

A Report on Industrial Visit to CG Project, Lepakshi and Gollapalli reservoir on 08th February, 2026



Industrial Visit to Lepakshi, CG Project Dam & Gollapalli Reservoir 8th February 2026

Organized by: ASCE Student Chapter, Department of Civil Engineering in collaboration with IRC and Waste to Wealth Research Centre

Chief-Patron Dr. N. Vijaya Bhaskar Choudary Founder & Chancellor	Patron Mrs. N. Keerthi Executive Director	Co-Patron Dr. C. Yuvaraj Vice Chancellor (i/c)	Principal Prof. P. Ramanathan
Chief Coordinator Dr. Dipankar Roy, Professor Dean-School of Engineering & ASCE Faculty Advisor	Chief Co Coordinator Dr. Vijayakumar. N Asst. Professor, Hod of Civil	Faculty Coordinators Dr. Nunna Tagore Sai Priya Dr. Sudheer Kumar y Mr. Veeresh B	Student Coordinator M. Dheeraj President of ASCE student chapter

Submitted by:

1. Dr. Nunna Tagore Sai Priya, Assistant Professor, Dept. of Civil Engineering, MITS
2. Dr. Sudheer Kumar Y, Associate Professor, Dept. of Civil Engineering, & Coordinator of the Waste to Wealth Research Centre, MITS
3. Mr. Veeresh B, Assistant Professor, Dept. of Civil Engineering, MITS

Organized by: ASCE Student Chapter, Dept. of Civil Engineering in Collaboration with IRC.

1. Introduction:

The Department of Civil Engineering, Madanapalle Institute of Technology & Science, organized an Industrial Visit for the II and III year students to CG Project, Lepakshi and Gollapalli reservoir, under the ASCE Student Chapter in collaboration with IRC and Waste to Wealth Research Centre. The industrial visit was arranged to enhance practical knowledge and provide field exposure in the areas of irrigation engineering, water resources management, and infrastructure development.

The visit included important sites such as the Chennarayaswamy Gudi Project (CG Project), Lepakshi Temple at Lepakshi, and the Gollapalli Reservoir. The visit to these locations aimed to connect classroom knowledge with real-world engineering applications by offering hands-on exposure to irrigation projects and heritage structures. Through this experience, students gained a deeper understanding of the technical, social, and environmental significance of water resource management and infrastructure development.

2. Objective of the visit

The objective of the industrial visit to the Chennarayaswamy Gudi (CG) Project, Lepakshi Temple, and Gollapalli Reservoir was to provide practical exposure to irrigation systems, reservoir management, and structural engineering concepts.

- To enable students to observe and analyze the hydraulic particulars of the Chennarayaswamy Gudi Project, including reservoir capacity, flood discharge handling, canal distribution systems, and command area management.
- The visit to Lepakshi Temple was intended to expose students to traditional construction techniques and structural engineering principles used in historical monuments.
- The objective of visiting the Gollapalli Reservoir was to study reservoir functioning and irrigation benefits provided to rural areas.

3. Details of the visit

With reference to the stated objective, the Department of Civil Engineering, MITS, Madanapalle organized an Industrial Visit for the II and III year BTech students to CG Project, Lepakshi and Gollapalli reservoir under the ASCE Student Chapter in collaboration with IRC and Waste to Wealth Research Centre. A total of 56 students participated in the visit, including 22 students from II year and 34 students from III year, accompanied by five faculty members – Dr. N. T. Sai Priya, Dr. Sudheer Kumar Y, Mr. Veeresh B, Dr. Vishal Singh Rawat, and other supporting staff. The group departed from Madanapalle Institute of Technology & Science at 7:00 AM in two buses and reached the first destination at 8:30 AM.



The first site visited was the Chennarayaswamy Gudi Project (CG Project). Mr. Veeresh B explained the technical and hydraulic details of the project to the students. This irrigation project is designed to store and distribute water for agricultural purposes in the surrounding region. As displayed on the project board, the Top Bund Level (TBL) is 1937 ft and the Full Reservoir Level (FRL) is 1927 ft. The water spread area extends over 261.24 acres with a free catchment area of 50 square miles. The gross storage capacity of the reservoir is 170 MCFT, of which 158 MCFT is considered useful capacity, benefiting nearly 900 acres of agricultural land. The project is also designed to handle a maximum flood discharge of approximately 31,800 cusecs through its spillway system, thereby ensuring safety during periods of heavy rainfall. The canal system associated with the project includes both left and right side canals that distribute water efficiently to command areas. The left side canal irrigates around 240 hectares with a full supply discharge of 0.42 cumecs, while the right side canal irrigates approximately 110 hectares with a discharge of 0.21 cumecs. Students observed canal bed width, side slopes, velocity of flow, and sluice gate arrangements. This helped in understanding practical aspects of discharge calculation, flow velocity, and canal design principles studied in irrigation engineering.



