

Delivering Growth and Shareholder Returns



10 November 2017





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1120hrs	Zinc International	Deshnee Naidoo, CEO – Zinc International	16
1135hrs	Zinc India	Sunil Duggal, CEO - Zinc India	25
1150hrs	Zinc Q&A		34
1230hrs	Lunch		



Oil & Gas Sudhir Mathur – CEO, Oil & Gas





- Contribute to 50% of India's domestic crude oil production with volumes of 500kboepd and reserves of over 3bn barrels of oil equivalent
- Operate diversified and sustainable portfolio
- Deliver long-term value to Shareholders, Governments and Local Communities

Key Levers to deliver the vision

Exploration Portfolio

Rejuvenate exploration portfolio to add contingent resources of over 700mmboe (Rajasthan Basin, Offshore blocks and participation in OALP)

✓ Development Projects

Rich set of opportunities in project portfolio ranging from enhanced oil recoveries, Tight Oil and Tight Gas to add ~100kboepd to production

✓ Operations

Maintain opex at the lower end among global peers even as we ramp-up production amidst increased field complexity and liquid handling



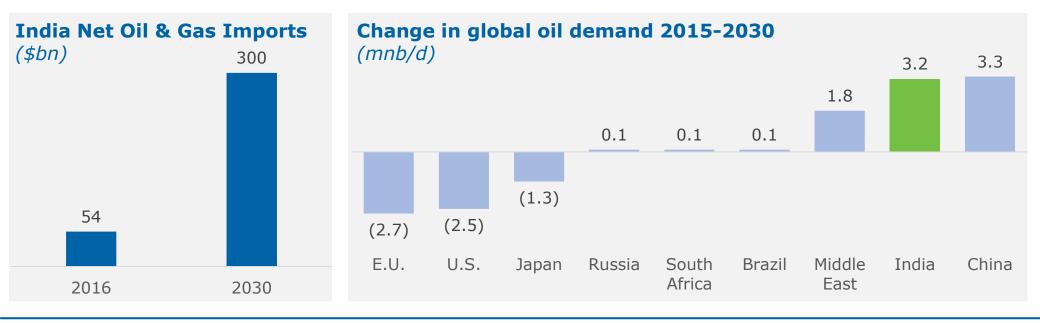


Untapped opportunity

- Over 80bn boe of 'in place resources'
- ~50% of the sedimentary basins to be appraised
- Only 7 of 26 basins in production
- \$9bn annual Oil & Gas sector investments required through 2030

Positive policy measures

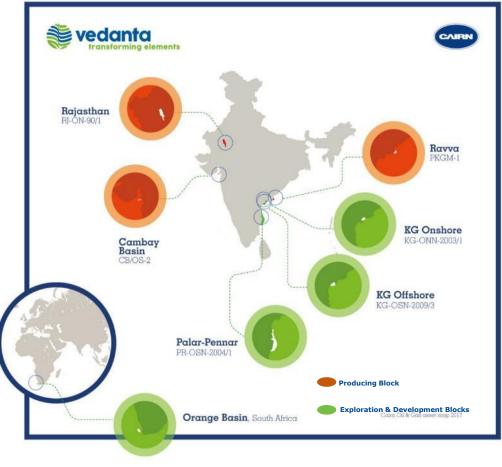
- Hydrocarbon Exploration and Licensing Policy (HELP)
- Open Acreage Licensing Policy (OALP)
- National Data Repository
- Discovered Small Field Policy
- PSC Extension



VEDANTA RESOURCES PLC - FY2018 INTERIM RESULTS AND CAPITAL MARKETS DAY

Assets: Diverse and Prolific geological basins

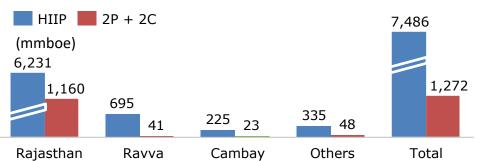
- 7 blocks with net acreage of ~35,000km²
- 3 core producing blocks 1 onshore, 2 offshore
- 51 discoveries till date (38 in Rajasthan)



1. Gross Reserve and Resource estimates based on SPE guidelines as at 31st March, 2017

World Class Resource Base (as on Mar 17)

- Hydrocarbon Initially in Place of 7.5bn boe
- 2P¹ Reserves and 2C Resources of 1.3bn boe

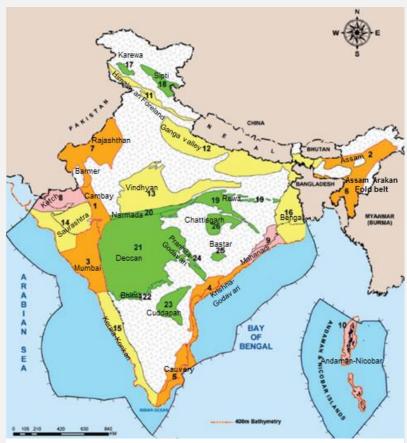


Pioneering Cutting Edge Technology in India

- World's longest continuously heated pipeline from Barmer in Rajasthan to Bhogat in Gujarat (~700kms)
- World's largest Enhance Oil Recovery (EOR) project in Mangala Field
- Successfully tested Alkaline-Surfactant-Polymer (ASP) flood process in the Mangala field
- 4D Seismic Technology for identification of Bypassed / Un-drained Oil
- Drag Reducing Agents to enhance pipeline throughput to 240kbopd
- High end hydraulic fracking technology for monetizing tight oil and tight gas formations

