Engineering

Ref: DACOE/Civil/24-25/

Date: 16/01/2025

Field Visit Route (Tentative)

Day - 1

1. Karad - Amba ghat bridge - Ultra tech Ratnagiri - Trali Dam- Pawas
Stay - Pawas

Day - 2

2. Pawas - Malwan - Rock Garden - Sindhudurg Muchkund dam -
Devbag
Stay - Devbag

Day - 3

3. Devbag - Sindhudurg Fort- Karad





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NOTICE

All the students of **B.Tech Civil** class are hereby informed that their Field visit in the subject Transportation Engineering -II and Water Resource Engineering -II at **Ratnagiri and Sindhudurg** is arranged on **Monday 20th January to 22th January , 2025**. All students strictly note that they should remain present at **sharp 6:00 AM** on the same day at Department.

Note: I-Card & College uniform is Compulsory.


Dr. M.B. Kumthekar
HOD Civil Engg.





**Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.**

Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

DEPARTMENT OF CIVIL ENGINEERING

Ref: DACOE/Civil/24-25/ 101

Date:16 /01/2025

To,

Executive Engg

Irrigation Project Construction Division,

Ratnagiri

Subject- Request to get permission for "Student's site visit program at Tilari project and Tilari Dam".

Dear Sir,

We take this opportunity to introduce **Dr.Ashok Gujar Technical Institute's, Dr. Daulatrao Aher College of Engineering, Karad**, established in 2008, as one of the self-financed Engineering Institutes, affiliated to Shivaji University, Kolhapur; and approved by AICTE New Delhi, DTE and Government of Maharashtra. Also, accreditation by NAAC with A grade and NBA.

To have a rapport with industry trends, we would like to arrange a visit at Tilari dam and project, Ratnagiri

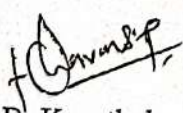
Approximately 33 bonafied students and 4 faculty members will remain present during a field visit. The faculty members and students will observe the rules of your esteemed organization during a field visit.

We request you to permit us to visit at Tilari project and Tilari dam, on 21st January 2025 with a technical person.

We will be highly honored by your positive response and cooperation.

Thank you

Yours sincerely,


Dr. M. B. Kumthekar

H.O.D. (Civil)




Dr. A. M. Mulla

Principal

Principal

Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad



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DEPARTMENT OF CIVIL ENGINEERING

Ref: DACOE/Civil/24-25/99

Date: 16/01/2025

To,
The Head Manager,
NHAI Office, Ujlaiwadi Kolhapur

Subject- Request to get permission for "Student's site visit program to Bridge near Ambaghat, Kolhapur".

Dear Sir,

We take this opportunity to introduce **Dr. Ashok Gujar Technical Institute's, Dr. Daulatrao Aher College of Engineering, Karad**, established in 2008, as one of the self-financed Engineering Institutes, affiliated to Shivaji University, Kolhapur; and approved by AICTE New Delhi, DTE and Government of Maharashtra. Also, accreditation by NAAC with A grade and NBA.

As a part of academics, it is necessary to conduct a study visit to "Bridges" for Final Year Civil Engg. students. So we are interested to give practical exposure to the Civil Engg. students by visiting the bridge. Our area of interest is study of Bridge construction in detail.

Approximately 33 bonafied students and 4 faculty members will remain present during a field visit. The faculty members and students will observe the rules of your esteemed organization during a field visit.

We request you to permit us to visit the bridge near Ambaghat, Kolhapur, on 20th January 2025 with a technical person.

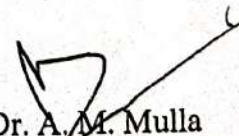
We will be highly honored by your positive response and cooperation.

Thank you

Yours sincerely,


Dr. M. B. Kumthekar
H.O.D. (Civil)




Dr. A. M. Mulla

**Principal
Principal**
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad



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DEPARTMENT OF CIVIL ENGINEERING

Ref: DACOE/Civil/24-25/100

Date: 16/01/2025

To,
Executive Engg
Irrigation Project Construction Division,
Sindhudurg

Subject- Request to get permission for "Student's site visit program at Charthe-Sawantwadi, Muchkund Project".

Dear Sir,

We take this opportunity to introduce **Dr. Ashok Gujar Technical Institute's, Dr. Daulatrao Aher College of Engineering, Karad**, established in 2008, as one of the self-financed Engineering Institutes, affiliated to Shivaji University, Kolhapur; and approved by AICTE New Delhi, DTE and Government of Maharashtra. Also, accreditation by NAAC with A grade and NBA.

