



Corporate Presentation

Hindustan Zinc Limited

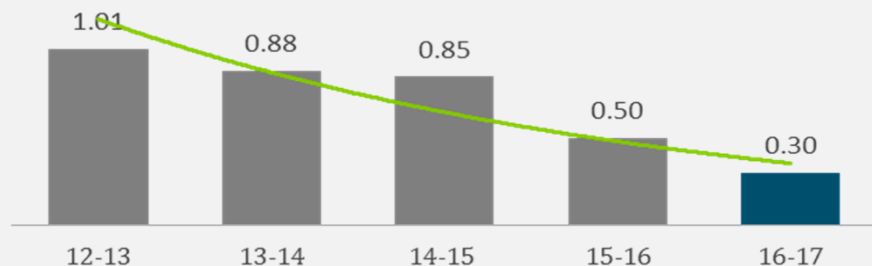


ZINC | LEAD | SILVER

Safety & Environment – Vision Zero Harm

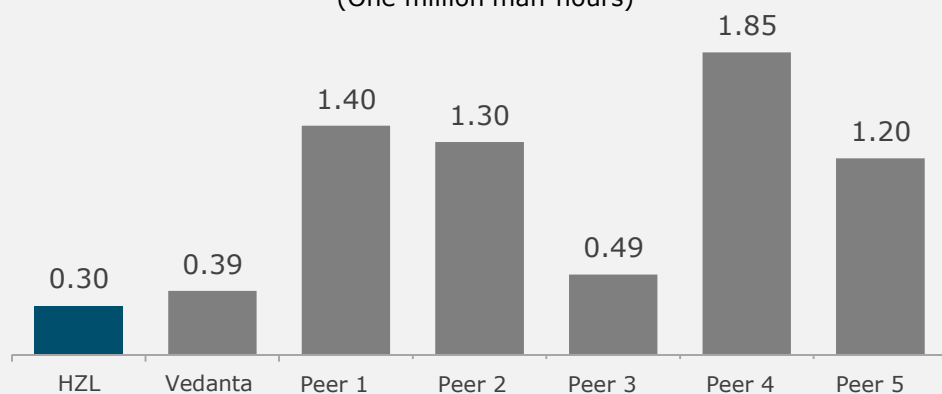


LTIFR Trend



- Enhanced awareness, lead indicators reporting up 127% in last 2 years
- Zero occupational illness cases
- Safety perception score improvement from 62% to 88%

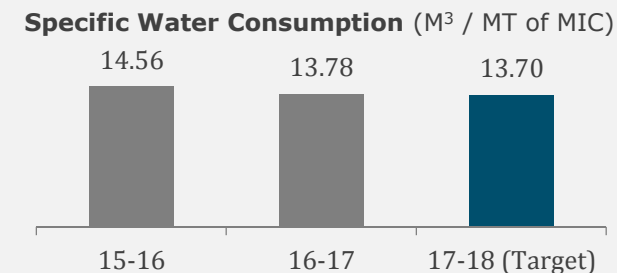
LTIFR Benchmarking (One million man-hours)



Source: SD report 2016 of all companies

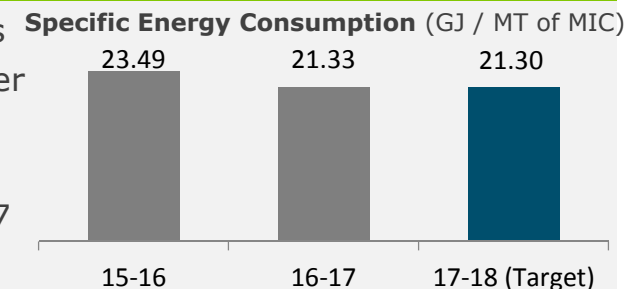
Water Conservation

- Zero discharge
- 33% total water requirement met from recycling/reuse water (2017)
- Water CDP disclosure 2017



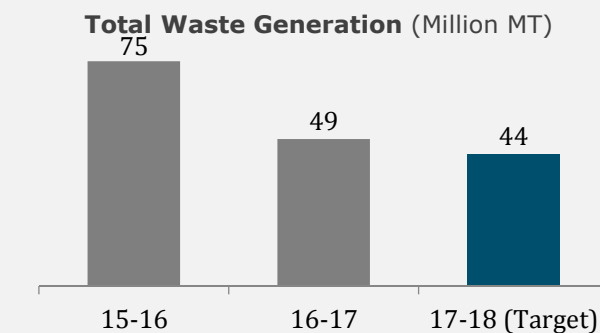
Climate Change & Energy

- 10 UNFCCC projects
- 325 MW green power
- 9% specific energy reduction (2017)
- CDP disclosure 2017 & Scope 3 GHG emission



