



ZINC NEWS

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ZINC BATTERIES POWERING CRITICAL SECTORS

ISSUE FOCUS

Focus Story: 03 Hindustan Zinc hosts Investors and Analysts at Rajpura Dariba Complex

Special Feature: O6 Announcing Financial Support for Higher Education of Transgender Employees

COVER STORY



ZINC BATTERIES POWERING CRITICAL SECTORS

The global battery market is expected to expand from 800 GWh in 2023 to approximately 4000 GWh by 2030, with a projected CAGR of 25% across stationary and mobility applications. Zincbased batteries are anticipated to decrease the global energy market's reliance on specific regions where minerals and processing, such as lithium. We have been closely monitoring developments in this field and have taken a significant step by signing an MoU with Aesir Technologies, Inc.



Under this MoU, we will be the preferred supplier of zinc, a critical raw material for these cuttingedge batteries. Our high-quality zinc will be used in their next-generation zinc battery technologies. NiZn batteries will be used in high-end defense sector (including aerospace and submarines), renewable energy and critical infrastructure for data centres and 5G telecom.

Additionally, Zinc based batteries offer a compelling alternative to modern energy storage solutions, delivering higher power at lower costs, with minimal maintenance and lifespans of up to 20 years.



Arun Misra CEO – HZL

"Zinc has a vital role to play in the lowcarbon future, and I'm pleased to share that Hindustan Zinc has signed an MoU with US-based AEsir Technologies to advance the use of zinc in next-gen battery tech. This is yet another step in our ongoing developmental work in the clean technology space, and through this partnership, opening we are new avenues of zinc's critical usage in the ongoing global energy transition. Here's to a safe & sustainable tomorrow."

Our Zinc will now be used in Nickel Zinc Batteries



FOCUS STORY



HINDUSTAN ZINC HOSTS INVESTORS AND ANALYSTS



Hindustan Zinc hosted investors and analysts from leading financial institutions at our Sindesar Khurd Mine and Dariba Smelting Complex, the epicenter of our world-renowned zinc, lead and silver operations. Our guests witnessed cutting-edge innovations, superior products, and our unwavering commitment to sustainability. The day was marked by insightful discussions and the strengthening of collaborations, representing a significant step towards a forging new partnerships.



BUSINESS



1 DAY TO GO! HINDUSTAN ZINC TO PARTICIPATE IN THE 4th ACMA RAW MATERIAL CONCLAVE, DELHI

You can find us at the 4th ACMA Automotive Raw Material Conclave and Exhibition on Non-Ferrous Metals on the 3rd of July, 2024. We are at the forefront of automotive innovation with our cutting-edge products, as we unveil the Future of Mobility. We will be showcasing our unique offerings for the automotive industry at the event. The event promises to showcase the latest advancements and trends in the automotive industry, highlighting the significant role of non-ferrous metals in driving sustainable and efficient mobility solutions.



HINDUSTAN ZINC RECOGNIZED FOR BEING RAJASTHAN'S 2nd HIGHEST TAXPAYER

Hindustan Zinc has been recognized for being Rajasthan's 2nd highest taxpayer by Rajasthan GST Department. The company was felicitated during the celebrations on completing 7 years of GST. We continue to remain committed towards fostering economical and sustainable growth, ensuring India achieves it's goal of #ViksitBharat by 2047.



OLÁ! OUR ZINC IS NOW SUPPLIED TO BRAZIL



Our global reach extends to over 40 countries across Southeast Asia, the Middle East and now South America with our expansion into Brazil. We are providing Special High Grade Zinc for automotive and steel galvanization in Brazil. Among our esteemed customers is Brazil's largest fully integrated steel producer. We are committed to establishing a high-end global presence in new markets.

DIGITAL & INNOVATION



REAL - TIME ONLINE TEMPERATURE MONITORING FOR ENHANCED EFFICIENCY

part of digitalizing our As operations, we have introduced a new technology that allows online temperature monitoring system for cells that offer precise numbers, electrode positions (Cathode and Anode) and temperatures directly on the computer screen. With realtime alerts and detailed reports, immediate rectification of hot and cold spots is possible, ensuring optimal performance.



COMPUTER VISION-BASED SINTER BELT HEALTH MONITORING



A sinter machine consists of a series of pallets where concentrate with fluxes is placed, and the bottom layer is ignited using fuel. Fans blow fresh air from below, carrying the flame across the bed and sintering the ore into lump form. We have developed a computer vision-based model to monitor and analyze the health of the sinter belt conveyor, detecting pellet spacing and indicating conveyor health. This ensures uniform oxidation of zinc/lead sulphide concentrates, reducing sulphur content in the sinter product. Additionally, it has extended the ISF campaign life by 0.25 days per month.