To have a rapport with industry trends, we would like to arrange a visit in Muchkund project, Sindhudurg.

Approximately 33 bonafied students and 4 faculty members will remain present during a field visit. The faculty members and students will observe the rules of your esteemed organization during a field visit.

We request you to permit us to visit at Muchkund project, on 21st January 2025 with a technical person.

We will be highly honored by your positive response and cooperation.

Thank you

Yours sincerely,


Dr. M. B. Kumthekar

H.O.D. (Civil)




Dr. A. M. Mulla

Principal
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

Date - 20/11/25



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DEPARTMENT OF CIVIL ENGINEERING

Sr. No	Roll. No	Name of Students	Sign
1	14045	Jayesh Khude	
2	14026	Adinath Pawar	
3	14042	Nikhil Salave	
4	14052	Yogesh Lavand	
5	14043	Shwet Jadhav	
6	14049	Sanket Nalawade	
7	14003	Kartik Bhujgurav	
8	14037	Rohit Akhade	
9	14016	Omkar Khabale	
10	14040	Tejas Yadav	
11	14038	Nilhil Chavan	
12	14039	Rushikesh Pawar	
13	14017	Abhishek Lokare	
14	14012	Rutwik Jadhav	
15	13001	Prathamesh Bhopate	
16	13003	Sushant Shinde	
17	13002	Sahil Mane	



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18	14005	Vaishnavi Chavan	<u>Vaishnavi</u>
19	14027	Swaranjali Pawar	<u>Swaran</u>
20	14035	Vijaya Mali	<u>Vijaya</u>
21	14009	Aiman Inamdar	<u>Inamdar</u>
22	14028	Vishakha Pawar	<u>Pawar</u>
23	14008	Sakshi Hulwan	<u>Sakshi</u>
24	14007	Vaishnavi Dubal	<u>Vaishnavi</u>
25	14034	Prajakta Shinde	<u>Shinde</u>
26	14002	Prachi Arjugade	<u>Arjugade</u>
27	14055	Ashwini Waghmare	<u>Waghmare</u>
28	14031	Chaitrali Sawant	<u>Sawant</u>
29	14020	Simran Mulani	<u>Mulani</u>
30	14036	Sharvari Gaikwad	<u>Gaikwad</u>
31	14033	Samruddhi Shewale	<u>Shewale</u>
32	14048	Muskan Nadaf	<u>Muskan</u>

33

Infan Mulla

Infan

Date 21/11/2025



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6	14049	Sanket Nalawade	<u>Sanket</u>
7	14003	Kartik Bhujgurav	<u>Kartik</u>
8	14037	Rohit Akhade	<u>RAkhade</u>
9	14016	Omkar Khabale	<u>OKhabale</u>
10	14040	Tejas Yadav	<u>TYadav</u>
11	14038	Nilhil Chavan	<u>NChavan</u>
12	14039	Rushikesh Pawar	<u>RPawar</u>
13	14017	Abhishek Lokare	<u>ALokare</u>
14	14012	Rutwik Jadhav	<u>RJadhav</u>
15	13001	Prathamesh Bhopate	<u>PBhopate</u>
16	13003	Sushant Shinde	<u>SShinde</u>
17	13002	Sahil Mane	<u>SMane</u>



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29	14020	Simran Mulani	<i>Simran</i>
30	14036	Sharvari Gaikwad	<i>Sharvari</i>
31	14033	Samruddhi Shewale	<i>Samruddhi</i>
32	14048	Muskan Nadaf	<i>Muskan</i>

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Date 22/11/2025



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4	14052	Yogesh Lavand	<i>[Signature]</i>
5	14043	Shwet Jadhav	<i>[Signature]</i>
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7	14003	Kartik Bhujgurav	<i>[Signature]</i>
8	14037	Rohit Akhade	R.S.A.
9	14016	Omkar Khabale	O.K.
10	14040	Tejas Yadav	<i>[Signature]</i>
11	14038	Nilhil Chavan	<i>[Signature]</i>
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14	14012	Rutwik Jadhav	<i>[Signature]</i>
15	13001	Prathamesh Bhopate	<i>[Signature]</i>
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Irfan Mulla

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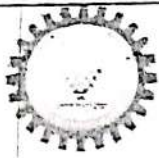
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DEPARTMENT OF CIVIL ENGINEERING