Waste Management

- Fumer project for waste minimisation
- Paste fill plant at SKM and RAM UG
- Focus on value from waste
- Paver block from waste



*Waste includes mining waste



2nd largest zinc-lead miner globally with
12 million+ MT of ore production capacity

Rampura Agucha: **2nd** largest zinc mine globally

4th largest zinc-lead smelter globally: **1 million+ MT**
of production capacity

18th largest silver producer of the world*

One of the lowest cost zinc producers in the world

3 mines with **five-star** ratings by Indian Bureau of
Mines

Vision: To be the world's largest and most admired zinc-lead & silver company

Rankings source: (1) Wood Mackenzie, Long-Term Outlook Q2 2017
(2) For HZL related data, actuals for FY 16-17
* Source : Thomson Reuters

What Differentiates Us?



Core Strengths

1

Captive mines with R&R base of 404.4 million MT ensuring mine life of 25+ years

2

Integrated metal production supported by captive power plants

3

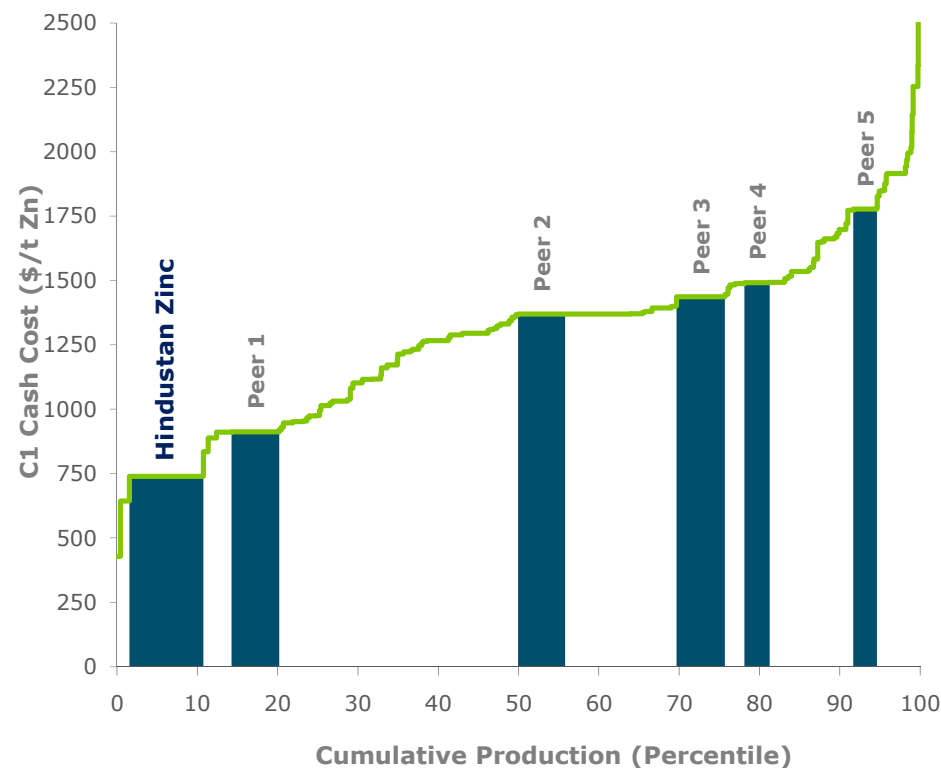
Low cost of operations driven by quality assets and recovery from waste

4

Market leadership in India with strong presence in emerging economies of Asia

Among the Lowest Cost Producers of Zinc

Zinc Mine Composite Costs Curve



Note: C1 cash cost includes by-product credits

Source: Wood Mackenzie Research (Q2 2017)

Leading the Way with Fully Integrated Operations

Portfolio of Tier - 1 Assets



Rampura Agucha Mine

Reserves : 49.7 mn MT
Resources : 50.3 mn MT
Reserve Grade : Zn 13.9%, Pb 1.9%
Current Ore Capacity : 6.15 mtpa

Kayad Mine

Reserves : 5.4 mn MT
Resources : 1.7 mn MT
Reserve Grade : Zn 7.8%, Pb 1.1%
Current Ore Capacity : 1.00 mtpa

Sindesar Khurd Mine

Reserves : 35.6 mn MT
Resources : 87.2 mn MT
Reserve Grade : Zn 4.2%, Pb 2.9%
Current Ore Capacity : 4.50 mtpa

Rajpura Dariba Mine

Reserves : 9.0 mn MT
Resources : 50.3 mn MT
Reserve Grade : Zn 6.3%, Pb 1.5%
Current Ore Capacity : 0.90 mtpa

Zawar Mining Complex

Reserves : 9.5 mn MT
Resources : 85.7 mn MT
Reserve Grade : Zn 3.3%, Pb 1.8%
Current Ore Capacity : 4.00 mtpa
CPP : 80 MW