Actively Pursuing Opportunities Under the New Open Acreage Licensing Policy





Proven Basins - 10

Well explored basins with commercial production - 7

Explored basins with discoveries - 3

Frontier Basins - 16

Basins where exploration has showed some indications of oil/gas - 6 Basins with uncertain potential - 10

India: Geology and Potential

- Only 7 of 26 basins under commercial production
 - Discovered Reserves: 28 billion boe of Ultimate Reserves
- Over 80 billion boe of 'in place resources'
- Potential in remaining 19 basins yet to be established: Recent data acquisition by DGH to fast track potential realization

Policy Changes: Open Acreage Licensing Policy (OALP)

- Provides opportunity for acreage acquisition after a gap of 8 years
- Open areas can be accessed without waiting for a bid round: 2.7mn sq. km.
- Acreage award based on transparent competitive bidding process

Cairn Oil & Gas: First to submit EOI's under OALP

- Dedicated team in place for evaluation of blocks under OALP with defined mandate:
 - Discover large fields in high permeability oil reservoir or tight gas reservoir
 - Develop exploration strategy with a mix of medium to low risk new plays and low risk established plays
 - Focus on quick monetization in areas closer to infrastructure
 - Prioritize areas around the prolific Barmer and KG basins
- Bids for EOI's will be submitted by 15th March, 2018 as per policy guidelines

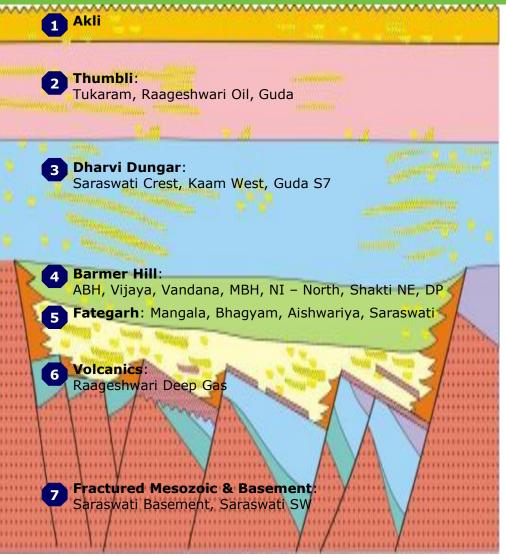
Rejuvenated Exploration to add Over 700mmboe of Contingent Resources



Barmer Basin: Singular access to the prolific Basin spread over 3,000 sq. km. with established discoveries

Rajasthan (Barmer Basin)

- Basin provides access to multiple play types with
 - Oil in high permeability reservoir
 - Tight Oil
 - Tight Gas
- 38 discoveries till date in 6 of the 7 plays
- G&G data including recently acquired 3D seismic and drilled wells being analysed to firm up new plays and prospects
- Global partners engaged to unravel the full potential of the block and establish 1.5bn boe of Prospective Resources
- Exploration and appraisal drilling campaign to commence from H1 CY 2018 to add 300-600mmboe of Contingent Resources





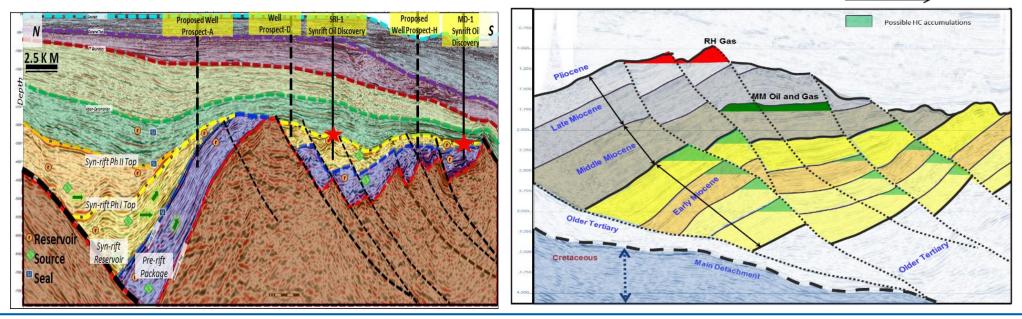
Offshore Basin: Our efforts are centred around the prolific Krishna Godavari basin

KG-OSN-2009/3 (KG Offshore)

- Aim to establish 300mmboe of Contingent Resources
- Seismic interpretation resulted in identification of prospects and leads over different play types
- 2 well exploration drilling campaign commencing in Q4 FY18
- Exploration success to trigger appraisal drilling from Q3 FYF19

Ravva

- Aim to establish 100 mmboe of Contingent Resources
- Prospect inventory identified in deeper prospects
- Exploratory and Appraisal drilling expected to commence in FY19



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\$1bn Capex Initiated to Deliver 300 kboepd at \$5 per boe



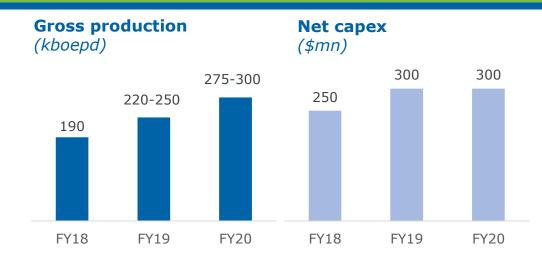
Enhanced Execution Strategy

- Fundamental shift to 'Integrated Project Development' with in-built risk and reward mechanism to drive incremental value from project schedule and recoveries
- Engaging global partners to access cutting edge technologies to deliver economic value

