



ANNUAL NEWSLETTER

APRIL 2025-MARCH 2026



**CIL Innovation &
Incubation Centre**
IIT ISM (Dhanbad)



INDEX

S.NO	SECTION	IMAGE	PAGE NO.
1	HOC's Message		1
2	Achievements		2-8
3	Pre-Incubation & Ongoing Project		9-13
4	Programs, Workshop and Sessions		14-26
5	Delegate and Student Visits		27-37
6	Other Activities		38-44
7	Our Teams		45-46



FROM THE DESK OF HOC

The Centre is actively engaged in promoting innovation in the mining and allied sectors through various activities. Engaging young innovators in design thinking, collaborating with entities to provide external support to our innovators, and organising skill development programs are among the activities that propel our innovation initiatives.

Some of the milestones achieved during the year include the filing of a patent on AccuDepthPro. M/s PinnacleDepth Mining and Services Pvt. Ltd. reported a turnover of ₹14.76 crore during this period. In addition to the said milestones, one of our collaborating partners, M/S TechX Earth Space Pvt. Ltd., secured the First Runner-Up position for its CO₂ Storage Solutions. The Centre also showcased its product at the IITB–Monash Research Academy, helping reach a wider research audience.

During the year, three startup companies were also pre-incubated at the CII Centre. In addition, the ongoing project “AccuDepthPro – Device for Finding the Depth Profile of Trenches with Super-Accurate Location” continued to make progress, reflecting the Centre’s continued efforts to support innovation and entrepreneurship.

Several workshops were organised during the year, covering topics such as Software Defined Radio (SDR), Field Programmable Gate Arrays (FPGA), and prototyping. Cohort 2.0 was conducted in collaboration with Moonpreneur India Private Limited under the Entrepreneurship and Leadership Development Program. To promote creative thinking among students, an Ideathon and Entrepreneurship Support Program (ESP) was also organised, which generated revenue of ₹3,35,000.

The Centre is proud to host delegates from organisations such as CIL, CMPDIL, BHEL, and DRDO, as well as students from local communities. Interacting with the delegates enhances our understanding of industry pain points, enabling us to think innovatively and provide solutions. The Centre also showcased its facilities to participants from Sankalp Yatra and PMKVY 4.0, mostly students from nearby schools. Participants gained hands-on exposure to state-of-the-art technologies and facilities available at the Centre, equipping them with updated knowledge and skills for innovative thinking and skill development.

In addition, an annual performance review was conducted to assess progress and plan future activities, and the physical verification of assets and stores for FY 2024–2025 was also concluded.

Overall, these efforts supported innovation, encouraged new startups, and strengthened the link between industry and academia.

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



ACHIEVEMENTS



Patents & IPR

AccuDepthPro

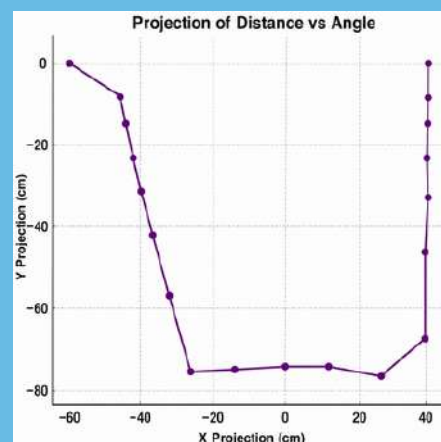
ACCUDEPTH PRO: PATENT FILED FOR ADVANCED TRENCH DEPTH PROFILING DEVICE (Ref no. - PSD/PAT/1687)



A prototype for mapping the super-accurate trench profile has been developed in-house at the CII Centre. It is designed to capture 3D data using a combination of LiDAR scanning and RTK positioning. This helps improve planning and analysis in mining operations. The patent has been applied for the said invention. This step is a declaration of the device's new features and securing its design, technology, and applications, from an aspect that ensures that they are legally protected. Such a move demonstrates our commitment to developing unique technologies and protecting intellectual property for production and wider usage in the future.



Longitude	77.73312100		
Latitude	29.28174000		
Altitude	191.417 m		
Altitude (msl)	229.515 m		
TTFF			
Fix Mode	3D/FIXED		
3D Acc. [m]	0	0.02	0.1
2D Acc. [m]	0	0.01	0.1
PDOP	0	1.2	5
HDOP	0	0.6	5
Satellites			



REVENUE GENERATION

Through

ENTREPRENEUR EXCELLENCE PROGRAM (E2P) - COHORT 1.0



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 are useful for the industry.



Incubatee Turnover Milestone



Our Incubatee, M/s Pinnacle Depth Mine Management & Services Pvt Ltd., has achieved a turnover of ₹14.76 crores in the previous Financial Year.

Our pre-incubated startup, M/s Pinnacle Depth Mine Management & Services Pvt. Ltd., has achieved an impressive turnover of ₹14.76 crores in the previous financial year. This milestone reflects the company's strong growth, operational excellence, and commitment to delivering innovative solutions in the mining sector. The achievement also highlights the success of the incubation support provided by the CIL Innovation & Incubation Centre in nurturing high-potential startups.

