

Hindustan Zinc Limited

Investor Presentation



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Presentation Outline

01

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Competitive Advantage,
Operational Asset Base &
Expertise

02

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03

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Key
Takeaways

Hindustan Zinc's Distinctive Competitive Advantage

- World's **2nd largest** integrated **zinc producer** and **3rd leading silver producer**
- Fully integrated **India's only zinc-lead-silver producer** with over five decades of expertise in mining and smelting
- **2nd highest zinc R&R base** globally with average grade of over 5% and 25+ years of mine life
- In the first decile of the global zinc mining cost curve, **lowest cost achieved in FY24** in last 3 years
- **75%+ market share** in India's primary zinc market
- Robust **EBITDA margin of over 50%** backed by operational excellence, technological advancements, cost optimization and strong resource base

- **Irreplaceable resource and asset base**, with technologies providing flexibility of running operations based on the market landscape
- Sustainability leader with **first rank in S&P sustainability** assessment globally for 2nd consecutive year, ESG focus with economic prudence
- **50%** power sourcing through **renewable energy sources** by 2026. Board approved the plan to increase it to 70% by FY 2028.
- **Asia's first** low carbon 'green' zinc producer
- Consistently **AAA rated** by leading credit rating agencies
- One of the most valued metal and mining company in India with a **market cap of c. ₹ 188 k crores**




Smelting Capacity

Zinc Smelting
913,000 TPA

Lead Smelting
210,000 TPA

Silver Refining
800 TPA



 Total R&R
456.30 Mt



 Ore production
16.52 Mt



 Metal capacity
1.12 Mt



 Total captive capacity
603.16 MW

India's only Zinc-Lead-Silver Producer & World's 2nd Largest Integrated Zinc Producer and 3rd Leading Silver Producer

● World's largest underground mine

Rampura Agucha Mine

Reserves : 44.4 Mt
Resources : 24.8 Mt
Reserve Grade : Zn 11.0%, Pb 1.2%
FY24 Ore Production : 4.93 Mtpa

● Sindesar Khurd Mine

Reserves : 40.1 Mt
Resources : 68.9 Mt
Reserve Grade : Zn 3.1%, Pb 2.0%
FY24 Ore Production : 5.65 Mtpa

● Rajpura Dariba Mine

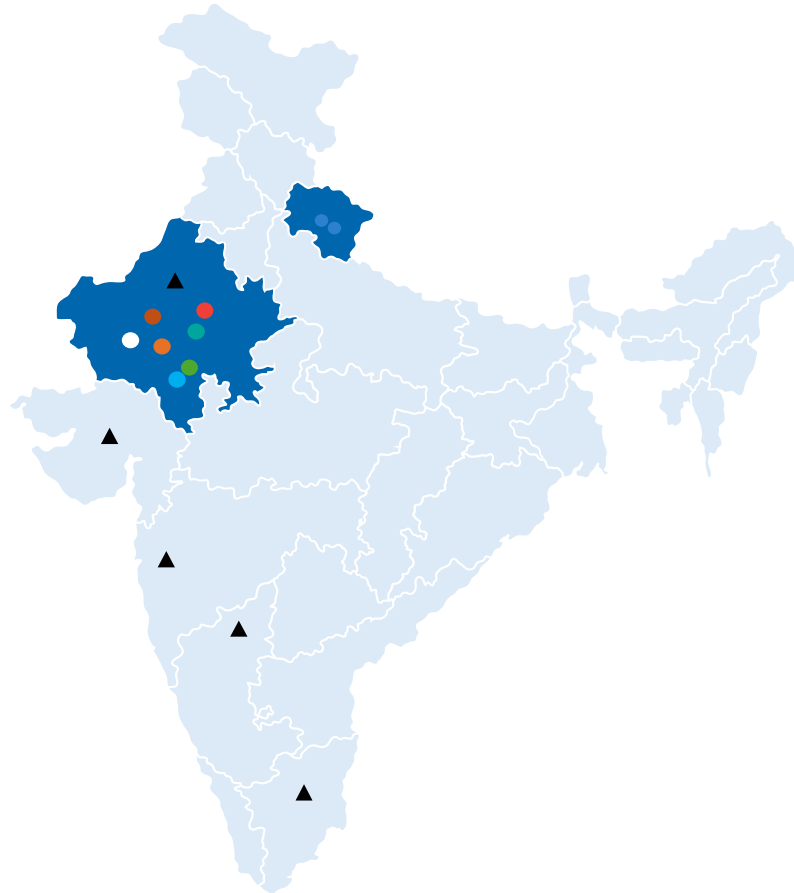
Reserves : 47.1 Mt
Resources : 40.5 Mt
Reserve Grade : Zn 5.4%, Pb 1.7%
FY24 Ore Production : 1.34 Mtpa

● Zawar Mining Complex

Reserves : 42.2 Mt
Resources : 100.6 Mt
Reserve Grade : Zn 2.6%, Pb 1.5%
FY24 Ore Production : 4.03 Mtpa

● Kayad Mine

Reserves : 1.3 Mt
Resources : 5.4 Mt
Reserve Grade : Zn 5.2%, Pb 0.7%
FY24 Ore Production : 0.56 Mtpa



Single located largest zinc lead smelter globally ●

Chanderiya Smelting Complex

Pyrometallurgical Lead Zinc Smelter: 105,000 tpa Zinc and 90,000 tpa Lead
Hydrometallurgical Zinc Smelter: 480,000 tpa Zinc

