



Hindustan Zinc Limited

World's largest integrated Zinc producer





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World Class Mining Assets

Sindesar Khurd Mine

Reserves: 21.6mt
 Resources: 59.8mt
 Reserve Grade Zn: 4.5%
 Reserve Grade Pb: 2.7%
 Ore Production Capacity:
2.0mtpa

Rampura Agucha Mine

Reserves: 69.3mt
 Resources: 41.1mt
 Reserve Grade Zn: 13.7%
 Reserve Grade Pb: 1.9%
 Ore Production Capacity:
6.15mtpa

Kayar Mine

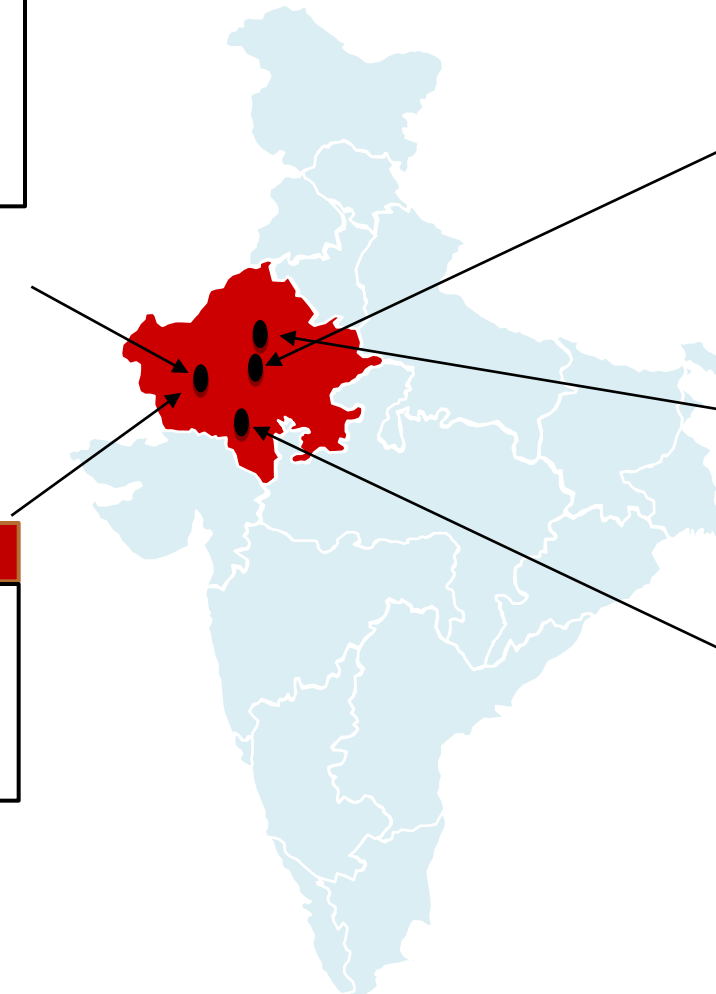
Reserves: 1.8mt
 Resources: 9.5mt
 Reserve Grade Zn: 12.6%
 Reserve Grade Pb: 1.8%
 Initial Ore Production
 Capacity: **0.35mtpa**

Rajpura Dariba Mine

Reserves: 8.8mt
 Resources: 43.5mt
 Reserve Grade Zn: 6.3%
 Reserve Grade Pb: 1.7%
 Ore Production Capacity:
0.90mtpa

Zawar Mining Complex

Reserves 7.8 mt
 Resources: 64.1 mt
 Reserve Grade Zn: 3.6%
 Reserve Grade Pb: 2.0%
 Ore Production Capacity:
1.2mtpa
 CPP: **80MW**



Note: Map not to scale

Over 10 million tonnes of ore production capacity



World Class Smelting and Power Assets

Chanderiya Smelting Complex

Pyrometallurgical Lead Zinc Smelter:
105,000 tpa Zinc
35,000 tpa Lead
168 tpa Silver
 Hydrometallurgical Zinc Smelter:
420,000 tpa Zinc
 Ausmelt™ Lead Smelter:
50,000 tpa Lead
 Captive Power Plant: **234MW**

Zinc Smelter Debari

Hydrometallurgical Zinc Smelter:
88,000 tpa Zinc

Wind Power Plant - Rajasthan

Mokal - **79.8MW**
 Osiyan - **9MW**

Dariba Smelting Complex

Hydrometallurgical Zinc Smelter:
210,000 tpa Zinc
 Lead Smelter
100,000 tpa Lead
 Captive Power Plant: **160MW**