 PINNACLE DEPTH MINE MANAGEMENT SERVICES PVT. LTD. FIRST FLOOR, H.NO. 759, BHAISASOOR, NEAR PWD OFFICE, RANCHI ROAD, BIHAR SHARIF, NALANDA, BIHAR - 803101			
GSTIN No. 10AANCP2888F1ZB		CIN: U72900MH1995PLC095643	
PAN No. AANCP2888F			
Details of work order of M/s Pinnacle Depth Mine Management & Services Pvt Ltd Year ending 2024-25.			
Company Name	Work Order Date	Amount	Order Details
Mangalam CoalFeild Pvt Ltd	10/08/2024	₹ 68,23,740/-	Dewatering
Eageldeep PB Dhanbad Coal Pvt Ltd	26/08/2024	₹ 14,00,00,000	Dewatering
R. K Coal Mine Pvt Ltd.	12/12/2024	₹ 1,98,955/-	Planning and Execution of 100M Depth 14" Borehole and insert HDPE pipe with proper clamping and all fittings; Underground mines Salanpur
Rudraksh Enterprises	25/12/2024	₹ 6,00,000/-	
Tata Steel	18/06/2025	₹ 2,10,00,000/-	Pending
Total		₹ 16,86,22,695/-	




Sincerely,
Mr. Santu Kumar
Project Head
Ex-AM (Operation) Hindustan Zinc Limited
B.Tech Mining Engineer (IIT ISM Dhanbad)
Pinnacle Depth Mine Management & Service Private Limited
Mob: 6200224594



Awards & Recognition



M/s TechXEarthSpace Pvt Ltd, was awarded the First Runner Up position for providing a conceptual solution on PS-2 “Geological storage of captured CO₂ in the coal-bearing regions of India



M/s TechXEarthSpace Pvt. Ltd. was awarded the First Runner-Up position for presenting an innovative solution under Problem Statement PS-2, titled “Geological Storage of Captured CO₂ in Coal-Bearing Regions of India.” This recognition highlights the company’s commitment to developing sustainable technologies for the mining sector. It also reflects the continued efforts of the CIL Innovation & Incubation Centre (CII Centre), IIT (ISM) Dhanbad, in nurturing impactful startups and promoting innovation-driven solutions that contribute to environmental sustainability and technological advancement in the coal and mining industries.

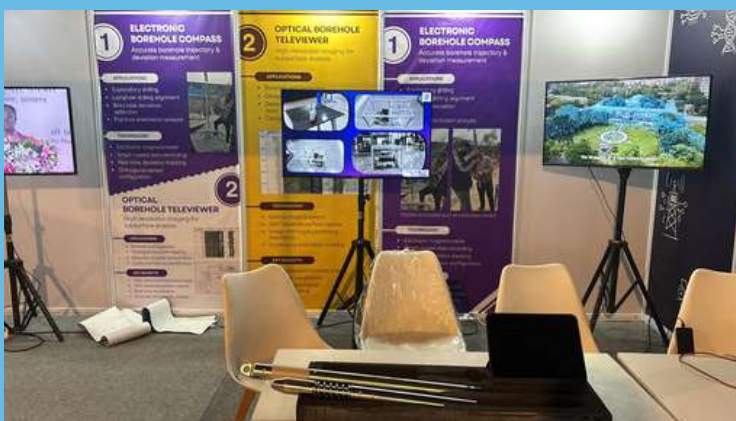


DISPLAY OF CII CENTRE PRODUCTS AT IITB-MONASH RESEARCH ACADEMY

HIGHLIGHTING CENTRE'S 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.

Collaborations



**TECHX
SPACE EARTH**

Collaborated with M/s TechXEarthSpace Private Limited to implement a project that involves designing, developing, and implementing a system to capture CO₂ from the atmosphere, followed by its injection into coal mine goaf to control mine fires and enable CO₂ sequestration.

Benefits: M/s TechXEarthSpace will be the pre-incubatee of the CII Centre, and the technology developed during the period will be shared between the two parties.

The CIL Innovation & Incubation Centre collaborated with M/s TechXEarthSpace Pvt. Ltd. on a new project to design, build, and use a system that captures CO₂ from the air and injects it into coal mine goaf areas. This helps control mine fires and store CO₂ safely. The project aims to solve environmental and safety problems in mining with sustainable technology.

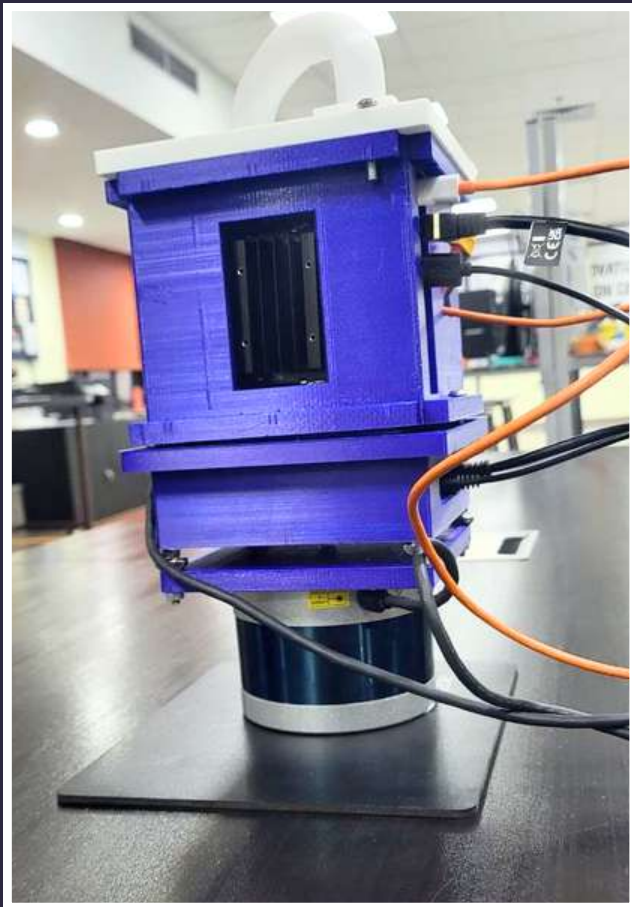


PRE-INCUBATION & ONGOING PROJECT 2025 - 2026



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.