Dariba Smelting Complex

Hydrometallurgical Zinc Smelter: 240,000 tpa Zinc
Lead Smelter: 120,000 tpa Lead

Zinc Smelter Debari

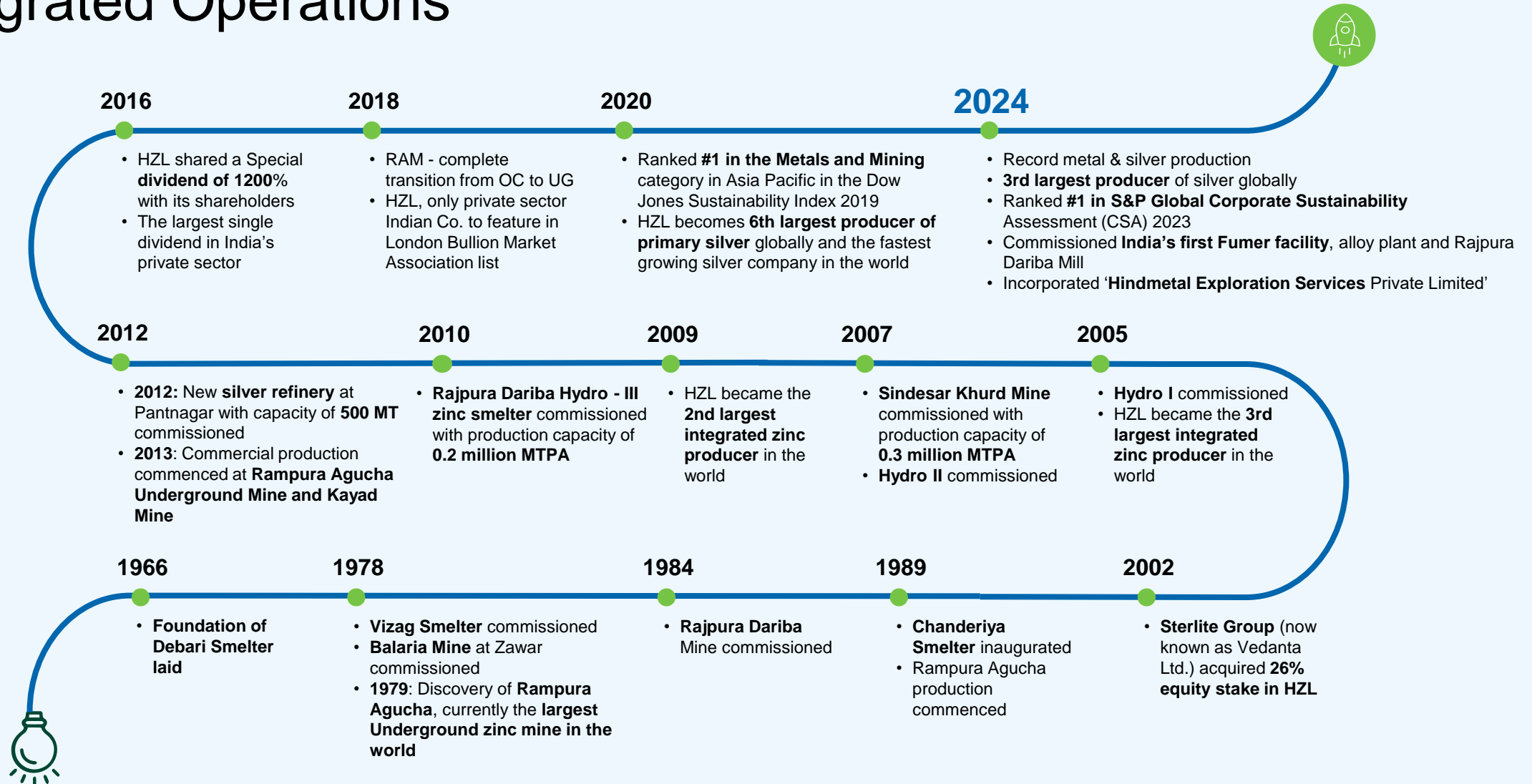
Hydrometallurgical Zinc Smelter: 88,000 tpa Zinc

Pantnagar (100% RE grid power) ●

Processing & Refining of Zinc, Lead & Silver

▲ Wind Power Generation
Capacity of around 273.5 MW

Over Five Decades of Expertise in Mining and Smelting Integrated Operations



Hindustan Zinc's Vision, Mission & Growth Narrative

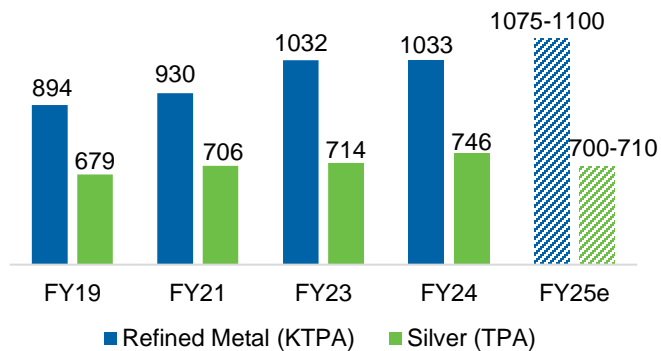
Vision to be the world's largest and most admired Zinc, Lead & Silver Company

01

Capacity Expansion

- Roaster of 160 ktpa at Debari: FY 2025
- UG mine ramp up and debottleneck roasting, leaching & purification operations
- Techno-commercial study to double production to 2+ Mtpa
- Increment in Silver to 1,000 Tonne

Refined Metal Production

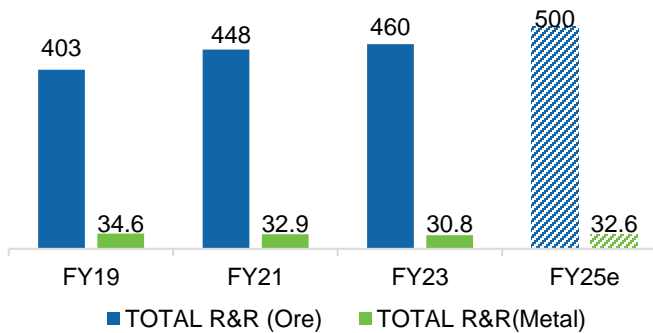


02

Mine Portfolio with long life

- Innovative technology and advanced geophysics for exploration
- Retain existing mining leases and acquire new potential areas
- Upgrade Ore Reserves

Reserves and Resources (million tonnes)

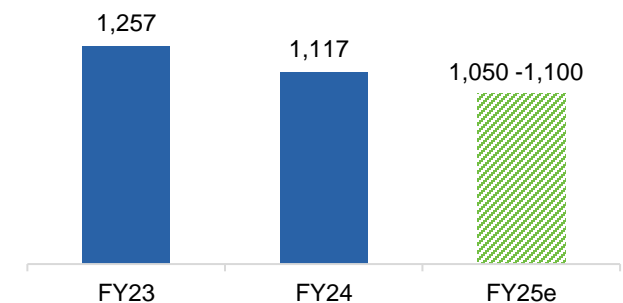


03

Cost Optimization

- Efficient ore hauling, higher volume and grades besides higher productivity through ongoing efforts in automation and digitalization
- 530 MW RE power at a fixed rate for 25 years, providing better cost visibility and predictability

Cost of Production (\$/t)