Wind Power Plant - Gujarat

Samana - **88.8MW**

Wind Power Plant - Maharashtra

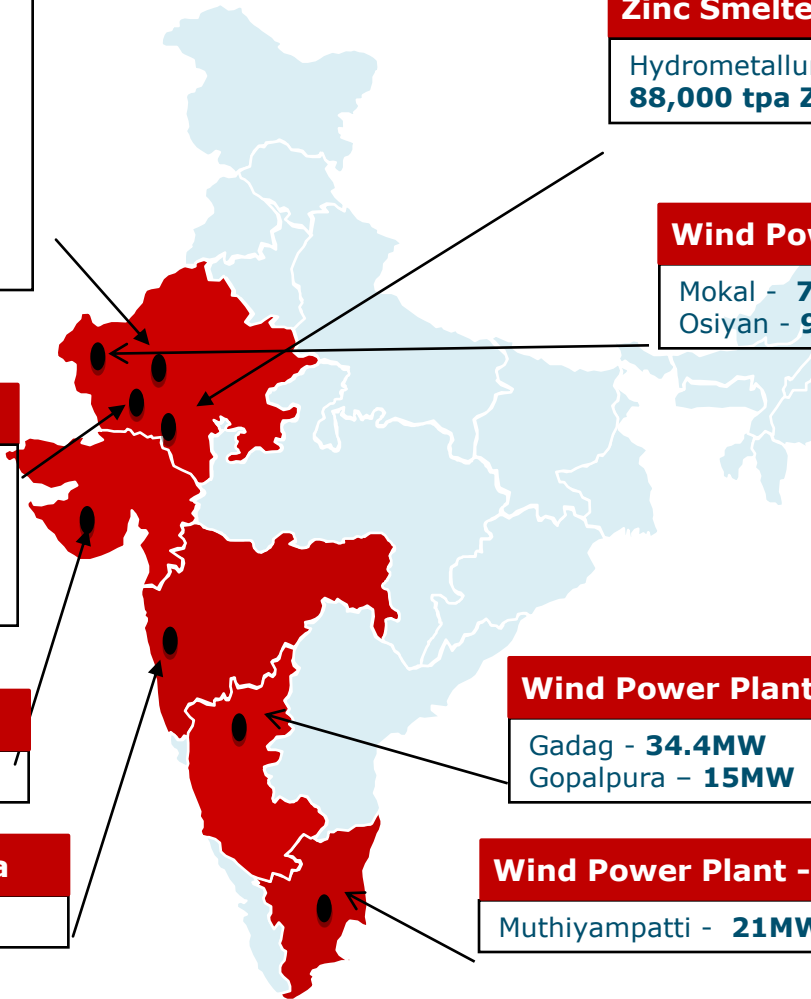
Chakala - **25.5MW**

Wind Power Plant - Karnataka

Gadag - **34.4MW**
 Gopalpura - **15MW**

Wind Power Plant - Tamilnadu

Muthiyampatti - **21MW**



Over 1 million tonnes of metal & ~800MW of power capacity



Resource Driven Growth

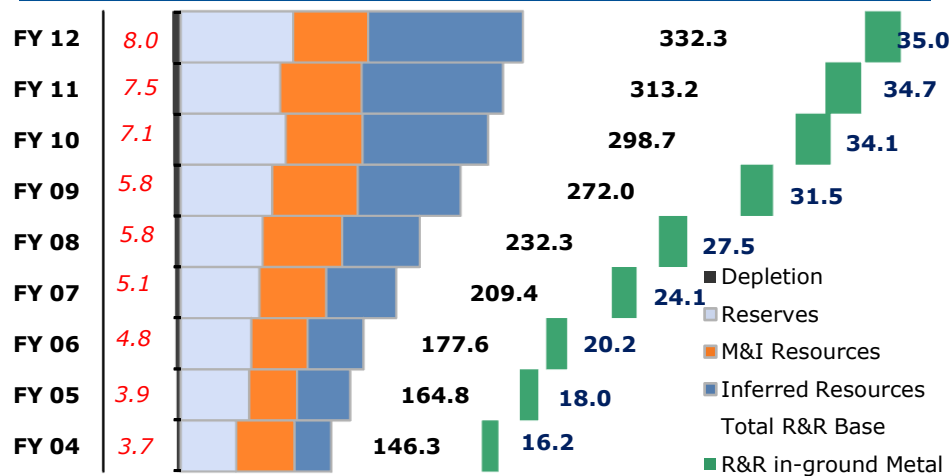
- Substantial Reserves & Resources base with 25+ years mine life
- Best-in-class assets and fully integrated operations
- Global cost leadership and high operating margins
- Resource driven growth strategy
- Superior FCF generation - EBITDA to FCF conversion of over 80%
- Experienced management team supporting minimal-risk growth



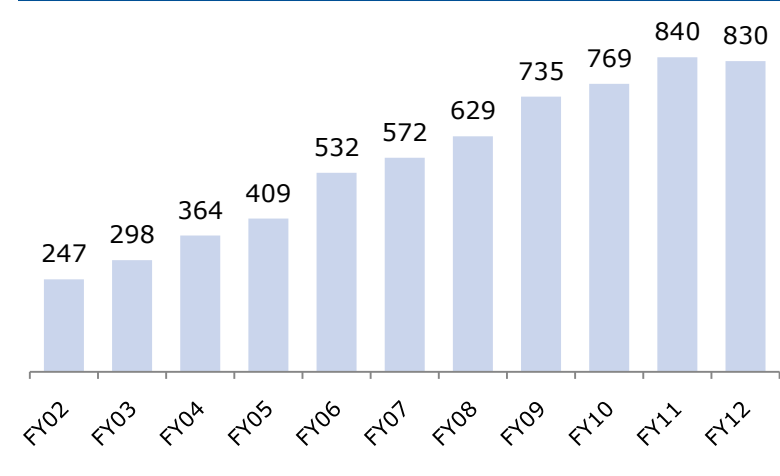
Exceptional Track Record

Year	Reserves & Resources (mt)	Ore Production Capacity (mt)	Zn-Pb Metal Production Capacity (kt)	Silver Production Capacity (t)
2002	143.7	3.45	204	74
2012	332.3	10.25	1,064	518

Reserves & Resources more than doubled (mt)



Mined metal (kt) - CAGR of around 13%





Near-term Priorities

- Mined metal (MIC) production close to capacity
- Lead and Silver throughput close to 185kt and 500t capacity
- Brownfield exploration continues to be rewarding
- Finalize next phase of mining production growth
- Maintain cost leadership