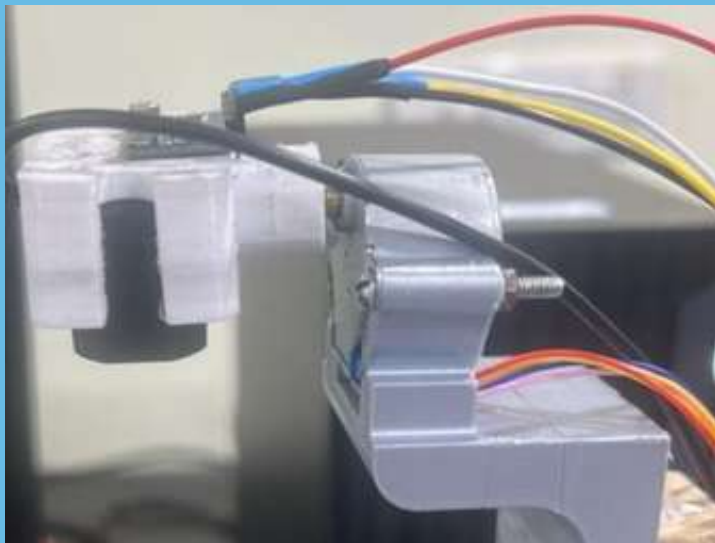
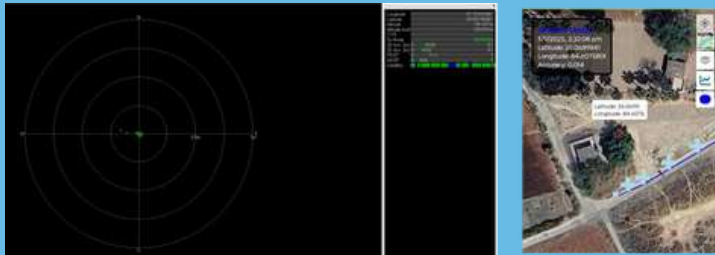
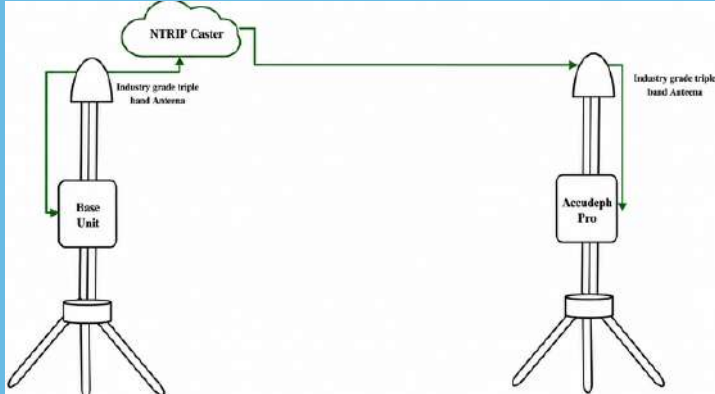
The project focuses on improving healthcare management for mining workers and their families, who face respiratory diseases, chronic illnesses, and other occupational health issues. It aims to address challenges such as non-standardized health screening, paper-based documentation, limited health records,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

Ongoing Projects

AccuDepthPro – Device for finding the depth profile of trenches with super-accurate location.



The ongoing project “AccuDepthPro” focuses on developing an advanced trench depth profiling and monitoring system for mining and geotechnical applications. The system combines LiDAR-based scanning with a high-precision RTK positioning system to generate accurate 3D trench profiles, including trench wall geometry, floor structure, and sampling intervals.

The project aims to replace conventional manual trench survey methods by providing automated, accurate, and georeferenced depth measurements with improved safety and efficiency. The system also integrates Industrial Internet of Things (IIoT) connectivity, enabling real-time data transmission to mobile and web-based dashboards for remote monitoring and decision-making.

The ongoing support of this project by the CIL Innovation & Incubation Centre reflects the Centre’s commitment to promoting innovative technologies for improving efficiency and decision-making in mining operations.

PROGRAMS WORKHOP SESSIONS



Ideathon



The CIL Innovation & Incubation Centre organized a Smart & Sustainable Ideathon – phase III (S2 Mining Ideathon - phase III). A total of 32 students have participated in the program. The program began on 21st August 2025

CIL INNOVATION & INCUBATION CENTRE
LEGACY THAT INSPIRES THE FUTURE

SMART & SUSTAINABLE MINING IDEATHON
S2 MINING IDEATHON

BENIFITS:-

- ✓ Selected team will be given an opportunity for pre-incubation subject to qualifying criteria
- ✓ Seed Funding up to ₹ 5 Lakh for startups
- ✓ Certificate of Completion
- ✓ IPR credit to the developing team and the mentor

SCAN FOR PROBLEM STATEMENT

PRIZES

FIRST PRIZE: ₹ 50,000
SECOND PRIZE: ₹ 30,000
THIRD PRIZE: ₹ 20,000

SCAN TO REGISTER
BEFORE 15th SEPTEMBER 2025

CONTACT US
CIL INNOVATION & INCUBATION CENTRE
4th Floor
i2h Building
IIT (ISM) Dhanbad
E-mail - ci@iitism.ac.in

TIMELINE:
Level 1 - Till 15th September 2025
Level 2 - To be notify later
Level 3 - To be notify later

The CIL Innovation & Incubation Centre at IIT (ISM) Dhanbad organised the “Smart & Sustainable Ideathon – Phase III” to encourage young minds for innovations and startups. The program began on 21st August 2025, and a total of 32 students applied for it. They were provided real-world problem statements of mining industries to work on. The Ideathon provided a great platform for students to showcase their problem-solving abilities and learn about new ideas.



