





INVESTOR PRESENTATION

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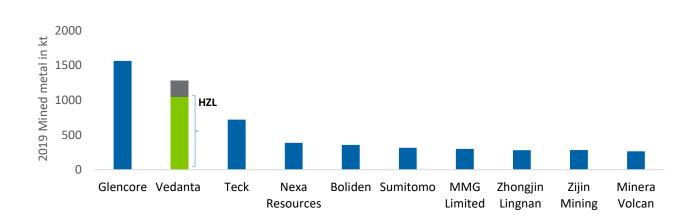


A premium zinc-lead and silver company

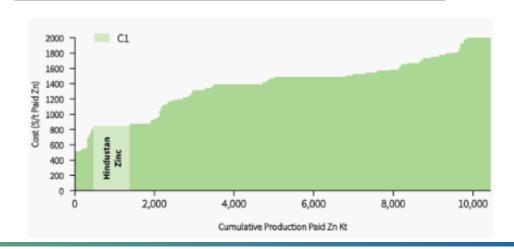


2 nd LARGEST ZINC-LEAD MINER GLOBALLY 4th LARGEST ZINC-LEAD SMELTER GLOBALLY Largest INTEGRATED PRODUCER OF ZINC-LEAD 9 th LARGEST SILVER PRODUCER GLOBALLY 1 st DECILE POSITION IN GLOBAL ZINC COST CURVE 1st RAMPURA AGUCHA - LARGEST ZINC LEAD UG MINE; SK RANKED 3rd Zinc-Lead rankings source: Wood Mackenzie Silver ranking Source: Thomson Reuters

Vedanta set to become the largest Zinc-Lead miner globally in the next 2 years



Hindustan Zinc lies in first decile on global Zinc Cost Curve (2019)





Hindustan Zinc – A sustainable enterprise



Sustainability efforts are centred around safe mining and optimizing waste, water, land & carbon footprint

Safe Mining – Setting right Culture

Felt Leadership

Safety Town Hall

Personal Safety Plan

Monthly safety interactions at sites

Project Ru - Ba - Ru for business partners

Technology – Eliminating Human Interface

52% waste recycling

36% water recycling

Zero liquid discharge

14% - 20% committed to reduce GHG emissions by 2026

Paste fill plant	 60% of tailings to be used for void filling in UG mines back fill, Reduce land required for tailing dams 	
Dry tailing	1st dry tail stack plant in Zawar in Q2Water and land savings	
Fumer Plant	 Reduce land required by 1 hectare pa Reducing carbon footprint 	
Ancillary Plant	 Recover & recycle metal in high value add forms Potential value creation of over Rs 150 Crore 	
Sewage Treatment plant	 Treat Udaipur's sewage (60 MLD) Minimise fresh water usage; enhance cleanliness of lakes 	
Solar projects over waste land	 39MW solar power saving 190 acres land Another 35MW expected during FY2020 	

Ranked 1st in environment and 5th overall in global metal & mining sector in Dow Jones Sustainability Index



Social Licence to Operate - Impactful projects target key areas of need & development



Provide academic support in Science, Maths and English to 7500 students in 64 govt schools

Observed improvement in grades and interest in going to school due to high quality of education

Shiksha Sambal



Support for high performers to prepare for engineering institutions of national repute

Students especially girls are continuing their higher education due to free education

Unchi Udaan



- On-farm sustainable livelihood project reaching out to more than 8000 farmers and 4300 families
- Increase in yield by improved seed varieties; new technology for livestock reproduction

Samadhan



- Aims for 2300 women Self Help Groups touching lives of 27,000 families
- High impact due to household income enhancement, loans for business and behavioral change

Sakhi



- Regular coaching to nearly 2000 children at at Zawar and 64 community football centres
- Buoyed by impressive results, plans to roll-out across
 Rajasthan and Under-13 team at I-league

Zinc Football



- Caters to health, nutrition & pre-school needs, reaching 60,000 children in 0-6 years age group
- Increase in enrolment; focus on cognitive development; nutritious food

Khushi & Nandghar





Strong foundation driving growth and transformation



R&R ZINC - LEAD SILVER COSTS

1.35 mT 1,000 t

600 mT 1.2mT 800 t

400 mT 579 t

\$1000 /t

- Expanding R&R across the mines
- Best in class technology and expertise
- Largest and the most active mineral explorer in India with an exploration spend of \$16 mn out of the total \$50mn spent nationwide

