



National Council for Cement and Building Materials Collaborates with TraceXero Technologies to Support Development of Carbon Capture Technologies for Cement Sector

Posted On: 12 MAR 2026 6:45PM by PIB Delhi

National Council for Cement and Building Materials (NCB), an apex research and development organisation under the Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry, has entered into a collaboration with M/s TraceXero Technologies Private Limited, an Indian technology start-up working in the field of industrial decarbonisation and carbon capture solutions and incubated at NCB.

The collaboration aims to support the development, technical validation, and potential commercialisation of advanced Carbon Capture and Utilisation (CCU) technologies for the cement and construction materials sector.

The cement industry is one of the key pillars of infrastructure development and economic growth. The sector contributes approximately 7 per cent of global carbon dioxide emissions and is considered a hard-to-abate sector due to its process-related emissions. Carbon Capture and Utilisation has been identified as one of the critical levers to support the goal of Net Zero in the cement industry.

TraceXero has been developing a technology that captures CO₂ using a proprietary solvent process and converts the captured CO₂ into graphitic carbon and eventually graphene, turning emissions into a potentially valuable material resource rather than a waste stream.

NCB has been working in the areas of research, technology development, and industrial services for the cement and construction materials sector in India. Through its laboratories, pilot facilities, and technical expertise, NCB provides scientific and technical support to industry, academia, and emerging technology developers.

Through collaboration with start-ups and technology innovators, NCB seeks to support start-ups involved in the development and validation of next-generation solutions that can help the industry address sustainability challenges while maintaining productivity and competitiveness.

The agreement was signed on 10 March 2026 at NCB Ballabgarh by Joint Director and Secretary, NCB, Dr. S. K. Chaturvedi, and Co-founder, TraceXero Technologies Private Limited, Shri Reetam Chaudhury, in the presence of Director General, NCB, Dr. L. P. Singh, and Heads of Centres and Service Groups of NCB.



Abhishek Dayal/ Garima Singh/ Ishita Biswas

(Release ID: 2239103) Visitor Counter : 346

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