



Quarterly Report

JANUARY - MARCH 2026



CIL Innovation & Incubation Centre IIT ISM (Dhanbad)





FROM THE DESK OF HOC

It gives me immense pleasure to present the Quarterly Report of the CIL Innovation & Incubation Centre, IIT(ISM) Dhanbad, highlighting the key activities and achievements for the period January to March 2026. Over these three months, the Centre has carried out several activities that helped strengthen our innovation ecosystem. During this quarter, the Centre's facilities, products, and advanced equipment were showcased to students, industry professionals, and visiting guests. The Centre also completed the installation and demonstration of the Software Defined Radio (SDR) system to enhance the technical infrastructure and the startup support system.

Major highlights of the quarter include programs such as the Skill Development Program, the pre-incubation program, and a two-day workshop on Virtual Reality (VR). Under the Entrepreneurship and Leadership Development Program - Cohort 2.0, several sessions were conducted, including Design Thinking, "Entrepreneurship and Entrepreneurial Mindset: Where do ideas come from", mentoring sessions, "Entrepreneurship & Innovation in India", and the GTM Mastery Session. All these sessions were designed to help participants better understand India's startup ecosystem.

I am also delighted to share that the centre has achieved a milestone by generating a revenue of ₹3,55,000/- under the Entrepreneur Excellence Program (E2P) - Cohort 1.0 in collaboration with Moonpreneur India Pvt. Ltd.

The physical verification of assets and stores for the financial year 2024-2025 was successfully conducted at the centre, ensuring proper documentation, accountability, and efficient resource management.

During the quarter, three startup companies were also pre-incubated at the CII Centre, reflecting the Centre's continued efforts to support innovation and entrepreneurship.

Additionally, the annual performance review of the employees of the Centre for 2024-2025 was conducted on 25th March 2026. Team members shared their work and key achievements, making it a good opportunity to reflect on progress and the plan for the year ahead. The Centre's products were also displayed at the IITB-Monash Research Academy, offering a wider platform to present our work and connect with the research community.

These activities show the Centre's continued efforts toward innovation, industry collaboration, and skill development. I sincerely thank all partners, experts, participants, and the Centre team for their valuable support.

Prof. Rabindra Kumar Sinha
Head of the Centre
CIL Innovation & Incubation Centre
IIT(ISM) Dhanbad



Brief Demonstration of the State-of-the-Art Laboratories and the Innovative Products Developed at the CIL Innovation & Incubation Centre to the Delegates of the CMPDI.

DELEGATES' VISIT

The CIL Innovation & Incubation Centre, IIT (ISM) Dhanbad, had the pleasure of hosting a delegation from CMPDI Ltd. It was a great opportunity to showcase the labs and the innovative products and solutions developed at the Centre. It reflected the centre's focus on practical research and technology-driven solutions.



It was a privilege to welcome Shri Nripendra Nath, Director (Technology/RD&T), CMPDI Ltd., and Shri Milan Sen, General Manager (S&T), CMPDI Ltd. The interaction was very engaging, with meaningful discussions on research, new technologies, and how ideas can be turned into real-world applications for industry.



Such interactions highlight how important it is for industry and academia to work together. It helps explore new ideas, build collaborations, and create opportunities for research, technology development, and startup growth, especially in the mining and its allied sectors.



Skill Development Program (SDP)



“Two Days Skill Development Program on Integrated Test-Measurement, Prototyping, FPGA, and SDR Platform for Mining Engineering at the CIL Innovation & Incubation Centre, IIT (ISM) Dhanbad”

SKILL DEVELOPMENT



Certificate Distribution Program

The program ended with a Certificate Distribution Ceremony, where participants were recognized for their active involvement and successful completion.

80+
REGISTRATION

The session was well attended and highly supported through the registration of 80 participants. This showed a strong interest among participants in gaining hands-on experience in test, measurement, and prototyping technologies.

The CIL Innovation & Incubation Centre, IIT (ISM) Dhanbad, conducted a two-day Skill Development Program focused on integrated test and measurement, prototyping, FPGA, and SDR platforms for mining engineering students. The sessions were designed to be practical, giving participants hands-on experience with tools and technologies commonly used in the industry. The program also helped students connect classroom learning with real-world applications, reflecting the Centre's focus on practical learning and innovation.