Project Portfolio

- Enhanced Oil Recovery: Replicating the success of Mangala Polymer EOR in Bhagyam and Aishwariya.
 ASP in Mangala to further add over 100 mmbbls at \$5/bbl in due course
- **Tight Oil & Gas**: Deploying latest fracking technologies to recover Oil & Gas from tighter reservoir formations through execution of Raageshwari Deep Gas (RDG) and Aishwariya Barmer Hill (ABH)
- Other Projects: Infill wells around existing producers in Mangala and Cambay to accelerate near term production;

Increasing liquid handling capacity at Mangala Processing Terminal by over 30% to handle incremental volumes



Project	Gross	Gross	Peak
	EUR	Capex	Production
	(mmboe)	(\$m)	(kboepd)
Enhanced Oil Recovery	40	155	19
Tight Oil & Gas Projects	137	640	45
Other Projects:	41	290	53
- Mangala Infill (60 wells)	22	140	32
- Liquid Handling Upgrade	12	120	15
- CB/OS-2 Infill (3 wells)	7	30	6
Total	218	1,085	117

Project IRR of over 20% even at \$40/bbl per barrel Brent → Positive Free Cash Flow post capex every year

Cairn Oil & Gas: One of Lowest Operating Costs Globally



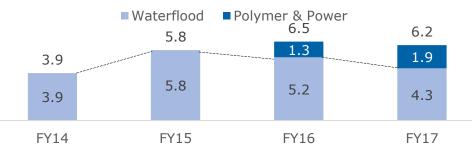
- Consistent reduction in waterflood operating cost since FY15 driven by scope optimization, process efficiencies and contract optimization
 - RJ waterflood operating cost lower despite increased liquid handling (~ 1bn barrels of fluid), increased complexity and higher well count
 - Savings on power costs though captive power and open access
 - Reservoir optimization and production technology
 - Wells and facilities management optimization

Optimizing Polymer cost and consumption

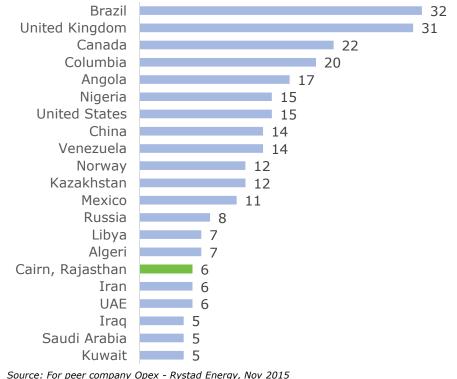
 Reduced polymer cost to \$8-9/bbl compared to initial estimates of over \$12/bbl



Rajasthan costs (\$/boe)



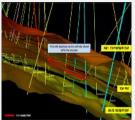
Global Cost Profile (\$/boe)



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Technology and Digitalization Enabling Business



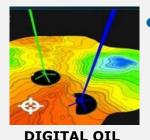


- Implementation of EOR techniques
 - World's largest polymer flood in Mangala
 - Successfully tested ASP flood process in the Mangala field
- SUB SURFACE
- 4D Time Lapse Technology in Ravva
- Turnaround of Ravva and Cambay fields



DRILLING OPERATIONS

- Multi stage fracking to improve well productivity and improve EUR
- Enhanced well productivity through frac design
- Limited entry frac multiple perforation in single stage



FIELD

Digital Oil Field – 24 hour real time monitoring



PIPELINE

- Worlds largest continuously heated pipeline (700+ Km)
- Pipeline intrusion detection system
- Using drag reducing agents to augment capacity by 30% with no additional Capex

- Real time data analytics
- Process automation
- Collaborative ecosystem and overall integrated enterprise

BIG DATA & ANALYTICS



- Partnerships with leading firms
 - Predictive maintenance
 - Sensors, wearables
 - Enterprise dashboards

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Summary



- Exploration program recommenced to add to the prospective and contingent resources with a focus on Onshore Barmer Basin, Offshore Basins and OALP rounds
- Development Projects execution in progress with a gross investment of \$1bn for incremental volumes of ~ 100 kboepd in the next 2-3 years
- Operating cost optimization to keep cost at the lower end amongst global peers amidst increased field complexity and liquid handling
- Oil & Gas business to continue generating positive free cash flow post capex every year







Q & A Oil & Gas



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Zinc International

Deshnee Naidoo – CEO, Zinc International



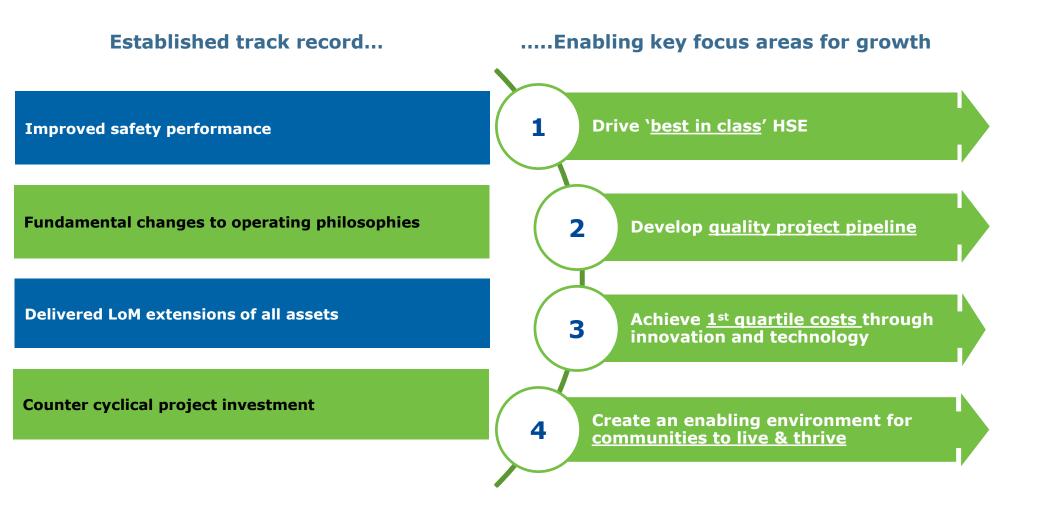
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https://www.youtube.com/watch?v=-tcsgJpTIHk&feature=youtu.be