Chanderiya Smelting Complex

Pyrometallurgical Lead Zinc Smelter:
 1,05,000 MTpa zinc and 35,000 MTpa lead

Hydrometallurgical Zinc Smelter:
 4,20,000 MTpa zinc

Ausmelt™ Lead Smelter: 50,000 MTpa lead

Captive Power Plant: 234 MW

Dariba Smelting Complex

Hydrometallurgical Zinc Smelter:
 2,20,000 MTpa zinc

Lead Smelter: 1,00,000 MTpa lead

Captive Power Plant: 160 MW

Zinc Smelter Debari

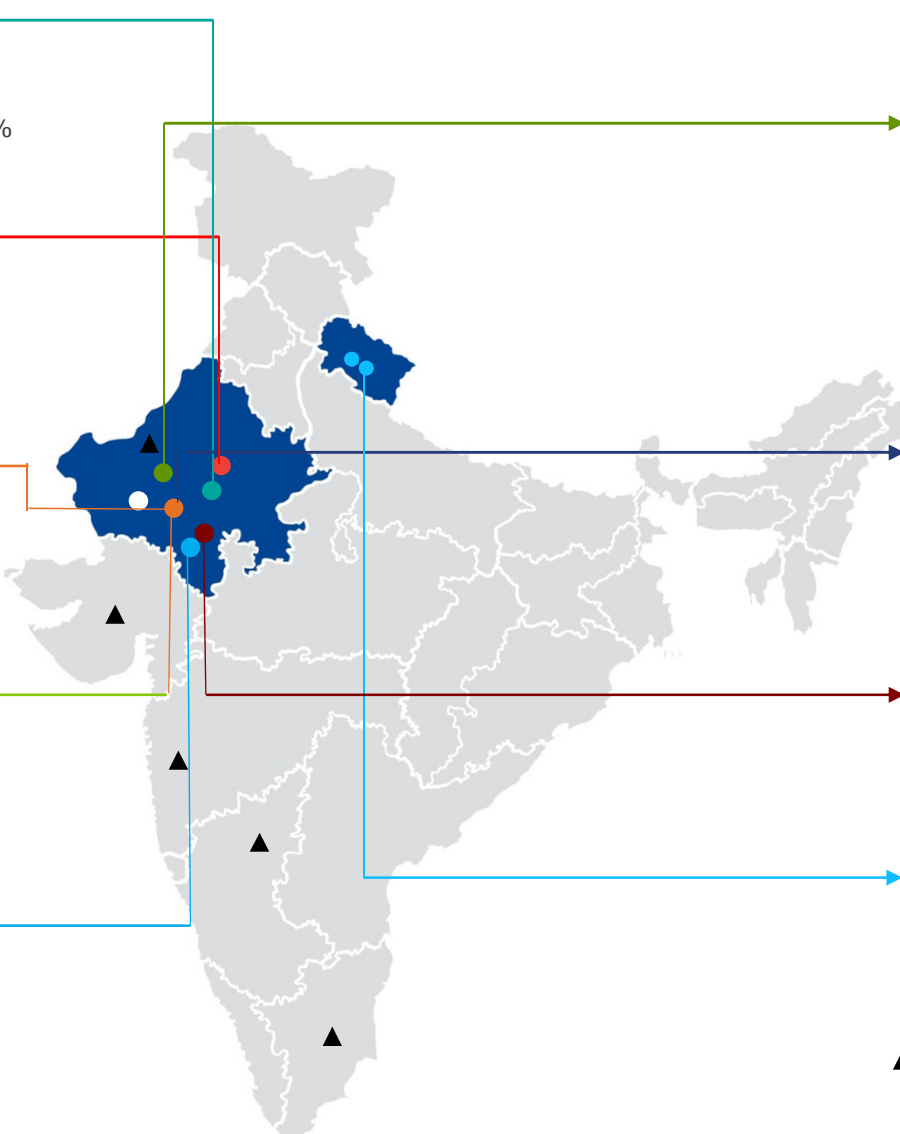
Hydrometallurgical Zinc Smelter:
 88,000 MTpa zinc