Pre-Incubation Program (PIP)

PROJECT PROPOSAL EVALUATION FOR PRE- INCUBATION PROGRAM (PIP) AT THE CIL INNOVATION & INCUBATION CENTRE, IIT (ISM) DHANBAD

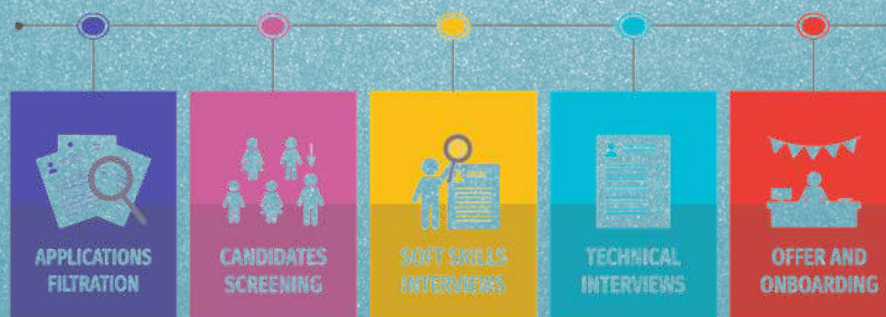


On 19 January 2025, from 6:30 PM onwards, the CIL Innovation & Incubation Centre, IIT (ISM) Dhanbad, conducted the Technical and Economic Evaluation of project proponents under the Pre-Incubation Program.

The evaluation provided a platform for aspiring innovators and early-stage entrepreneurs to present their ideas, share their progress, and receive feedback from an expert panel. The session featured clear presentations, interactive discussions, and practical suggestions that can help participants move forward in their startup journey.

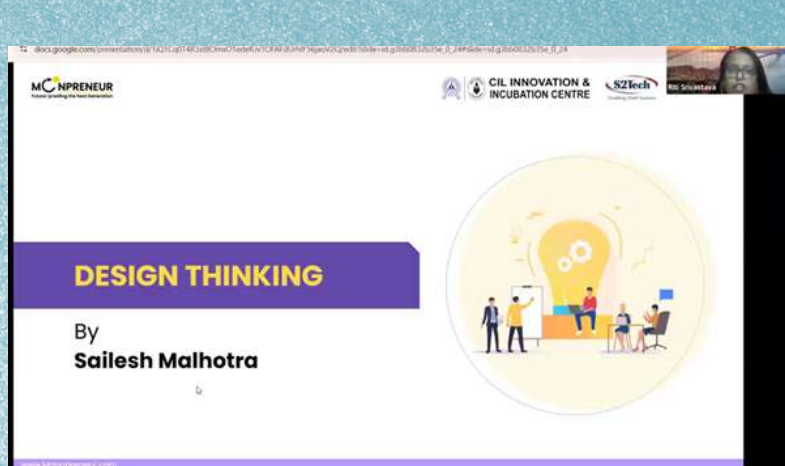
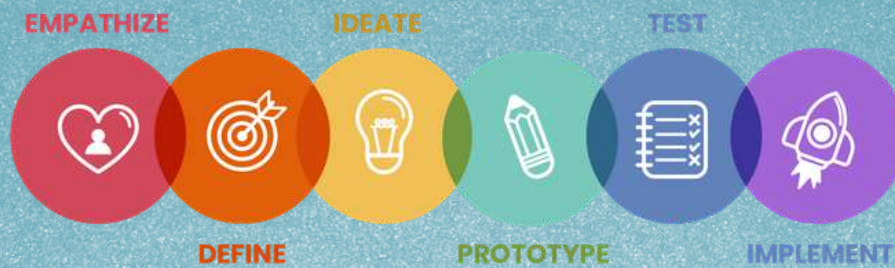
Two startup ideas were recommended for seed funding by the Standing Project Evaluation Committee (SPEC) of the CII Centre.

We thank the evaluation committee, mentors, and all participants for their involvement and contribution to making the program meaningful and successful.



Design Thinking Session (DTS)

Design Thinking Session Successfully Concluded under Entrepreneurship and Leadership Development Program Cohort 2.0



A Design Thinking Session was conducted as part of the Entrepreneurship and Leadership Development Program (Cohort 2.0) in collaboration with Moonpreneur India Pvt. Ltd. The session was aimed at helping students understand how ideas can be shaped into practical and meaningful solutions.

