

QUARTERLY NEWSLETTER

April - June 2024



FROM THE HOC'S DESK



It gives me immense pleasure to present the Quarterly Report of the CIL Innovation & Incubation Centre, IIT (ISM) Dhanbad. This newsletter contains all the activities of center from April 2024 to June 2024.

The month from April to June 2024 has been marked by a series of events. The Department demonstrated the facilities, products, and equipment of the CII centre to the students, executives and other guest on their visits.

INSIDE THIS ISSUE

- Delegates Visit
- Executive Visit
- Project Activity

Our teams are currently working on the project titled "Slope Stability Analysis Using LiDAR and Drone," aimed at developing an advanced, technology-driven solution for real-time monitoring and assessment of slope stability in mining and geotechnical applications. The project integrates LiDAR-based scanning with drone technology to enhance data accuracy, safety, and efficiency in terrain mapping and stability evaluation.



Delegates Visit



Showcasing the products developed at the CII Centre to the delegates of TATA Steel and IIT (ISM).

The CIL Innovation & Incubation Centre (CII Centre), IIT (ISM) Dhanbad, showcased a range of innovative products and prototypes to the delegates from TATA Steel and IIT (ISM) during their visit. The demonstration highlighted the Centre's ongoing efforts to nurture innovation, research, and entrepreneurship in the mining and industrial technology sectors. Delegates explored various startup-driven solutions and incubation projects developed within the Centre, focusing on areas such as sustainability, automation, and digital transformation. The interaction provided a valuable platform for exchanging ideas, fostering collaboration, and exploring opportunities to translate innovative concepts into impactful industrial applications.





Delegates Visit



Brief demonstration of the facilities of CII Centre Labs and showcasing the products developed in the CIL Innovation & Incubation Centre to the delegates of ECL and CIL

A brief demonstration of the laboratory facilities and showcasing of innovative products developed at the CIL Innovation & Incubation Centre (CII Centre), IIT (ISM) Dhanbad, was organized for the delegates from Eastern Coalfields Limited (ECL) and Coal India Limited (CIL). The session aimed to familiarize the delegates with the Centre's state-of-the-art infrastructure, research capabilities, and the wide range of technologies and prototypes developed under its incubation initiatives. Through interactive discussions and demonstrations, the event highlighted the Centre's role in fostering innovation, promoting startup culture, and driving technological advancements to address real-world challenges in the mining and industrial sectors.





Executives Visit



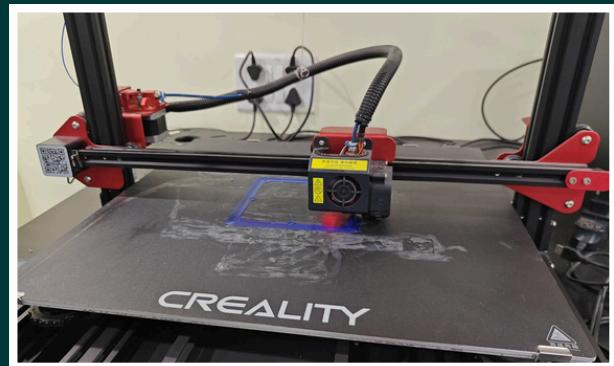
Demonstration of the facilities of Labs, and showcasing the products developed in the CIL Innovation & Incubation Centre to the Executives of OMC during the CPD program at TexMin, IIT (ISM) Dhanbad

A demonstration of the laboratory facilities and showcasing of innovative products developed at the CIL Innovation & Incubation Centre (CII Centre), IIT (ISM) Dhanbad, was conducted for the executives of Odisha Mining Corporation (OMC) during the Continuing Professional Development (CPD) program organized at TexMin, IIT (ISM) Dhanbad. The session aimed to provide participants with a comprehensive understanding of the Centre's role in promoting research, innovation, and startup incubation in the mining and allied sectors. Executives were introduced to various cutting-edge prototypes and technologies developed by incubated startups, reflecting the Centre's commitment to advancing sustainable and technology-driven solutions for the mining industry. The event also fostered meaningful discussions on potential areas of collaboration between academia, industry, and innovation ecosystems.





Project Activities



Our teams are working on project "Slope stability analysis using lidar and drone"

Our teams are currently working on the project titled “Slope Stability Analysis Using LiDAR and Drone,” aimed at developing an advanced, technology-driven solution for real-time monitoring and assessment of slope stability in mining and geotechnical applications. The project integrates LiDAR-based scanning with drone technology to enhance data accuracy, safety, and efficiency in terrain mapping and stability evaluation.





Team Profile



Prof. R. K. Sinha
Head of the Centre
CII Centre



Mr. Rahul Raj
Executive Officer
CII Centre



Mr. Deepak Kumar
Technical Assistant
CII Centre



Mr. Binod Kumar
Technical Assistant
CII Centre



Mr. Vimal Kr. Mahato
Junior Technician
CII Centre



Mr. MD. Shourab
Junior Technician
CII Centre



Mrs. Arti Kumari
Office Assistant
CII Centre



Mr. Rohit Kr. Goswami
Young Professional
CII Centre



Mr. Neetish Raj
Young Professional
CII Centre