Vision is to be the safest, socially responsible 1mtpa integrated Zn producer; in the Q1 median of the global cost curve

Skorpion Zinc (100% VEDL)

- Open pit zinc mine and refinery
- Largest integrated zinc operation in Africa
- LoM of 4 years
- Refinery capacity of 150ktpa

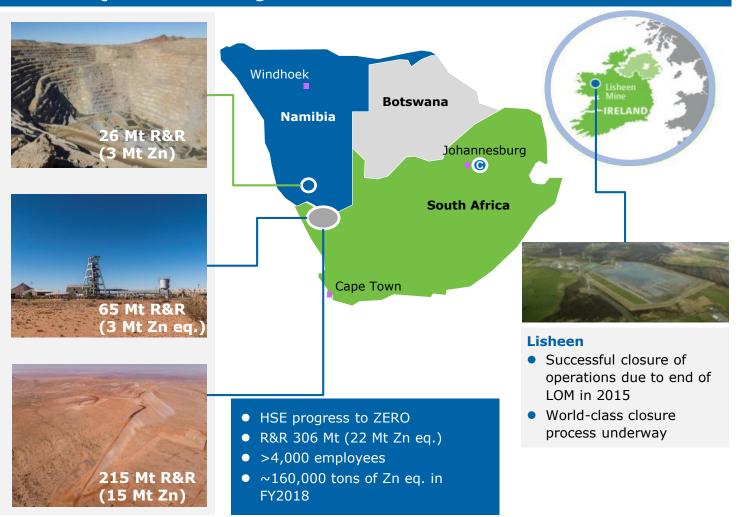
Black Mountain Mine (74% VEDL)

- Underground operation, mining zinc, lead, silver and copper deposit
- LoM of 4-5 years
- Plant capacity of ~100ktpa Zn eq. metal in concentrate

Gamsberg Project

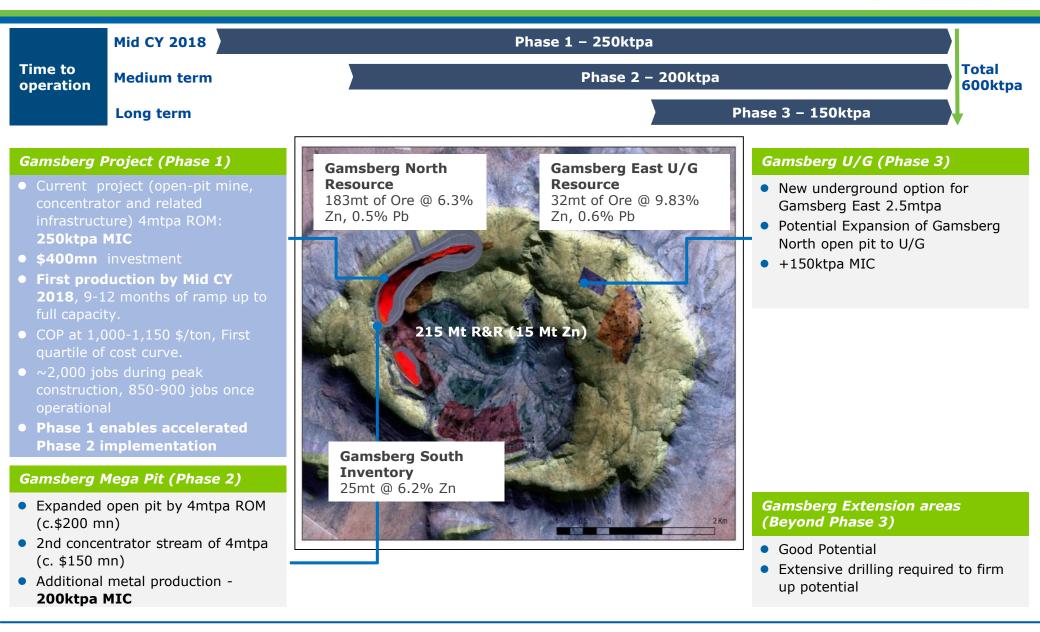
- One of the world's largest known Zn deposits
- Phase 1 of project in execution, \$400mn capex investment¹, 250ktpa metal in concentrate
- First production by mid CY 2018





Gamsberg – Anchor for Zinc International Growth





Gamsberg Project Progress – Site Activities in Full Swing





North pit



Thickener pre-assembly test



Plant civil footprint

Mining (>50% Pre-strip work complete)

- Pre-stripping volume ramped up to > 4mtpm
- Pre-stripping >35mt completed of 65mt
- First ore production early 2018