Pantnagar & Haridwar

Processing and refining of zinc,
 lead and silver

Renewable Power

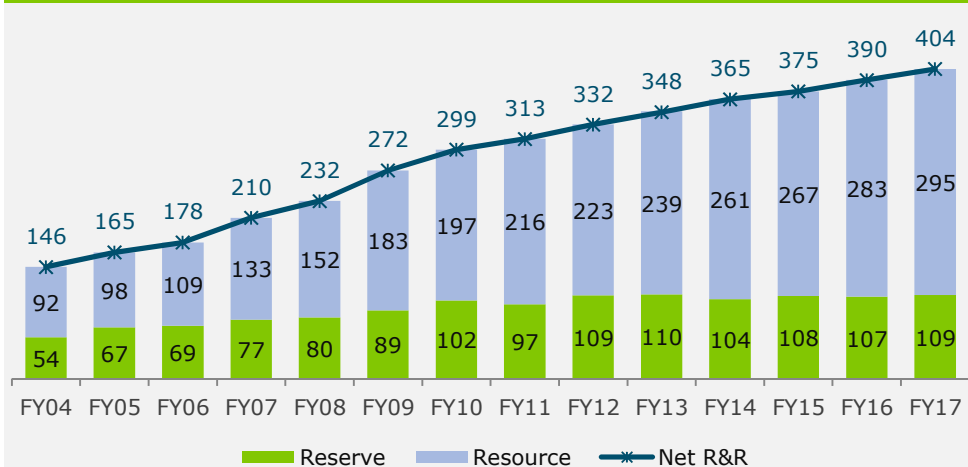
▲ **Wind**: 274 MW
Solar: 16 MW
Waste heat recovery: 35 MW



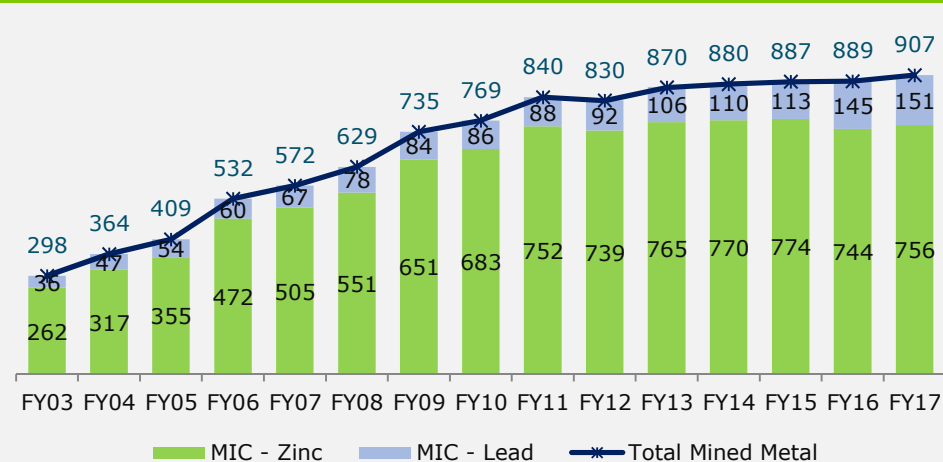
Strong Track Record of Growth



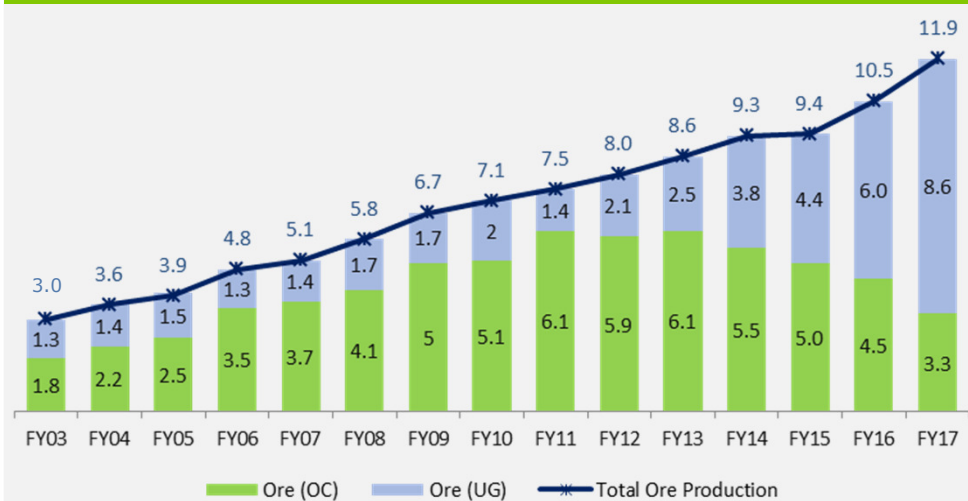
Reserves & Resources (mn MT) – 2.5X Growth



