

REPORT

on

Mine Excursion

:

"MCL Bharatpur Open Cast Project"

Date : 27th March, 2025



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UNIVERSITY

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Empowering Communities...

**Centurion University of Technology and Management,
Odisha, India**

Introduction :

The Department of **Mining Engineering**, School of Engineering and Technology (**SoET**), Centurion University of Technology and Management (**CUTM**), Bhubaneswar Campus, organized a **one-day educational Mine Excursion** to the Bharatpur Open Cast Project (**OCP**) under Mahanadi Coalfields Limited (**MCL**), Talcher Area, Odisha, on **27th March 2025**. The purpose of this academic-industrial engagement was to **expose students** to large-scale surface **mining operations**, site **safety protocols**, and **real-time machinery deployment** in the coal mining sector. A total of **29** B.Tech Mining Engineering students from **6th** and **8th** semesters participated in the excursion, accompanied by **Mr. Rakesh Behera**, Assistant Professor, Department of Mining Engineering. The visit commenced early morning from the university main gate and provided students with an immersive understanding of modern coal mining operations under field conditions.

Objectives :

- To provide practical exposure to open cast mining operations and site management practices.
- To observe the application of heavy earth-moving machinery and blasting techniques.
- To enhance student understanding of mine planning, production, and safety compliance.
- To bridge theoretical knowledge with real-world mining systems in the coal sector.

Key Outcomes :

- **Operational Insight:** Students observed the real-time functioning of drilling, blasting, excavation, and coal loading activities at Bharatpur OCP.
- **Technology Exposure:** The visit enhanced understanding of large-scale HEMM such as draglines, shovels, dumpers, and dozers used in open cast mining.
- **Theory-Practice Linkage:** The excursion reinforced classroom concepts such as slope stability, mine planning, and overburden management.

- **Safety Awareness:** Students learned about on-site safety protocols, environmental control measures, and regulatory compliance in mining operations.
- **Professional Engagement:** Interaction with site engineers and field supervisors helped students understand real-life engineering challenges and career pathways.

Feedback from Participants:

Students found the excursion extremely **enlightening** and practically **valuable**. They were particularly impressed by the scale and coordination involved in coal production, as well as the **strict adherence** to **safety** and **environmental norms**. The experience of walking through **active mining zones**, **witnessing drilling operations**, and **interacting** with **MCL personnel** added depth to their academic understanding. Faculty member emphasized that such visits are vital for developing a practical mindset and industry readiness. **Mr. Rakesh Behera** appreciated MCL's cooperation and recommended frequent mine excursions to enhance field-based learning. Students **expressed interest** in undertaking internships with MCL and exploring research topics in open cast mining technologies.

Glimpses of the Event :







Attendees :

Sl No.	Student Name	Reg. No. (8 th Sem)
1	Abhijit Sahoo	210301190001
2	Priyabrata Samal	210301190002
3	Ankit Singh	210301190003
4	Nipun Majumdar	210301190004
5	Sidharth Kumar Nanda	210301190005
6	Swarnadip Bhattacharya	210301190006
7	Prabhu Prasad Jena	210301190007
8	Manas Ranjan Patra	210301190008
9	Ajay Munda	210301190009
10	Dibyajyoti Routray	210301190010
11	Joy Mishra	210301190011
12	Prashant Patra	210301190012
13	Sayan Chakraborty	210301190013
14	Ayush Aryan Naik	210301190014
15	Durga Madhab Bhoi	210301190015
16	Sanjeeb Kumar Mahakud	210301190016
17	Arka Prabha Mitra	210301190017
18	Rajesh Kumar Panda	210301190018
19	Subhaprakash Jena	210301190019
20	Subham Gorai	210301190020
21	Indradeep Mondal	210301190021
22	Satyabrata Rout	210301190022

Sl No.	Student Name	Reg. No. (6th Sem)
1	Sunny Sahu	220301190001
2	Asish Patra	220301190002
3	Sourav Kumar Mahanta	220301190003
4	Joydeep Maji	220301190004
5	Manoranjan Behera	220301190005
6	Ruph Kumar Sahoo	220301191007
7	Harishankar Sahu	220301120032