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



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.



Certificate Distribution Program

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

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

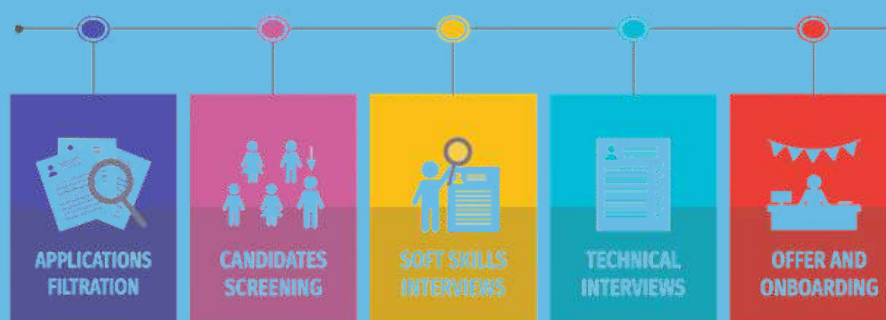


On 19 January 2025, from 6:30 PM onwards, the CIL Innovation & Incubation Centre, IIT (ISM) Dhanbad, conducted the Technical and Economic Evaluation of project proponents under the Pre-Incubation Program.

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.

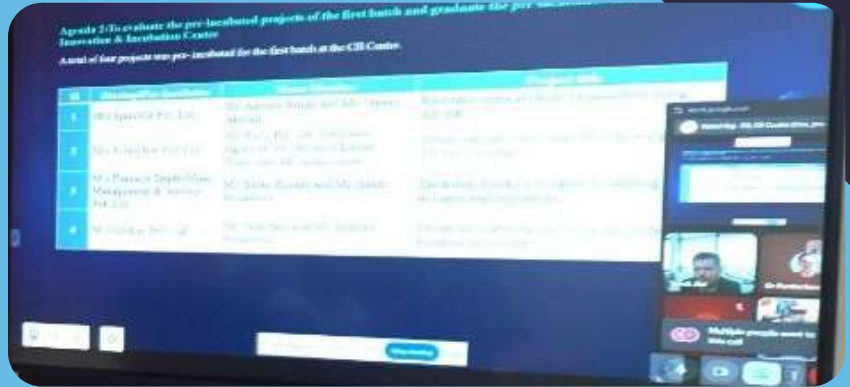
Two startup ideas were recommended for seed funding by the Standing Project Evaluation Committee (SPEC) of the CII Centre.

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



Pre-Incubation Programme: Evaluation and Selection of Innovative Ideas

The CIL Innovation & Incubation Centre conducted a Pre-Incubation Drive on 16 December 2025 as part of its selection process to identify promising candidates and innovative ideas for pre-incubation and seed funding.



The program focused on the mining sector and aimed to support selected ideas through mentorship so they could be developed into workable solutions.

A total of nine proposals were received and reviewed by the Standing Project Evaluation Committee (SPEC). Based on innovation, feasibility, and overall potential, two proposals were selected for pre-incubation at the Centre.

This initiative reflects the Centre's ongoing efforts to support new ideas, encourage entrepreneurship, and contribute to the growing innovation ecosystem in the mining sector.

WORKSHOP

"Two Days Workshop on Virtual Reality (VR)"

The program shows a very good response, with more than 70 students participated in the workshop. 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 program introduced participants to the insights of VR technology and its real-world applications.

During the sessions, participants had a hands-on experience with various tools of virtual reality, watched live demonstrations, and learned how virtual environments are created. The workshop was interactive and provided hands-on experience, helping them connect concepts with practical use. It also highlighted the use of VR in different fields, including mining and engineering.



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

PITCHFEST: ENTREPRENEUR EXCELLENCE PROGRAM (E2P)



PITCH FEST (E2P)