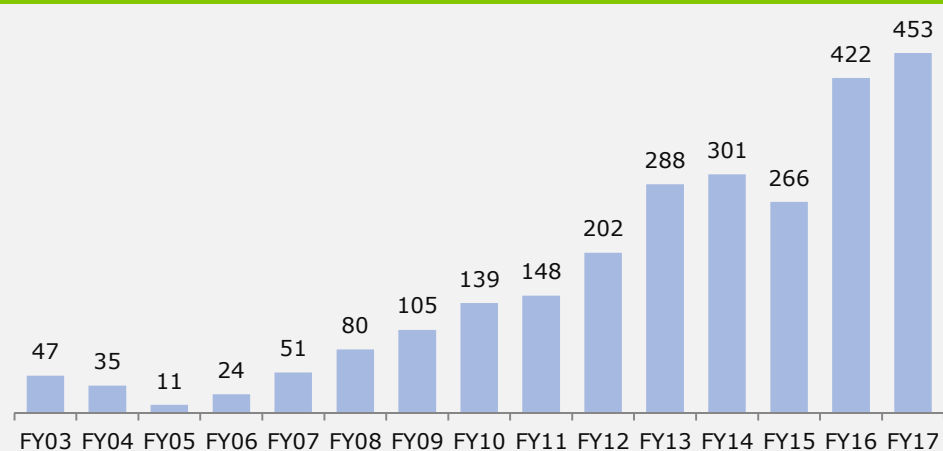
Mined Metal (kt) – 3X Growth



Ore Production (mn MT) – 3.5X Growth



Silver Metal – Integrated Saleable (MT) – 9X Growth



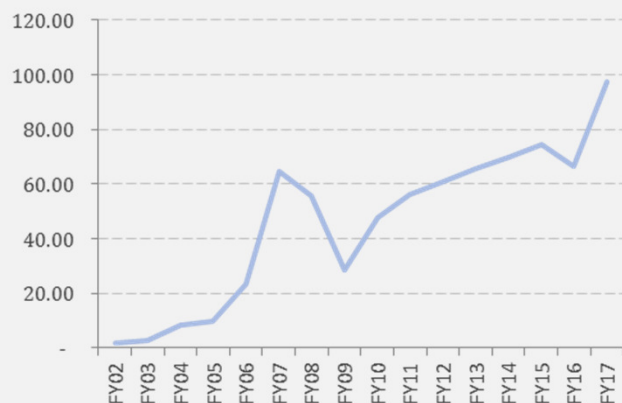
Multi-fold growth since disinvestment

Robust Financial Performance



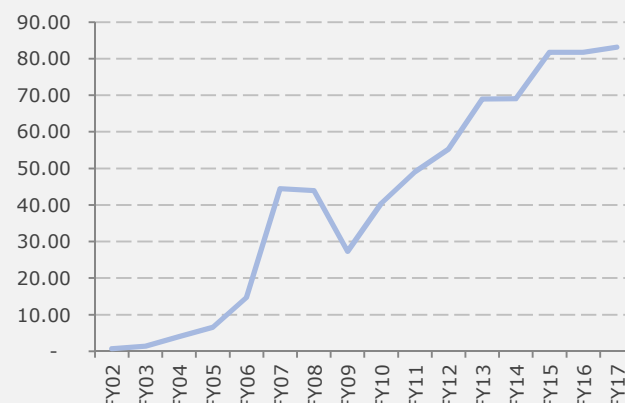
EBITDA

Rs. bn



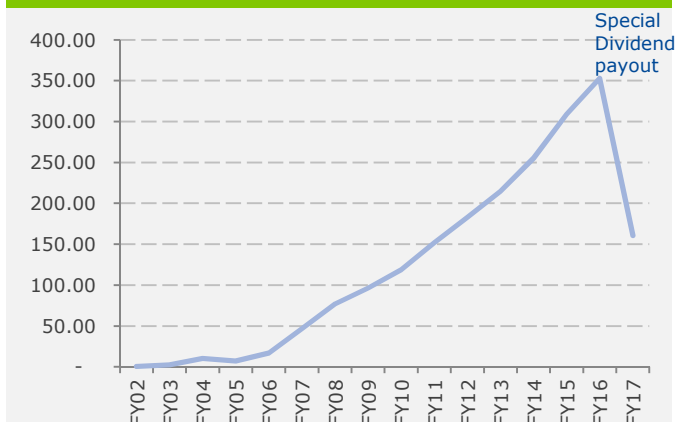
PAT

Rs. bn



Cash & Cash Equivalents*

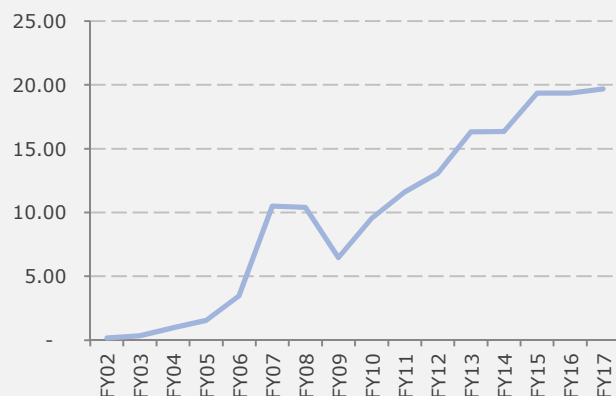
Rs. bn



*net off dividend accounts & temporary borrowings; includes investments at fair value & interest accrued thereon