Participants were introduced to the main stages of design thinking, such as identifying problems, understanding user needs, generating ideas, building prototypes, and testing solutions. The session included interactive discussions and guided activities, which gave students a clearer understanding of entrepreneurial thinking as well as leadership skills.

The focus remained on a user-centric approach, encouraging participants to connect their ideas with real-world applications. Such efforts highlight the Centre's ongoing work in promoting innovation, critical thinking, and an entrepreneurial mindset among innovators across the country.

DELEGATES' VISIT

Visit of Delegates from Hindustan Zinc Limited (Vedanta Group)

The CIL Innovation & Incubation Centre, IIT (ISM) Dhanbad, hosted a delegation from Hindustan Zinc Limited (Vedanta Group). During the visit, the Centre showcased its laboratory facilities, the products, and the solutions developed under the umbrella of the CII Centre.



The delegates inquired about the pre-incubated projects of the CII Centre and provided valuable feedback. They also interacted with the pre-incubatees and provided the key knowledge and the requirements of Industry 4.0.





INSTALLATION AND DEMONSTRATION OF SOFTWARE DEFINED RADIO (SDR)



The installation and demonstration of the Software Defined Radio (SDR) system were completed at the CII Centre. The setup is expected to support users working on different projects by giving them better exposure to signal processing and communication techniques.

The session included setting up the hardware, configuring the software, and carrying out basic calibration steps. During the demonstration, participants observed real-time signal transmission and reception, along with spectrum analysis. They also got a practical understanding of how modulation and demodulation take place.

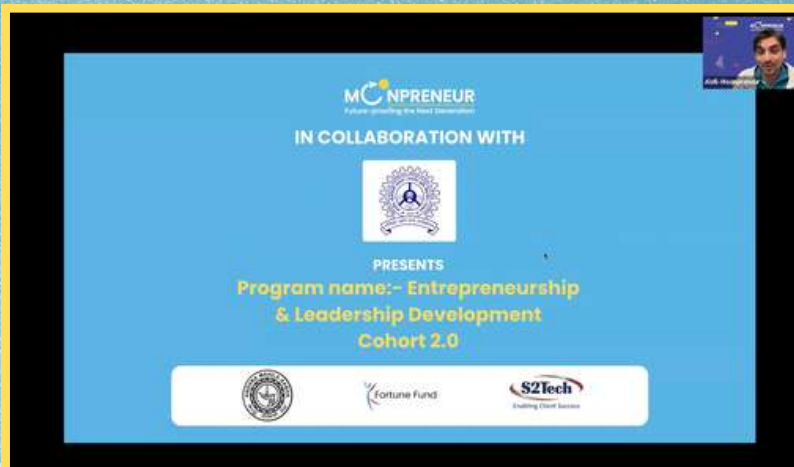


Overall, the session provided a useful hands-on experience, combining basic concepts with practical learning on SDR systems.

ENTREPRENEURSHIP AND LEADERSHIP DEVELOPMENT PROGRAM - COHORT 2.0

Entrepreneurship AND entrepreneurial mindset: Where do ideas come from

Session on “Entrepreneurship and Entrepreneurial Mindset: Where Do Ideas Come From” was Successfully Concluded under the Entrepreneurship and Leadership Development Program - Cohort 2.0



The session was conducted in collaboration with Moonpreneur India Pvt. Ltd. The aim of the session was to encourage all the participants' mindsets in the field of innovation and to generate different ideas to solve a problem.



During the session, participants learned about the startup ecosystem, leadership skills, and the mindset needed to fulfill their entrepreneurial goals.