Sr.No	Name of Faculty	Sign
1	Prof. P.S.Lokare	
2	Ms. B.M.Deshmukh	
3	Ms. P.S.Shinde	
4	Prof. Pisal. P. B	
5		
6		

Class Teacher

HOD



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Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Program Civil Engineering	Semester: VIII	DACOE/PRJ-FRM-07
		PRJ-FRM-07 Rev. No: 0 Date: 2/2/2025

Site Name :-

Location: - Dabhole Bk (Bridge site)

Date : - 20/01/2025

We have seen various components of Bridge such as ,

- 1) Girders
- 2) Bearings
- 3) Piers
- 4) Pier Caps

The material used for bridge construction are pre-cast, pre-tensioning concrete members.

The type of the foundation is raft foundation, the bridge will support maximum load in tons and designed to with stand wind load, seismic load, self-weight of bridge and vehicle load.

The site is suitable for the proposed bridge construction, provided that the recommended design adjustments and safety measures are followed.

It is recommended to conduct ongoing monitoring of soil stability and environmental impact during and after construction to ensure long-term performance.



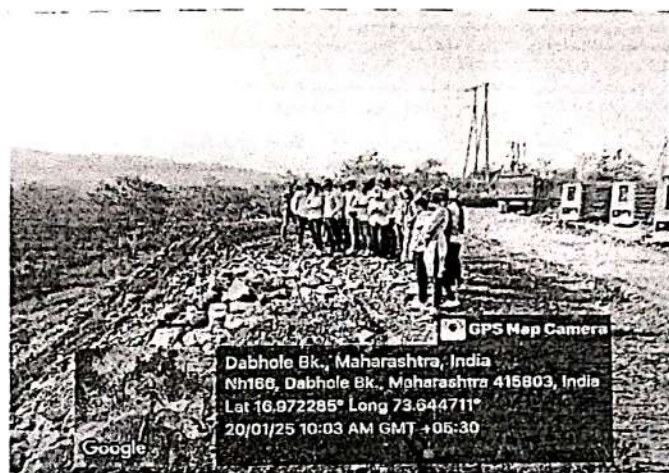
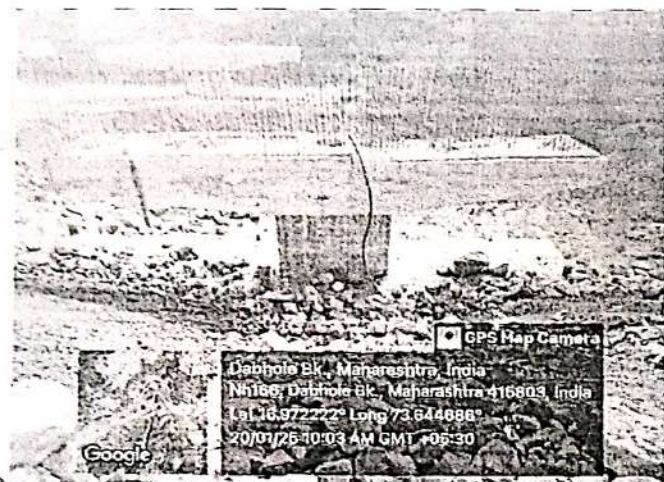
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Program Civil Engineering

Semester: VIII

DACOE/PRJ-FRM-07

PRJ-FRM-07 Rev. No: 0
Date: 2/2/2025



	G.K. Gujar Memorial Charitable Trust's Dr. Ashok Gujar Technical Institute's, Dr. Daulatrao Aher College of Engineering, Karad. Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA	
	Program Civil Engineering	Semester: VIII
		DACOE/PRJ-FRM-07 PRJ-FRM-07 Rev. No: 0 Date: 2/2/2025

Site name :- Panaval Viaduct

Location :- Tike , Ratnagiri

(Railway Bridge Site)

Date - 20/01/2025

We have seen various components of Railway such as ,

- 1) Rails - Steel tracks on which trains run.
- 2) Sleepers (Ties) - Support the rails and maintain the correct gauge.
- 3) Ballast - Crushed stone or gravel that holds sleepers in place and provides drainage.
- 4) Fastenings - Components like fish plates, spikes, and clips that secure rails to sleepers.
- 5) Switches and Crossings (Points and Frogs) - Allow trains to change tracks.

The site is carefully selected based on factors such as topography, soil stability, and

proximity to urban and industrial areas to optimize connectivity and efficiency.

