

Hindustan Zinc

A legacy of Leadership



Investor/Analyst Site Visit - SK Mine, Dariba



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Presentation Outline

01	02	03	04	05	06	07	08	09	10	11
Leadership Team	Hindustan Zinc: Competitive Advantage, Operational Asset Base &	Vision, Mission and Growth Narrative	Mineral Resource and Ore Reserve Base	Silver Focus and Global Leadership	Environment, Sustainability and Governance	Financial Performance	Zinc Market Outlook and Share	Project Update	Operational Performance and Technological Advancements	Key Takeaways

Expertise



Executive Leadership Team



Arun Misra Chief Executive Officer

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



Krishnamohan Narayan Deputy Chief Executive Officer Leader with global experience in chemical industry



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



Hugo Schumann Advisor - Silver Value Creation Rich Experience in Value creation for capital market











Anupam Nidhi Head - CSR

cement industry

David Finn

Technical Advisor - Geotech

experience in Geotech

Director - Exploration

Darin Cooper

Vijay Murthy

Chief Marketing Officer

Kuldeep Singh Solanki

Technical Director - Smelters

Subject matter expert with diverse

Leader with diversified and global

experience in metals & mining industry

spanning operations, project & restructuring

Subject matter expert with 30+ yrs

Mineral industry experience in exploration,

surface & UG mining operations & mineral

resource estimation of gold & base metals

Subject matter expert with diverse experience in the CSR and sustainability spheres

experience in metals, mining, chemical &



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, bring a wealth of experience to the table
- 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 of our size



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** 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 ~50% backed by operational excellence, technological advancements, cost optimization and strong resource base

- Sustainability leader with **first rank in S&P sustainability** assessment globally, ESG focus with economic prudence
- 50% power sourcing through renewable energy sources by 2026
- Irreplaceable resource and asset base, with technologies providing flexibility of running operations based on the market landscape
- 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.US\$ 30 Bn



Zinc Smelting 913,000 TPA

Lead Smelting 210,000 TPA









Metal capacity **1.12 Mt**





Silver Refining 800 TPA



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

: 44.4 Mt
: 24.8 Mt
: Zn 11.0%, Pb 1.2%
: 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

: 42.2 Mt
: 100.6 Mt
: Zn 2.6%, Pb 1.5%
: 4.03 Mtpa

Kayad Mine

3 Mt
1 Mt
5.2%, Pb 0.7%
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

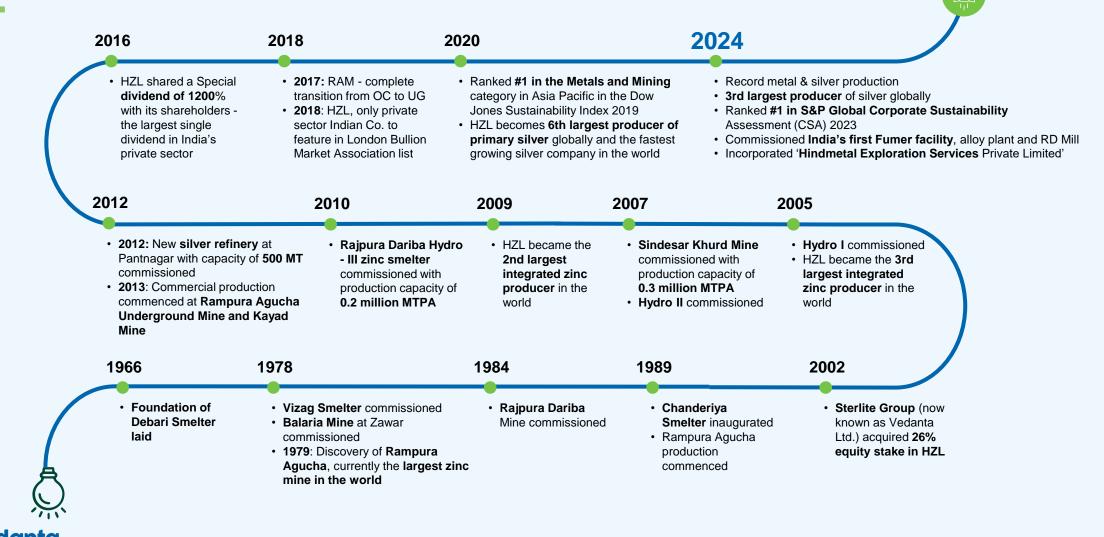
Pantnagar (100% RE grid power) Processing & Refining of Zinc, Lead & Silver