Hindustan Zinc's Vision, Mission & Growth Narrative

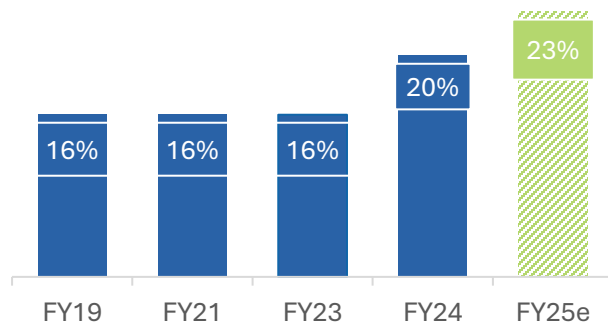
Mission to enhance stakeholder value, be the lowest cost producer & maintain market leadership

04

Expanding VAP Portfolio

- Ramp up of 30 kt Alloy plant
- Forward integration through 510 ktpa Fertilizer plant at Chanderiya by FY26
- Focus on the innovation of new products in lead alloys
- Increased penetration of zinc alloys. Target increase of over 60% in next 3 yrs, focus on HZDA, CGG, ZAM, zinc dust, EPG

Value Added Product (%)



05

Sustainable Future

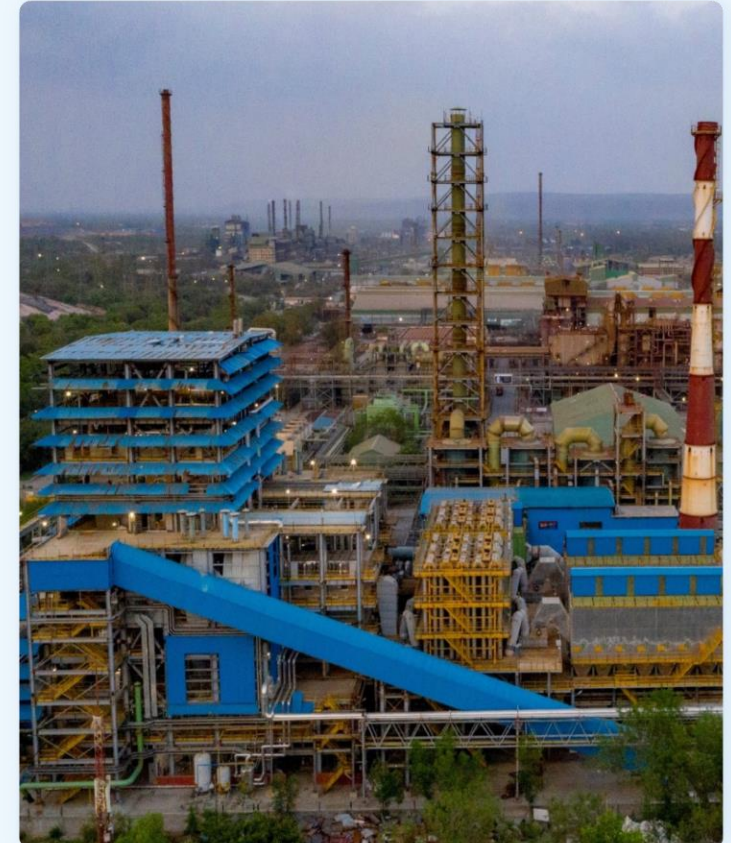
- The first power flow of 450MW RE PDA to cater 50% of HZL's power requirement, reducing 2.7 Mt of carbon emissions, commenced in May 2024
- **Board approved the plan to increase it to 70% by 2028** with a carbon emission reduction from 5.5 MtCO₂e to 1.7 MtCO₂e per annum
- Commissioned Fumer plant at Chanderiya focusing on waste to wealth creation
- Zero Liquid Discharge plants at Agucha and Zawar

Road Ahead

530 MW Green power additions

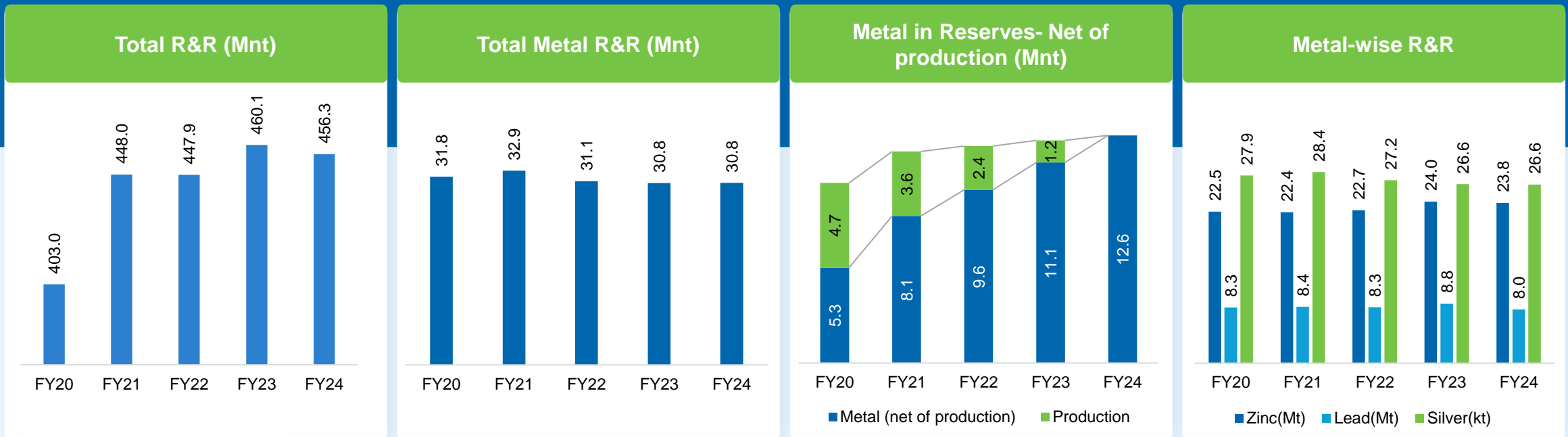
USD 1 Bn investment towards climate change initiatives

100% Mechanized charging at Zawar



2nd Highest Zinc R&R Base Globally with 25+ Years of Mine Life

Increasing the longevity of the mines for business continuity and sustainable value accruals has been a key strategic priority for Hindustan Zinc. With a total R&R (Resources & Reserves) of 456.3 Mnt and a metal content of 30.8 Mnt, the Company maintains an overall mine life of 25+ years.