Construction at a railway site involves extensive planning, including land acquisition, environmental assessments, and safety evaluations.

Once operational, the railway site plays a key role in facilitating the movement of passengers and goods, contributing to regional development and enhancing transportation networks. Proper maintenance and upgrades are essential to ensure the safety, reliability, and long-term functionality of the railway site.



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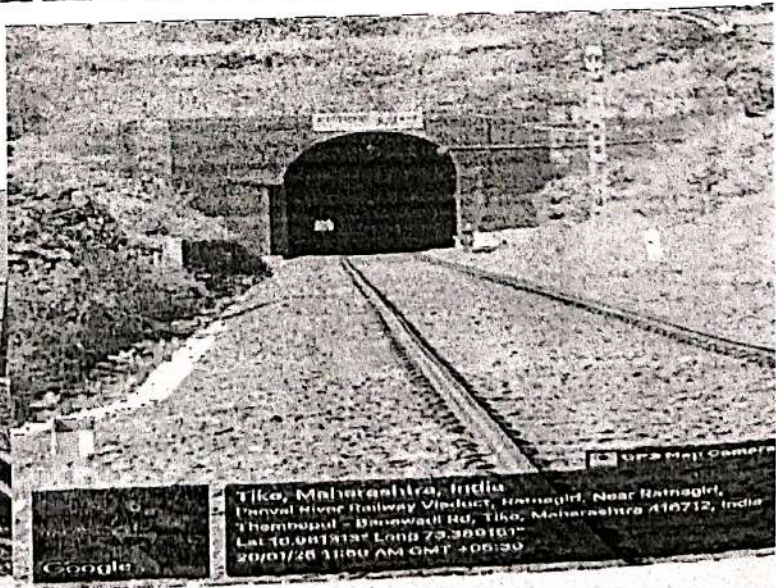
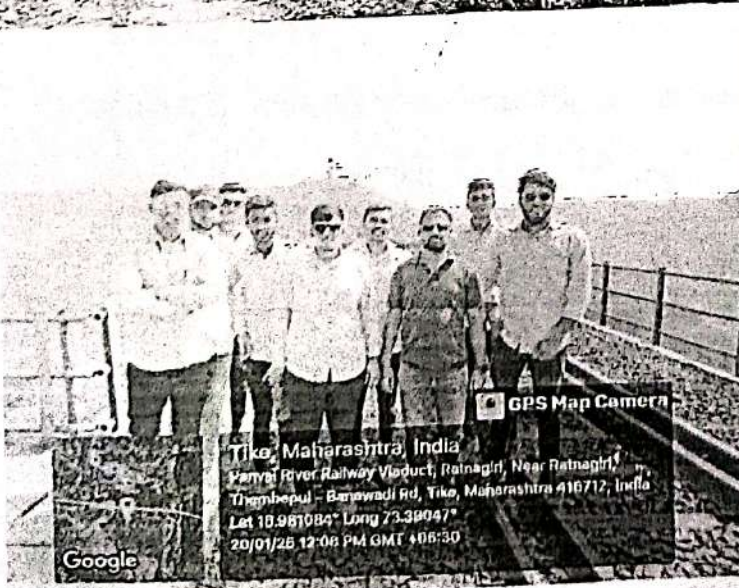
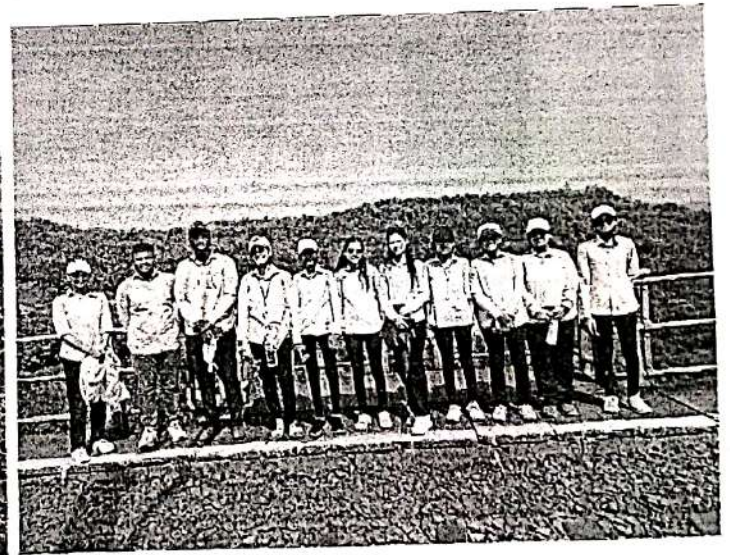
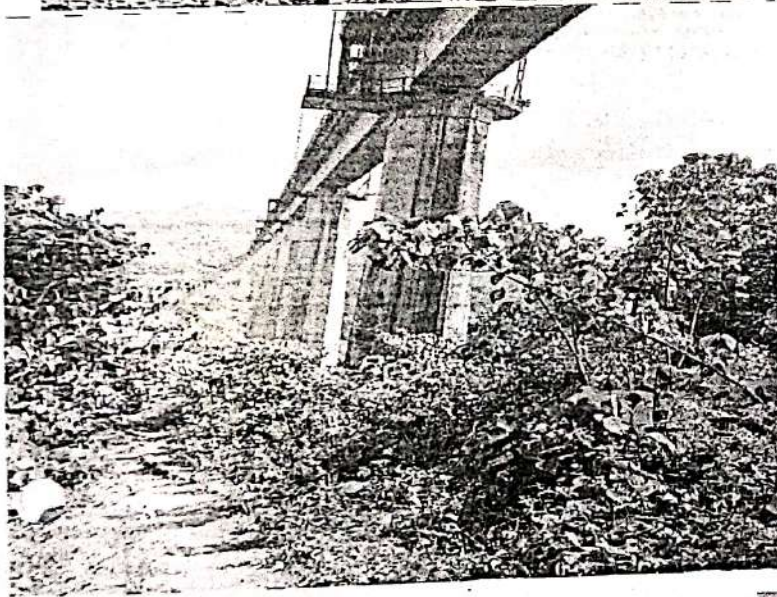
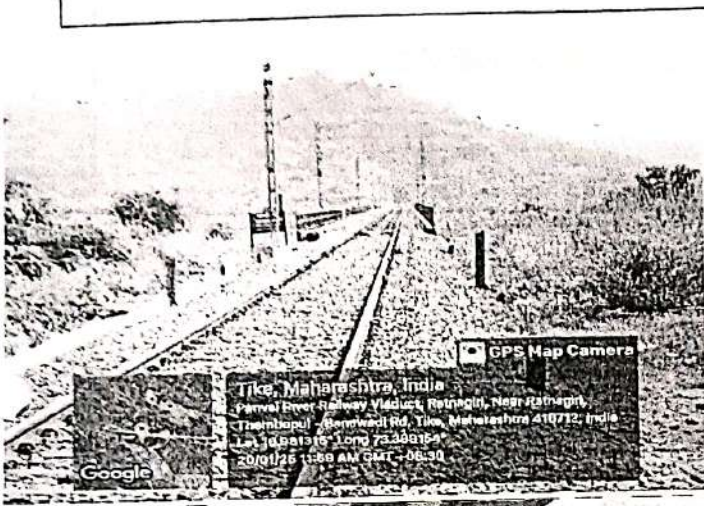
Program Civil Engineering

