

# ELEMENTAL

Vedanta Aluminium Business' Monthly Newsletter



Glimpses of 75th Independence Day celebrations at Vedanta Aluminium operations



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## Vedanta Aluminium shines at Ministry of Power's PAT Cycle II Scheme

BALCO and Vedanta Jharsuguda's Smelter-I have secured the top spots among peer aluminium producers in Perform, Achieve & Trade (PAT) Cycle-II scheme, by the Government of India. PAT is a regulatory instrument deployed by the Ministry of Power to encourage energy efficiency in energy-intensive industries. BALCO secured the coveted top spot with the most Energy Saving Certificates in Aluminium Industry, followed by Smelter-I.



## BALCO achieves lowest ever Specific Water Consumption in FY21

BALCO has achieved lowest ever specific water consumption in FY21 at 0.60 m<sup>3</sup>/MT in FY 20-21 against 0.71 m<sup>3</sup>/MT in FY 19-20. Through its continuous endeavors to maximize process efficiencies with optimized consumption of natural resources, BALCO has successfully saved more than 40 thousand liters of water in the year 2020-21.



## Vedanta Aluminium Launches 'Sankalp', Safety Culture Transformation Programme

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



## A surgical feat by our medical team

Our medical team at Vedanta Township's hospital performed a surgical feat to restore one of our family members to perfect health! Looking at the pandemic scenario and the patient's inability to relocate, our medical team, led by Chief Surgeon Dr. Sravan Kumar Mishra, took to the task and successfully removed her abdominal tumor.



## Vedanta Jharsuguda launches V-Metal App

To streamline end-to-end tracking of hot metal and its composition in cast houses, and provide real-time access to important parameters at one place, our team at Jharsuguda has developed the 'V-Metal' app. With date-driven insights, this app will enable our team to take the right decisions faster, thereby reducing wastage, power consumption, chances of furnace degradation, and improve overall safety performance.



## Mr. Rahul Sharma inaugurates V-Safe App at our Aluminium Smelter

To promote industrial safety and ensure 'Zero Harm', our team at Jharsuguda has introduced a mobile application for safety, called 'V-Safe'. It is available for use by both Vedanta employees and business partners, and allows users to report potential safety risks for real-time redressal and mitigation.

## Refurbishment of Isolation Transformers at Alumina Refinery

Our team at Alumina Refinery, Lanjigarh, identified that in the calcination area, the power supply for welding, sockets and HV AC panels was not electrically segregated. To prevent potential incidents, they refurbished three transformers from unused items and installed them as separate transformers for auxiliary power supplies. This innovation not only reduced instances of power outage, but is also expected to eliminate potential production losses of 400T/Annum.



## BALCO launches Digital Maintenance Backlog Dashboard

BALCO has developed a Digital Maintenance Backlog Dashboard for all equipment in metal and power operation units. This dashboard is the latest in a long time of digital augmentations to boost efficiency at our operations. The dashboard integrates backlog work, leading to faster analysis and improved planning of all maintenance worklog and their closure.



## Breastfeeding awareness programs for mother & child health

We observed World Breastfeeding Week to sensitize pregnant women and lactating mothers on the importance of breastfeeding for children’s nutrition, and overall development. In line with the theme ‘Protect Breastfeeding: A Shared Responsibility’, we organized awareness sessions across many villages in Korba (Chhattisgarh) & Lanjigarh (Odisha) on importance of breastfeeding, distributed iron supplements and information materials to the women.



## Vedanta supported students script stellar results in CBSE Boards

Students supported through our education interventions at Jharsuguda and Lanjigarh have performed exceptionally at the CBSE Board Examinations 2021. Both DAV-Vedanta International School, Lanjigarh, and DAV Public School, Jharsuguda saw a 100% pass percentage in 10th and 12th standards.

## Helping farmers restart their livelihood post second wave of COVID

To help local farmers get back on their feet after the second wave of COVID, we distributed various agricultural resources like seeds of various cash crops, power-weeders and vermi-compost units to them under our Jeevika Samridhhi project. Mr. Surendra Delki, Assistant Horticulture Office – Kolabira Block, and Mr. Sudam Biswal, Assistant Director of Horticulture (Jharsuguda), facilitated the initiatives on behalf of the government.