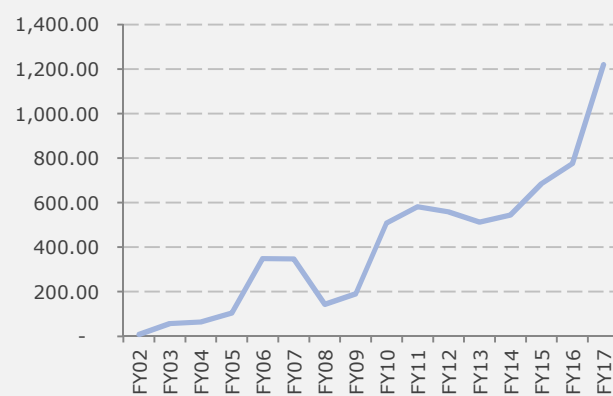
EPS

Rs.



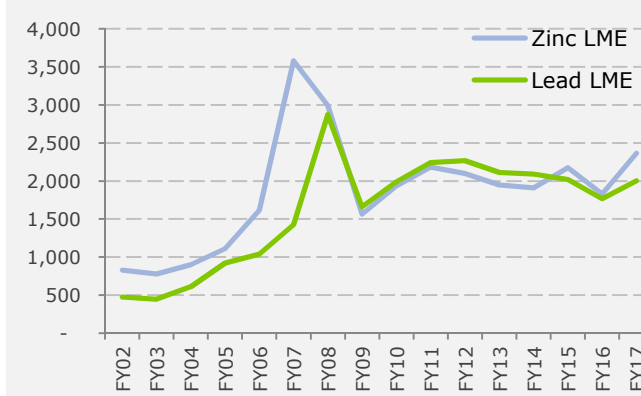
Market Cap

Rs. bn

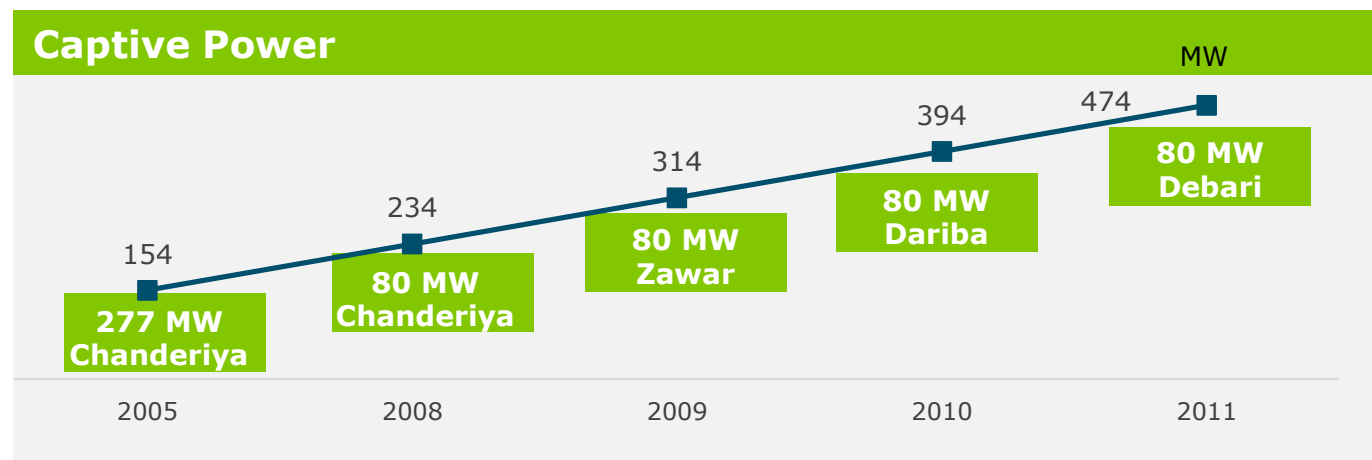


LME Price

\$/MT



History of Project Delivery



Smelters

2005

Zn Hydro-1 at Chanderiya (170 kt)

2006

Ausmelt at Chanderiya (50 kt)

2008

Zn Hydro-2 at Chanderiya (170 kt)

2010

Zn Hydro-3 at Dariba (210 kt)

2012

Pb Smelter Dariba (100 kt)
Silver refinery Pantnagar (500 MT)