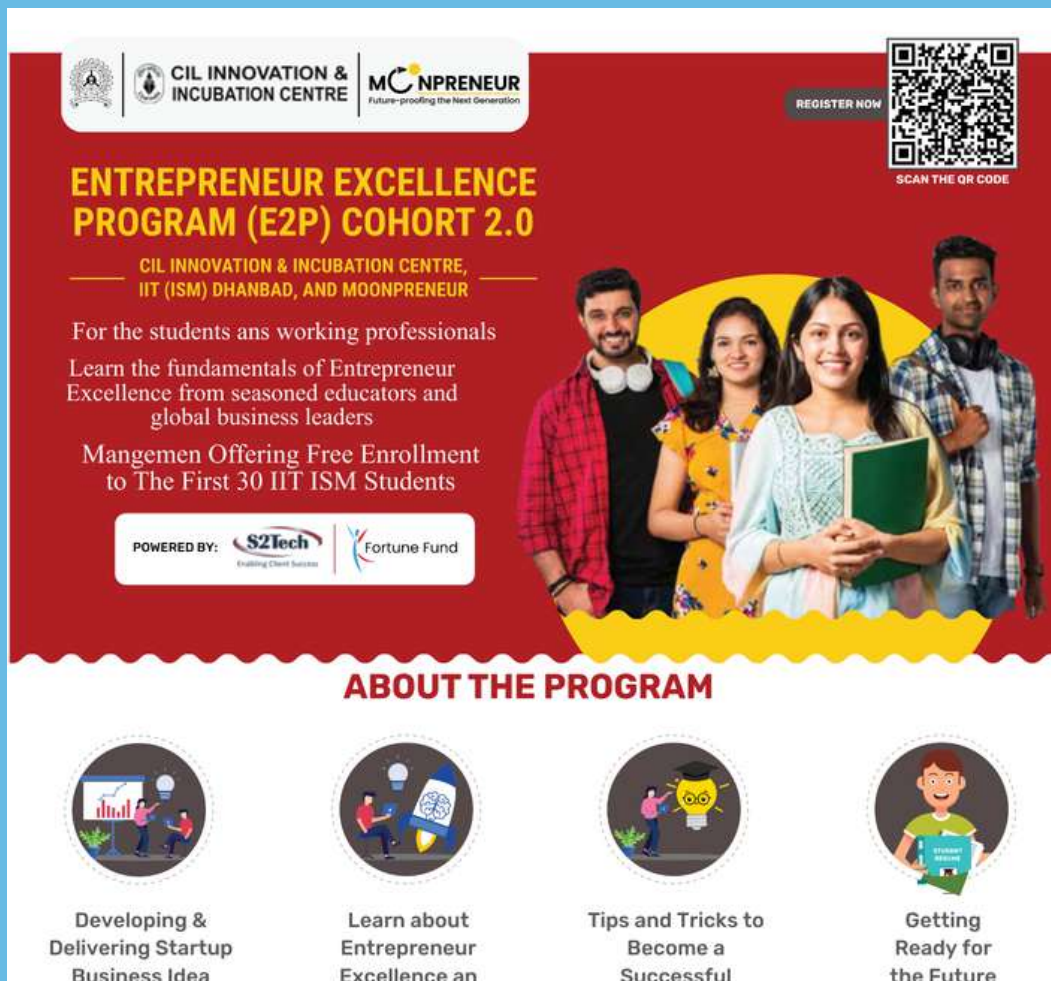
The poster for Pitchfest Entrepreneur Excellence Program (E2P) is the central focus. It features the event title in large, bold letters, the date "15 NOVEMBER 2025", and logos for CIL Innovation & Incubation Centre, Moonpreneur, and IIT (ISM) Dhanbad. Below the title, it lists the participating teams: WildBloom (Elder of Power, Team Member: ALI SHASH), VoltShare (Community EV Charging Network, Team Member: GYANAVI NAVAR), and FreshBox (Team Member: TEJASWINI). The poster also lists the Honorable Guests: Prof. R.K. Sinha (Head of CII Centre, IIT(ISM)), Mr. Alok Jaini (CEO of Moonpreneur), and Mr. Day Veerlapati (CEO & President of S2Tech). The Panelist section includes Mr. Rahul Raj (CEO, CII Centre IIT (ISM)), Mr. Prashant Vajpayeej (Senior Product Manager at Salesforce), and Mr. Prateek Sachdevj (Expertise in Innovation & Startups). The bottom right corner shows a screenshot of the event's digital interface.

A PitchFest was organized under the Entrepreneurship Excellence Program (E2P) Cohort 1.0 where participants presented their business ideas. Students from different academic backgrounds shared their ideas clearly and received constructive feedback from the evaluation panel. The event was organized by the CIL Innovation & Incubation Centre at IIT (ISM) Dhanbad in collaboration with Moonpreneur India Pvt. Ltd. It gave participants a useful platform to explore their interests and further develop their entrepreneurial skills. The best three ideas were recognized, and certificates were provided.

Entrepreneur Excellence Program Cohort 2.0

Zero Session Successfully Conducted

The Zero Session for Entrepreneurship Excellence Program (E2P) Cohort 2.0 was held online on 26th November 2025. More than 55 students from diverse academic backgrounds participated, indicating a strong interest in learning Opportunities in Innovation, Entrepreneurship, and Applied Learning. During the session, learners explored how the program is organized, set out its primary objectives, and discussed what learners can expect over the next 18 weeks from 26th November 2025.



The poster for the Entrepreneur Excellence Program (E2P) Cohort 2.0 features a red background with a yellow scalloped border at the bottom. At the top left, logos for CIL INNOVATION & INCUBATION CENTRE and MCNPREENEUR are displayed. A QR code with the text 'REGISTER NOW' and 'SCAN THE QR CODE' is on the top right. The main title 'ENTREPRENEUR EXCELLENCE PROGRAM (E2P) COHORT 2.0' is in bold yellow and orange text. Below it, the text reads 'CIL INNOVATION & INCUBATION CENTRE, IIT (ISM) DHANBAD, AND MOONPRENEUR'. A central image shows four diverse young adults smiling. Text on the left states: 'For the students and working professionals', 'Learn the fundamentals of Entrepreneur Excellence from seasoned educators and global business leaders', and 'Management Offering Free Enrollment to The First 30 IIT ISM Students'. Logos for S2Tech and Fortune Fund are at the bottom left. The section 'ABOUT THE PROGRAM' is followed by four circular icons with descriptions: 'Developing & Delivering Startup Business Idea', 'Learn about Entrepreneur Excellence and', 'Tips and Tricks to Become a Successful', and 'Getting Ready for the Future'.