Over Five Decades of Expertise in Mining and Smelting Integrated Operations

ansforming for good



Hindustan Zinc's Vision, Mission & Growth Narrative

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



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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 Fertiliser plant at Chanderiya: 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



- RE power delivery agreement to cater 50% of HZL's power requirement reducing 2.7 Mt of carbon emissions: The first power flow commenced in May 2024
- Commissioned Fumer plant at Chanderiya focusing on waste to wealth
- ZLD plants at Agucha and Zawar

Road Ahead

450 MW Green power additions

USD 1 Bn investment towards climate change initiatives

100% Mechanised charging at Zawar



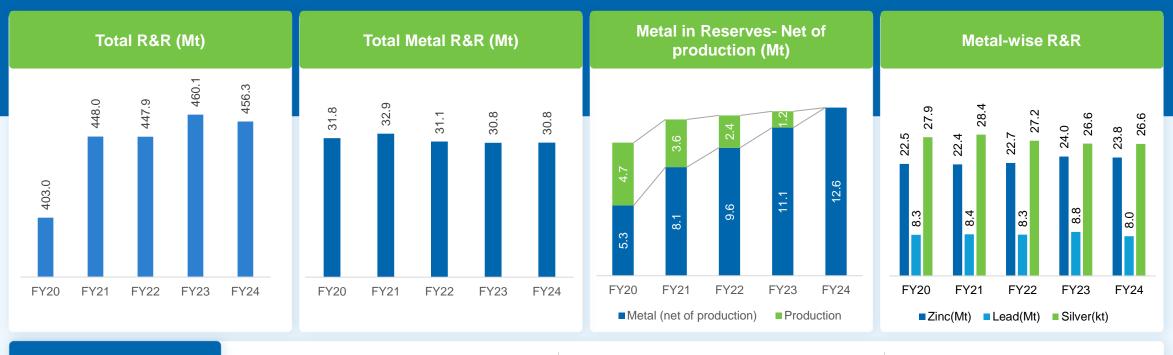
Value Added Product (%)





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 of 456.3 Mt and a metal content of 30.8 Mt, 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 Mt, considering production of 65.1 Mt of ore in this period **Total Ore Reserves:** 175.1 Mt (net of production of 16.5 Mt) in FY24, as against 173.5 Mt 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 2023-24 production of 746 MT, the production increased by c.5% y-o-y

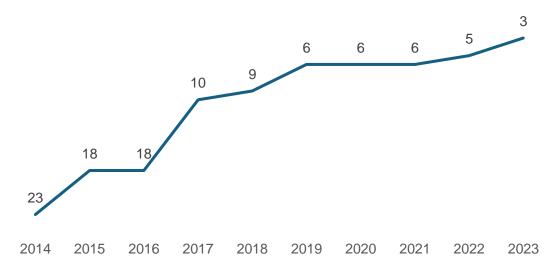


Global Leadership

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



Sustainability Goals 2025





Sustainability Leader with First Rank in S&P Global Sustainability Assessment

S&P Global

Ranked #1 in Metals and Mining sector at S&P Global Corporate Sustainability Assessment (CSA) 2023*

Top 1% S&P Global CSA Score

Secured the top 1% ranking and 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

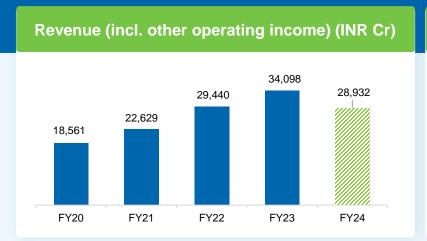
Recognized at the S&P Global Platts Metal Award 2022 by 'Industry Leadership Award - Base, Precious & Specialty Metals' Award and 'Corporate Social Responsibility' Award

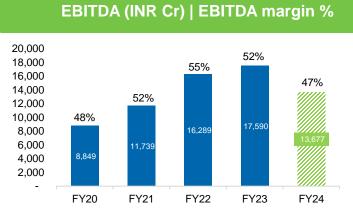
Received **'Leadership in HR Excellence'** prize from the Confederation of Indian Industry (CII) National HR Excellence Award

Hindustan Zinc is amongst the top 10 CSR companies in the Country			
	Education	Nand Ghar, Child Care Centres, Shiksha Sambal, Unchi Udaan, Jeevan Tarang	
Ð	Sustainable Livelihood	Samadhan, Sakhi, Microenterprises, Zinc Kaushal	
溪	Women Empowerment	Sakhi	
889 1997	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	

