

ELEMENTAL

Vedanta Aluminium Business' Monthly Newsletter

India's Largest Industrial Consumer of Renewable Energy in 2021

We became the largest industrial consumer of renewable energy (RE) in 2021, leading renewable energy procurement on India's power exchanges - Indian Energy Exchange (IEX) and Power Exchange India Limited (PXIL). Our Aluminium Smelter at Jharsuguda procured about 2 billion units of RE power, thereby reducing its GHG emissions intensity by more than 1540 KtCO₂e (kilo tonnes of CO₂ equivalent) in the year. Our subsidiary BALCO led the renewable energy trading season, procuring a total of over 2.8 million RE Certificates in the year.



We are committed to our vision of achieving Net Zero Carbon by 2050. Becoming India's largest industrial consumer of RE in 2021 reflects our persistent endeavors to increase the share of green power in our energy mix and accelerate our transition into low-carbon operations.

Rahul Sharma
Dy. CEO - Aluminium Business



IN THIS ISSUE

This issue is a year-end wrap up of the highlights and milestones of the Aluminium Business, in 2021.

From environmental sustainability to operational excellence, safety and community development, we at Vedanta Aluminium have had an adventure of a year! And we are grateful for your unwavering support throughout the year.

Venturing into 2022, we look forward to the new adventures and opportunities that will come our way. On that note, we wish you a very...

Happy
NEW YEAR

Collaborated with GEAR India to deploy one of India's largest lithium-ion forklift fleets

We shall deploy one of India's largest lithium-ion forklift fleets at our Aluminium Smelter in Jharsuguda, Odisha. With rapid charging technology, these electric forklifts will enable longer working cycles, avoid frequent battery change and offer a longer life, while being virtually maintenance-free. This green fleet will also reduce diesel consumption by more than 2.5 lakh litres annually, thereby saving GHG emissions of 690 tonnes of CO2 equivalent.



Launched Aluminium Cylinder-head Alloy for the Automotive Industry

We launched our indigenously manufactured Cylinder-head Alloy for the automotive industry this year. This is a critical aluminium alloy needed for manufacturing cylinder heads and other automotive components. Our Cylinder-head Alloy leverages material design to help automakers increase efficiency of internal combustion engines for improved performance on emission control.

Launched High-Speed Billets for the Global Extrusion Industry

We launched another high-performance product, our Aluminium High-Speed Billets for the global extrusion industry. Manufactured with the highest engineering precision, these High-Speed Billets can improve extrusion speed by at least 25%, or more, depending on the extrusion environment, thereby boosting productivity of extruders.



Ranked 4th globally in the Dow Jones Sustainability Index (DJSI)

Vedanta Aluminium secured the 4th rank among global aluminium producers on DJSI. This was our maiden foray into the rigorous S&P Global Corporate Sustainability Assessment, with the objective of gaining valuable independent insights into our sustainability performance, vis-à-vis economic, environmental, and social criteria for the performance year FY 2020-21.

Unveiled Sustainable Development Reports (SDR) for FY20 and FY21

We launched our first-ever Sustainable Development Report for FY 19-20 on World Environment Day 2021, and SDR for FY 20-21 on National Energy Conservation Day 2021. The SDRs encapsulate our performance across key sustainability parameters such as Energy and Climate Change Management, Water Management, Biodiversity Management, Air Quality and Emissions control, Health & Safety, Social Impact and Governance, etc.



Dedicated 3 COVID Hospitals to Odisha and Chhattisgarh

To aid state governments during the 2nd wave of COVID, we dedicated 2 state-of-the-art COVID Hospitals with 300 beds to Odisha, and a 100-bed COVID Field Hospital to Chhattisgarh. These hospitals are fully oxygenated, and equipped with Intensive Care Units, High Dependency Units, critical care equipment, pediatric wards, oxygen plants and dedicated medical staff.