2007

SKM 0.3 mtpa

2009

RA OC 3.75 to 5 mtpa

2010

RA OC 5 to 6 mtpa

2012

SKM 0.3 to 2 mtpa

2013

Production commenced at **Kayad Mine**

2016

SKM 2 to 3 mtpa

2017

SKM 3 to 3.7 mtpa
RAUG 1.4 mtpa
SK Mill commissioned

Mines

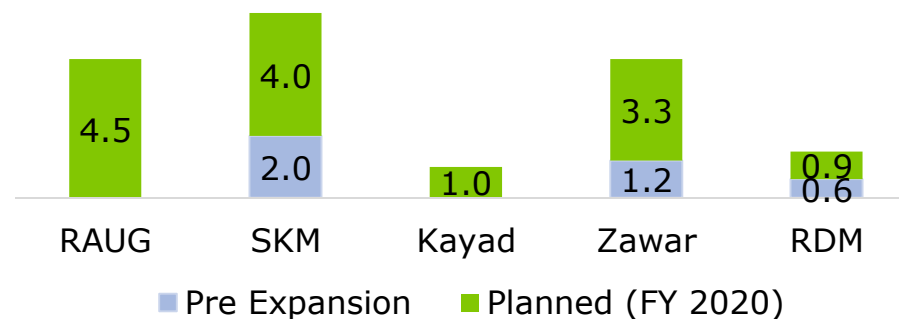
Mine Expansion Project Overview



- Mine expansions in sync with increasing R&R
- Five major projects to increase MIC capacity to 1.2 mtpa, including RAM OC replacement
- Transition from Open Cast to UG mining
- Smelters' debottlenecking to remain integrated
- Six year capex of \$1.6 bn; ~\$1 bn spent

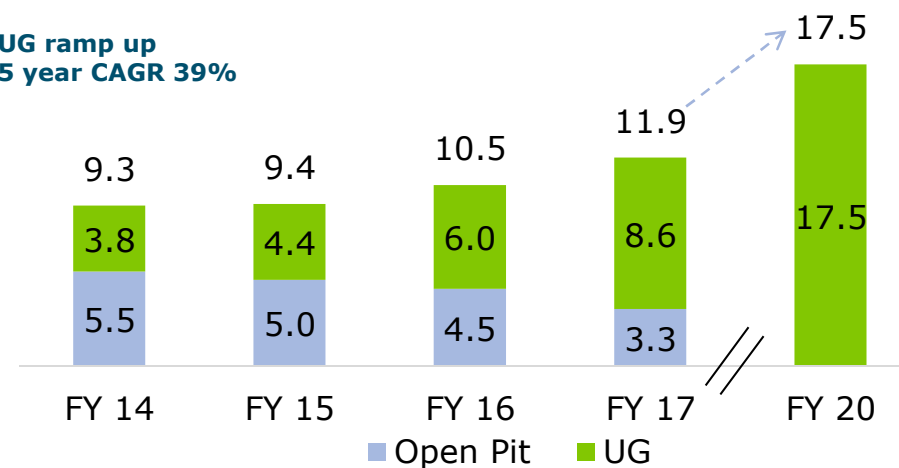
Underground Mines Ore Capacity Expansion