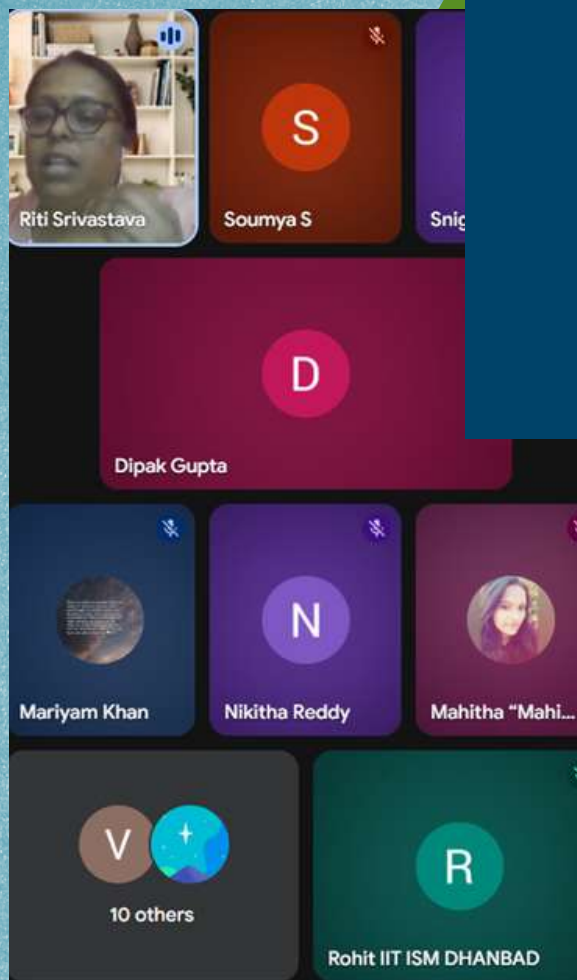
Sessions like these are demonstrative of the Centre's ongoing efforts to build the skills of the participants and prepare them to handle situations with ease during real-life scenarios.

ENTREPRENEURSHIP AND LEADERSHIP DEVELOPMENT PROGRAM – COHORT 2.0

MENTORING SESSION

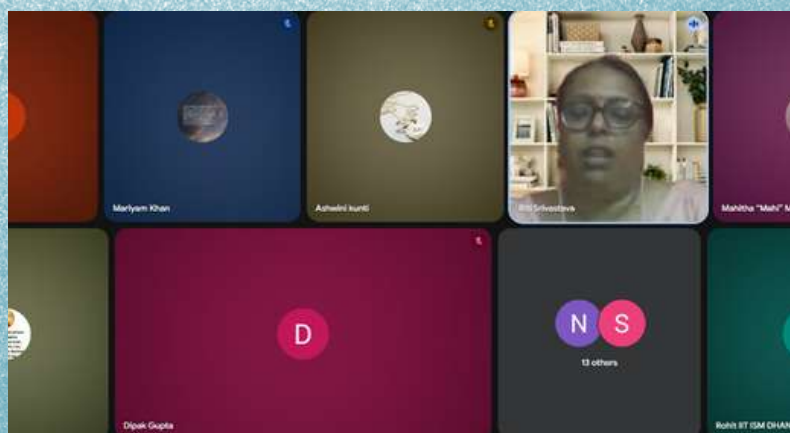


Mentoring Session Successfully Concluded under Entrepreneurship and Leadership Development Program - Cohort 2.0



A mentoring session was successfully conducted under the Entrepreneurship and Leadership Development Program – Cohort 2.0, in collaboration with Moonpreneur India Pvt. Ltd. During the session, all the participants presented their startup ideas in front of their assigned mentors.

The mentors provided valuable feedback and helped them to improve their ideas and prepare a business model. The participants also learned the key concept that might help them to grow their startups.



These types of programs demonstrate the Centre's effort to support innovation and help young entrepreneurs to turn their ideas into businesses.

REVENUE GENERATION

Through

ENTREPRENEUR EXCELLENCE PROGRAM (E2P) – COHORT 1.0

ACHIEVEMENT

The Centre has generated a revenue of ₹3,55,000/- under the Entrepreneur Excellence Program (E2P) - Cohort 1.0, in collaboration with Moonpreneur India Pvt. Ltd.

This achievement shows the centre's progressive efforts towards promoting entrepreneurship and supporting startup activities, and monetizing the efforts.

These types of cohort programs helped the innovators to think, generate, and improve their ideas, and develop a practical solution that is useful for the industry.



A NEW STARTUP COMPANY IS PRE-INCUBATED AT THE CII CENTRE

M/s Vishrak Engineering Private Limited is pre-incubated with a project titled “Slope Stability Analysis using LiDAR and Drone Technology.”