Campus Connects with premier institutes on Business & Sustainable Development

We have conducted a host of Campus Connects with students and faculty of premier institutes over the past year, orienting the leaders of tomorrow on the many facets of sustainable business development. Mr. Rahul Sharma, Dy. CEO - Aluminium Business, has personally interacted with more than 600 students through these sessions, sharing our learnings and insights with the budding professionals.



Invited partners for Aluminium Park at Jharsuguda, Odisha

With an aspiration to 'Make in India for the World', we plan to set up the Vedanta Aluminium Park, near our largest Aluminium Smelter in Jharsuguda. We invited aluminium companies to set up their plants at our Aluminium Park, access our aluminium, global expertise and R&D facility to develop world-class products for catering to critical industry sectors in India and the world.

Deployed all-women Security Quick Reaction Team 'Baaz'

'Baaz' is our newly constituted all-women Quick Reaction Team (QRT) for stepping up plant & people security. This task force consists of women security professionals who are trained in martial arts to serve as first responders. Baaz QRT has access to state-of-the-art gadgets and surveillance equipment to ensure a safe working environment for all.



Launched 'People of Metal' short-film series

Last year, we unveiled 'People of Metal', a series of heartwarming short-films featuring ordinary people from our communities who have braved all odds to create extraordinary stories. From fly-ash brick makers to farmers, sportspersons, artisans and women entrepreneurs, it has been a privilege and honor to have played a part in enabling them to fulfil their destinies.

BALCO dispatched its first fly-ash rake to cement industry

Under our waste-to-wealth drive, in a landmark initiative, BALCO dispatched their first CFA Rake to a prominent cement plant in India. BALCO has also partnered with the National Highways Authority of India (NHAI) under their Bharatmala Project for building roads with fly-ash, and signed an MoU with VNIT Nagpur for using their green concrete solution for road construction inside the plant, as well as nearby areas.



Planted over 3 lakh saplings at our operations in Jharsuguda, Odisha

Under the Vedanta Cares 'Green Cover' initiative, we planted more than 3 lakh saplings in and around our operations at Jharsuguda in only 3 months! Launched on World Environment Day 2021, the Green Cover initiative aimed at planting a million trees across the country in FY 21-22. Against a target of 1 lakh saplings, Vedanta Jharsuguda crossed the 3-lakh milestone in the August-October period.

Outstanding performance in the Perform, Achieve & Trade (PAT) Cycle-II scheme by the Ministry of Power, Govt. of India

We bagged top spots at the PAT Cycle-II among the Indian Aluminium Industry. BALCO secured the coveted top spot with the highest Energy Saving Certificates, followed by Vedanta Jharsuguda's Smelter I, among aluminium producers. Our Alumina Refinery at Lanjigarh, ranked highest among peer alumina producers.



Deployed Mobile Health Van to serve 45 communities in Korba

BALCO and HelpAge India signed an MoU to deploy a Mobile Health Van to provide doorstep healthcare services to 45 local communities. Mr. Abhijit Pati, CEO & Director - BALCO, signed the MoU on behalf of the company. The van will provide diagnosis, medicines, awareness services and specialized health camp services free of cost to the community members.

Launched 'Sankalp', Safety Culture Transformation Programme

With the objective of ensuring sustainable 'Zero Harm', we partnered with DuPont Sustainability Solutions to roll out Sankalp - our Safety Culture Transformation Programme. Through this programme, we aim to nurture an interdependent safety culture, where people are not only responsible for their own safety but also the safety of others.



Invited industries to collaborate in waste-to-wealth projects

We invited cement producers to use our fly-ash and bauxite-residue for manufacturing low-carbon cement & concrete. Fly-ash and bauxite-residue, the two most voluminous by-products generated by the aluminium industry, can be used in cement and concrete manufacturing, providing cement manufacturers significant benefits in terms of quality output, cost and sustainability.

Partnered with start-ups under Vedanta Spark for leading-edge technology solutions

Our teams at Jharsuguda, Lanjigarh and BALCO have partnered with several of India's best start-ups for leveraging leading-edge technologies to bring about a step-change in the fields of operational excellence, quality, security, safety, analytics, and overall ease of doing business. Deployment of many of these projects are underway, led by our passionate teams.