Plant and Infra (~55% complete)

- All long lead equipment ordered and >75% will be on site by end of 2017
- First ore feed to Plant Mid CY 2018

Tailings Facility & Bulk Water

- Tailing facility: 45ha of 110ha liner installed
- Water pipeline installation: 25 of 38 km installed





Digitalisation

 Partnership model for end-to-end digitalization has been adopted

Others

Transformer installed on site

- Biodiversity ~85,000 plants relocated (2015)
- Housing being constructed in anticipation of operational requirements
- >100 houses being constructed

All major ordering with major commitments completed - Bulk mining, Plant & Infra and Tailings Dam More than 80% of the capex committed. All contractors mobilised at site. More than 1,900 employees at construction site



Tailings dam

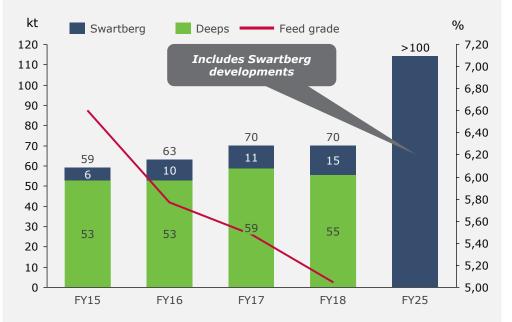


BMM Operations Step Up & Growth Opportunity



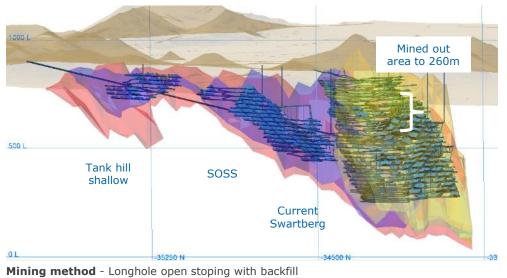
BMM Operational Performance is Trending Positively...

Production per year, Metal (Zn & Pb) in concentrate



- BMM continues to perform well , despite:
 - Decreasing working areas (from 10 to 5)
 - Backfill placement up by >80%
- Specific initiatives over last 2 years include:
 - Long hole mining up by >190% to 40kt
 - Milling throughput up by 11% to 1.7mtpa





Mining method - Longhole open stoping with backfill Mineable resource - 26.3mt Total contained metal - 1,096kt Ramp up to steady state - 4 years Steady state production - 1.7mtpa for 13 years Metal production (MIC) - 4.3kt Cu, 47.5kt Pb, 8.3kt Zn

Black Mountain Complex – Operational readiness

- Strong Future complex moving toward 500kt Zn eq Gamsberg 450kt, Swartberg 75kt (primarily Pb)
- Synergy benefit on combined Black Mountain Complex (BMC) -Shared overhead structure, Commercial and Shared Infrastructure
- Combined operating model outsourcing of Gamsberg vs owner operation on current operation. Opportunity to ensure optimal operation

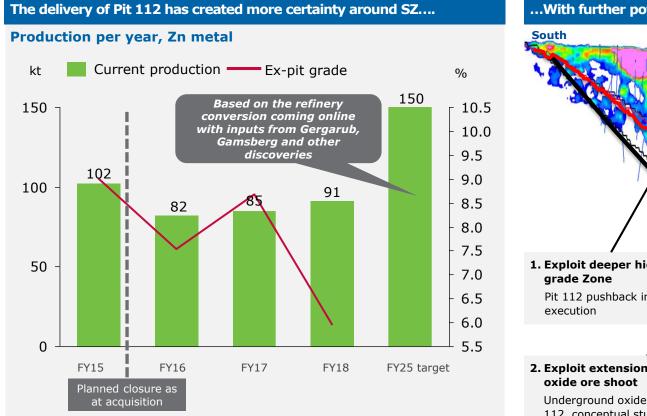
Skorpion Zinc's Increased LOM Certainty & U/G Potential



 Currently mined Skorpion orebody

grade and geometry

highly variable in



...With further potential at Pit 112 and the planned refinery conversion

North

- Boreholes Orebody bulges out at depth, hosting a significant Current Pit accumulation of Surface metal - feasibility of u/g being Pit 103 (FY18) investigated Pit 112 (FY21) • Average Zn grades as high as at beginning of LOM. 1. Exploit deeper high-Pit 112 pushback in 2. Exploit extension of high-grade Zn 3. Transition into Zinc sulphide In parallel with U/G oxides Underground oxide mining, post-pit Historic intersections of >20m >10% Zn 112. conceptual study completed. equiv.
- Skorpion has continued to deliver despite decreasing grades and expit ore due to:
 - Extension of life from 0.5 to 4 years via the Pit 112 pushback
 - Successfully outsourced mining to Basil Read Namibia and tripled total excavation
 - Targeted plant improvement projects to increase Zn into leach
- **Refinery conversion**

high grade

- Current refinery needs to be converted to process sulphide concentrates
- Techno commercial feasibility/Basic Engineering completed
- Estimated ~\$160mn Capex