The next location visited was Lepakshi Temple at Lepakshi, a historically significant monument known for its architectural excellence. Although primarily a heritage site, it provided valuable insights into ancient engineering techniques. The temple, built during the Vijayanagara period, is renowned for its hanging pillar, intricate stone carvings, and monolithic Nandi statue. Students learned about load transfer mechanisms, stone construction methods, and structural stability achieved without modern machinery. The visit also created awareness about heritage conservation and the scientific precision involved in traditional construction.



The final site was the Gollapalli Reservoir, an important irrigation reservoir serving nearby agricultural lands. The reservoir consists of an earthen bund, spillway arrangements, and canal distribution systems. It plays a crucial role in storing seasonal rainfall, controlling floods, recharging groundwater, and supporting farming activities. Observing the reservoir operations helped students understand storage management, sedimentation issues, and water regulation techniques.



During the industrial visit, the students had the opportunity to observe the Kia India manufacturing unit at Penukonda, which is located along the route. It is one of the major automobile manufacturing plants in India and Kia's first production facility in the country. The

plant spans approximately 536 acres and is strategically situated near National Highway 44 along the Bengaluru–Hyderabad industrial corridor. Its establishment in a previously underdeveloped region has significantly contributed to infrastructure growth and industrial development in the Penukonda–Anantapur area.



Although access was limited to the exterior, students observed the large-span steel structures, organized campus layout, and heavy-duty pavement systems, reflecting modern industrial construction practices. The well-planned internal road networks and vehicle storage areas demonstrated efficient logistics and transportation planning. The visit to KIA provided valuable insights into large-scale industrial infrastructure from a civil engineering perspective.

Overall, the visit was highly interactive and educational, strengthening students' practical understanding of civil engineering principles such as water resource management, structural stability, canal design, and industrial site planning. The exposure to real-world engineering practices enhanced their analytical skills and professional awareness. The visit concluded successfully at 5:30 PM, and the students returned safely to MITS College at 8:30 PM on the same day, marking the program as both academically enriching and well-coordinated.

PO's Covered: The industrial visit aligns with NBA-defined **Program Outcomes (POs)** typically adopted by MITS, specifically PO3, PO6, PO7, PO8, PO9, PO10, & PO12.

SDG's: The industrial visit addressed several **United Nations Sustainable Development Goals (SDGs)** through exposure to irrigation projects, reservoir management, heritage conservation, and industrial infrastructure, especially SDGs - 6, 9, 11, 12, 13, 15.



MITS

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE (Deemed to be University under section 3 of UGC Act, 1956)



www.mits.ac.in

Madanapalle-517325, Andhra Pradesh, India.

Attendance:

Attendance for BTech II year students

MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE			
II Year II Semester		B.Tech	Civil Engineering
S.no	Roll no	Name	Signature
1	24691A0115	Harith Poola	
2	24691A0101	Mediurthi Abhinash	M. Syle
3	24691A0102	Mohammed Afried Khan	
4	24691A0103	Archanasopparapa	
5	24691A0104	Shaik Babavali	
6	24691A0106	Bhaskar Vadde	
7	24691A0107	Ramireddy Bhavitha	
8	24691A0108	Peerijolla Chaitrsekhar	P. Kishan Seta
9	24691A0109	Poreddy Charu Kumar Reddy	P. Charu
10	24691A0110	Kalavapalli Cherish	
11	24691A0111	Duggu Hari Kumar	D. Hari
12	24691A0113	Kannemadugu Hasini	
13	24691A0114	Shaik Imran	
14	24691A0115	Jaya Simha Reddy U	
15	24691A0116	Madiga Karthik Babu	M. Karthik Babu
16	24691A0117	Karthik Chakali	C. Karthik
17	24691A0118	Dubbigalla Karthik	D. Karthik
18	24691A0119	Katari Kiran Kumar	
19	24691A0120	Peddareddy Kiran Kumar Reddy	
20	24691A0121	Vempati Lalitha	
21	24691A0122	Mule Madhusudhan Reddy	
22	24691A0123	Kandikarla Madhu Lalitha	
23	24691A0124	Mahesh Narasavaram	
24	24691A0125	Mallath Bhukyar	M. Mallath
25	24691A0126	Allam Manoj	
26	24691A0127	Devarala Monesha	
27	24691A0128	Baitya Moulika	
28	24691A0129	Muavviz Khan Kolimi Mohammad	
29	24691A0130	Nallapareddigari Praneeth Reddy	N. Praneeth Reddy
30	24691A0131	Tatigatta Prathap Reddy	T. Prathap Reddy
31	24691A0132	Kare Praveen Kumar	K. Praveen Kumar
32	24691A0133	Amuthapuri Purushotham	A. Purushotham
33	24691A0136	Ramachandra Amaranadh	R. Amaranadh
34	24691A0137	Shaik Mohammed Rehan Shareef	S. Rehan Shareef
35	24691A0138	Sabir Shaik	
36	24691A0140	Shaik Sadiya Saba	
37	24691A0141	Badvel Mohammad Samiulla	
38	24691A0142	Sulfiya Ansari	
39	24691A0143	Chitte Swathi	
40	24691A0144	Kothana Sutharan	