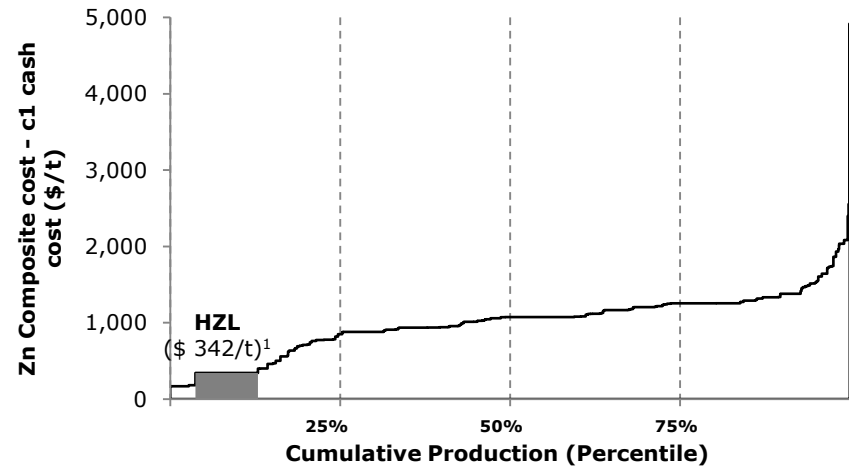


Cost Leadership

Low cost base supported by –

- Tier-I assets with high grades and good mineralogy
- Fully integrated operations
- Significant by-product credits
- Captive Power plants

Refined Zinc – Lowest Quartile Cost Position



Source: Wood-Mackenzie for Zinc C1 cost curve;

1 Zinc India FY2012 COP of \$342/t calculated as per Wood-Mackenzie methodology. Zinc India remains in the First Quartile based on reported FY2012 COP of \$834/t, which does not consider credits for silver and lead.

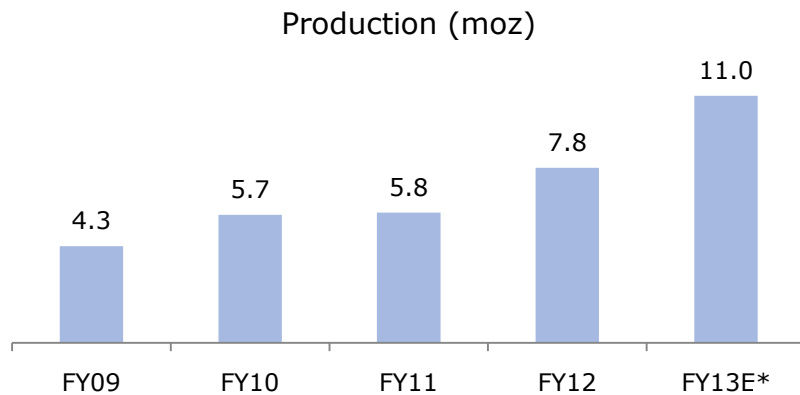
Zinc COP in first quartile of global cost curve



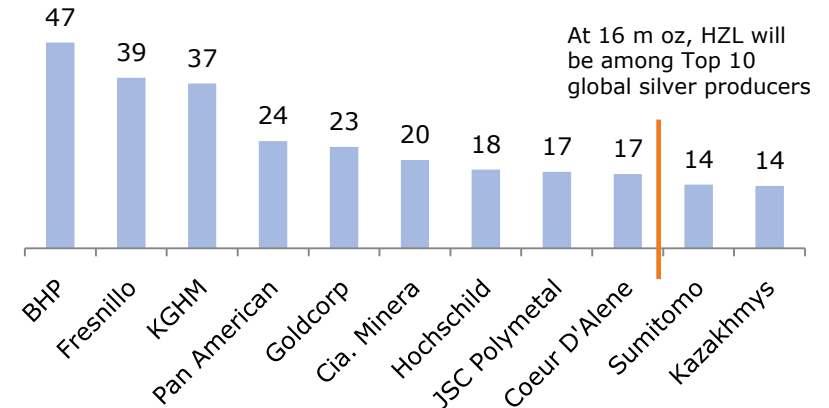
Growing Silver Portfolio

- Among the largest silver resources companies in the world.
- On track to become top 10 silver producers at 16moz driven by higher production & ore grade at SKM and improved metal recoveries across mines/smelters.

Silver¹ – Volume growth



Global Silver Producers² (moz)



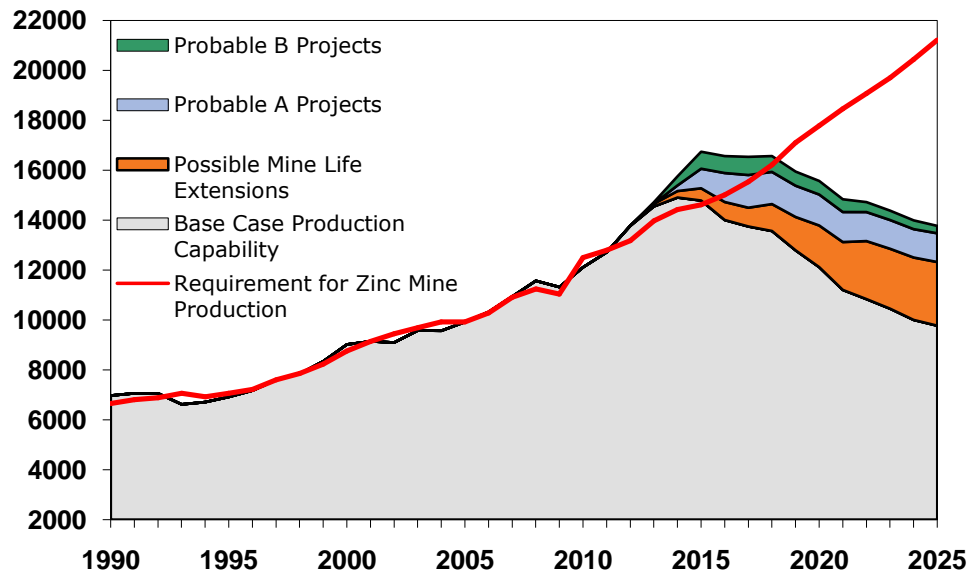
Source. 1. Company's Guidance for Integrated Silver Production in FY13
 2. The Silver Institute World Silver Survey 2011