TELE-REMOTE OPERATIONS OF LOADER

Using tele-remote operations, the loader can be controlled from the surface, ensuring efficient and safer mining during shift changes. This reduces idle time and increases machine utilization for continuous. round-the-clock operations. This technology allows the operator to control the machine remotely using multiple cameras, sensors, and communication systems. This smart technology maximizes loader utilization & ensures ergonomic and safe operation during shift changes.



SPECIAL FEATURE



HINDUSTAN ZINC Zinc & Silver of India



ANNOUNCING FINANCIAL SUPPORT FOR HIGHER EDUCATION OF TRANSGENDER EMPLOYEES

In a groundbreaking move towards inclusivity, Chairperson Priya Agarwal Hebbar unveiled the new 'Financial Support for Higher Education of Transgender Employees' policy at Zinclusion, offering up to INR 1 Lakh to support them. Currently, 16 transgender individuals are in mainstream roles, integrating this community and fostering a safe environment. Our hiring for mainstream jobs, ongoing employee sensitization sessions, and supportive workplace policies make us a Great Place To Work.



The Zinclusion event featured a panel discussion on 'Challenging Barriers, Fostering Inclusivity,' with insights from Chairperson Priya Agarwal Hebbar, CEO Arun Misra, CHRO Munish Vasudeva, and Zainab Patel, Diversity, Equity, Inclusion, Belonging (DEIB) leader at Cummins Inc. Zainab shared her experiences as a transgender community leader who reshapes norms for an inclusive workplace where diverse talents thrive. The session also saw parents of transgender employees sharing their pride at seeing their children thrive at Hindustan Zinc. All Vedanta Business Units joined this event virtually. At Hindustan Zinc diversity is a core value, empowering every individual to achieve excellence. Every single day.



PEOPLE PRACTICES



CELEBRATING THE SPIRIT OF WOMEN IN MINING



Honoring the trailblazing women transforming the mining industry! From India's 1st underground women mine manager to the 1st all-women underground mine rescue team, Hindustan Zinc celebrates the incredible achievements and spirit of our women in mining. With about 22% women in our executive workforce, we strive for equal representation and aim to maintain 30% diversity across all management committees.









INTERNATIONAL YOGA DAY



ZINC PARIVAR CELEBRATES INTERNATIONAL YOGA DAY

Celebrating #InternationalYogaDay, Zinc Parivar from across locations united to embrace the spirit of yoga with dynamic sessions that energized the bodies and uplifted the souls.



















PEOPLE PRACTICES



COMMITTED TO CONTINUOUS IMPROVEMENT

As part of an ongoing commitment towards upskilling and #transformingtheworkplace, we organized a 4-day training program on Statistical Tools in collaboration with the Indian Statistical Institute, Kolkata. This program focused on statistical methods such as regression analysis, hypothesis testing, control charts, and their application in problem-solving through a datadriven approach. Graced by the senior leadership team, our commercial, central planning, AO leads, and reliability teams also attended the session.



TRANSFORMING HEALTH CARE FOR ZINC PARIVAR

In our continued efforts to further improve community healthcare and well-being, Zinc Smelter Debari inaugurated the renovated hospital lab and physiotherapy room. Chief Medical Officer HZL – Dr. Salma Shah inaugurated the renovated lab in the presence of Deputy CEO – IBU Smelters, HZL – Mr. Manas Tyagi, Deputy SBU Director, Zinc Smelter Debari – Mr. Ameet Wali along with senior management and employees.



#WOMENINLEADERSHIP DEVELOPMENT PROGRAM: EMPOWERING FUTURE LEADERS

To nurturing leaders from within and empowering our women talents to ascend to leadership positions, we collaborated with Gallup to conduct an impactful Leadership Development Program for 40 women leaders. This power-packed event centered around transformative themes of Building Leadership Brand, Driving High Performance Teams, and Mastering Resilience & Wellbeing as effective leaders to thrive in the workplace.



LIFE IN ZINC CITY



A BIG JOURNEY THAT BEGAN WITH SMALL STEPS IN ZINC CITY

Our women-led dairy, Ghatawali Mataji Farmer Producer Company (GMFPO), has made an incredible impact in Zinc City. Achieving Rs. 1 Crore turnover in FY 2023-24, marking a two-fold increase from Rs. 54 Lakh in 2022-23. GMFPO processes & markets milk under the brand name Gauam. Their products include fresh milk, cream-based ghee, A2 Bilona Ghee, curd, buttermilk, paneer, mava and khoya. The products are available both offline and online, ensuring widespread access. Shop now from Amazon!