3.8 mtpa → 17.5 mtpa

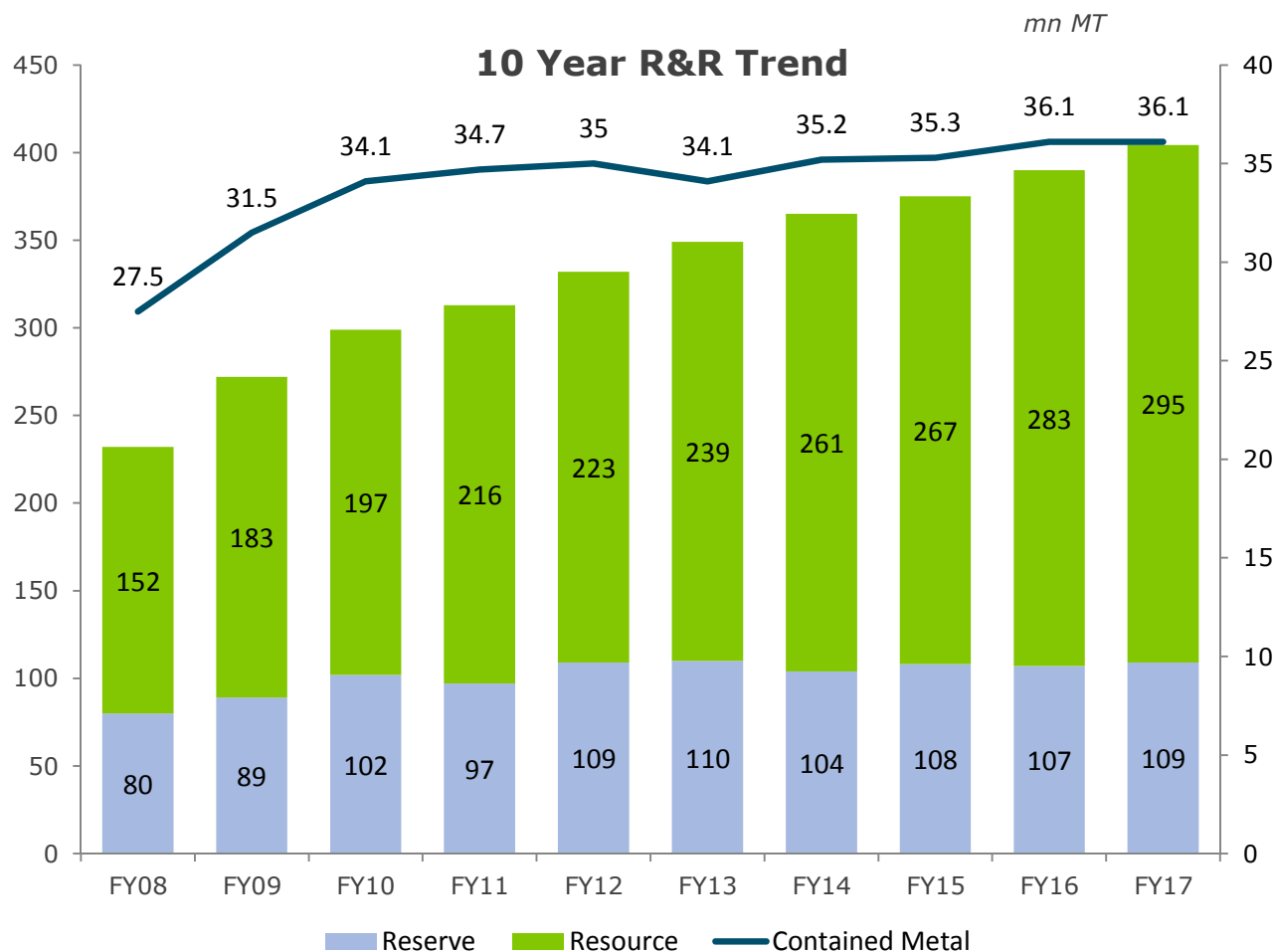


OC to UG Transition

UG ramp up
5 year CAGR 39%



Sustained Commitment to Exploration → Strong Track Record of R&R Addition



- R&R 404 mn tonne in FY 2017
- R&R estimation to the JORC standard and audited by international consultants
- Drilling 80,000+ metres pa to add new resource tonnage
- Clear exploration strategy to grow R&R
- Use of latest global technologies

Every year since disinvestment, we have added more than depleted



Vision

To enhance the quality of life and economic well being of communities around our operations.

Goals

- To positively & holistically impact the quality of life of the communities living around our areas of operation.
- To work in partnership through a multi-stakeholder approach for innovatively, effectively and efficiently addressing development challenges.
- To emerge as a thought leader, creating benchmarks of good practices in CSR across Rajasthan & country.

Reach

Over half a million people in Rajasthan; positively impacting lives of more than 100,000 households

Core Principles

Neighbourhood Communities

Our first and foremost commitment

The Partnership Multiplier

Work, as much as possible, through strong and credible local partners

Impact Centric

In almost everything we do, we focus on impact rather than on spends

Strong Governance

Multi-tiered and objective governance structures and routines

Touching Lives of Neighbourhood Communities



Education



Sustainable Livelihoods



Women's Empowerment



Health, Water & Sanitation



Sports & Culture



Environment



Community Assets Creation

'Ajmer Dargah Complex' –
A Swachh iconic place

Clean Ayad river, the lifeline of Udaipur
(STP)
Project Gulshan

'Samadhan' –
Integrated agriculture and livestock development

'SAKHI' - Women's empowerment initiative



Nandghar;
Khushi Anganwadi

Shiksha Sambal
Unchi Udaan

HZL Mining Academy
Football Academy

Jeevan Tarang...
Zinc Ke Sang



**1.5 mtpa
capacity
under
planning**



Shaft and decline integration
Multi-level mining
Digital transformation to boost productivity
New prospects & tenements

**1.2 mtpa
capacity
by FY
2020**



25+ years of mining R&R with potential of 1.2 mtpa
Transition to underground mining progressing smoothly
Shaft commissioning in Q3 FY 2019 to give step jump
Mill & smelter capacity to keep pace

**Outlook
FY 2018**



Mined metal: Higher than 907 kt of FY 2017
Refined zinc-lead: 950 kt; silver: 500+ tonne
Project Capex of \$300-325 million
Dollar COP (excluding royalty) likely to be \$900-\$950/t



vedanta

transforming elements

Thank You