41	24691A0145	Gowdcheruvu Tharun Kumar Reddy	G. Tharun Kumar Reddy
42	24691A0146	Totlu Shaik Rmd	T. Shaik Rmd
43	24691A0147	Dharavathu Varasi Lakshman	
44	24691A0148	Koneti Venu Gopal Raju	K. Venu Gopal Raju
45	24691A0149	Vempalli Vijayendravarma	V. Vijayendra Varma
46	24691A0150	B Yaswanth	B. Yaswanth
47	24691A0152	Jangala Hyma Varshini	
48	25695A0101	M Bharath Kumar	
49	25695A0102	Bala Heranth Kumar	
50	25695A0103	Kadiri Lakshmi Narasimhulu	
51	25695A0104	Bashala Mounika	
52	25695A0105	Dusaniah Gari Nistha	
53	25695A0106	Besta Rakesh	A. Rakesh
54	25695A0107	Vandari Shivani	
55	25695A0108	Bandi Uday Teja	
56	25695A0109	Golla Venkata Bhanu Prakash	
57	25695A0110	Bhukya Jagannath Naick	B. Jagannath Naick
58	25695A0111	Guda Keerthana	
59	25695A0112	Mulimty Greenshna	
60	25695A0113	U Yaswanth Kumar	U. Yaswanth Kumar

IInd year (34)

MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE			
III Year II Semester		B.Tech	Civil Engineering
S.no	Roll no	Name	Signature
1	23691A0101	Ashraf Ali Syed	A. Ashraf
2	23691A0102	Cheema Lapenta Aznath	C. Lapenta
3	23691A0104	Gundluri Bhargava	
4	23691A0105	Gengireddy Gari Chandana	G. Chandana
5	23691A0107	Mopur Dheeraj Kumar	M. Dheeraj
6	23691A0109	Shaik Farha Taj	S. Farha Taj
7	23691A0110	Paligiri Farooq	P. Farooq
8	23691A0112	Uppara Ganesh Kumar	U. Ganesh Kumar
9	23691A0113	Tummala Gnaneswara	
10	23691A0114	Harshavardhan Reddy Pusa	
11	23691A0116	Thota Hemavadana	
12	23691A0118	Alakunta Kailash	
13	23691A0119	Kandala Kiran Kumar	
14	23691A0120	Kavya Jalpigar	
15	23691A0121	Rajaka Mano Narasimha	R. Mano
16	23691A0122	Esakapalli Meghana	E. Meghana
17	23691A0125	Nymi Teliki	N. Teliki
18	23691A0126	Paul Daniel Prem	P. Daniel Prem
19	23691A0127	Chinthamanu Prasanna Kumar	C. Prasanna Kumar
20	23691A0128	Palyam Prasanth	P. Prasanth
21	23691A0129	S.Praveen Kumar Reddy	S. Praveen Kumar Reddy
22	23691A0130	N Raviya	N. Raviya
23	23691A0131	Sundupalli Rajasekhar	S. Rajasekhar
24	23691A0132	Gaddam Vishnu Varadhan Reddy	
25	23691A0133	Beeneni Raviteja	B. Raviteja
26	23691A0134	Thippagunthala Rekha Divya	
27	23691A0136	Sibyalu Sai Hariteja	S. Sai Hariteja
28	23691A0137	Shaik Mahammed Saif	S. Saif
29	23691A0139	Shaik Syed Shavalli	
30	23691A0140	Sandra Simhadri	
31	23691A0141	Sivakumar Nallagutta	S. Sivakumar
32	23691A0142	Vaddireddy Srechari Reddy	V. Srechari Reddy
33	23691A0143	Roddam Sudarsan	