- Completion of 1.2 mtpa capacity in H2
- 1.35 mtpa planning underway
- Smelter debottlenecking in progress
- New resource from new ore bodies
- Focus on reserve to resource conversion

- Focus on silver rich deposits
- Enhanced recoveries
- New technology Fumer and recovery from tailings
- Natural volume growth

Key structural initiatives on

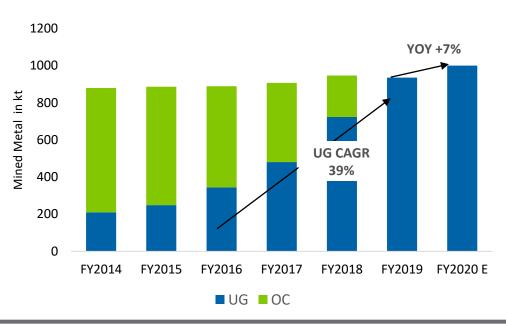
- Digital transformation
- Minor metal extraction
- Ore to metal ratio to 90%
- Operational efficiencies via shaft, paste fill, etc.
- Energy basket optimisation



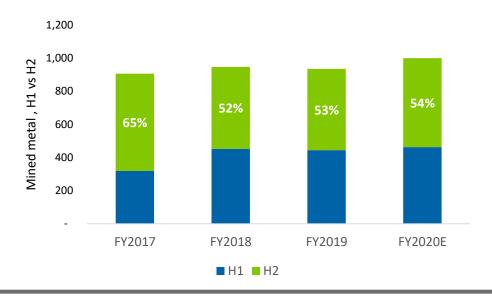
Confident of delivering FY2020 guidance



Production ramp up to 1.0 million tonne mined metal



H2 – Completing 1.2 mtpa project activities



RAMPURA AGUCHA

- Shaft commissioning in H2
- Rapid development crew to open new levels from Q2

SINDESAR KHURD

- Shaft fully ramped-up in H2
- Faster paste filling

ZAWAR

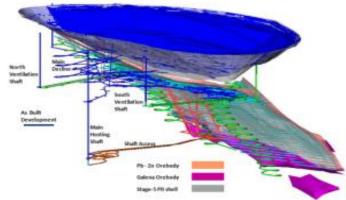
- Commissioning of two paste fill in Q3
- Ballaria ramp-up in Q4
- Pillar mining



Setting Business for 1.35 mtpa and beyond – concurrent mining



Rampura Agucha $(3.3 \rightarrow 4.5 \rightarrow 5)$



Safe Transition

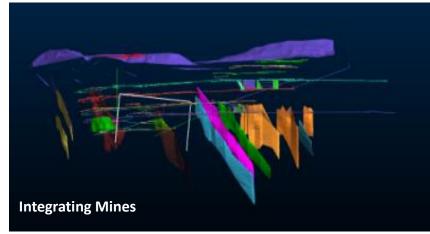
Manipula Aguella (3.3 / 4.3 / 3)



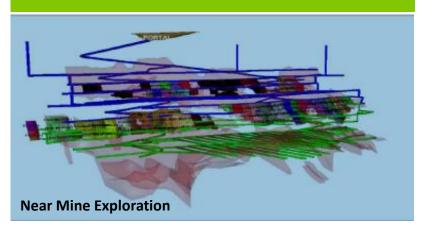


Fully Digitised Mine

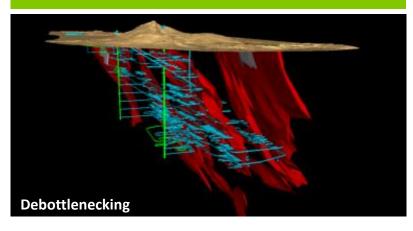
Zawar ($2.8 \rightarrow 4.0 \rightarrow 8$)



Kayad (1.2, extending mine life)



Rajpura Dariba $(0.9 \rightarrow 2 \rightarrow 4)$



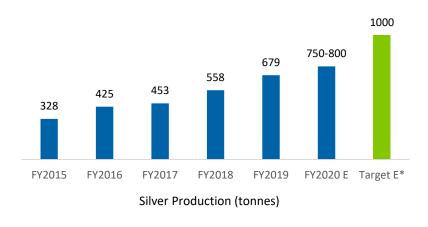
Sindesar Khurd and Rampura Agucha are top 3 zinc lead producing UG mines globally, contributing ~70 % of HZL's total metal production



