Vedanta Group Targets Significant Efficiency Gains in Mineral Exploration Through AI

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New Delhi, 18 November 2026: Vedanta Group, one of the world's leading producers of metals, oil & gas, critical minerals, power and technology, is targeting significant **efficiency gains in mineral exploration through Artificial Intelligence (AI)**. AI-led geological analysis and mineral block modelling could compress processes that traditionally take **three to four months, spanning drilling, analysis and block modelling, to just six to seven days.** This will accelerate exploration-to-commissioning process of domestic mineral resources faster and more cost-efficient, to support India's growing critical minerals ambitions.

The Group is also exploring AI for complex mineral production and processing, recovery of strategically important minerals. This is part of the Group's broader critical minerals foray into potash, vanadium, tungsten, copper, graphite and more. In a parallel effort, Hindustan Zinc is developing a 10-million-tonne-per-annum high-tech tailings recycling facility to recover zinc, lead, silver and germanium from mining byproducts, unlocking additional value from previously processed resources.

These efforts come as India steps up its focus on critical minerals and domestic resource security, with technology playing an increasingly important role in developing capabilities across the exploration, production and processing value chain. Recently speaking at the International Metals & Mining Forum, Vedanta leaders highlighted AI's potential to make the metals and mining more productive, agile, safe and sustainable.

Priya Agarwal Hebbar, Non-Executive Director, Vedanta Limited, said, *"The future may be powered by technology, but it will be built with materials. As India enters a new phase of growth, the demand for the metals, minerals and resources that underpin infrastructure, manufacturing, clean energy and digital innovation will continue to rise. This creates a tremendous opportunity for India to strengthen its position in the global resources landscape. At Vedanta, our recent demerger marks the beginning of a new chapter, creating focused businesses with the agility, accountability and ambition to unlock their full potential. Our vision is to build world-class companies that create long-term value, strengthen India's resource security and create opportunities for communities. More importantly, we want to help build the foundations of a self-reliant, globally competitive India, one that is not just a consumer of the materials that shape the future, but a leader in producing them responsibly, sustainably and at scale."*

With demerger unlocking the Group’s capital and management focus to pursue independent growth ambitions across businesses, AI and advanced analytics are no longer peripheral innovation projects. As the newly listed companies undergo capacity expansion across the board, operations are being designed for agility and efficiency, embedding deeptech into productivity, asset reliability, cost competitiveness, safety and resource efficiency from the get-go.

Sensitivity: Internal (C3)

The Group also extends AI adoption to business partners and suppliers, including allied MSMEs, to strengthen technology adoption across its ecosystem. The Group's technology-led vision was also brought to life through an immersive showcase at the forum, tracing India's metallurgical journey from ancient practices to the advanced, technology-driven mining operations of today.

About Vedanta Group

Vedanta Group is the world's leading producer of metals, oil & gas, critical minerals, power and technology. The company supplies essential materials that power the global energy transition, emerging technologies and the green economy of the future. Its diversified portfolio supports industrial growth, energy security and technological advancement across global value chains. With operations spanning India, Africa, the Middle East and East Asia, Vedanta is embedded in high-growth geographies shaping the next era of global development. Sustainability anchors the Company's strategy, guided by strong ESG governance, people-first workplaces, and a commitment to achieving net-zero emissions by 2050 or sooner. By operating at the intersection of resources, technology and human potential, Vedanta is strengthening economies, empowering communities, and creating enduring value for all stakeholders.

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