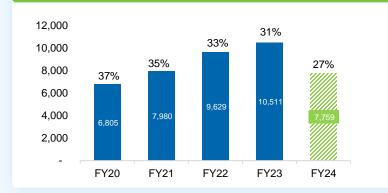
Delivering Robust EBITDA Margin

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





PAT (INR Cr) I PAT margin %





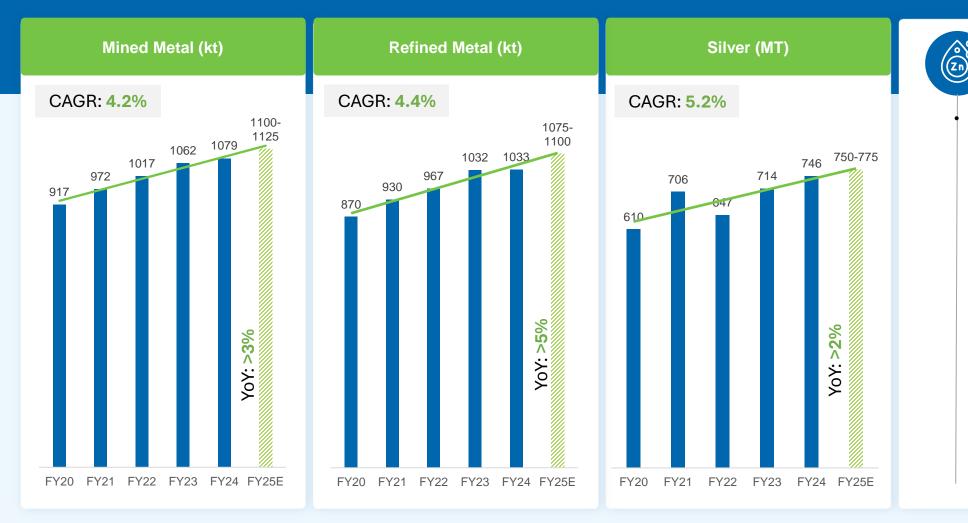
Zinc COP (\$/T)



Key Highlights

- First decile of the global zinc mines cost curve
- Sustained cost reduction for 5 consecutive quarters with a cumulative improvement of c.\$240/t
- Enabling Factors: Better grade, softened input commodity prices, better linkage coal availability and utilization, improved operational efficiency, key contract transformation strategy, transforming operations through automation & digitalization

Showcasing Industry Leading Operational Performance



Hindustan Zinc's production has grown at an industry leading **CAGR of over 4% in metal & 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.



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

Alloy Import



506

FY22

484

FY 23

FY24



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 in the election year 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 FY25. India is a major contributor for this growth with an expected growth of 8.2% in FY25

487

FY20

437

FY21

513

FY19

ESG Focus with Economic Prudence: 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.

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 reliability flow of power from ISTS network



Project Updates and Milestones

- Land acquisition and statutory approvals are on track
- Transmission connectivity secured
- OEM, EPC & vendor partners tied-up and construction activity at site under progress
- Phased completion and commissioning starting from Q1 FY25 through Q1 FY26



Invertor Control Room



Modules installed at site



Equipment foundation



1st wind turbine installed



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

Hindustan Zinc Fertilisers Private Limited:

Hindustan Zinc's DAP/NPK Fertiliser Plant at Chanderiya aims to support farmers' needs through production and sale of DAP fertilisers currently being imported and to better utilize sulphuric acid generated in operations through production of fertilisers, 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 commissioning being targeted by Q3 FY25

Status Update

Project progress is on track with the completion being targeted by Q2 FY26

Update:

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- Moving forward, Hindustan Zinc, along with technology partners, is evaluating & finalizing recycling projects - converting waste into wealth.
- 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 organisations 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 now 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 2023-24.

HINDUSTAN ZINC FERTILISERS PRIVATE LIMITED

Through Hindustan Zinc Fertilisers Private Limited, the Company aims to set up a state-of-the-art phosphatic fertiliser manufacturing facility with capacity of 510 ktpa at Chanderiya, to boost performance and ensure sustainability in operation. The fertiliser plant aims to support farmers' needs through production and sale of DAP fertilisers, which are currently being imported, and to better utilise the sulphuric acid generated in operations through production of fertilisers, making the country future-ready. The project is targeted to be completed by FY 2025-26.