The CIL Innovation & Incubation Centre (CII Centre), IIT (ISM) Dhanbad, added a new pre-incubatee, Mr. Rakesh Kumar Yadav of Vishrak Engineering Pvt. Ltd. His project has been selected by the Standing Project Evaluation Committee (SPEC) for pre-incubation, along with seed funding support of up to ₹5.0 lakh.

In this project, LiDAR and drone-based aerial surveys are used to monitor the slope stability of the dump in the mining areas. The system gathers high-resolution data points and builds a detailed 3D model of the slope surface. The system also helps to detect early warning signs of slope failure.

This technology is useful for mining and infrastructure projects, where slope stability is very important for safety. Using a drone with LiDAR helps in monitoring slopes in real time, improving geological checks, and making better decisions.

Including this project in the Centre's incubation program shows its effort to support technology-based startups and promote new ideas to solve industry challenges.

M/s Diagnovate Private Limited is pre-incubated with a project titled “Kaere: Non-invasive diagnostics for Diabetes and respiratory health in mines”



The CIL Innovation & Incubation Centre (CII Centre), IIT (ISM) Dhanbad, added a new pre-incubatee, Mr. Achyut Agrawal of Diagnovate Pvt. Ltd. His project has been selected by the Standing Project Evaluation Committee (SPEC) for pre-incubation, along with seed funding support of up to ₹5.0 lakh.

In this project, Kaere is used as a non-invasive breath-based diagnostic platform that can measure both blood glucose levels and lung health accurately from exhaled breath.

The innovative aspect of this project is the development of a portable, affordable, and multi-disease breath analyzer that helps in overcoming the challenges of pain and compliance associated with monitoring diabetes patients while enabling screening for respiratory diseases including asthma, COPD, tuberculosis, and mining-associated lung diseases. By combining the use of dual sensor hardware and predictive analytics, Kaere seeks to convert breath to a diagnostic report.

The inclusion of this project in the Centre’s incubation program reflects its commitment to supporting technology-driven startups and encouraging innovative solutions to industry challenges.

M/s Augsidius Health Technologies Private Limited is pre-incubated with a project titled “Augmented Intelligence System for Rapid Decision Support of Doctors - Clinestra Mine Care Pathway - Connecting Screening, Doctors, and Care Continuity powered by Artificial Intelligence”



The project “Clinestra – MineCare Pathway” by Dr. Akhila Kosuru of Augsidius Health Technologies Private Limited has been selected by the Standing Project Evaluation Committee (SPEC) for pre-incubation along with seed funding support of up to ₹5.0 lakh under the incubation program of the CIL Innovation & Incubation Centre.

The project focuses on improving healthcare management for mining workers and their families, who face respiratory diseases, chronic illnesses, and other occupational health issues. It aims to address challenges such as non-standardized health screening, paper-based documentation, limited health records, and dependence on manual healthcare processes across mining areas.

To address these challenges, the project introduces “Clinestra – MineCare Pathway,” a digital healthcare and documentation platform designed to improve health screening, record management, and continuity of care. The platform features AI-enabled health screening, voice-enabled digital documentation, doctor-defined care plans, AI-supported patient guidance, and structured follow-up systems.

The addition of this project to the Centre’s incubation program highlights its continued support for technology-based startups and innovative solutions for industry-related challenges.

PHYSICAL VERIFICATION OF ASSETS AND STORES CONCLUDED FOR FY 2024–2025



On February 27, 2026, the physical verification of all assets and stores of the CIL Innovation & Incubation Centre for the financial year 2024-2025 was successfully conducted. The process was done to keep proper records, ensure responsibility, and maintain correct details of both consumables and non-consumable items. This helps to keep things transparent and manage the Centre's resources well.



For this verification process, a physical verification committee was formed, which includes both internal and external members. Including external members is important because they give a fresh and fair view. This process shows the Centre's commitment to transparency and proper management of its assets. It also helps in the smooth functioning of the Centre's laboratories and initiatives.



VISIT OF DELEGATION FROM COAL INDIA LIMITED

The CIL Innovation & Incubation Centre at IIT (ISM) Dhanbad got the privilege to welcome a delegation from Coal India Limited (CIL). During their visit, the demonstration of the products developed at the centre was given, as well as the labs and infrastructure of the centre were also showcased.