Current drilling confirms continuation at

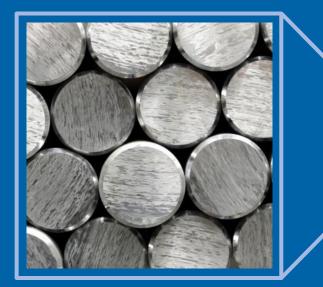
ZI Outlook



Tradianting		FY18	FY19	FY20		
Indicative Consolidated Outlook	Prod (kt)	150-160	240-260	410-430		
Consonualed Outlook	COP (\$/t)	<1,500	<1,200	<1,100		
Gamsberg250kt Production@ ~\$1000/t- \$1000/t						
Skorpion & Black Mountain >200kt Production	Skorpion c.90kt & BlaFocus on further reduced	cing COP through operation of the second s		ping up Pit 112		
Next phase of projects	• Gamsberg Phase 2: 4	next phase of projects mtpa RoM (200 kt) 7 mtpa RoM (65-70 kt)	s within pipeline			



Zinc India Sunil Duggal – CEO, Zinc India



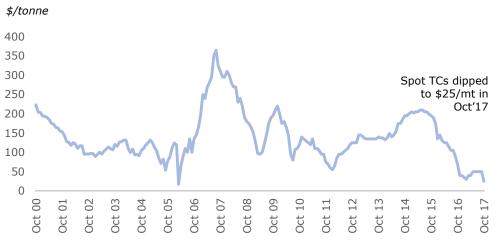
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Zinc Market Overview





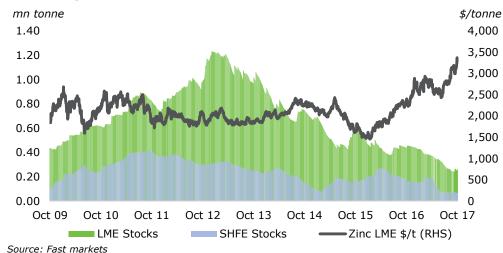


Source: Wood Mackenzie



Source: Wood Mackenzie

Declining stocks at LME & SHFE warehouses

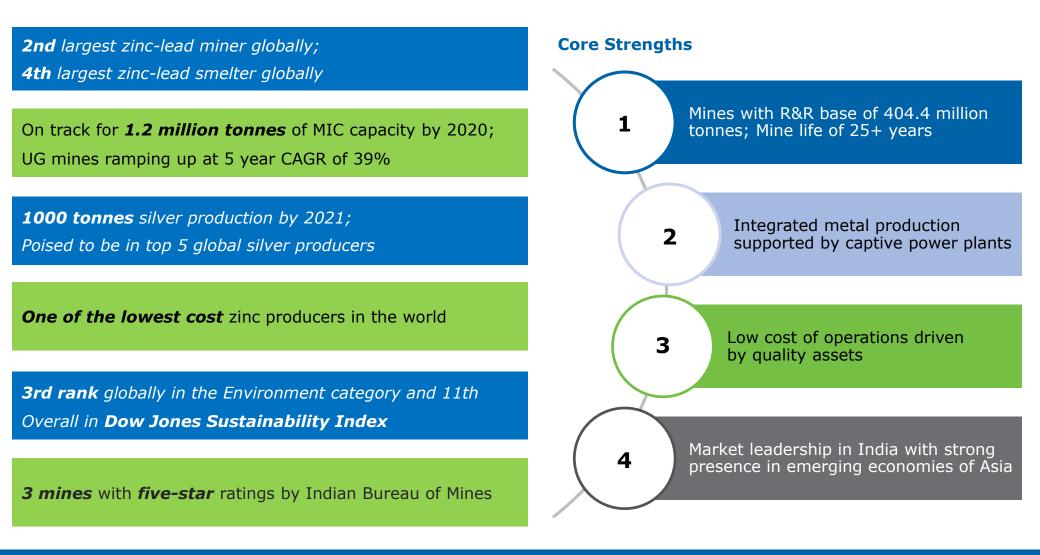


- **Mine to End Use**: Mine supply to metal consumption ratio continues to be under pressure
- Market balance: Imbalanced market; Inventories at risk, with levels at below one month
- **Demand**: Steady global demand growth of 2-3%
- **Mine Production**: Market sensitive to timing of new supplies, stable operations & reversal of production cuts
- **Smelter Production**: Falling TCs not incentivising early smelter start ups and halting new projects

Significant increase in mine & smelter supplies required in next 5 years for stable inventory levels

(< 1 month)