Hindustan Zinc has strategically expanded its operations by establishing **5 distinct** subsidiaries and RE power 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.



Implementing Technological Advancement and Innovation



Tele-remote operations

Additional production in drilling by utilizing automation features and tele-remote operations of production drills during shift changeover duration; tele-remote operations of loaders helps in maintenance of consistent feed to mills through shaft during shift changeover

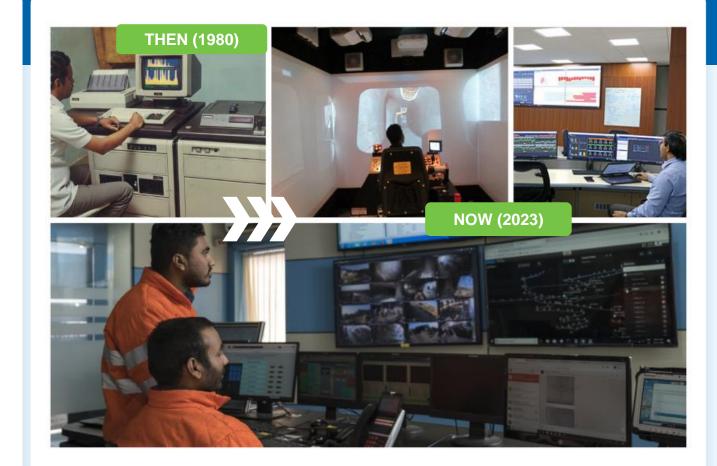
Advance Process Controls

To address difficulty in flotation process due to constantly changing feed characteristics, Advance Process Control system introduced. It maintains a stabilised circuit operation while optimising process performance to maximise recovery



Innovations

- · Silver promoter used for enhancing Ag recovery
- Predictive maintenance, condition-based monitoring & real-time reliability health index of critical assets
- Drone based solutions





Key takeaways

1.2 Mtpa meta
at US\$ 1,000/t
cost;

Growth plan for **2 Mtpa metal**: under development SilverExclusion:expansion:focusTarget ofRecyreaching 1,000PoterMTrecovintermediatelymetal(Fumer route) &silver1,500 MT with 2Mtpa metal

Exclusive
focus on
Recycling:
Potential of
recovering 1 Mt
metal & 3 kt2nd
zin
gloi
ave
of c
25+

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

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

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50% + power sourcing through renewable sources

Sustainability leader with first 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

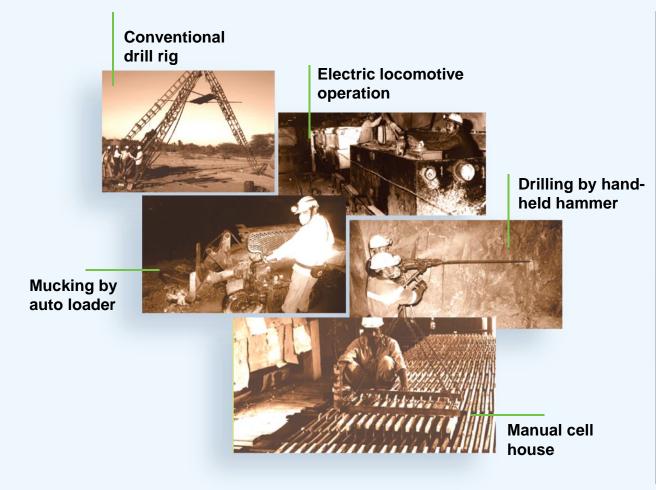
Irreplaceable resource and asset base delivering consistent margin of c.50%

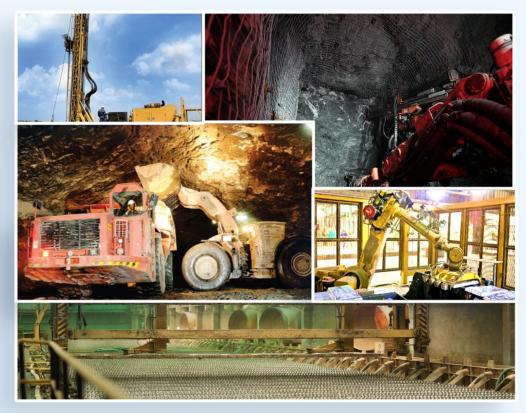
Consistently **AAA rated** by leading credit rating agencies

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



Then & Now





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