★ Key Highlights

With a focused approach towards exploration, we have **added ~2.5x metal reserves** as compared to FY20 end, on a net of production basis

Total **R&R is up by c.35% in last 5 years**, that is an incremental ore of 118 Mnt, considering production of 65.1 Mnt of ore in this period

Total Ore Reserves: 175.1 Mnt (net of production of 16.5 Mnt) in FY24, as against 173.5 Mnt in FY23

World's 3rd Largest Silver Producer & India's Only Silver Producer



Growth

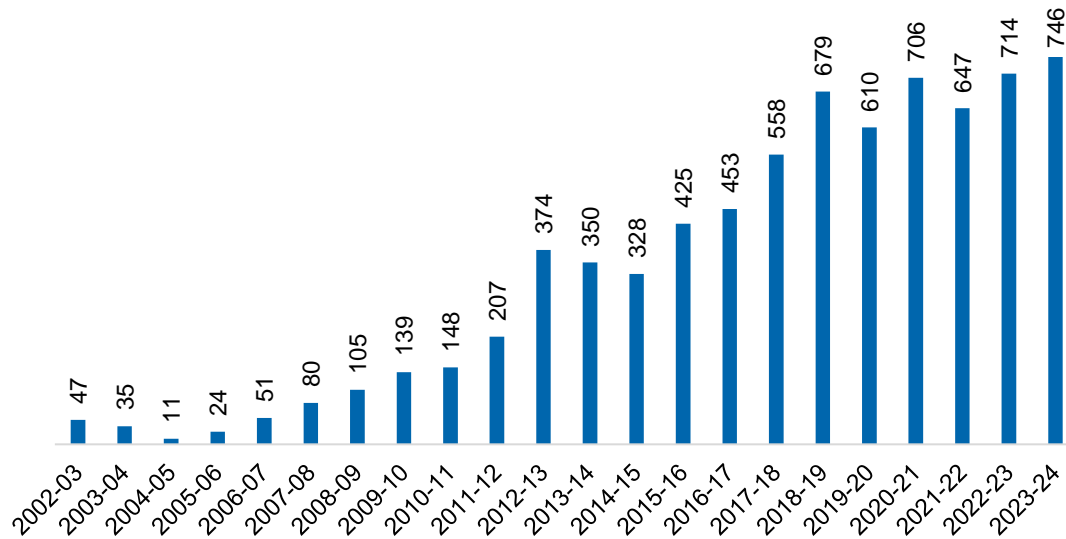
Silver production grew over 2x in last 10 years and 15x in last 2 decades. With FY 2024 production of 746 MT, the production increased by c.5% y-o-y



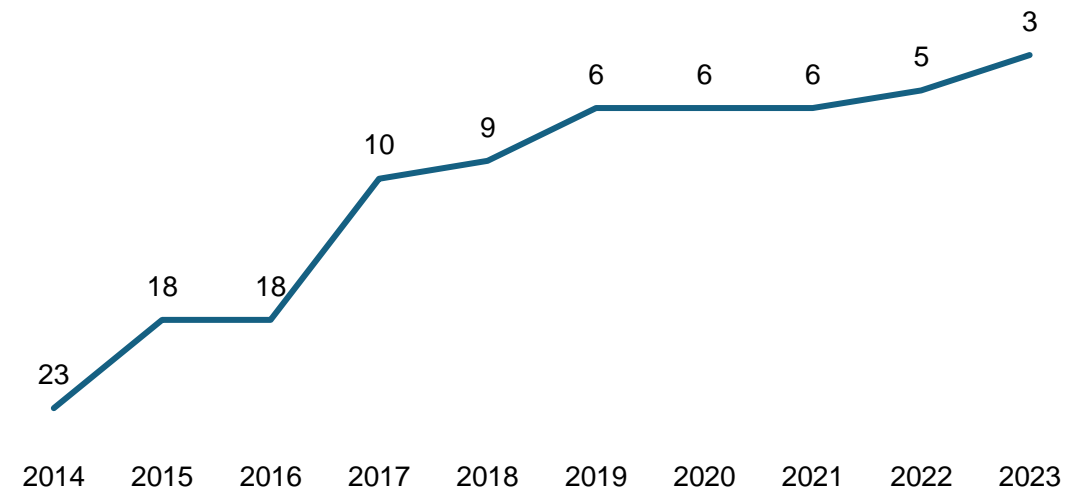
Global Leadership

Hindustan Zinc is India's only silver producer and is now the 3rd largest silver producer globally as per the World Silver Survey 2024 by the Silver Institute

Silver Production (MT)



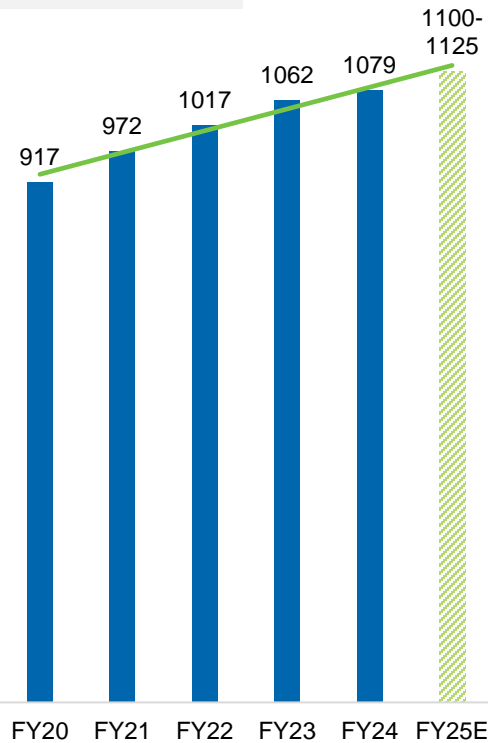
World Silver Survey - HZL's Ranking



Showcasing Industry Leading Operational Performance

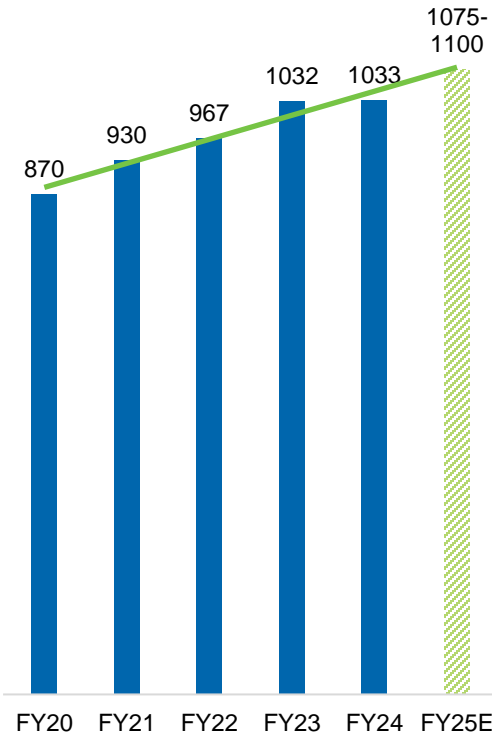
Mined Metal (kt)