Positive Market Outlook

- Demand – supply gap expected to widen on supply shortfall and robust consumption growth
- Consequently, Zinc prices projected to be in secular uptrend

Sources of Future Zinc Mine Production¹ (ktpa)

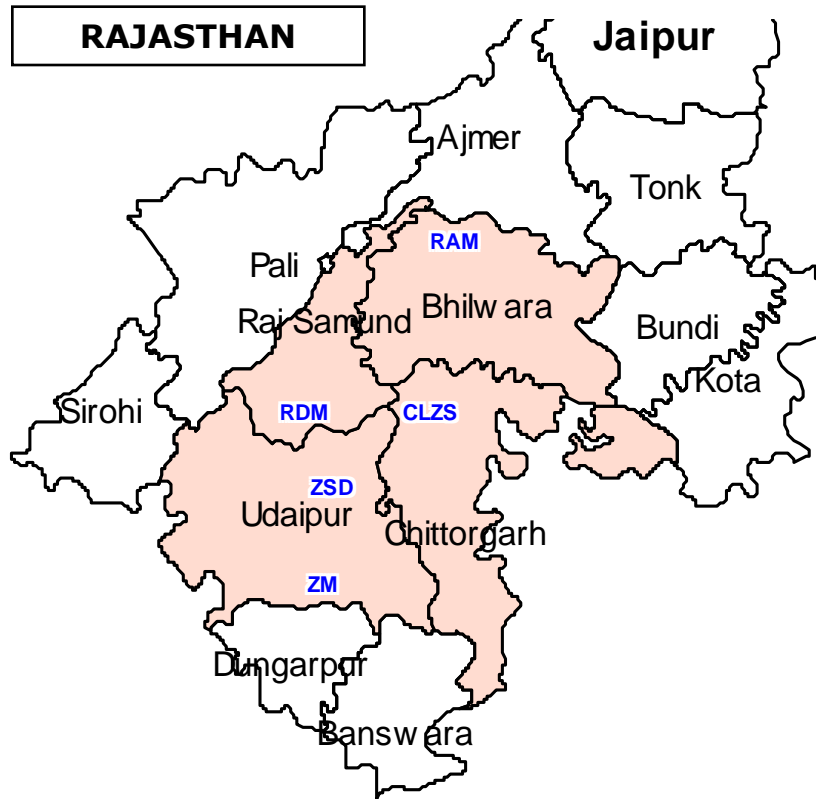


Source. BrookHunt

Notes: 1. Probable projects are those projects likely to enter commercial production in the future, but are subject to a significant degree of uncertainty, particularly with regard to timing. The uncertainty usually relates to economic or technical matters.



Community Engagement



Fostering Self-Reliance through Community Development

- Reaching to more than half a million people in Rajasthan
- Positively impacting lives of more than 55,000 families in 184 Villages in Rajasthan
- Members of United Nations Global Compact (UNGC), TERI-BCSD (Business Council for Sustainable Development) and National Population Stabilization Fund
- CSR initiatives undertaken on local needs of the community focusing on :
 - Health & Nutrition
 - Education
 - Water & Sanitation
 - Sustainable Livelihood
 - Agriculture & Livestock Development
 - Women Empowerment
 - Social Forestry
 - Community Asset Creation

Climate Change Management

- Leading wind power generator in India- ~274MW of installed wind power
- Registered 4 CDM projects with UNFCCC for utilizing waste heat, low calorific value gas and generating wind power
- 100,000 plantations on the occasion of 'World Environment Day- 5th June 2012'. Total plantation: 1.35 million



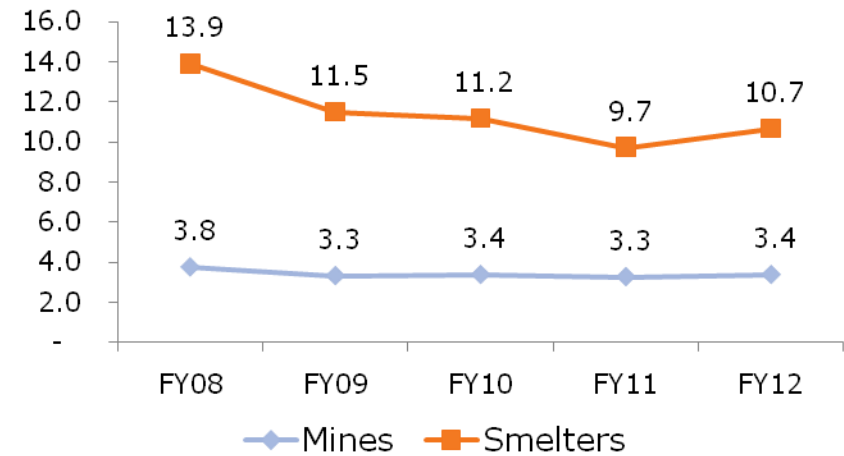
Reducing water footprint

- Sewage treatment plant, Effluent treatment plant and Reverse Osmosis plant in place for recycling 100% of waste water generated
- Adiabatic cooling towers in place of conventional water cooling towers in Roaster at Dariba

Gainfully utilizing waste

- Ensuring 100% use of fly ash and bottom ash in cement manufacturing
- More than 0.8 million MT of ISF slag utilized in cement manufacturing
- Pilot study conducted on utilizing Jarofix in road construction, results are favorable

Water Consumption (cum/tonne)