The Centre was pleased to host Shri Sudip Maiti, General Manager (Min)/Head of Department (Corporate Planning), CIL, and a GB member of the CII Centre, along with Shri Sumit Kumar Jha, Manager (Environment)/CP, CIL, and a SPEC member of the CII Centre.

During their visit, we had a useful discussion on research and development, new technologies, and ways to work more closely between industries and academia.

STUDENTS VISIT AND DEMONSTRATION AT THE CII CETNRE LAB

The centre had the pleasure of showcasing the laboratories and innovative products developed at the CIL Innovation & Incubation Centre to school students as part of Sankalp Yatra, along with candidates of the Assistant Mine Surveyor course under the PMKVY 4.0 scheme.



The visit provided an engaging platform to inspire young minds and offer practical exposure to emerging technologies and innovations.

ENTREPRENEURSHIP AND LEADERSHIP DEVELOPMENT PROGRAM - COHORT 2.0

ENTREPRENEURSHIP AND INNOVATION IN INDIA

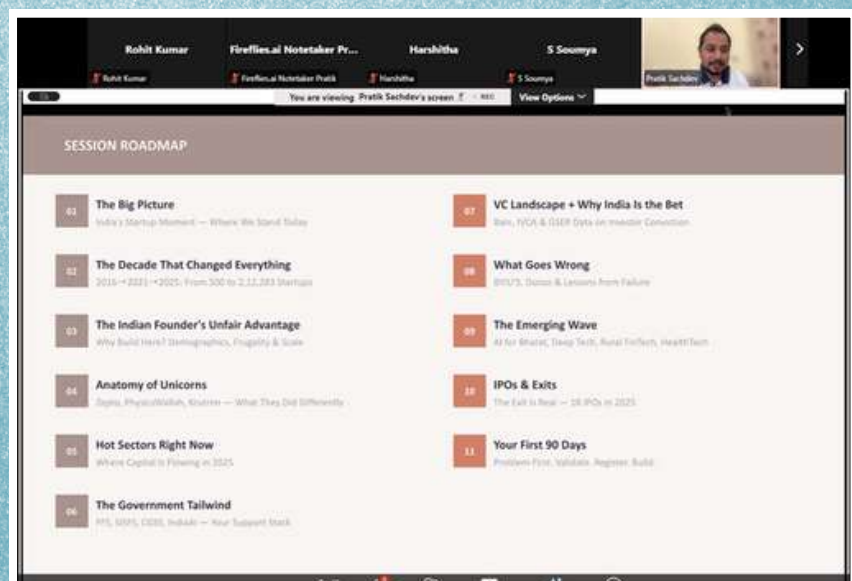
Session on “Entrepreneurship and Innovation in India ” was Successfully Concluded under the Entrepreneurship and Leadership Development Program - Cohort 2.0



The session was conducted in collaboration with Moonpreneur India Pvt. Ltd. The aim of the session was to give knowledge to participants about India's startup moments, the anatomy of a unicorn, and other ideas to become a successful entrepreneur.

During the session, the rise and fall of different startups was also discussed, so the young entrepreneur can learn a lesson from the failure. Topics like the hot sector right now, the emerging wave, and IPO's & Exits were also discussed during the session.

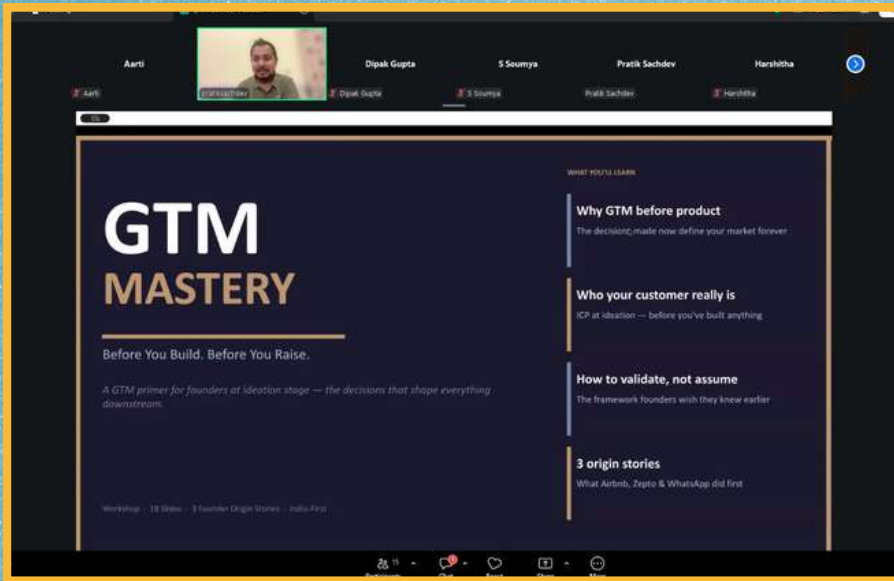
Sessions like this are demonstrative of the Centre's ongoing efforts to prepare young and dynamic innovators and can help them fulfil their dream of becoming successful entrepreneurs.