CAGR: 4.2%



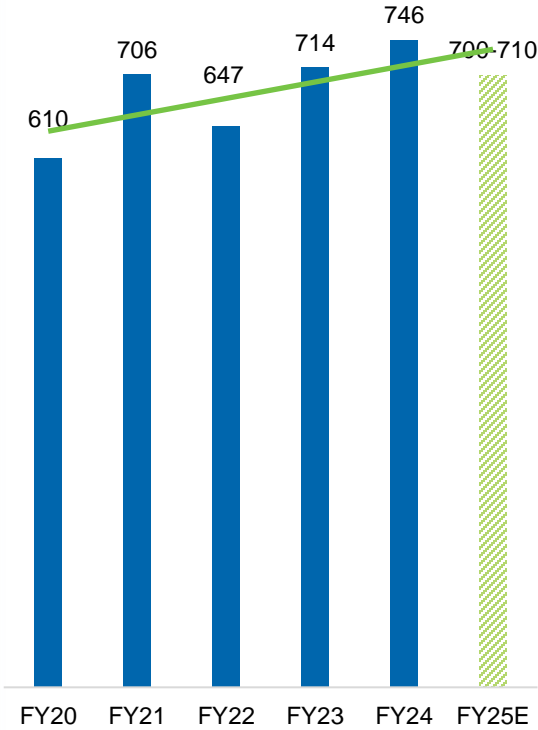
Refined Metal (kt)

CAGR: 4.4%



Silver (MT)

CAGR: 5.2%

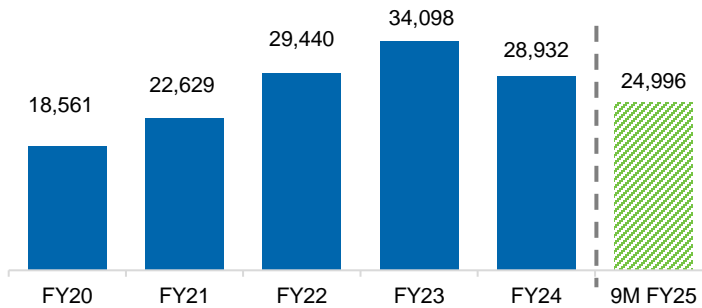


- Hindustan Zinc's production has grown at an industry leading **CAGR of over 4% in metal and 5% in silver in last 5 years** and is poised to ascend further in a similar trend.
- Strong growth is planned for FY25, building on the steady momentum achieved at the end of FY24.

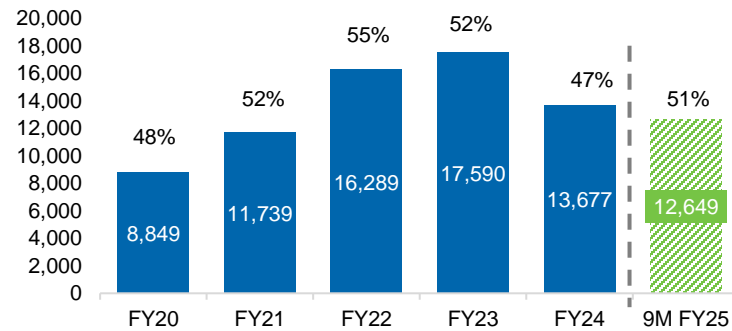
Delivering Robust EBITDA Margin

Backed by Operational Excellence, Technological Advancements, Cost Optimization and Strong Resource Base

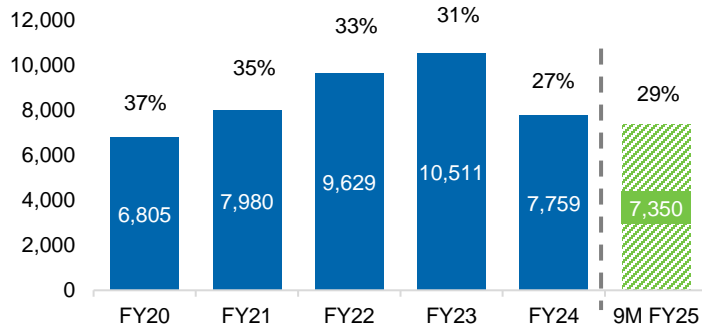
Revenue (incl. other operating income) (₹ Cr)



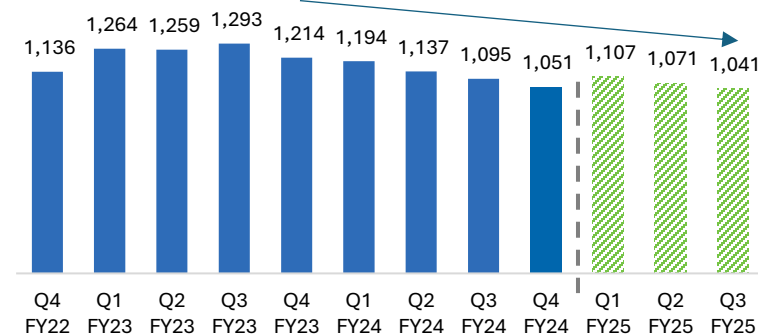
EBITDA (₹ Cr) | EBITDA margin %



PAT (₹ Cr) | PAT margin %



Zinc COP (\$/T)



Key Highlights

- **First decile** of the global zinc mines cost curve
- **On track for 4-year lowest cost** with a COP of \$1,041/T in Q3 FY25
- **Enabling Factors:** Better grade, softened input commodity prices, better linkage coal availability, improved operational efficiency, key contract transformation strategy, automation and digitalization
- **Healthy free cash flow from operations** of ₹9.7k Cr for 9M FY25 (pre capex of ₹3k Cr (including growth capex of ₹929 Cr) and renewable energy investment of ₹230 Cr)