Launched Jan Sampark Karyakram at Lanjigarh, Odisha

Our team at Vedanta (Aluminium) Lanjigarh initiated 'Jan Sampark Karyakram' to foster greater connect with the communities in the region. As part of the programme, we have appointed Jan Sampark Nodal Officers for each village, to proactively work with the communities in the areas of livelihood, healthcare, education, infrastructure & basic amenities, etc. with the objective of bettering their quality of life.



Bagged Runner Up at the international BRICS India Solutions for SDG Awards 2021

We bagged 'Runner Up' position at the prestigious BRICS India Solutions for Sustainable Development Goals (SDG) Awards 2021, in SDG 5: Gender Equality. We won the award for Subhalaxmi Co-operative, a 4100+ member strong all-women co-op society operating in Jharsuguda, Odisha. This is a global and international achievement among the BRICS countries (Brazil, Russia, India, China and South Africa) to recognize businesses for driving grassroots realization of UN SDGs.



Launched 'Mor Jal, Mor Mati' project for farmers

BALCO launched 'Mor Jal, Mor Mati' land & water management project to support regional farmers for growing profitable crops, through sustainable farming practices like organic farming. Under the project, BALCO is also facilitating sales of their produce, thereby helping ensure increased household income of these farmers.



Vedanta Jharsuguda & BALCO certified as Great Places to Work

In a resounding endorsement of our industry-leading people practices, our Jharsuguda unit and BALCO were accredited as Great Place to Work-Certified! This accolade bears testimony to our constant innovation and pioneering people practices in the domains of hiring, engagement, diversity & inclusion, rewards & recognition, talent and performance management.



Supported Govt. of Odisha with 2000 oxygen cylinders during 2nd wave

We provided 2000 filled medical oxygen cylinders to the Government of Odisha to aid their effort in the fight against the second wave of COVID pandemic. The oxygen was handed over to the govt. in the presence of Mr. Nitin Jawale, Managing Director – IPICOL and Ms. Yamini Sarangi, IAS and Managing Director – Odisha State Medical Corporation Limited (OSMCL).

Supported four district schools under Odisha Government's Mo School Abhiyaan

We will support four government schools of the Jharsuguda district through the Mo School Abhiyaan, an initiative by the Government of Odisha under its School & Mass Education Department. We have invested towards building required infrastructure like smart classrooms, e-libraries, computer labs, playing ground and garden etc.



Bhoomi Pujan of Vedanta Pathology Lab & Diagnostic Centre

We commenced the construction of the Vedanta Pathology Lab & Diagnostic Centre at Jharsuguda, earlier in 2021 with a Bhoomi Pujan. A collaboration between Vedanta Jharsuguda and SRL Diagnostics, the Centre will be an advanced state-of-the-art multispecialty facility, offering over 500 tests and specialized services like Radiology, Mammography, ECG/PFT/TMT, Vision, Digital X-Ray, Audiometry, among others, to the region's citizenry.

CII ENCON Award 2021 for 1200 MW Power Plant, BALCO



BALCO wins Kalinga Environment Excellence Award 2020



BALCO wins SABERA Award for CSR



BALCO wins 'Company with Great Mangers' Award



Vedanta Aluminium sweeps 4 titles at the Kalinga Safety Excellence Awards!



Mr. GG Pal (Dy. CEO, Vedanta Lanjigarh) won Best Corporate CEO Award



Vedanta Lanjigarh wins Platinum Award - Alumina Manufacturing



Vedanta Jharsuguda wins Gold Award - Aluminium Smelting and Captive Power Plant & Silver Award - Thermal Power Plant

Vedanta Lanjigarh sweeps 5 PeopleFirst HR Excellence Awards

Vedanta Aluminium Lanjigarh's sweeping win at the PeopleFirst HR Excellence Awards!