ENTREPRENEUR EXCELLENCE PROGRAM (E2P) COHORT 2.0

CIL INNOVATION & INCUBATION CENTRE, IIT (ISM) DHANBAD, AND MOONPRENEUR

For the students and working professionals
Learn the fundamentals of Entrepreneur Excellence from seasoned educators and global business leaders
Management Offering Free Enrollment to The First 30 IIT ISM Students

POWERED BY: S2Tech, Fortune Fund

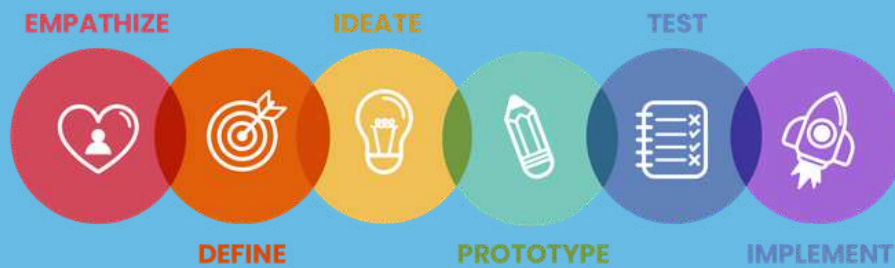
ABOUT THE PROGRAM

- Developing & Delivering Startup Business Idea
- Learn about Entrepreneur Excellence and
- Tips and Tricks to Become a Successful
- Getting Ready for the Future

The successful commencement of the Zero Session sets a promising tone for the upcoming modules and activities of E2P Cohort 2.0. The organizing teams from both CIL Innovation & Incubation Centre and Moonpreneur India Pvt. Ltd. extend their best wishes to all participants for a fruitful learning experience ahead..

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.

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

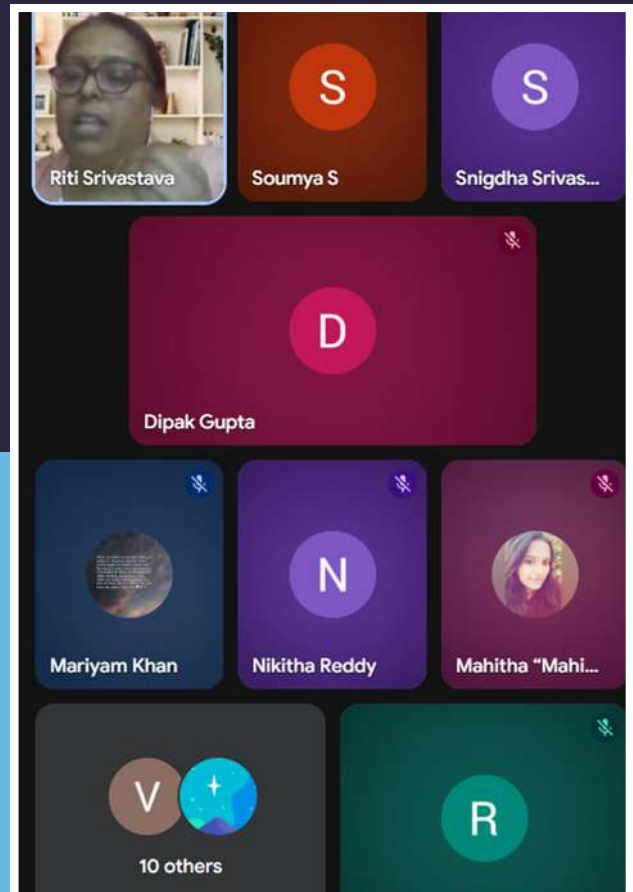
MENTORING SESSION



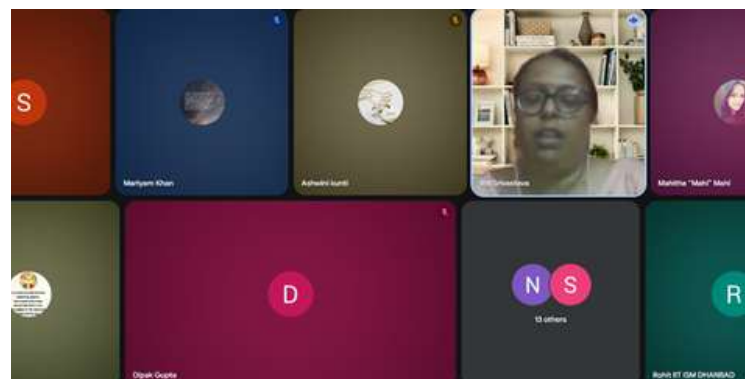
Mentoring Session Successfully Concluded under Entrepreneurship and Leadership Development Program - Cohort 2.0

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.



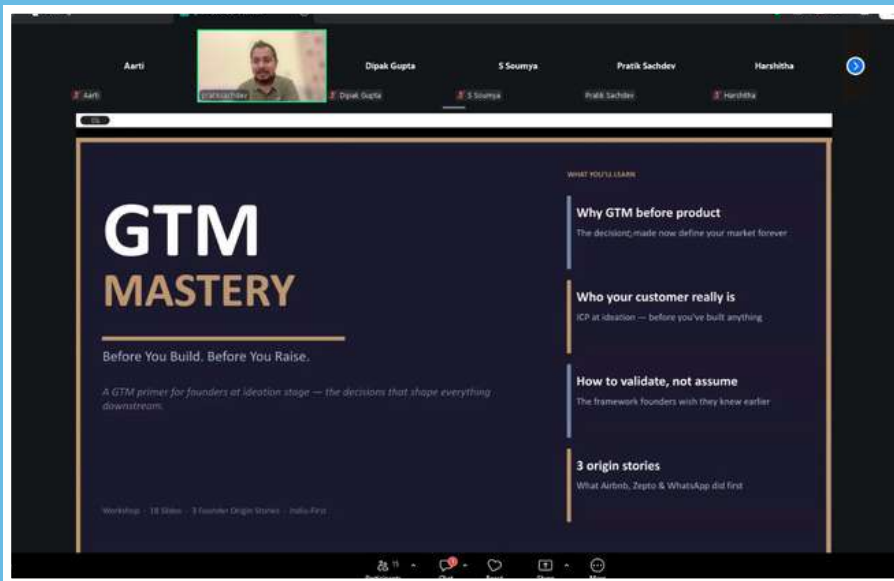
These types of programs demonstrate the Centre's effort to support innovation and help young entrepreneurs to turn their ideas into businesses.