Shareholder's Value Creation during 9M FY25

Hindustan Zinc is among the top Indian metal companies with **superior total shareholder returns**

- HZL's market cap surged over 50% to ₹188k Cr (added ₹64k Cr)
- Dividend Payout of ₹12k Cr (1450% of face value)
- Total shareholder returns per share*:

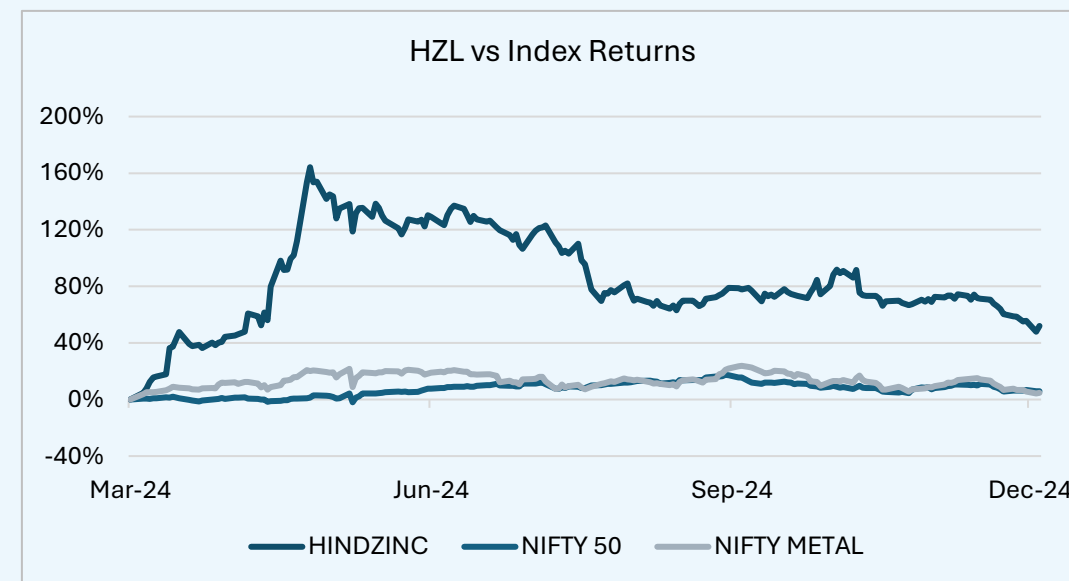
Capital
Appreciation
₹151.70

Dividend
per share
₹29

Total
Returns
₹180.70

Total shareholder returns during the half year
62%

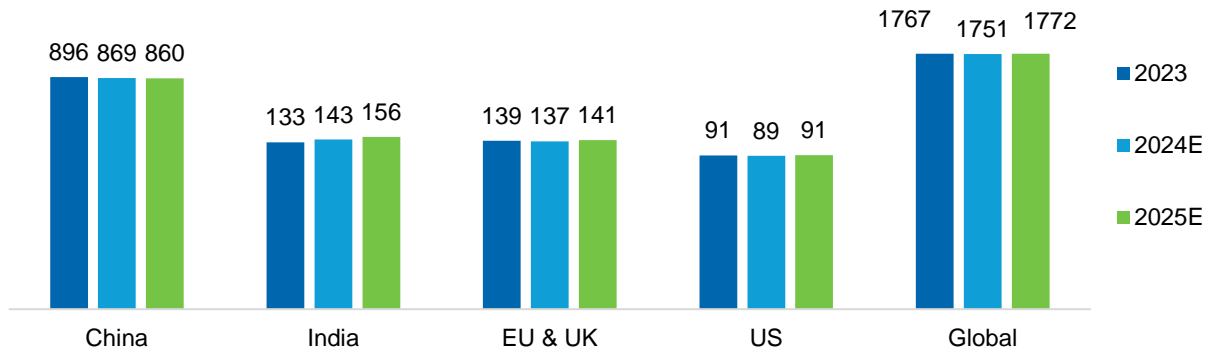
Amongst Industry Leading EV/EBITDA in the Metal & Mining sector**
c.11x



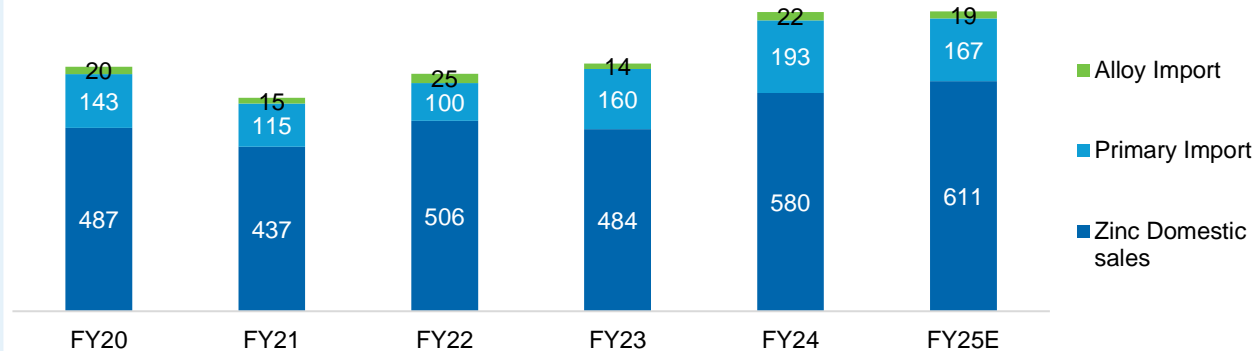
During the year till date, HZL's total shareholder returns is **10x** of NIFTY 50 returns and **13x** of NIFTY METAL index returns

Capturing 75%+ market share in India's primary zinc market

Steel Demand Forecasts (Mt)



Zinc Consumption in India (kt)



Zinc Demand Outlook

- Global zinc demand is expected to recover, and domestic zinc demand is expected to remain strong owing to the efforts to upgrade India's infrastructure and manufacturing output and impressive automobile sales
- The finished steel consumption is forecasted to grow across all major economies, except China, which is expected to see a marginal dip
- On a global level, steel demand is expected to be up by 1.2% in 2025. India is a major contributor for this growth with an expected growth of 9.1% in 2025

Growth Project Update



New Roaster at Debari

- Roasting is an essential part of the process of producing saleable zinc in hydrometallurgical smelters.
- The new roaster at Debari will enable Hindustan Zinc to attain long term sustainable operations making it future ready for 1.2+ million tonne refined metal.