ZINC SMELTER DEBARI INAUGURATES A BRAND-NEW RESTAURANT IN EMPLOYEES' COLONY



Zinc Parivar Debari unveils an all-new restaurant, designed to foster friendships and create lasting memories beyond the workplace. In our continuous effort to #TransformingWorkplace, ZSD's senior management, along with Deputy CEO, IBU Smelter, HZL – Mr. Manas Tyagi, and Deputy SBU Director, Zinc Smelter Debari – Mr. Ameet Wali, inaugurated the newly constructed restaurant in Zinc Smelter Debari Colony.

BLOOD DONATION CAMP - SHARING THE PRECIOUS GIFT OF LIFE, ONE DROP AT A TIME!

On the occasion of World Blood Donor Day, we collaborated with Red Cross Society to organize a Blood Donation Camp at HZL Dispensary, Udaipur. This heartwarming event saw the generous contribution of 32 units of blood, showcasing the community's spirit of giving. The event was honored by the presence of distinguished guests, including District Collector - Mr. Arvind Poswal, Deputy CEO - HZL, Mr. Krishnamohan Narayan, CHRO Hindustan Zinc, Mr. Munish Vasudeva and Chief Medical Officer - HZL Dispensary, Dr Salma Shah.



SAFE AND SUSTAINABLE



HINDUSTAN ZINC HAS BEEN NAMED ON TIME'S WORLD'S MOST SUSTAINABLE COMPANIES 2024 LIST!

At Hindustan Zinc, sustainability isn't just a choice—it's our foundation. Our zinc and silver metals play a critical role in the global energy transition and clean technologies like renewable energy, electric vehicles and energy storage solutions. We are committed to ensuring India's sustainable growth by providing essential raw materials that enhance infrastructure life, protect against corrosion and support the development of green technologies. Recognized as the world's most sustainable company in metals & mining sector by S&P Global Corporate Sustainability Assessment 2023, we foster a green value chain from operations to applications. Click here to view the list: <u>https://lnkd.in/d3QZPFC8</u>



HINDUSTAN ZINC JOINS PICHOLA LAKE CLEANING DRIVE



Our Employees participated in the cleaning of Pichola Lake organized by Rajasthan State Pollution Control Board.

ELEVATING SAFETY STANDARDS AT ZINC SMELTER DEBARI

At Hindustan Zinc, safety transcends protocol; it's ingrained in our ethos. Demonstrating our continuous focus real-life simulations on and commitment to effective response and prevention, Zinc Smelter Debari recently organized a Work at Height Rescue Mock Drill, simulating a rescue from scaffolding at a height of 10 meters. This drill showcased our preparedness and dedication to improvement in safety ongoing practices. Here's to reaching new heights and achieving many more safety milestones.



SMART

COMMUNITY

ZINC FOOTBALL PLAYERS CALLED UP FOR FIFA-AIFF ACADEMY TRIALS



UNLEASHING BRILLIANCE, NURTURING DREAMS FOR 1400+ STUDENTS



The month-long Shiksha Sambal Summer Camp concluded on a high note, impacting over 1400 students from communities around our operational areas with a rich blend of educational, skill development, sports, and cultural activities. The camp culminated in a vibrant cultural program, spotlighting the hidden talents of participants and providing a platform for their creativity to shine.

EMPLOYEE-LED SESSIONS ILLUMINATE YOUNG MINDS OF GOVERNMENT SCHOOLS

A 15-day long summer camp was organized at the Senior Secondary School, Bhallo Ka Guda where our employees took sessions on mental wellbeing, self-defense and career opportunities in the armed forces. Dr. Sumeet Siroya, Chief Medical Officer, Zinc Debari enlightened Smelter over 150 students on the importance of mental wellbeing and happiness while Major Raviraj Pullabhatla, Chief Security Officer, ZSD guided the students on potential career paths in the armed forces.



AWARDS & RECOGNITION





FICCI honored us with the 2nd FICCI Sustainable Industrial Practice Award in the large industry category, while CDP recognized our (A-) Leadership Band for our efforts toward climate change and water security.



Pantnagar Metal Plant Wins 4 Gold Awards at 3rd Kaizen Competition by Quality Circle Forum of India (QCFI) Rudrapur Sub Chapter

Hindustan Zinc wins awards at People First HR Excellence Awards for the following categories



Employee



Technology Deployment in HR



Ritika Singh, HR Future Leader Unit HR Head, PMP



Unit HR Head, KYM



Manish Lahoti,

Talent

Acquisition

People First Leader, Unit HR Head, ZWM

Furthermore, our Unit HR Heads were awarded for their exemplary performance at respective units.



Hindustan Zinc wins two awards, Best Risk Practice and Masters of Risk in ESG, both in the Large-Cap category at the India Risk Management Awards by CNBC TV18.



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HINDUSTAN ZINC Zinc & Silver of India

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