ENTREPRENEURSHIP AND LEADERSHIP DEVELOPMENT PROGRAM - COHORT 2.0

GTM MASTERY

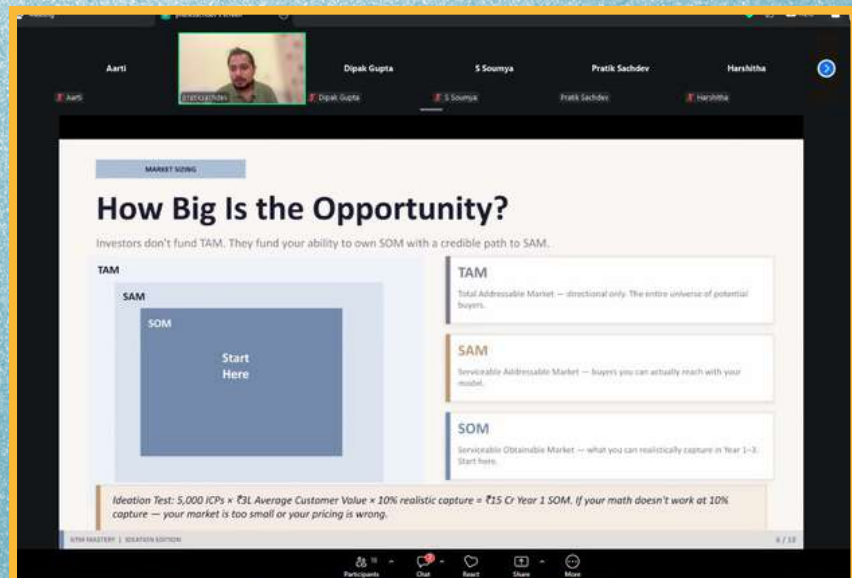
Session on “GTM MASTERY” was Successfully Concluded under the Entrepreneurship and Leadership Development Program - Cohort2.0



The session was conducted in collaboration with Moonpreneur India Pvt. Ltd. The aim of the session was to help participants understand how to take a product to the market in the right way.

During the session, different go-to-market strategies were discussed, including how to identify the right audience, plan product launches, and choose the best channels to reach customers. Real examples were also shared to make the concepts easy to understand. Participants also learned about pricing, positioning, and how to build a strong market presence. The session was interactive and gave useful insights that can be applied in real startup journeys.

Sessions like these shows the Centre’s continuous efforts to guide young innovators and help them move closer to building successful ventures.

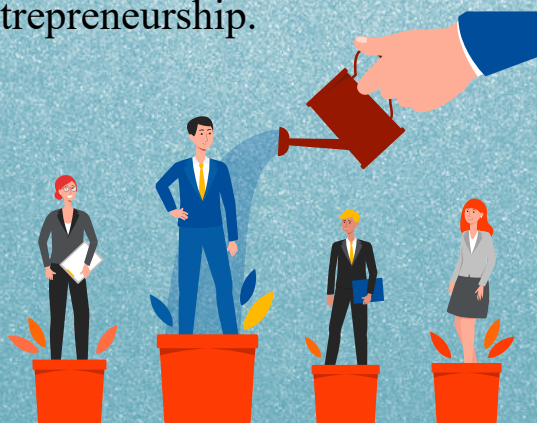


STUDENT VISIT AND DEMONSTRATION AT THE CII CENTRE LABS

NURTURING YOUNG TALENTS



A brief demonstration of the facilities at the CII Centre, along with a showcase of the innovative products developed at the CIL Innovation & Incubation Centre, was organized for the students of M.Tech (Mining Engineering) of IIT(ISM). The visit provided valuable exposure to cutting-edge technologies, research facilities, and innovation-driven projects, encouraging them to develop curiosity and interest in science, technology, and entrepreneurship.