ENTREPRENEURSHIP AND LEADERSHIP DEVELOPMENT PROGRAM - COHORT 2.0

GTM MASTERY

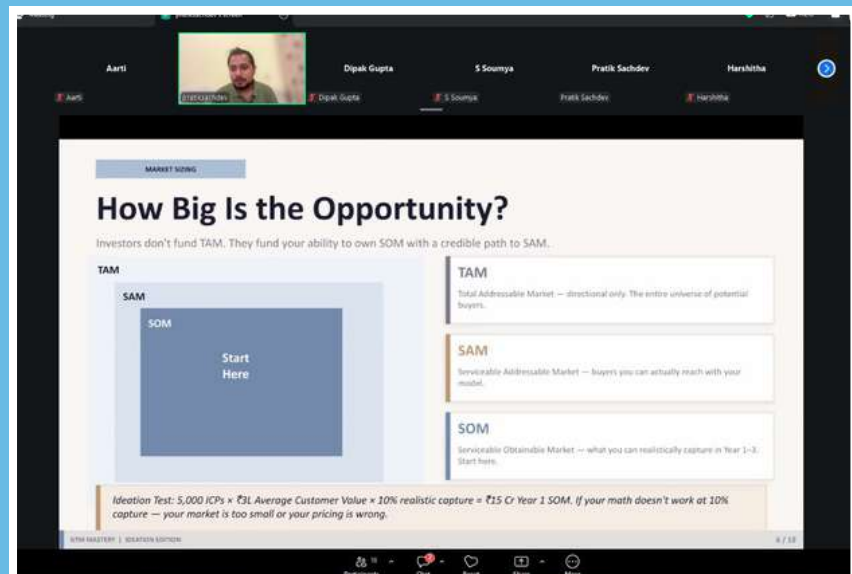
Session on “GTM MASTERY” was Successfully Concluded under the Entrepreneurship and Leadership Development Program - Cohort2.0



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.



ENTREPRENEURSHIP AND LEADERSHIP DEVELOPMENT PROGRAM - COHORT 2.0

ENTREPRENEURSHIP AND INNOVATION IN INDIA

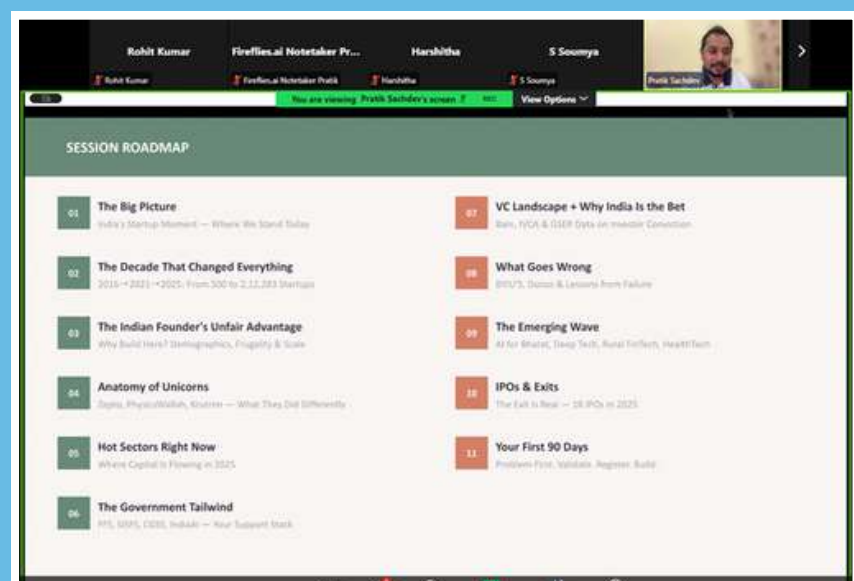
Session on “Entrepreneurship and Innovation in India ” was Successfully Concluded under the Entrepreneurship and Leadership Development Program - Cohort 2.0



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 fulfil their dream of becoming a successful entrepreneur.



DELGATE AND STUDENT VISITS



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.

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.

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), CMPDILtd., 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.



DELEGATES' VISIT

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



The CIL Innovation & Incubation Centre at IIT (ISM) Dhanbad welcomed a team from the Defence Research & Development Organisation (DRDO) Bangalore. During their visit, the demonstration of the products developed at the centre was provided, and the labs and infrastructure of the centre were also showcased.

They also discussed innovative ideas for startups, mainly in the domain of automation and digital technologies. The visit gave a good chance for discussion and sharing ideas, with a special focus on Virtual Reality (VR) as a useful and growing technology.