EXPLORATION

*"Adding Value through discovery -
using world's best technology and
experts"*

Terry Barclay

September 2012

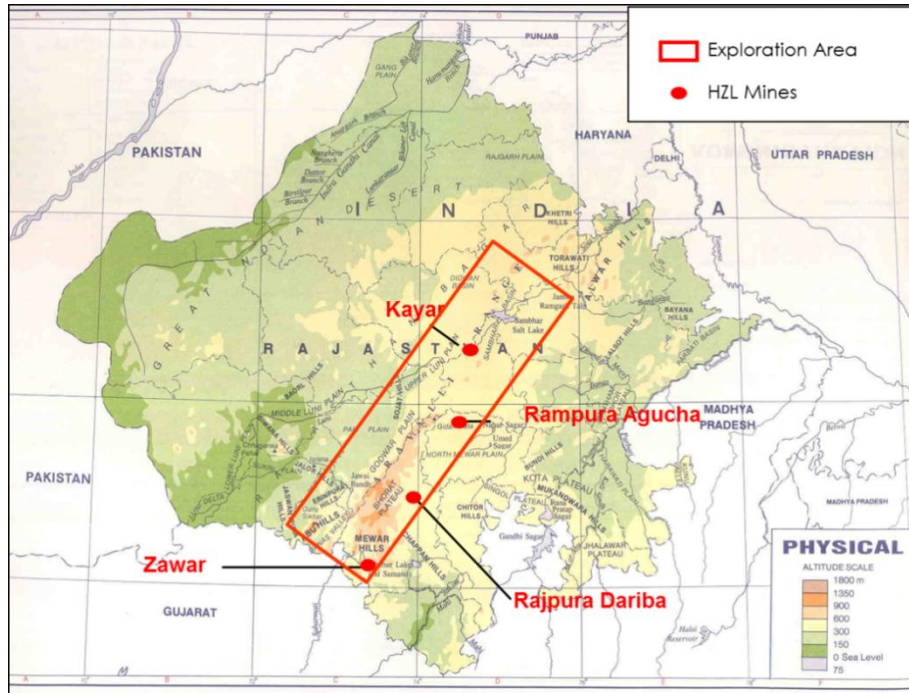




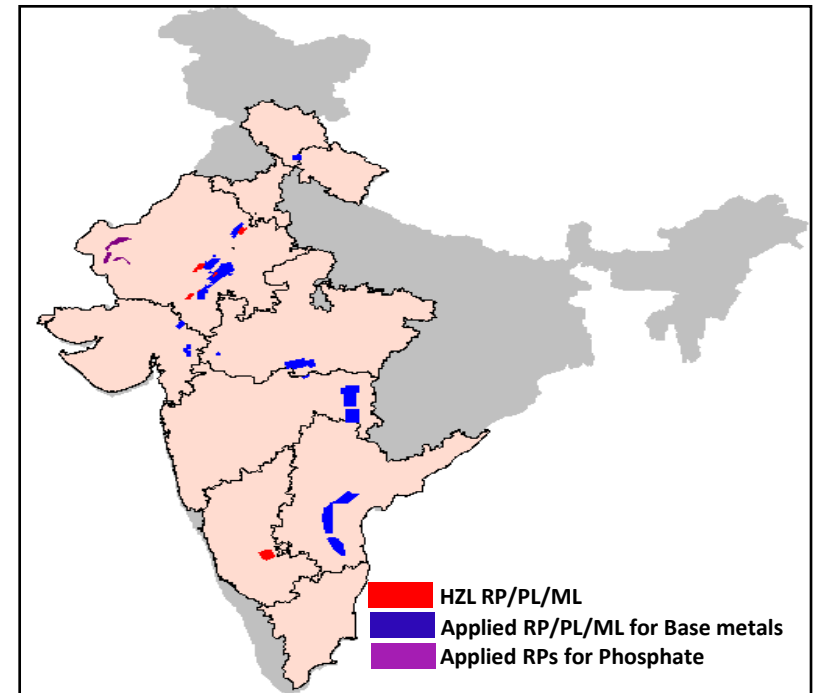
Exploration Driving Growth

- Increasing Reserves and Resources at existing mines
- Large-scale exploration program with pan-India activities driven by opportunity rather than location or commodity
 - Pan-India RPs and PLs

