

Vedanta Commits To Powering India's Tech Sector With Transition Metals & Value-Added Products

New Delhi, 10th May 2025: On National Technology Day, Vedanta Limited (NSE: VEDL), India's leading producer of energy transition metals commits to powering India's technology and engineering sector through its thrust on value-added and sophisticated range of metals. Vedanta is expanding its value-added products for its zinc and aluminium products. The company has forayed into **zinc alloys with a 30 KTPA plant** while the **aluminium business plans to significantly boost the share of value-added products in its portfolio to over 90%** in the near-term. **For its aluminium capacity expansion, Vedanta's board had approved about \$1.5 billion**, including a smelter expansion (for additional aluminium production) and increased value-added product (VAP) capacity at its flagship aluminium plants.

Vedanta produces **the four most widely used metals** in the world – **iron** (for steel production), **aluminium, copper and zinc**. These are the four most important metals that make modern life possible. From primary **applications such as building & construction, defence, aerospace, power generation, automotive** etc, these metals are now powering tomorrow's new-age tech such as renewable energy, energy storage, biotechnology, nanotechnology, space exploration, and hi-tech manufacturing.

Simultaneously, the company is building its critical minerals footprint, **exploring copper, nickel, cobalt, chromium, vanadium, tungsten and Platinum Grade Elements (PGEs)** across states like Maharashtra, Rajasthan, Bihar, Arunachal Pradesh, Karnataka, and Chhattisgarh, supported by India's policy push for mineral security.

Globally, there are about 3,000 technological applications of **aluminium** across various industries, whereas India has explored only about 300 so far. Vedanta alone produces nearly 60% of India's aluminium and finds its usage in developing advanced technologies owing to its exceptional properties of lightweight, high strength-to-weight ratio and infinite recyclability. The company is expanding its value-added aluminium products capacity in billets, primary foundry alloys (PFA), rolled products and wire rods. Aluminium billets are used in aerospace, defence and solar power sectors while aluminium rolled products are used in modern high-speed railways, electric vehicles, pharmaceuticals and new-age battery enclosures.

As the world's largest integrated **zinc** producer, Vedanta's Hindustan Zinc is exploring uses beyond zinc galvanization of steel to protect it from rust, which currently accounts for over 60% of global zinc demand. Its latest range of value-added alloys, HZDA-3 and HZDA-5 (Hindustan Zinc Die-Casting Alloys), have a wide range of uses across automobiles, defence, household appliances, sanitary-ware etc.

Emerging research identifies zinc-based batteries as safe, cost-effective, and recyclable alternatives to lithium-ion batteries. Zinc batteries offer high thermal stability, non-flammability, and high performance across extreme temperatures. This makes zinc a geopolitically secure and sustainable solution for India's energy storage systems to store solar power. Advanced applications of zinc, such as in 3D printing, semiconductors, and solid-state energy systems are also rapidly increasing.

Globally, industrial demand for **silver** reached a record 680.5 million ounces in 2024 (as per The Silver Institute), driven by its indispensable role in renewable energy (photovoltaics), AI-powered consumer electronics, wearables and nanotechnology. Hindustan Zinc is India's only primary **silver** producer, and the market presents a massive opportunity to align domestic consumption with global tech trends.

Silver's conductivity and antimicrobial properties also make it critical in healthcare, biotechnology, and data transmission. While silver has a wide array of technological applications globally, India's utilization of silver in industrial and technological sectors remains limited.

Copper, a classified critical metal is integral to various sectors, including electrical wiring, renewable energy, transportation, healthcare, and electronics. In India, the utilization of copper is expanding, especially in infrastructure development, renewable energy projects, and the fast-growing electric vehicle market. Vedanta's position as a leading copper producer presents a strategic advantage to expand and innovate in the applications of copper.

Similarly, **steel**, **iron ore**, and **ferroalloys** continue to be vital for India's infrastructure, mobility, construction, and shipbuilding sectors. While India is the second-largest producer of crude steel and fourth largest in iron ore, the integration of steel into new-age technologies such as offshore wind structures, EV frames, and hydrogen pipelines is an emerging area still being explored.

Vedanta has long established itself as a leader in energy transition metals and has pioneered the production of low carbon 'green' metals. This includes Asia's first low carbon 'green' zinc brand **EcoZen** and low carbon footprint, 'green' aluminium range, branded **Restora** and **Restora Ultra**, for customers seeking to decarbonise their operations and reduce the carbon-footprint of their end-products.

With demand for transition metals surging, Vedanta is actively augmenting its production capacities across all businesses. Through its diverse portfolio, technological prowess, and sustainable practices, Vedanta is enabling India's transition into a future-ready, tech-powered economy. Metals are the foundation of innovation, and India's potential lies in exploring them to their fullest.

About Vedanta Limited:

Vedanta Limited ("Vedanta"), a subsidiary of Vedanta Resources Limited, is one of the world's leading natural resources companies spanning across India, South Africa, Namibia, Liberia, UAE, Korea, Taiwan and Japan with significant operations in Oil & Gas, Zinc, Lead, Silver, Copper, Iron Ore, Steel, Nickel, Aluminium, Power & Glass Substrate and foraying into semiconductors and display glass. For two decades, Vedanta has been contributing significantly to nation building. Governance and sustainable development are at the core of Vedanta's strategy, with a strong focus on health, safety, and environment. Vedanta has put in place a comprehensive framework to be the ESG leader in the natural resources sector, is committed to reducing carbon emissions to net zero by 2050 or sooner and aims to spend \$5 billion over the next 10 years to accelerate this transition. Giving back is in the DNA of Vedanta, which is focused on enhancing the lives of local communities. Anil Agarwal Foundation, the umbrella entity for Vedanta's social initiatives, has pledged Rs 5000 crore over the next five years on various social impact programs and its flagship project, Nand Ghar is setting up model anganwadis across India. Vedanta Ltd. has been listed in Dow Jones Sustainability World Index 2022, conferred Golden Peacock Award for excellence in Corporate Governance 2022 and certified as a Great Place to Work 2023. Vedanta Limited is listed on the Bombay Stock Exchange and the National Stock Exchange. For more information, please visit www.vedantalimited.com

For further information, please contact:

Sonal Choithani
Chief Brand & Communications Officer
Sonal.Choithani@vedanta.co.in
www.vedantalimited.com

Disclaimer:

This press release contains "forward-looking statements" – that is, statements related to future, not past, events. In this context, forward-looking statements often address our expected future business and financial performance, and often contain words such as "expects," "anticipates," "intends," "plans," "believes," "seeks," "should" or "will." Forward-looking statements by their nature address matters that are, to different degrees, uncertain. For us, uncertainties arise from the behaviour of financial and metals markets including the London Metal Exchange, fluctuations in interest and or exchange rates and metal prices; from future integration of acquired businesses; and from numerous other matters of national, regional, and global scale, including those of a political, economic, business, competitive or regulatory nature. These uncertainties may cause our actual future results to be materially different than those expressed in our forward-looking statements. We do not undertake to update our forward-looking statements.