## Health awareness programme on monsoon-borne diseases

A week-long health awareness campaign was organised for Jharsuguda residents on monsoon-borne diseases, where our employees volunteered to sensitize the local communities on diseases such as Malaria, Dengue & Diarrhoea. We collaborated with the Wockhardt Foundation, Subhalaxmi Co-operative and community leaders to drive the initiative.

**Vedanta Lanjigarh enrolls local communities in Social Security Schemes**

Under NITI Aayog’s Aspirational Districts Programme, Vedanta Lanjigarh is ensuring the inclusion of deprived sections of the society in Social Security Schemes like PMJJBY (Pradhan Mantri Jeevan Jyoti Bima Yojana) and PMSBY (Pradhan Mantri Suraksha Bima Yojana) in collaboration with SBI and Indian Overseas Bank. Currently, over 600 beneficiaries are enrolled under both schemes, making them eligible to avail Rs. 2,00,000 as Life Insurance cover and Rs. 2,00,000 as Accident Insurance.



**Vedanta promotes clean cooking in villages of Lanjigarh**

Vedanta Aluminium has introduced fuel-efficient chulhas to local communities at Lanjigarh. Earlier, they relied on traditional chulhas for cooking, which resulted in more firewood consumption and more smoke. A single household used to consume as much as 200 kgs of firewood each month. The transition to the fuel-efficient cooking stove in these households is expected to reduce CO2 emission by at least half and mitigate health risks for women, who were severely affected by smoke inhalation, to breathe easy.

**Vedanta dedicates revived ponds and borewells to Jharsuguda community**

Vedanta has revived community ponds and repaired borewells in four Gram Panchayats of Jharsuguda, to ensure post-monsoon water availability for nearly 3,000 people. We worked with local communities to carry out deep cleaning of the ponds and repair handpumps for groundwater recharge and rainwater harvesting. This crucial ecosystem restoration process will prevent further deterioration of these local water resources. In addition, we also constructed changing rooms for bathers near all the ponds and put up information materials on cleanliness and personal hygiene to sensitize people on various health issues.



## Meet Lt. Col. Sandeep Mohapatra, our Chief Security Officer at Alumina Refinery operations

A bike junkie and traveler, he loves to explore the woods on his Harley, when he is not working on ensuring water-tight security at our plant and township.



According to him, “The spirit of a traveler will always remain free, will feed the soul and the mind. Release all negative hormones and ensure good and positive vibes. The self must talk to the soul within & with every trip improve one to be the better version of self.”



## And this is Harshvardhan Pande, Head - Health, Safety & Environment, at Alumina Refinery operations

An ace photographer and wildlife enthusiast, Harshvardhan is fond of buying even more photography accessories than he has now, and keeps experimenting with them. His passion for photography is equally matched by his determination to make our refinery operations Zero Harm, Zero Waste and Zero Discharge.



**CEO Connect at Jharsuguda**

On his tour of our Jharsuguda operations, Mr. Rahul Sharma, Dy. CEO - Aluminium Business, engaged with the employees and leaders, motivated and piloted them towards our journey of excellence. He encouraged young leaders across various functions to drive the business on its growth journey with focus on business sustainability, digitalization, innovative problem solving and safety.



**Gala showcase of 'Aatmanirbhar Bharat' ad film & 'Hum Hindustani' music video!**



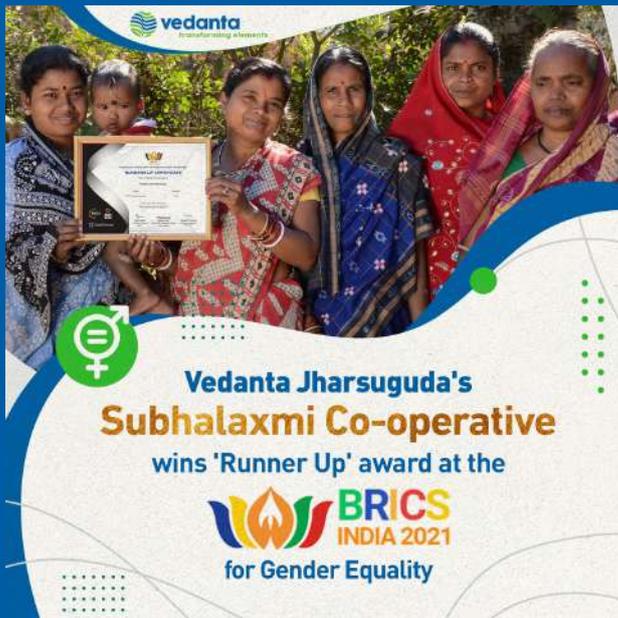
**An invigorating interaction with Mr. Ajay Goel, Dy. CFO - Vedanta Ltd. & Ms. Sonam Donkar, CFO - Aluminium Business**