<p>People's CEO of the Year</p> <p>Mr. GG Pal</p>	<p>Business Leader of the Year</p> <p>Mr. Anurag Tiwari</p>	<p>CHRO of the Year</p> <p>Mr. Hemant Bhatia</p>
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Champion, Leading Practices in Employee Relations

Champion, Leading Practices in Talent Acquisition

Sand-art at Puri Beach Depicts Vedanta Aluminium as Odisha's Partner in Progress



Launch of 'Hum Hain Vedanta' Music Video

'Hum Hain Vedanta' is a song written and composed by Mr. Deepak Prasad, Dy. CEO – Vedanta Jharsuguda, and the talented team of 'Ved Euphony', our employee band at Jharsuguda. Sung with great patriotic fervor, this song is a reflection of our Chairman's vision for making India Aatmanirbhar and his passion for giving back to society. Click on the image to watch!



Click on the stories to read more!



BW BUSINESSWORLD

YEAR AHEAD WHAT TO EXPECT IN 2022

A Case For Modernising Domestic Manufacturing

By Rahul Sharma CEO – Aluminium Business Vedanta

INDIA IS RAPIDLY making its footprint in the world's industrial economy, which is expected to be the fastest growing by 2030. India is the fourth largest economy in the world, with a GDP of \$2.8 trillion in the first quarter of 2021, up from \$2.5 trillion in the first quarter of 2020. As per data from the Ministry of Statistics and Programme Implementation (MOSPI), India's growth rate of 9.5% in the first quarter of 2022 is the highest since 2014. This is a testament to the resilience of the Indian economy and the government's efforts to boost manufacturing and infrastructure development.

Aluminium, the strategic metal
The aluminium industry is the largest non-ferrous metal industry in the world, serving a wide range of applications. India is a leading producer in the global aluminium industry with the second largest alumina production capacity of about 4.5 MTPA. As India moves towards a green and sustainable future, aluminium is critical to meet all sectors of growth from modern infrastructure to high-strength alloys, aerospace, defence, electrical and electronics, and more. It is a key material for the green economy, used in electric vehicles, renewable energy production, and more. It is a key material for the green economy, used in electric vehicles, renewable energy production, and more. It is a key material for the green economy, used in electric vehicles, renewable energy production, and more.

The metal of the future
India is a manufacturing powerhouse, with a focus on product innovation. High-end and high-performance products will be crucial in propelling the growth of India's manufacturing sector. The demand for high-quality aluminium products is increasing, and India is well-positioned to meet this demand. The demand for high-quality aluminium products is increasing, and India is well-positioned to meet this demand. The demand for high-quality aluminium products is increasing, and India is well-positioned to meet this demand.

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INDIAN CEMENT REVIEW



Use of Fly Ash for Environmental Sustainability

The use of fly-ash in the cement industry for environmental sustainability is a 'common sense' alternative. Collaboration between cement manufacturers and large-scale fly-ash producers, such as the aluminium industry, might have a long-term impact on the carbon footprint of the industry, recommends Ajai Gautam, Head - Ash Management, Vedanta Aluminium.

Cement is among the most commonly used building materials, second only to water in terms of global use. Without question, the industry's carbon footprint is a major concern. However, with there being a pressing need for manufacturing industries to go through a green revolution, the time is ripe for cement manufacturers to explore the use of green technologies for manufacturing low-carbon products, such as using fly ash to produce low-carbon cement, as well as working for more robust legislation.

Research by leading Indian cement industry players strongly reflects fly ash based cement increases the strength and reduces the water requirement. Its applications are only expanding. Work is underway to explore the use of fly ash in concrete products by the cement industry so that the concrete products it produces are low-carbon. In financial, collaboration between cement producers and large-scale fly-ash producers, such as the aluminium industry, will go long way in establishing win-win solutions for both. Aluminium producers like Vedanta have long-term partnership with the Indian cement industry, by utilizing their fly-ash as a fuel.



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ET AUTO

Vedanta Aluminium joins hands with GEAR India to deploy lithium-ion forklift fleets

Through this initiative, Vedanta Aluminium undertakes one of the largest deployments of lithium-ion battery-powered electric forklift fleets in India, the company said.