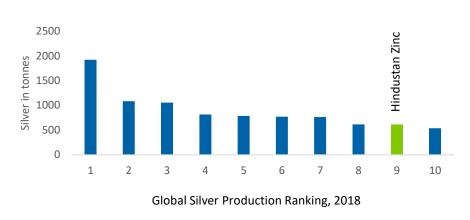
On track to become top 3 silver producers globally



Fastest growing silver company with a CAGR of 18%

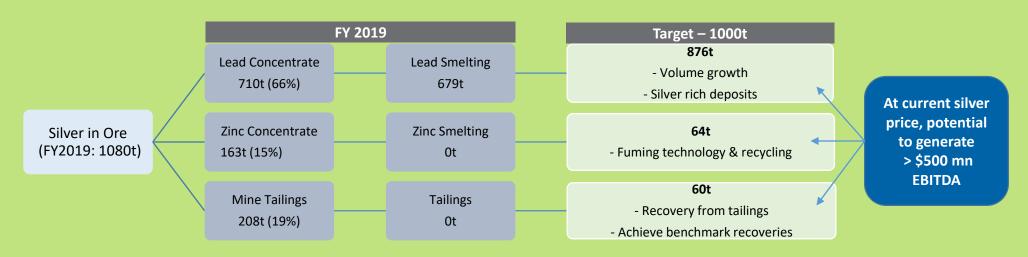


Ranked 9th globally in primary silver production



Source: GFMS, Reuters

We expect to be among Top 3 silver producers and the largest integrated silver producer globally in the next 2-3 years





Reserve & Resource upgrade – World class technology adopted



Motorised Directional Drilling

Motorised Directional Drilling technology creates multiple branches from a parent hole resulting in saving cost and time



Core Scanner and IQ Logger High quality lithological and structural data acquisition along with complete suite of assay data with XRF with least manual intervention



ATV Logging

Acquire all downhole in-situ structural data as soon as holes are drilled in a cost effective manner for finding exploration target and mine design



Geophysics: Introduction of Drones Cost effective, faster and safer method to carry out geophysical survey in tough terrains and complex environment



Opportunities across mines (400 → 600 mT)

Mine	Technical program		
RAM	 Galena & Main orebody upgradation 10 mT 		
ZM	 Deep Extension all lenses - 20 mT New lenses - B Magra, S Rupariya - 20 mT 		
SKM	 New lenses - main orebody below shaft, satellite lense – 10 mT Deep Extension under main lense – 15 mT 		
RDM	Delineate main lenseDeep extension – 20 mT		
Kayad	Prime target to add new resourceExploration potential 12Mt		
ВК	Open pit mining opportunity – 50 mT		



Time bound cost optimization programs in place



Zinc COP: \$900 per MT

Structural cost optimization Zinc COP: \$1000 per MT					
1	Technology	Ore to metal index	Advanced Process Controls	\$ 17	
2	Productivity	Autonomous machines	Digitalisation of mines Current efficiency	\$ 15 —	
3	Mining Techniques	Narrow Vein mining	Enhanced Ore Recovery Higher development factor	\$ 7 —	
4	Power Source	Solar Power Source at Mines	Linkage Coal strategy	\$ 10 —	
5	Volume	Early ramp up to 1.2 mT	Debottlenecking of smelters	\$ 15	
6	Maximising hauling through Shafts	SKM Shaft started	RA-UG Shaft in Q4	\$ 21	
7	By- product Credits	Ancillary unit expansion		\$ 18	
8	Logistics Optimisation	Reduction in TATs		\$ 5	

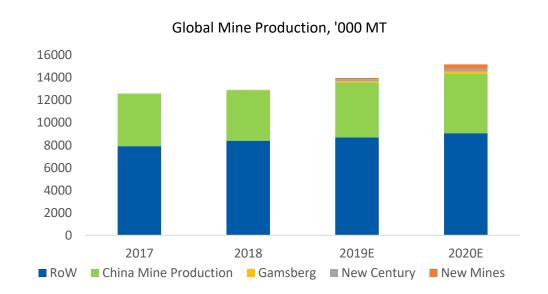


Zinc supply shortfall and low stocks expected to support price



Mine supply increasing at slower then expected rate

- Slower start at key projects and some smaller mines
- Reduction in production at some existing mines (Penasquito, Antamina, Red Dog, Myra Falls, Empire State)