Our employees had an invigorating interaction with Mr. Ajay Goel, Dy. Group CFO, who galvanized the young teams of our Sales, Logistics and Finance teams functions on his maiden tour of our operations. He was accompanied by our CFO and newly appointed Chief Digital & IT Officer, Ms. Sonam Donkar. Meeting the Digital & IT teams, she deliberated on our digital transformation priorities to propel the organization forward on its growth trajectory.



# INTERNATIONAL ACCOLADE FOR VEDANTA JHARSUGUDA!

We bagged 'Runner Up' at the prestigious **BRICS SDG Awards 2021** in '**SDG 5: Gender Equality**' Category for Subhalaxmi Co-operative, our flagship women empowerment project.



## More Wins for Vedanta Jharsuguda!



**Runner Up** | Leadership Development Award (2021) at the 5th National HR Circle Competition by CII



**6 awards** at National Convention for Quality Circle 2020

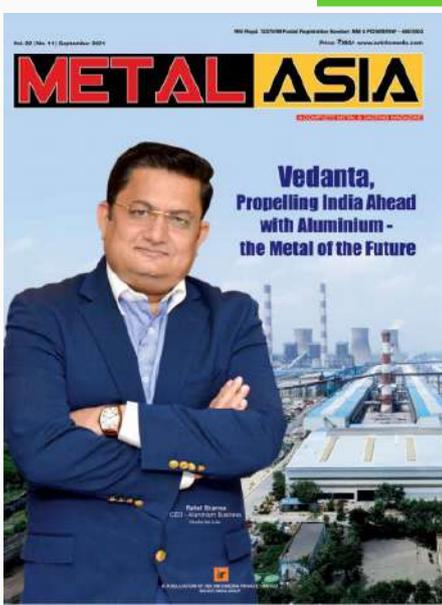


**Winner** | Greentech Effective Safety Culture Award 2021

Click on the stories to read more!



## METAL ASIA



## ET ENERGY WORLD

### We plan to expand our renewable energy mix further: Rahul Sharma, CEO – Aluminium Business, Vedanta

He said the company is also looking to partner with extruders, downstream manufacturers catering to the solar industry

Rahul Sharma | ETEnergyWorld | August 26, 2021 | 10:43 IST



New Delhi: Vedanta Aluminium has plans to expand its renewable energy mix and is evaluating on-site generation and use of clean energy at their alumina refinery and smelter operations. Rahul Sharma, chief executive officer, Aluminium Business, Vedanta, told ETEnergyWorld.

Vedanta Aluminium had recently procured 35.4 million units of solar and non-solar renewable energy primarily at the Indian Energy Exchange Green Market, for its facility at Jharsuguda in Odisha. This purchase resulted in the reduction of about 0.28 million metric tonnes of carbon dioxide equivalent for the firm.

Aluminium is used in most clean energy technologies but especially solar, where it accounts for 85 per cent of most photovoltaic components in the form of the frames and mounting structures that hold the PV panels together and support them.

## EPC WORLD



Products, Process, Region, as well as liquid level. Vedanta Aluminium is India's largest producer of top-quality bauxite. We are also the largest producer of one ton in the world outside of China.

We mostly offer our customers the highest quality of products, but also technical support and expertise, apply chain stability as well as process and transportation policies and other clean energy. Case in point, our highly advanced R&D capabilities has allowed us to produce sophisticated alloys such as Primary Foundry Alloy and AlSi1 Tige for the very first time in India. Hooked on quality assurance of our material and finished products have made us one of the most preferred suppliers of aluminium to local/global markets. At the same time, we are also evolving our Customer Return Management (CRM) system, making them more advanced and sensitive to our customer's concerns.

Here an technological transformation and modernizing a key role in driving the economic. The digitization, integration and automation opportunities available today an enabling manufacturing ecosystem to evolution internally and across their value chain in ways that can provide a positive impact to productivity as well as design and quality. Harvesting capabilities comes with benefits such as cost saved by supporting equipment, reducing working equipment failure and downtime, and facilitating predictive maintenance and ensuring improved customer health, safety and security.