Aiming to discover world class Lead-Zinc deposits in Rajasthan

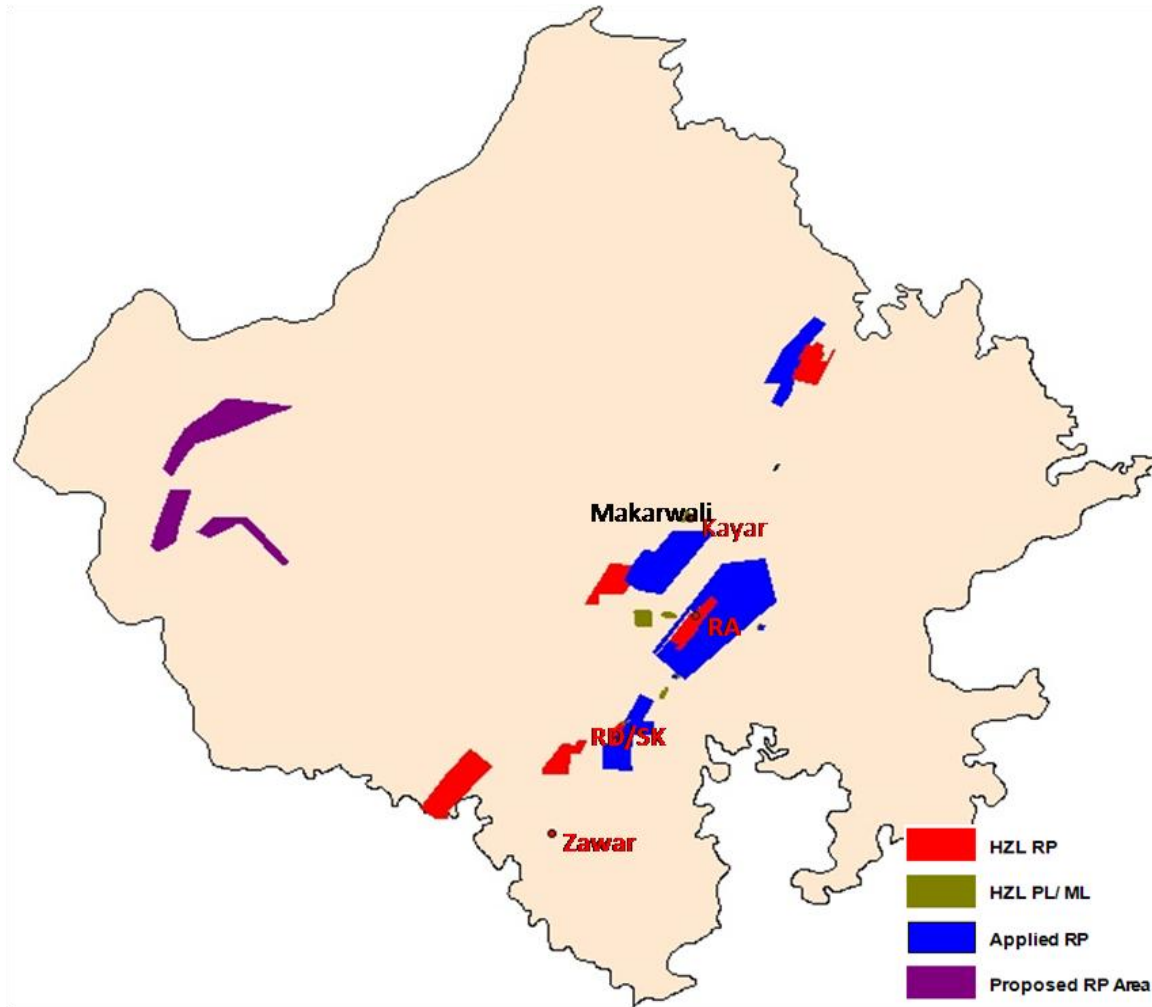


Active project generation to identify new Lead- Zinc belts





Major Exploration Techniques



DRILLING

Brownfields – 45,000m

Greenfields – 29,000m

GEOPHYSICS

4,000 line kms

- Ground Magnetics

- Electromagnetics

- Induced Polarisation

DETAILED GEOLOGICAL MAPPING

- 80 sq kms

SOIL GEOCHEMISTRY

- 20,000 samples



RAMPURA AGUCHA MINE



Overview

Commissioned	: 1991
Location	: 225 km north of Udaipur (Rajasthan)
Mining Lease Area	: 1,200 Ha
Reserves	: 69.3 million tonnes
Resources	: 41.1 million tonnes
Avg. reserves grade	: 13.7% Zn, 1.9% Pb
Ore Production capacity	: 6.15mtpa
Mining Method	: Open Cast up to 372m, underground beyond
Waste Management	: Waste dump (20m x 5 lifts)



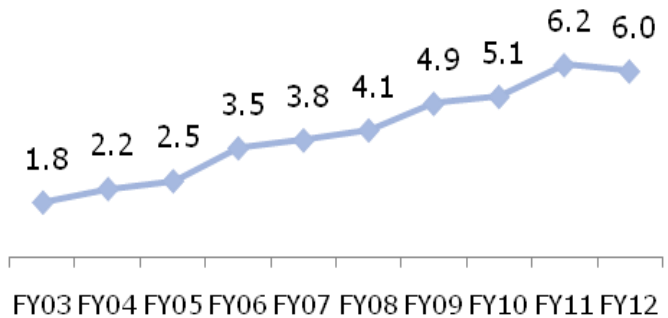
World's largest Zinc mine is also one of the lowest cost producers globally



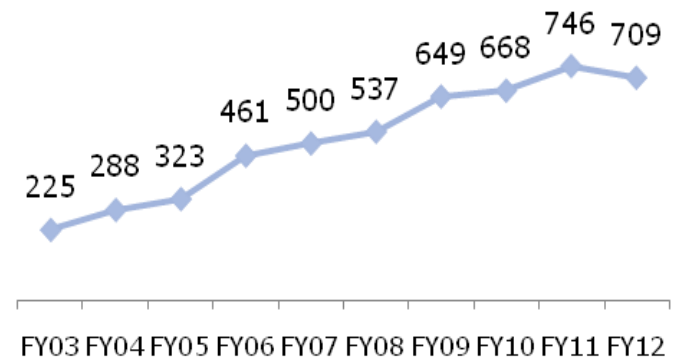
Consistent growth

- Major Focus Areas:
 - Focused exploration to enhance the reserves & resources base
 - Operational efficiency improvement through continuous improvement initiatives
 - Continuous technological up-gradation
 - Utilization of HEMM at par with global benchmark

Ore Production (mt)