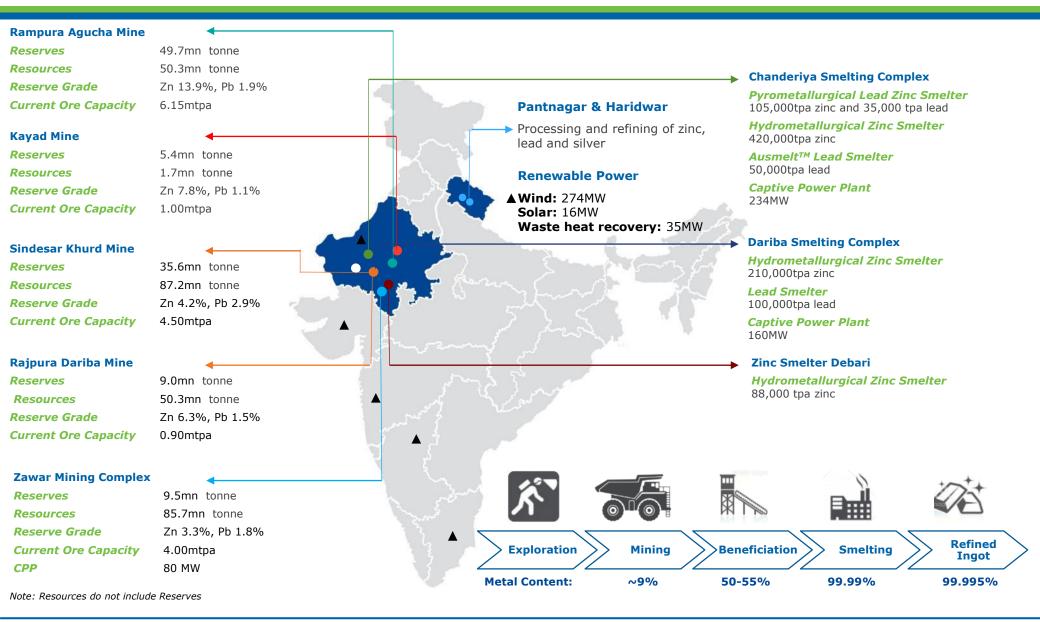




Vision: To be the world's largest and most admired zinc-lead & silver company

Portfolio of Tier-1 Assets





Strong Track Record of Growth



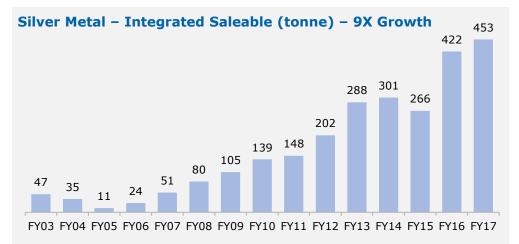
Reserves & Resources (mn tonne) - 2.5X Growth





Mined Metal ('000 tonne) - 3X Growth





Multi-fold growth since disinvestment by Government of India in 2002



Post commissioning of

Mine expansions in sync with increasing R&R

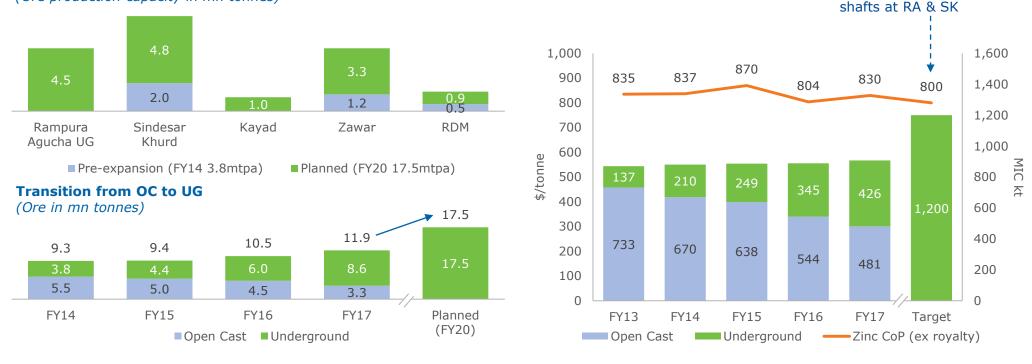
- Five major projects to increase MIC capacity to 1.2mtpa (17.5mtpa ore capacity), including RAM OC replacement
- Transition from Open Cast to UG mining
- Smelters' debottlenecking to remain fully integrated
- Six year capex of \$1.6bn ; ~\$1bn spent

UG Capacity Expansion – Journey to 1.2mtpa MIC

(Ore production capacity in mn tonnes)

Maintaining First Quartile of Global Cost Curve

- Continue to be in first quartile of global cost curve
- CoP held firm last few years despite transitioning to UG
- Temporary spurt in FY2018 expected due to substantial increase in input commodity prices
- CoP to reduce post commissioning of shafts at RA & SK



UG ramp up at 5 year CAGR of 39% while holding COP steady

Silver Portfolio – Realising Potential of 1,000t



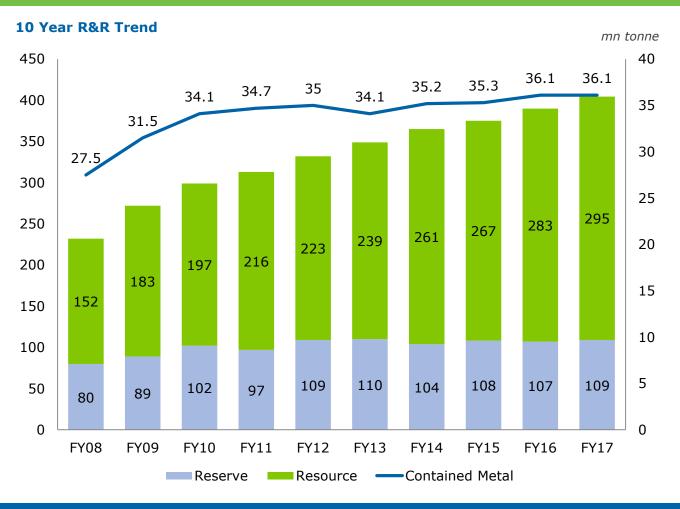
Silver Production	452	500+	1,000	
Ramp up	FY2017	FY2018	2021	

Ore to Metal Recovery (FY2017) Achieving 1,000 tonnes **Key Focus Areas** METAL ORE CONCENTRATE Mining Lead Lead/Bulk $(452 \rightarrow 850)$ Smelting **Concentrates** Focus on silver-rich deposits \rightarrow 470 tonne (63%) 452 tonne ongoing Achieving benchmarked recoveries **Zinc Smelters** Zinc Silver in Ore Zinc $(0 \rightarrow 100)$ Smelting (FY2017) Concentrates • Fuming technology \rightarrow 748 tonne (100%) 112 tonne (15%) 0 tonne June 18 (first fumer) Second/third fumer \rightarrow April 20 (plan) **Tailings Mine Tailings Recovery from Tailings** 165 tonne (22%) 0 tonne $(0 \rightarrow 50)$ Tailings retreatment \rightarrow June 18 (pilot)