For example, Vedanta Aluminium has Applied cutting-edge technology like digital twin to monitor asset health and get prediction of potential equipment failure or breakdown, assets condition and diagnosis in production, its structure, assets. Deep Learning algorithms and various advanced model techniques, which are fine-tuned industry, are allowing Advanced Asset Performance Management at our mines and power plants.

We have introduced Applied Logistics Control Tower for real-time and holistic view. Machine Learning and OR (Operations Research) based mathematical modelling that allow us to do simulation based planning, reduce costs and mitigate and improve efficiency, improving, replace and leading production operations.

We are also using technology to increase our environmental footprint and ensure compliance to laws and regulations. We are using water analysis and chemical analysis to analyze plant area for identification of hot spots for improving our efficiency. Our water and energy flow based use-driven usage analysis offers high-level visibility for colored surveillance to ensure consistency of operations, location pinpoints and audit compliance.

Going ahead how do you look upon the future prospects?

The trends and events across the globe that give the right growth impetus to our operations are: towards meeting the post-pandemic recovery and propel it to the path of USD 5 trillion. It can provide India with an unshakable economic advantage in the global arena. The road of the best is to allow the businesses being faced by various industries, such as education, for the realization of the Amishatma Bharat dream.

## WIRE & CABLE

VEDANTA | WIRE & CABLE | Vedanta Ltd., catering to raw material needs of power sector with superior quality wire rods

**Vedanta Ltd.: Catering to Raw Material Needs of Power Sector With Superior Quality Wire Rods**

SHARES

**"Aluminium is indispensable for the wire and cable industry owing to its high structural strength, light-weight, high conductivity, high ductility, non-corrosiveness, and non-magnetic properties."**

- Increased regulation on cables and substations, which will require increased construction and infrastructure to ensure the availability of essential utilities to people.
- Prevalence of electrical appliances, air conditioning units and other white goods, as a consequence of modern life.
- Between 2016 and 2019, the Indian government has planned an investment of USD 1.1 trillion in electricity infrastructure, keeping the country's power transmission network.
- The government also plans to double the share of coal-based electricity generation capacity of the electric energy to 50 percent by 2024.
- The electric power demand is expected to be significantly higher due to the electrical fast consumerism, electrical infrastructure in the next 5-10 years, with the existing cost of technology, higher electricity rates and the central government's push for EV adoption.
- Operating large industrial-scale projects, the Vedanta's proposed aluminium park at Jharsuguda in Odisha, and the government's railway projects like 100 percent electrification of Indian Railways and Smart Cities are also expected to boost the demand for electricity.
- With an opportunity to sell superior quality, international products like Cross Barbed Grid reinforcement for the national grid of neighbouring countries can also drive electricity demand.

## MINERALS & METALS REVIEW

**MNR Minerals & Metals Review**

VOLUME NO. 47 | ISSUE NO. 08 | AUGUST 2021 | Price Rs. 400

BALCO: Making India a Self-reliant nation through Green Metal

Abhijit Pati  
CEO & Director  
BALCO

## INDIA CSR

**Vedanta Jharsuguda wins at BRICS India Solutions for SDG Awards 2021**

By Vedanta Jharsuguda | 31/08/2021 | 10:00 AM

Vedanta Jharsuguda, India's largest producer of aluminium and value-added products has bagged 'Rural Up' position at the prestigious BRICS India Solutions for Sustainable Development Goals (SDG) Awards 2021. The company won the coveted award in SDG 5: Gender Equality category for its flagship community development project in women empowerment – Subalaxmi Co-operative, a 100% member owned 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. Vedanta conceived the project in 2006, during the inception phase of its Aluminium Smelter at Jharsuguda, in response to the high demand for livelihood opportunities in nearby villages.

Started with only 10 women and their initial contribution of INR 1,000, Subalaxmi Co-op has grown to strength over a decade to become one of India's largest women's cooperatives with presence in 72 villages of Jharsuguda. At its core, Subalaxmi Co-op has four basic components – Capacity Building and Livelihood Promotion, Financial Services (savings & credit facilities), Social Development and Collaboration & Partnership.

Rahul Sharma, CEO Aluminium Business, Vedanta Ltd., said, "The principles of sustainable & responsible development have guided our action at and beyond operations. It has been our greatest honour to be the partner in progress of these superwomen from Jharsuguda. Hailing from humble backgrounds, they have challenged and overcome

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