Semester: VIII

DACOE/PRJ-FRM-07

PRJ-FRM-07 Rev. No: 0

Date: 2/2/2025



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	Program Civil Engineering	Semester: VIII
		DACOE/PRJ-FRM-07 PRJ-FRM-07 Rev. No: 0 Date: 2/2/2025

Site name - Building Foundation

Location :- Ratnagiri, Maharashtra

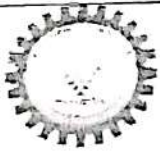
Date :- 20/01/2025

● We have seen RMC (Ready mix concrete) plant and on going foundation site of Police Quarters, there is also slab casting work is on going. The use of transit mixer of capacity of 100 to 150 tons.

The walls of the police quarters fully construction of concrete work, no any masonry work carried out. The use M45 grade of cement is used for construction of the foundation and M35 grade of cement is used for the floors construction.

There is two slabs per month casted at that site. They have used isolated footings of rectangular shape column to support .

● To enhance stability, the footing is often wider than the column base, ensuring a larger surface area for load distribution. Isolated footings are cost-effective and easy to construct, making them ideal for small to medium-sized structures where the columns are not closely spaced.



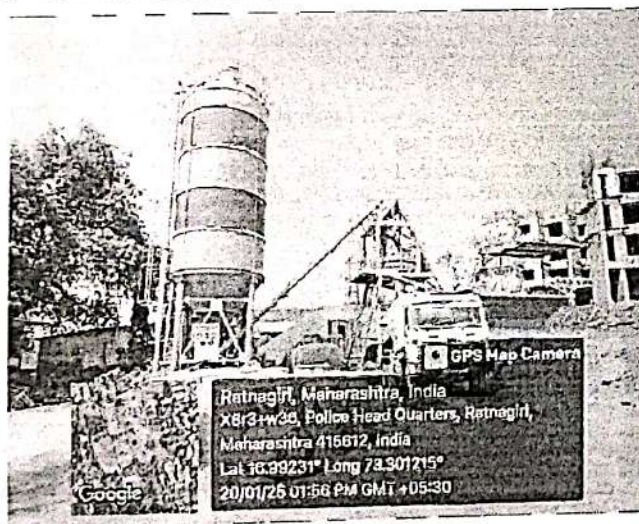
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Program Civil Engineering

Semester: VIII

DACOE/PRJ-FRM-07

PRJ-FRM-07 Rev. No: 0
Date: 2/2/2025





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Dr. Ashok Gajjar Technical Institute's
Dr. Bhausaheb Ahar College of Engineering, Karad.
Vidyanagar Bld. Bamswad, Tal. Karad 415124, Dist. Sindh, Maharashtra INDIA

Program Civil Engineering

Semester: VIII

Roll No. PG-2404-07

PG-2404-07 Sem. No. 8
Date 23/01/2023

Site name - Tiltari Dam

Location - Ramnagar

Date - 23/01/2023

Dam Dimensions -

Height - 22.74 m (74.6 ft)

Length - 350 m (1,150 ft)

Reservoir Total capacity -

1,514 km³ (363 cu mi)

Components -

• Water Conduitor system: Head Race Tunnel, Surge Well, Penstock, Pressure Shaft, Tail Race Tunnel, Tail race Channel.

• Turwan Madhe Pickup Weir: Across Kharni Nalla for storage of discharged water from THSP.

• Tiltari Right Bank Canal: A 13 km long canal between Turwan Madhe Pickup weir and the Link Canal of Tiltari Insurance Irrigation Project in Sindhadurg district.

The Tiltari Dam, a joint project of Goa and Maharashtra, is located on the Tiltari River in Dednarg Taluka, Maharashtra, near the Goa-Maharashtra border, and serves as a crucial water resource for irrigation and drinking water.



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DACOE/PRJ-FRM-07

Program Civil Engineering

Semester: VIII

PRJ-FRM-07 Rev. No: 0
Date: 2/2/2025

The dam is located near the border of Maharashtra and Karnataka and necessitated the relocation of several villages in the area. There are many reservoirs. The largest one is located near Belgaum in a village named Hajgoli in Maharashtra. The village is approximately 30 km from Belgaum and is a weekend spot for the people of that town.

The lake formed by Tilari dam is a major tourist attraction, it is also said that wild elephants take shelter in the surroundings of Tilari forest. The Tilari Irrigation Project is an inter-state project of Maharashtra and Goa States to utilise water of river Tilari. Tilari river is a west flowing river originating from Sahyadri mountain in Chandgad taluka of Kolhapur district of Maharashtra, crosses Maharashtra State near village Maneri to enter Goa State, where it is popularly known as Chapora, before falling into the Arabian Sea.



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Program Civil Engineering

Semester: VIII

DACOE/PRJ-FRM-07

PRJ-FRM-07 Rev. No: 0
Date:2/2/2025



	G.K. Gujar Memorial Charitable Trust's Dr. Ashok Gujar Technical Institute's, Dr. Daulatrao Aher College of Engineering, Karad. Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA	
	Program Civil Engineering	Semester: VIII
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Site Name :- Rock Garden, Malvan

Location :- Chivla Beach, Malvan

Date :- 21/01/2025

The Rock Garden in Malvan, Maharashtra, is a beautifully landscaped area situated on a rocky shoreline shaped by centuries of waves. Adjacent to Chivla Beach, it offers visitors picturesque views of the Arabian Sea. The garden is adorned with vibrant flowers, intricate rock sculptures, and serene water features, creating a tranquil atmosphere ideal for leisurely strolls, family picnics, or simply soaking in the natural beauty.

The rocks observed in rock garden are basalt and granite.

Waiting on the rocks to capture that one image when the waves go up high was a difficult task, but we did manage to get our picture-perfect snap. The whole experience was chilling. We had good shots of Rock Garden and the adjacent sea.