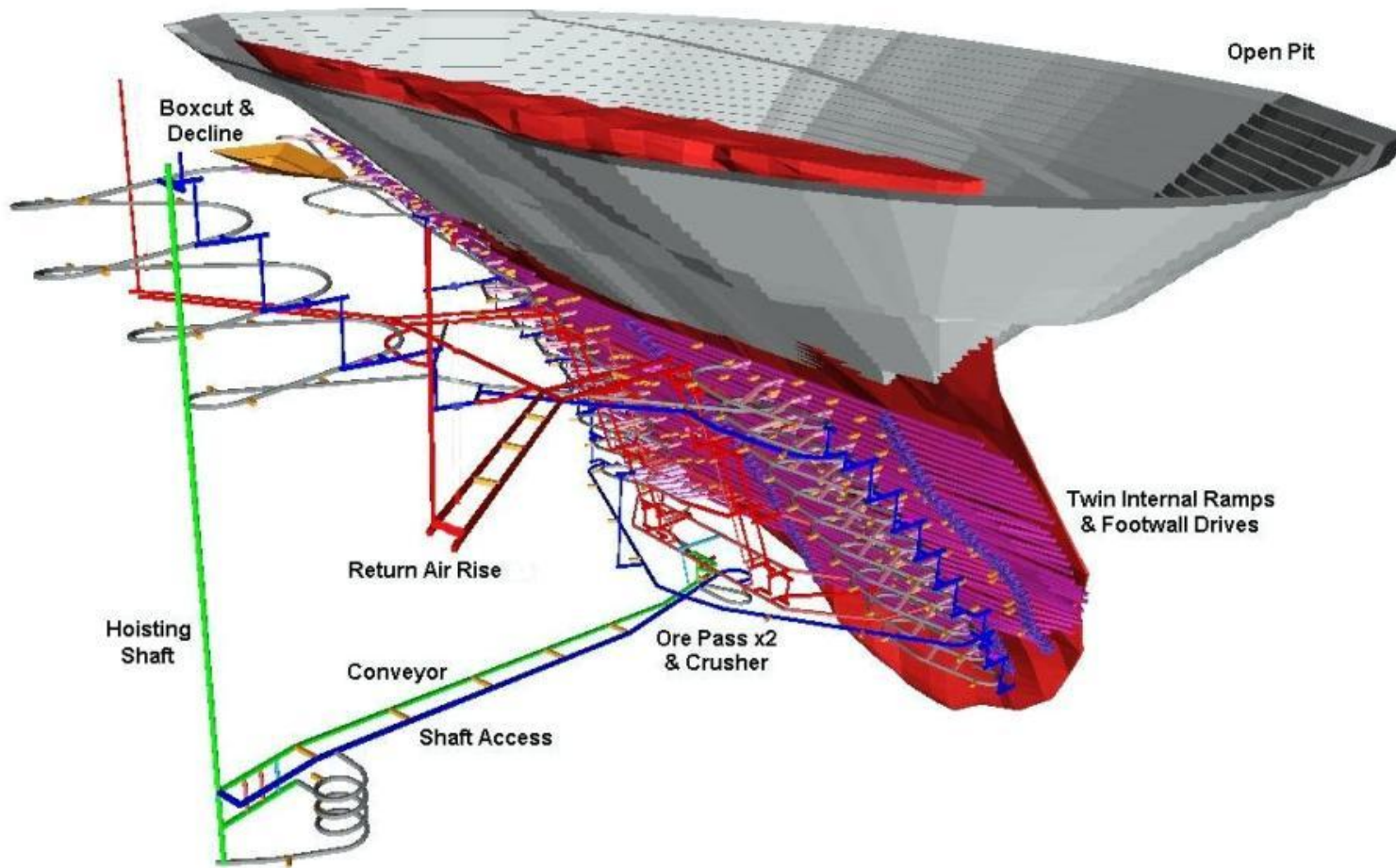
MIC Production (kt)





Isometric view

- Development ore from underground project – 2HFY13
- Commercial production from underground project – FY14
- Total ore production from open cast & underground - ~ 6.0mtpa





DARIBA SMELTING COMPLEX

Overview

Dariba Smelting Complex-

- Hydro Zinc smelter – 210,000 tpa
- Lead smelter – 100,000 tpa
- Captive Power – 160MW



Captive mines in immediate vicinity-

- Rajpura Dariba Mine (Underground)
Production capacity – 0.9mtpa
- Sindesar Khurd Mine (Underground)
Production capacity – 2.0mtpa



Zinc-Lead smelting complex with captive Zinc-Lead mines and power plants



Zinc Smelter - Overview

- Technology-
Hydro metallurgy
(Roast, Leach & Electro-winning)
- Technology Supplier-
Outotec
- Plant Capacity-
210,000 tpa
- Plant consists of-
 - Roaster and acid plant
 - Leaching and Purification
 - Cell House





Lead Smelter - Overview

- Technology-
SKS, Bottom blowing Technology
- Technology Supplier-
ENFI, China
- Plant Capacity-
100,000 tpa
- Plant consists of-
 - SKS Furnace – Bottom blowing
 - Blast furnace
 - Electric arc furnace & Fuming furnace
 - Electro - refining





SINDESAR KHURD MINE



Overview

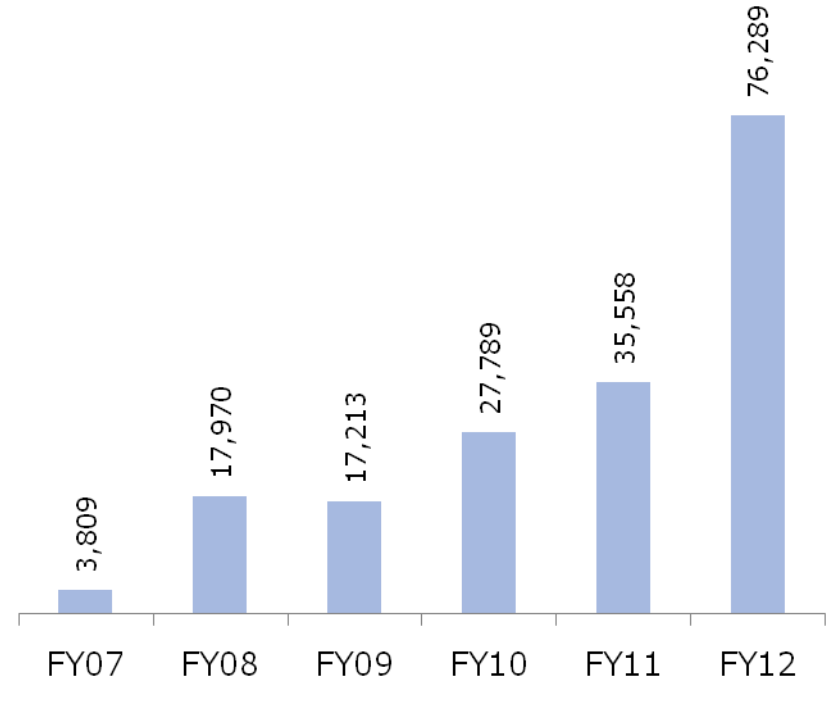
Location	:	82 km North-east of Udaipur
Access to mine	:	Through two Ramps (5.5m wide x5.0m height) (4.3m wide x3.0m height)
Method of working	:	Blast hole open stoping in upper block LHS with paste filling in lower block
Ore hauling	:	Planned up to a depth of 400/450m through ramps; and below that through shaft
Mine ventilation	:	Two ventilation shafts, Peripheral type
Production capacity	:	2.0mtpa
Explored depth	:	1,100m from surface