STUDENT VISIT AND DEMONSTRATION AT THE CII CENTRE LABS

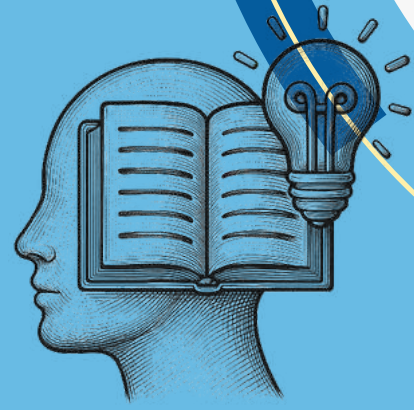
NURTURING YOUNG TALENTS



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.



SANKALP YATRA & PMKVY 4.0 STUDENTS VISIT



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.

DPS Bokaro Students Visit



A brief demonstration of the facilities of the CII Centre and showcasing the products developed in the CIL Innovation & Incubation Centre to the students (Class 10 to Class 12) of DPS, Bokaro.

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



DPS Students Visit



A brief demonstration of the facilities of CII Centre Labs and showcasing the products developed in the CIL Innovation & Incubation Centre to the students (Class 10 – Class 12) of Dhanbad Public School

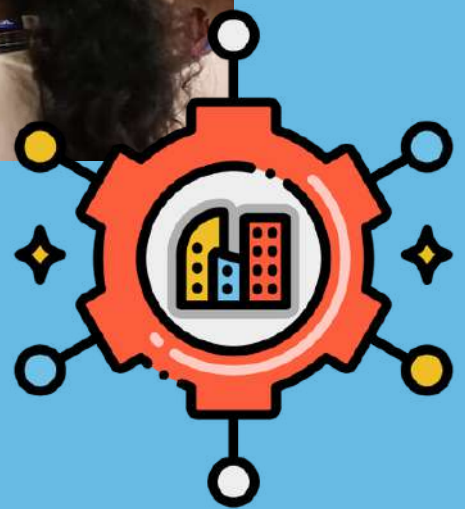
A brief demonstration of the facilities at the CII Centre Labs, along with a showcase of the innovative products developed at the CIL Innovation & Incubation Centre, was organized for the students of Dhanbad Public School. The visit provided the students with valuable exposure to cutting-edge technologies,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



DAV Students Visit



INSPIRING YOUNG MINDS



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

SSVM Giridih Students Visit



The CIL Innovation & Incubation Centre hosted students and faculty from Saraswati Shishu Vidya Mandir (SSVM) Giridih on 16th and 19th December 2025 as part of its academic outreach initiatives. The visit aimed to provide exposure to the Centre's innovation ecosystem and research facilities, encouraging young minds towards innovation and entrepreneurship.

During the visit, participants walked through the Design Thinking Lab, AR-VR Lab, and Mine Automation Lab and interacted with officials of the Centre, gaining insights into ongoing innovation activities and applications of technology in the mining sector. The initiative reflects the Centre's commitment to fostering scientific temper and promoting innovation among young learners.



OTHER ACTIVITIES



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.

Innovation in Progress: PCB Prototyping and Product Development at the Centre



In collaboration with TEXMiN, the Centre designed and developed an advanced electronic control and sensing board. The system includes complex routing, multiple power and signal sections, and several interfaces such as motor control, sensors, communication lines, and power management. Due to this level of integration, ensuring EMI/EMC safety becomes a key challenge

From the early design stage, care was taken to reduce noise and interference. The layout was planned with proper grounding, clear separation between high-power and low-signal areas, and the use of suitable filtering and protection components. These design practices are essential to meet DGMS requirements, especially for systems used in mining and other hazardous environments where safety and reliability are critical.



The board also follows intrinsic safety (IS) principles, with a focus on limiting energy, managing faults safely, and maintaining secure connections with external devices. These aspects are in line with DGMS guidelines and relevant IEC standards required for equipment used in underground and potentially explosive conditions.

This successful development of the PCB shows the strong design and practical knowledge of the Centre's team. The team was able to design a system that meets DGMS requirements, follows EMI/EMC guidelines, and ensures intrinsic safety.

It also shows the Centre's ability to understand safety rules and system needs, and turn them into a reliable and manufacturable PCB. This highlights the strength of the Centre in developing mining-grade electronics systems for research, prototyping, and real-world use

EQUIPMENT PROCURED

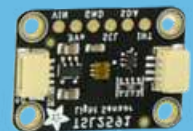
Sheet Metal Bending Machine & Electronic Sensor

During the year, we purchased a Sheet Metal Bending Machine to enhance our laboratory, so students can do accurate fabrication and testing. It is an important piece of equipment that supports students' projects and helps in developing prototypes for mechanical and manufacturing projects.



We also purchased an Electronic Sensor Module to support research and development activities related to automation, monitoring systems, and sensor-based solutions.

These purchases show the Centre's commitment to providing innovators with good facilities to turn their ideas into real products.



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.



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.

4th Governing Body Meeting



The 4th Governing Body (GB) Meeting of the CIL Innovation & Incubation Centre was concluded on November 8, 2025, at IIT (ISM) Dhanbad. During the meeting, the GB reviewed the progress of the Centre in detail. Key areas of discussion included the development and strengthening of physical and technological infrastructure, the steady growth and performance of pre-incubated startups, and updates on ongoing research, innovation, and project-based activities supported by the Centre.

Updates highlighted activities carried out during the year, including collaborations, seminars, conferences, workshops, and events conducted at the centre to promote innovation and entrepreneurship. The GB appreciated the Centre's active engagement with students and its efforts to build an innovation-friendly environment.

The GB also noted important achievements and recognized the awards received by the Centre's startups. Overall, the Centre showed strong progress in technology and made valuable contributions to the mining sector.



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 Kuamr
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