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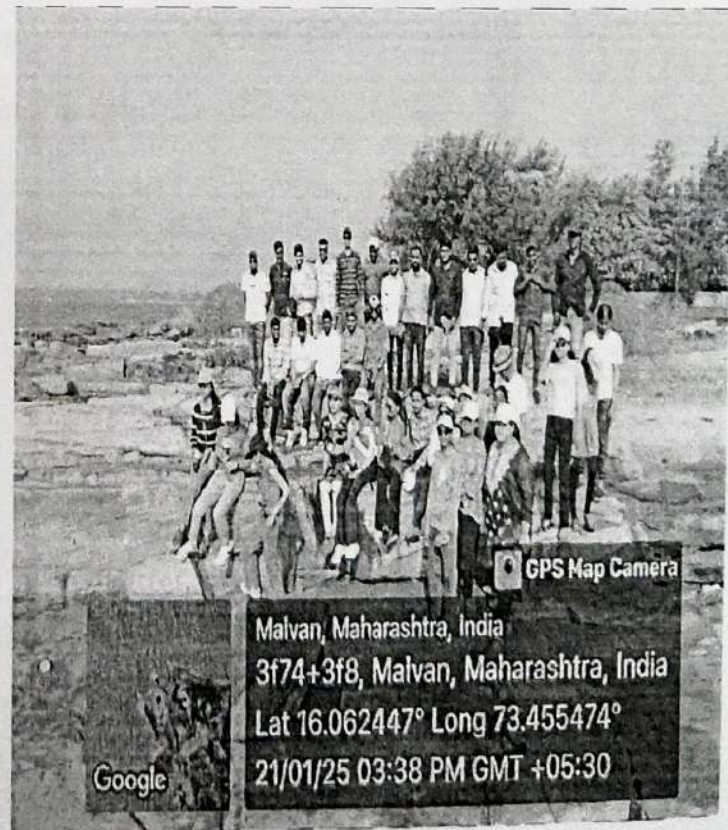
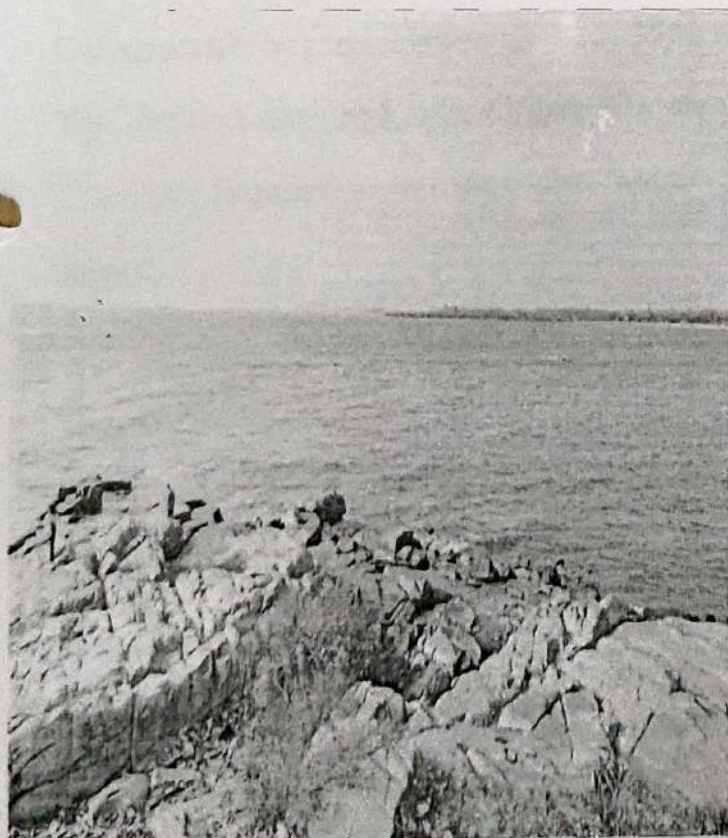
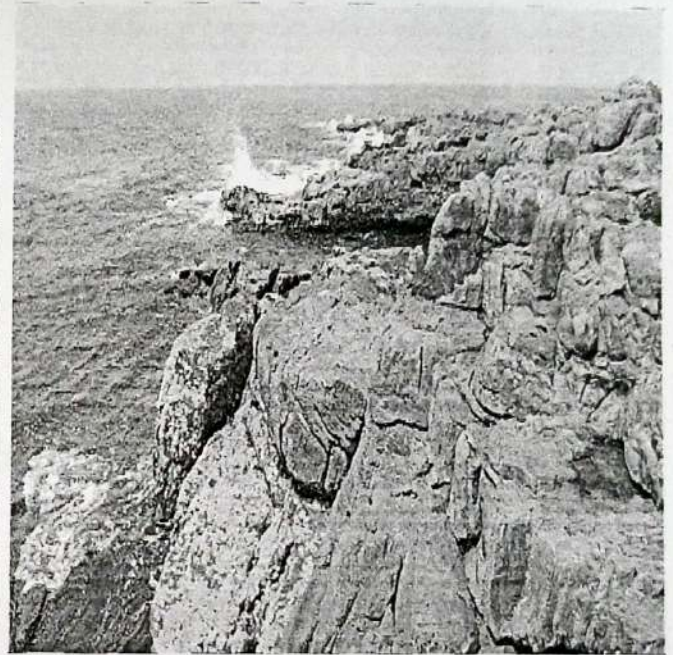
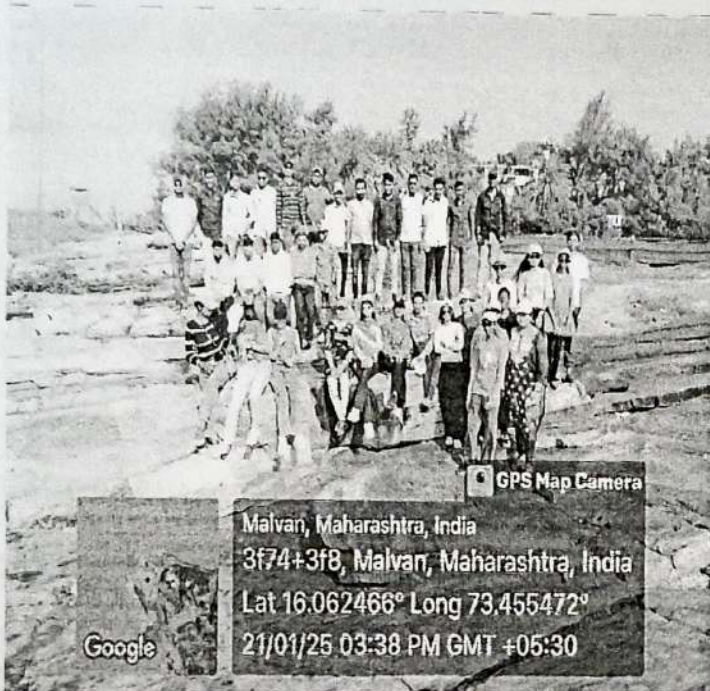
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Site Name :- Sindhudurg Fort