34	23691A0144	Naruboina Sumanth	
35	23691A0145	Karamala Teja	
36	23691A0146	P Tharun	
37	23691A0147	Yallapalli Tharun Sai	
38	23691A0148	Patam Mohammed Thoufiq	
39	23691A0149	Mechagani Varun Kumar	M. Varun Kumar
40	23691A0150	G Vidyasagar	
41	24695A0101	Sayyed Afrin	S. Afrin
42	24695A0102	Ulindala Amruthavalli	U. Amruthavalli
43	24695A0103	Kayala Anusha	
44	24695A0104	Yemmani Chianna Naganna	
45	24695A0105	Chakala Harsha	C. Harsha
46	24695A0106	Sidde Jhansi	
47	24695A0107	Dudekula Lal Basha	D. Lal Basha
48	24695A0108	Gajulapalli Lokesh	G. Lokesh
49	24695A0109	Gudditi Mahesh Babu	G. Mahesh Babu
50	24695A0110	Korlakunta Manaswitha	M. Manaswitha
51	24695A0111	Pullalarevu Menaka	
52	24695A0112	Ponnapati Murali	P. Murali
53	24695A0113	Rachanna Goud Gari Nataraj	R. Nataraj
54	24695A0114	Dadam Navitha	
55	24695A0115	Elike Pavan Sai	E. Pavan Sai
56	24695A0116	Kondarajugari Prasanth	K. Prasanth
57	24695A0117	Erla Raj Kumar	E. Raj Kumar
58	24695A0118	Reddyvari Sudarshan Yadav	
59	24695A0119	Koyala Susmitha	
60	24695A0120	Agolu Hari Krishna	A. Hari Krishna
61	24695A0121	Pappaka Viswanath	
62	24695A0122	Bole Kedarnath	B. Kedarnath
63	23695A0113	Pasham Mallikarjuna (Rejoined Ay 2025-26)	P. Mallikarjuna
64	20691A0123	P Yuktha Abhishek (Rejoined Ay 2025-26)	P. Yuktha



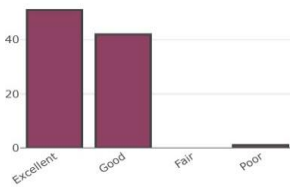
MITS

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(Deemed to be University under section 3 of UGC Act, 1956)
Madanapalle-517325, Andhra Pradesh, India.

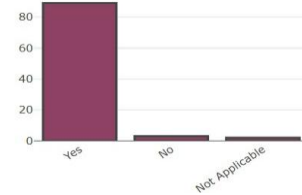
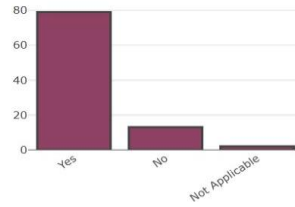


Feedback from Students:

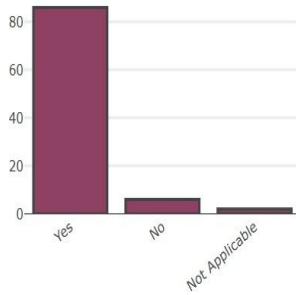
Relevance to curriculum



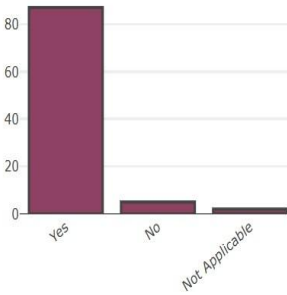
Willingness to share information by the officials at the mess to different facilities for observation/knowledge



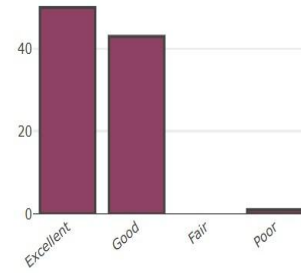
Was the schedule maintained?



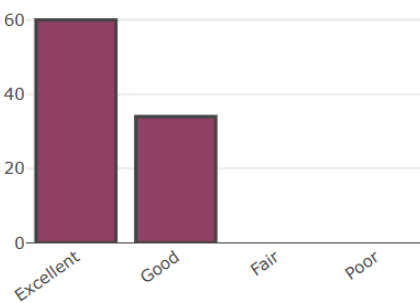
The opportunity given to you to work on real time projects



Hospitality of the industry



Overall usefulness



Do you want more visits like this?