Production Capacity
160 ktpa

Status Update

Project progress is on track with commissioning being targeted by Q4 FY25

Update:

- Moving forward Hindustan Zinc along with technology partners, is evaluating and finalizing recycling projects for converting waste into wealth.

Hindustan Zinc Fertilisers Private Limited:

- Hindustan Zinc's DAP/NPK Fertilizer Plant at Chanderiya aims to support farmers' needs through production and sale of DAP Fertilizers currently being imported.
- Allows better utilization of Sulphuric acid generated in operations through production of Fertilizers, making the country future-ready.
- This will contribute to the environment circuitously, enabling us to fetch right margins.

Production Capacity
510 ktpa

Product
DAP/NPK Fertiliser

Status Update

Project progress is on track with the completion being targeted by Q4 FY26

- Further, Hindustan Zinc has appointed strategic partners with proven capabilities for undertaking conceptual design for 2X growth plan. It is under progress and details of the same will be announced post completion.

Strategic Growth via Focused Separate Companies

HINDMETAL EXPLORATION SERVICES PRIVATE LIMITED

- Hindmetal Exploration Services Private Limited was formed with the **objective of developing an exploration strategy through a focused vertical.**
- The subsidiary's objective is to explore, discover, develop and tap mineral resources, including strategic minerals, deep seated minerals and offshore minerals, through systematic exploration of all types of mineral deposits.
- The subsidiary will collaborate with government bodies, private enterprises or any other organizations for joint ventures, partnerships, or research initiatives in the field of exploration

HINDUSTAN ZINC ALLOYS PRIVATE LIMITED

- Given the foreseeable demand for alloys in the near future and its vision of growth, the Company has set up a new state-of-the-art facility for manufacturing of zinc alloys through melting and casting operations.
- The Company has set up a **new melting and casting facility of 30 ktpa zinc alloy**, which will help in attaining sustainable operations, and in achieving benchmark performance.
- This new facility is equipped with technologically advanced machines and was commissioned in FY 2024.

HINDUSTAN ZINC FERTILISERS PRIVATE LIMITED

- Through Hindustan Zinc Fertilizers Private Limited, the Company aims to set up a state-of-the-art phosphatic **Fertilizer manufacturing facility with capacity of 510 ktpa at Chanderiya**, to boost performance and ensure sustainability in operation.
- The Fertilizer plant aims to support farmers' needs through production and sale of DAP Fertilizers, which are currently being imported, and to better utilize the Sulphuric acid generated in operations through production of Fertilizers, making the country future-ready.
- The project is targeted to be completed by FY 2026.



- Hindustan Zinc has strategically expanded its operations by establishing **5 distinct subsidiaries and renewable energy under group captive scheme.**
- This focused approach allows the Company to tailor its strategies and resources to meet the unique demands of each market segment effectively.

Sustainability Goals 2025



Sustainability Leader with First Rank in S&P Global Sustainability Assessment for 2nd consecutive year

S&P Global

Ranked #1 in Metals and Mining sector at S&P Global Corporate Sustainability Assessment (CSA) 2024 for 2nd consecutive year

Secured the **top 1% ranking** in S&P global CSA score members in **Sustainability YearBook 2024**, featured for the 7th consecutive year



Recognized with **leadership band scores of A-** in Climate Change and Water Security by CDP (Carbon Disclosure Project)

S&P Global Platts

Recognized at the **S&P Global Platts Metal Award 2022** by 'Industry Leadership Award - Base, Precious & Specialty Metals' Award and 'Corporate Social Responsibility' Award



Received '**Leadership in HR Excellence**' prize from the Confederation of Indian Industry (CII) National HR Excellence Award

Hindustan Zinc is amongst the top 10 CSR companies in the Country



Education

Nand Ghar, Child Care Centres, Shiksha Sambal, Unchi Udaan, Jeevan Tarang



Sustainable Livelihood

Samadhan, Sakhi, Microenterprises, Zinc Kaushal



Women Empowerment

Sakhi



Community Asset Creation

Rural, Education, Health & Water Infrastructure, Creating Model Villages



Health, Water & Sanitation

Swasthya Sewa, Drinking Water through RO/ATMs/Tankers, Company-run Hospitals & Sanitation



Sports & Culture

Zinc Football Academy (through Vedanta Zinc Football and Sports Foundation), Rural Sports & Culture Initiatives, Anil Agarwal International Cricket Stadium



Environment & Safety

Sewage Treatment Plant (through Zinc India Foundation), Miyawaki, Plantation Drives, Community Safety

ESG Focus (1)

Renewable Power Update

- Hindustan Zinc entered into Power Delivery Agreements (PDA) with Serentica Renewable India Private Ltd (SRI4PL and SRI5PL) for Dariba (200 MW) and Chanderiya (250 MW) plant locations respectively
- SRI4PL & SRI5PL are part of Serentica group which is developing ~4GW of Renewable Energy across multiple states to provide round-the-clock power to industries
- **The Board also approved round-the-clock PDA III with Serentica, taking the RE capacity to 530 MW, with a carbon emission reduction of 69% from 5.5 MtCO₂e to 1.7 MtCO₂e per annum**

Salient Features of the Project

- Solar project is being constructed in Rajasthan
- Wind Project is being developed in Maharashtra
- Power flow through ISTS network and delivery to HZL through the dedicated transmission lines
- Higher reliable power flow from ISTS network



Project Updates and Milestones

- Transmission connectivity secured
- OEM, EPC & vendor partners tied-up and construction activity at site under progress
- **Commenced the first flow of RE power** from Serentica in May 2024
- Remaining activities are under progress with **phased completion of 530 MW by FY28**



Modules installed at site



Equipment foundation



1st wind turbine installed

ESG Focus (2)

Recycling Business

- **Partnership with VEXL Environ Projects Ltd (VEXL)** for innovative solutions for utilization of Jarosite and Jarofix for productive applications
- **Plan to establish pilot plant** using exclusive technology for improving recovery of silver and other metals/chemicals as saleable products
- **Impact:** Leverage technology & expertise to revolutionized smelting process, thereby facilitating circular economy



VEXL Environ Project

Energy Transition

- **Partnership with US-based AESir Technologies** as a preferred supplier of zinc for zinc-based batteries manufacturing, which have potential to **revolutionize energy storage**, providing cost-effective & sustainable alternative to other prominent chemistries
- Signed an **MoU with a premier institute sponsored by the Department of Science & Technology, Govt. of India**, for R&D of next-gen zinc-based batteries
- **Onboarded India Energy Storage Alliance** for development of advanced energy storage & green hydrogen solutions