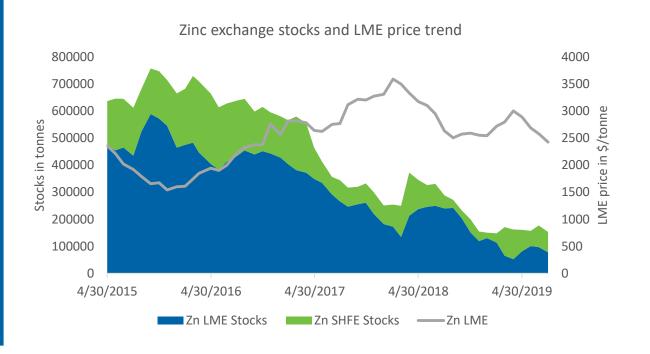


Forecast includes ~400kt increase each year in China which is at risk due to ongoing environmental issues

No major new mine expected; production declining from 2023 onwards

Underperformance of smelters keeping stocks at all time lows and market in deficit

- Chinese production declined in 2018 and YTD due to environmental regulations
- Exchange Metal stocks are at 5 days of consumption
- RoW smelters operating at high CU; No major smelter project in pipeline





Hindustan Zinc - Strong Value Proposition



Strong Financial Profile

- Net Cash of \$2.65bn
- Strong FCF ~\$1BN in FY19, potential 1.5X in 2Y
- Zero Debt; 3 year EBIDTA margin of 51.5%
- Domestic, VAP, Minor metal > \$150M value

Proven Execution

- ~35% 5-yr CAGR of UG mines to 936kt MIC
- 18% **5-yr CAGR** in silver volume
- **High IRR** of >40% of growth projects

Clear Growth Path

- 1.2 mtpa MIC capacity in CY
- Planning for **1.35 mtpa**Metal
- **Silver**: 679t → 800t → 1000t
- Driven by Automation and digitization

Sustainable Enterprise

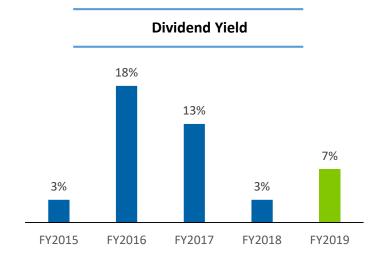
- Globally 1st in Environment*
- 347MW Renewable energy
- Waste-to-wealth initiatives and community connect

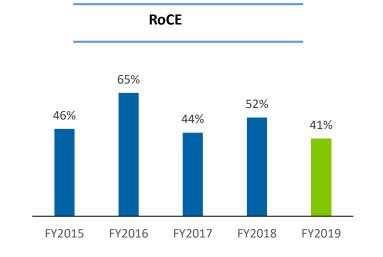
Derisked Business

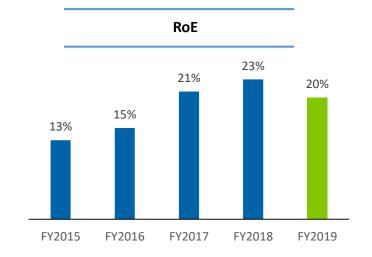
- Low cost producer
- Integrated operations
- 25+ yr mine life
- Robust Management team
- **Technology** as enablers

*Dow Jones Sustainability Index 2018, Metals & Mining

KEY RETURN INDICATORS















Thank You

HINDUSTAN ZINC LIMITED ZINC | LEAD | SILVER |

Digital Focus – Hindustan Zinc



Digitisation and advance technologies across value chain for 3 deliverables

- (1) Safe operations (low human interface)
- 2 Productivity jump
- (3) Cost Optimisation

Mining



Mine digitization & Tele Remote



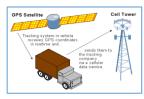
Virtual reality & simulation based training



Advanced Equipments

- Reduce mining cost by 10%
- Improve ore-to-metal ratio by 2%
- Reduce man-machine interaction
- Fewer people in high-risk situations
- Reducing Turnaround Time (TATs)

Supply chain



ITMS(Integrating Logistics, Stores Finance, security)



Fumer

Residue Treatment

Recovering minor metals & rare earth metals

Targeting SK & Agucha to work as Smart Mines / Fully integrated logistics by Q4 2020