ETAuto • January 05, 2022, 18:17 IST



Rahul Sharma, CEO - Aluminium Business, Vedanta Limited and Arun Chitra, Executive Chairman of GEAR India

New Delhi: India's leading producer of aluminium, Vedanta Aluminium Business, on Tuesday signed an agreement with GEAR (Gemini Equipment and Rentals Private Limited) India, to deploy a lithium-ion battery-powered electric forklift fleet in the country.

Through this initiative, Vedanta Aluminium undertakes one of the largest deployments of lithium-ion battery-powered electric forklift fleets in India, the company said in a release.

According to Vedanta Aluminium, the company would commission 23 such forklifts in a phased manner over the next few months at its aluminium smelter in Jharsuguda, Odisha, which is one of the world's largest single-location aluminium smelters.

FINANCIAL POST

Vedanta Aluminium Launches High-Speed Billets for Global Extrusion Industry

Business Wire

Jan 04, 2022 • January 4, 2022 • 2 minutes read • Join the conversation



High-Speed Billets by Vedanta Aluminium Business Wire

Vedanta's High-Speed Billets can improve extrusion speed by at least 25%, or more

2022-01-04 09:58:00

NEW DELHI – Vedanta Aluminium Business, India's largest producer of aluminium and value-added products, launches High-Speed Billets for the global extrusion industry. Vedanta is India's largest manufacturer and exporter of high-quality aluminium billets, which find end-usage in Building & Construction, Solar/Renewable Energy, Automotive, Electrical and many other key industries.

THE CSR JOURNAL

Vedanta Aluminium releases its sustainability and CSR report for FY21

By Pooja Choudhary | December 10, 2021



Vedanta Aluminium Business unveiled its Sustainable Development Report (SDR) for FY2021 today on [Vedanta Aluminium Business Website](#). In a unique corporate initiative with the TER School of Advanced Studies (TER SAS), Students, alumni and faculty from TER SAS participated in the programme.

Titled 'Nature, Nurture, Future', Vedanta Aluminium's Sustainable Development Report encapsulates the Business' performance across key sustainability parameters such as Energy and Climate Change Management, Water Management, Emissions Management, Air Quality and Environmental Control, Health & Safety, Social Impact and Governance, etc. for the FY2021 performance period.

Launching the report, Rahul Sharma, CEO - Aluminium Business, Vedanta Ltd, said, "The principles of sustainability are imbibed in every aspect of the way we conduct our business. It is imperative for us that our business growth is accompanied by sustainable practices through judicious and responsible utilisation of resources, highest efficiency of assets and processes, and focused approach towards problem mitigation. We are committed to de-riskification of our operations in the long term. As India's largest aluminium producer, we are embracing our pursuit of excellence in all aspects of business, including Environment, Social and Governance (ESG)."

Prof. Shaheen Singh, Dean (Research and Partnerships) at TER SAS, added, "TER School of Advanced Studies students and faculty members are delighted to be part of this launch event that demonstrates Vedanta Aluminium's commitment to sustainability. This unique university corporate partnership shall advance the frontiers of knowledge creation and practice for sustainable development."

Prepared in accordance with the Global Reporting Initiative (GRI) Standards, the report outlines Vedanta Aluminium's approach to sustainability and responsible development aligned to United Nations Global Compact (UNGC) Principles and United Nations Sustainable Development Goals (UN SDGs).

BUSINESS STANDARD

Vedanta records 16% growth in aluminium production in Q3

Capital Market



Vedanta announced its production performance for Q3 FY2022 as under:

The Lanjigarh refinery produced 472,000 tonnes of alumina in Q3 FY22, 16% higher as compared to Q3 FY2021 and 8% lower as compared to Q2 FY2022.

The cast metal aluminium production at its smelters stood at 579,000 tonnes in Q3 FY22, higher 16% in comparison to Q3 FY2021 and 2% as compared to Q2 FY2022.

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