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Sustained Commitment to Exploration \rightarrow Strong Track Record of R&R Addition



- R&R 404mn tonne in FY2017
- 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

Added more than depleted every year since Vedanta's takeover; 25+ years of mine life



1.5mtpa capacity under planning Shaft and decline integration Multi-level mining Digital transformation to boost productivity New prospects & tenements

1.2mtpa capacity by FY2020 25+ years of mining R&R with potential of 1.2mtpa Transition to underground mining progressing smoothly Shaft commissioning in Q3 FY2019 to give step jump Mill & smelter capacity to keep pace

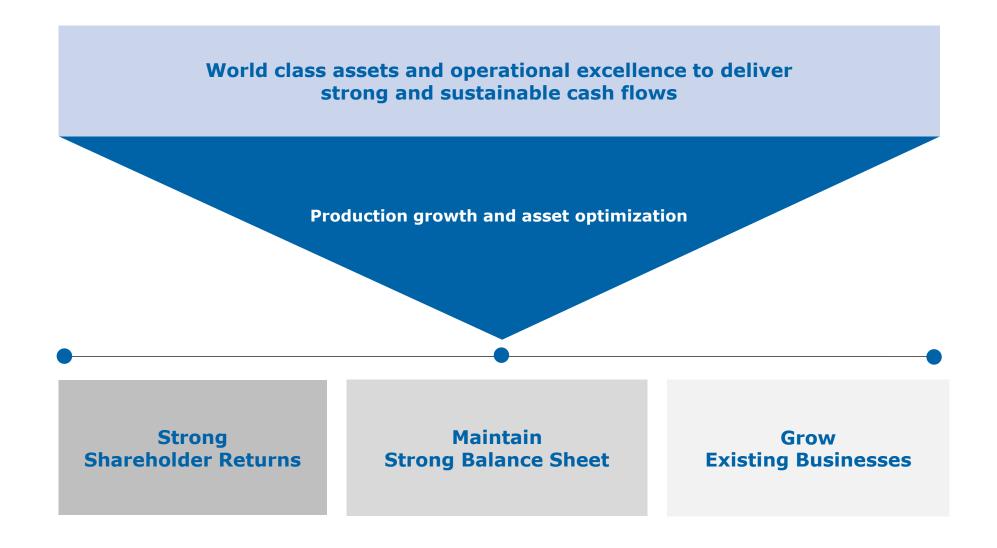
Outlook FY2018 Mined metal: Higher than 907kt of FY2017 Refined zinc-lead: 950kt; silver: 500+ tonne Project Capex of \$300-325mn Dollar COP (excluding royalty) likely to be \$900-\$950/t



Q & A Zinc 10 November 2017

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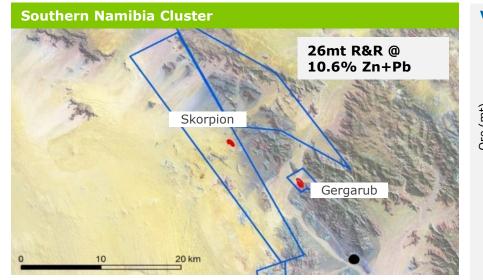
Appendix

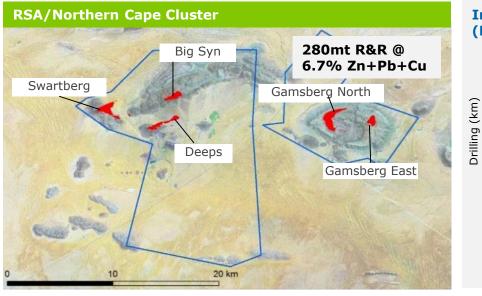


VEDANTA RESOURCES PLC - ZINC-LEAD-SILVER | OIL & GAS | ALUMINIUM | COPPER | IRON ORE | POWER

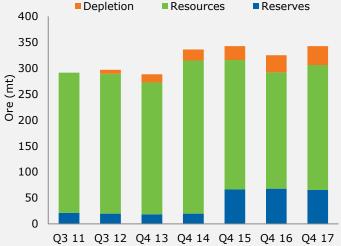
Southern African Zinc Cluster: Unrivalled Opportunity for Long-Term LOM & Organic Growth





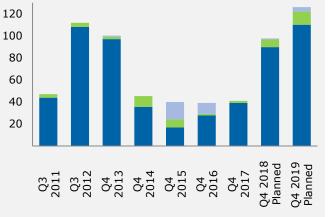


VZI R&R Movement Since Acquisition



Investment into Exploration (Drilling Metres)

■ Greenfields Total ■ Brownfields Total ■ On-mine Total



High value Resource Base to enable long LOM and expansions

 Total of 21.5mt of Metal in R&R

Best Zn Address in Africa

- Extensive tenement portfolio (>5,000km²)
- Opportunity to double R&R

Aggressive Exploration Programme

- R&R including depletion has increased by >15 % since acquisition to 23mt metal
- Exploration throughout downturn. Significant step-up in 2017
- Use of state of the art technology (geophysics)
 high discovery rate