DELEGATES' VISIT

VISIT OF DELEGATES FROM DEFENCE RESEARCH AND DEVELOPMENT ORGANISATION (DRDO)



The CIL Innovation & Incubation Centre at IIT (ISM) Dhanbad hosted a delegation from the Defense Research & Development Organisation (DRDO) Bangalore. During their visit to the centre, they were given a tour of the lab, models that were being worked on, and also got an insight into startups developed through different incubation programmes.

Delegates also went through various projects of startups, which mostly include sustainability, automation, and digital technologies. This visit provided delegates with ample opportunity for discussions and exchanging ideas, with VR being the topic of discussion.

WORKSHOP

"Two Days Workshop on Virtual Reality (VR)"

The program got a very good response, with more than 70 students registering. It showed that participants were really interested in learning and trying out these technologies in a practical way.



The CIL Innovation & Incubation Centre, IIT (ISM) Dhanbad, conducted a two-day workshop on Virtual Reality (VR). The workshop helped participants understand the basics of VR and how it is used in real-life situations.

During the sessions, participants got the opportunity to try VR tools, watch live demonstrations, and understand how virtual environments are created. The workshop was interactive and provided hands-on exposure, helping participants relate their learning to real-world applications. It also highlighted how VR can be used in different fields, including mining and engineering.



The program ended with a certificate ceremony, where participants were recognized for completing the workshop and taking an active part in the sessions.

REVIEW MEETING

Employee Performance Review for the year 2025-2026

The performance review of the employees of the CII Centre for the year 2025-2026 was conducted on 25th March 2026. As part of the process, all team members shared a summary of their achievements through presentations.



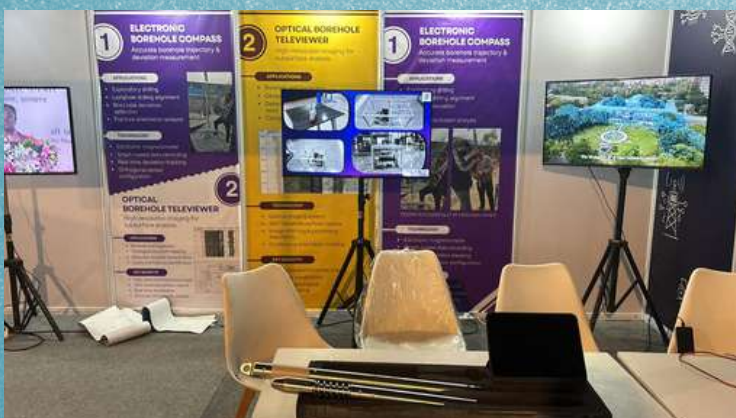
The review provided a good opportunity to look back at the work done during the year, discuss progress, and highlight important contributions. It also helped in understanding areas of improvement and planning for the coming year.

DISPLAY OF CII CENTRE PRODUCTS AT IITB-MONASH RESEARCH ACADEMY

HIGHLIGHTING CENTRES' INNOVATION ON A GLOBAL PLATFORM



The CII Centre got an opportunity to showcase its products at the IITB-Monash Research Academy. The visitors showed interest and appreciated the efforts of the innovator who developed these products. It was also a proud moment for the team to present their work to a research and academic audience.



This experience helped us showcase the Centre's work and also opened up chances for future collaboration and learning. It was a positive step to take our ideas to a larger audience.

OUR TEAM

“We operate from 9:00 AM to 10:00 PM on all days
except declared holidays”



Prof. R.K Sinha
Head of the Centre



Mr. Rahul Raj
Executive Officer



Mr. Deepak Kumar
Technical Assistant



Mr. Binod Kumar
Technical Assistant

OUR TEAM

“We operate from 9:00 AM to 10:00 PM on all days
except declared holidays”



Mr. Vimal Kr. Mahato
Junior Technician



Mr. MD. Shourab
Junior Technician



Ms. Arti Kumari
Office Assistant



Mr. Rohit Kr. Goswami
Young Professional



Mr. Neetish Raj
Young Professional