Date :- 21/01/2025

Location:-

Sindhudurg Fort is a historic sea fort in the Arabian Sea, located in Maharashtra, India.

It was built by Chhatrapati Shivaji Maharaj in the 17th century.

Located on an islet in the Arabian Sea

Off the coast of Malvan in the Sindhudurg District

450 kilometers south of Mumbai.

Construction:

Construction began on November 25, 1664 and was completed in 1667

The fort was designed to be difficult for enemies to see from the Arabian Sea

The fort's foundation was built first, and the surrounding rocks were used as a natural barrier

Significance:

A symbol of Maharashtra's maritime heritage

A marvel of military strategy and architectural brilliance

A protected monument under the Archaeological Survey of India

Features: A 48-acre fortress with towering walls, A cleverly concealed entrance, and A picturesque location amidst the vast sea.

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[Chatrapati Shivaji Maharaj] had brought 200 Vaddera people to build this fort. Over 4,000 pounds of lead were used in the casting and foundation stones were firmly laid down. Construction started on 25 November 1664. Built over a period of three years (1664-1667), the sea fort is spread over 48 acres, with a two-mile (3 km) long rampart, and walls that are 30 feet (9.1 m) high and 12 feet (3.7 m) thick. The massive walls were designed to serve as a deterrent to approaching enemies and to the waves and tides of the Arabian Sea. The main entrance is concealed in such a way that no one can pinpoint it from outside.

The number of permanent residents living in the fort has been in decline since its abandonment. Most residents have moved out due to inadequate employment opportunities but some families remain. The fort is closed for tourists during rainy season due to high tides.



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