Accelerated Growth

- Ore production capacity ramped-up to 2.0mtpa from 0.3mtpa in 2006
- Reserves & Resource base of 81.4mt with 417moz of Silver
- Most mechanized mine in India –
 - comparable to other world-class mines
 - track-less mining
 - largest capacity equipments
 - operation cost comparable to open-cast mines

Mined metal (tonnes) - CAGR of around 82%





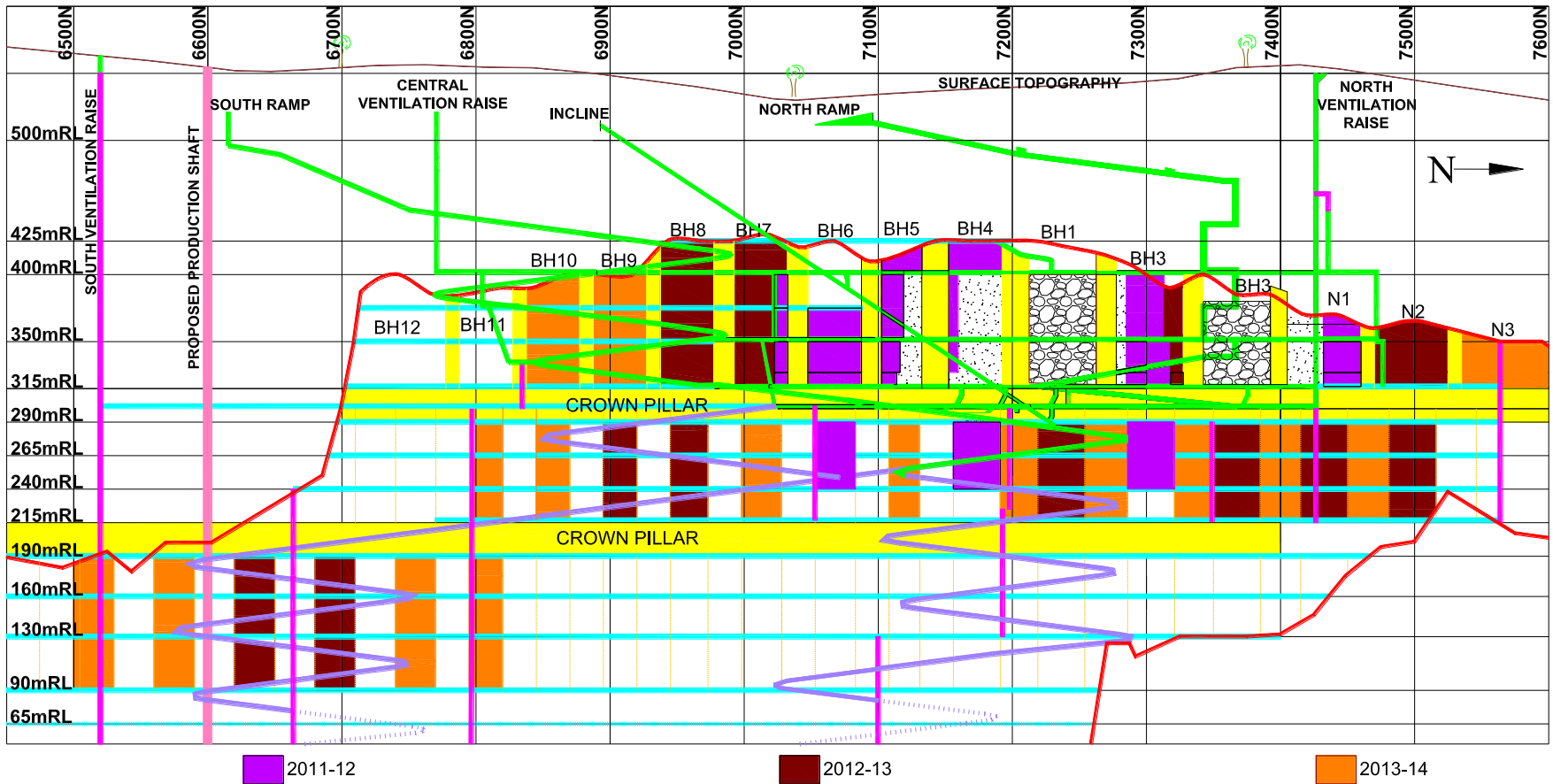
Geotechnical Characteristics of Rock Mass

- Rock mass at Sindesar Khurd is of high strength, has good rock mass quality and few joints
- There is little difference in rock mass conditions between footwall, ore-body and hang-wall
- SK rock mass is classified as good to very good
- There are no major or regional structural features
- There are no significant ground water issues





LVS of Sindesar Khurd Mine





THANK YOU