Nickel-Zinc Batteries

Low Carbon Zinc

- **Launched Asia's first Low Carbon 'Green' Zinc , EcoZen**, produced using renewable energy
- Asia's First-Ever Low-Carbon Special High-Grade Zinc, with a carbon footprint of less than 1 tCO₂e per tonne of zinc produced, about 75% lower than the global average
- Certified through a comprehensive Life Cycle Assessment (LCA), cradle to gate approach by a renowned global sustainability firm
- For customers looking to decarbonize their own and their customers' value chains



Low Carbon Zinc 'EcoZen'

ESG Focus (3)

Women in Mining

Hindustan Zinc boasts a gender diversity of 22% in FY24, significantly improved from 12% in FY19

India's First All Women
Underground Mine Rescue Team



India's First Underground
Woman Mine Manager



Vedanta's First All Women
Underground First-Aid Team

Towards the Sustainability Goal of
30% Gender Diversity by FY 2025

- **Progressive Maternity Policies:** Flexible working hours for expecting mothers, sabbatical leave with an option for flexing working hours and career assurance protecting performance ratings
- **Winspire – she is the inspiration:** An empowering event focused on inspiration and growth of over 150 women in leadership roles
- **Building an inclusive workplace:** We create safe and welcoming workplace, ensure equal opportunities for advancement, combating discrimination and bias

600+ Women
Employees

200+ Women
Engineers

Executive Leadership Team



Arun Misra

Chief Executive Officer

Chairman of International Zinc Association (IZA) and Vice Chairman of Confederation of Indian industry (CII), Rajasthan



Sandeep Modi

Chief Financial Officer

Financial expert with vast experience in metals, mining and power industry



Munish Vasudeva

Chief Human Resource Officer

Subject matter expert with diversified experience in large multinationals



Jose Hernandez

Chief Metallurgist

Seasoned Metallurgist with over 29 years of rich global experience



Adelson Dias De Souza

Project Consultant - Smelters

Comes with 30+ years of expertise in technology & innovation within metallurgy and non-ferrous mining



David Finn

Technical Advisor - Geotech

Subject matter expert with 30+ yrs experience in Geotech



Kavita Bhardwaj

Deputy CEO – HESPL

Multicommodity Mineral industry experience in Greenfield, Brownfield exploration, overseas projects and fertilizer



Darin Cooper

Technical Director - Smelters

Subject matter expert with diverse experience in metals & mining industry spanning operations, project & restructuring



C Chandru

IBU CEO - Smelters

20+ years of industrial experience in operations, business & various leadership roles with a degree in metallurgy



Anupam Nidhi

Head - CSR

Subject matter expert with diverse experience in the CSR and sustainability



Composition of our leadership team

- Our top **60 leaders embody a remarkable blend of expertise**, featuring a harmonious mix of technical and functional experts and entrepreneurial business leaders
- Our leadership with an **average age below 50 years**, brings a wealth of experience
- Our team has an **average experience of 25 years** in their respective fields
- This leadership cohort reflects a strategic balance, **comprising 55% homegrown leaders** and a substantial representation of lateral leaders from diversified businesses

Key takeaways



1.2 Mtpa metal at US\$ 1,000/t cost;
Growth plan for **2 Mtpa metal** under development



Silver expansion:
Target of reaching **1,000 MT** through intermediately (Fumer route) & **1,500 MT** with 2 Mtpa metal



Exclusive focus on Recycling:
Potential of recovering 1 Mnt metal and 3 ktpa silver



2nd highest zinc R&R base globally with average grade of c.7% and 25+ years of mine life



75% + market share in India's primary zinc market
Focus on VAP: Alloy plant commissioned & Fertilizer plant project in progress - making India self-reliant



70% + power sourcing through renewable sources
Sustainability leader with 1st rank in S&P Corporate Sustainability Assessment globally



Profitability

- **Zinc Volume: 1.2 Mn MT**
- **Silver: 800 MT**
- **Zinc LME: 3000\$/T**
- **Cost: 1000\$/T**
- **EBITDA: \$2.7 Bn**

Irreplaceable resource and asset base delivering **consistent margin of c.50%**

Consistently **AAA rated** by leading credit rating agencies

India's most valued metal and mining company with **industry leading shareholder returns**

Then & Now

Conventional
drill rig



Electric locomotive
operation



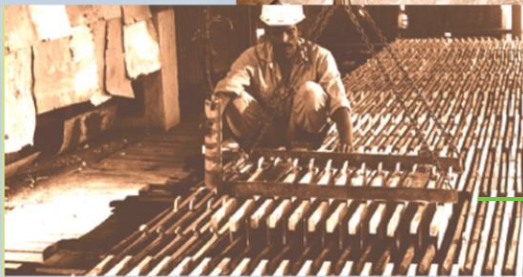
Drilling by hand-
held hammer



Mucking by
auto loader



Manual cell
house



Modern drill rig, drilling machine, LPDT,
hi-tech cell house, robotic operations

Our Reporting Suite



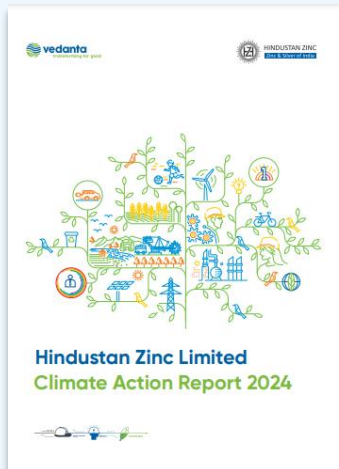
Integrated
Annual Report
2023-24



Digital Integrated
Annual Report
2023-24



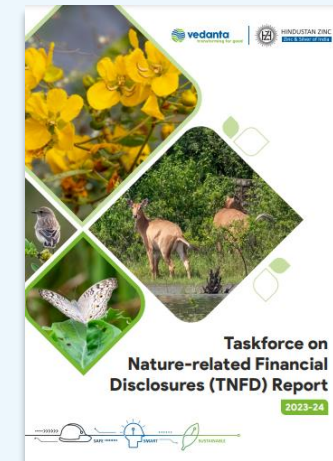
Sustainability
Report 2023-24



Climate Action
Report 2024



Tax Transparency
Report 2023-24



TNFD Report
2023-24