



## Vedanta Resources Plc

Barclays  
Fixed Income Conference

November 2016

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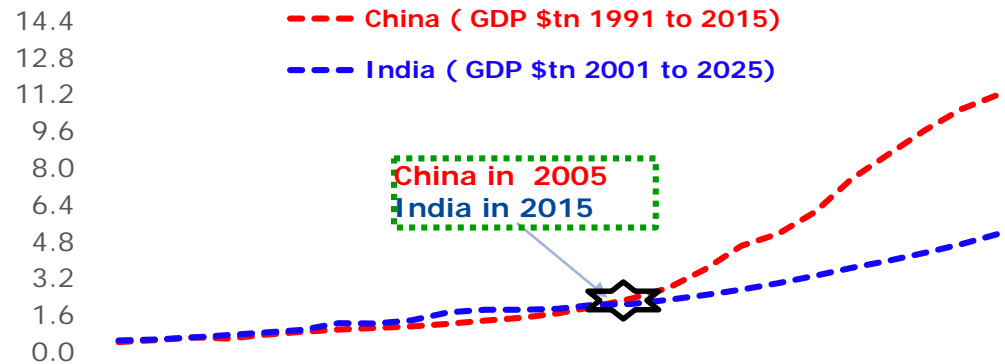
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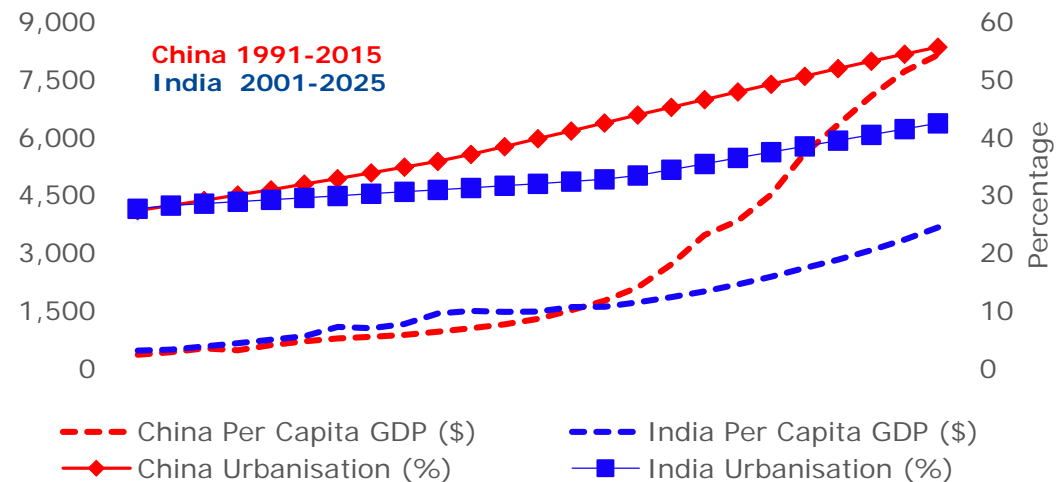
- Indian GDP today similar to China's in the mid-2000s
  - India's GDP reached US\$2tr in 2014 (vs China in 2005)
- FDI flows into India today now at levels seen in 'early take-off' China in mid-1990s (US\$30-40bn/yr)
- Indian urbanization and GDP per capita levels today similar to China in the 1990s, when Chinese economy 'took off'
  - Urbanization and growing GDP per capita are two key drivers of resources intensive consumption

India's GDP today is similar to China in the mid-2000s



Source: IMF

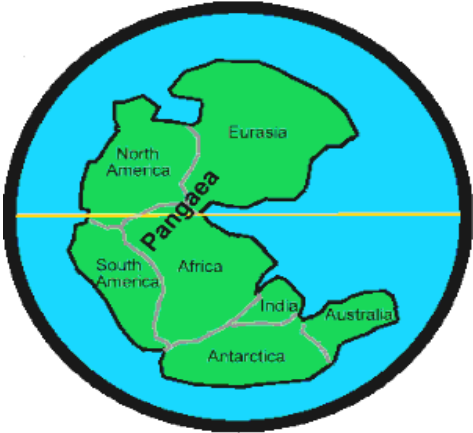
Indian urbanization and per capita GDP to increase



Source: IMF, World bank

**As in China in the 1990s, India's key requirement in early stage growth will be resources**

### India: Shared geology and mineral potential with Africa & Australia

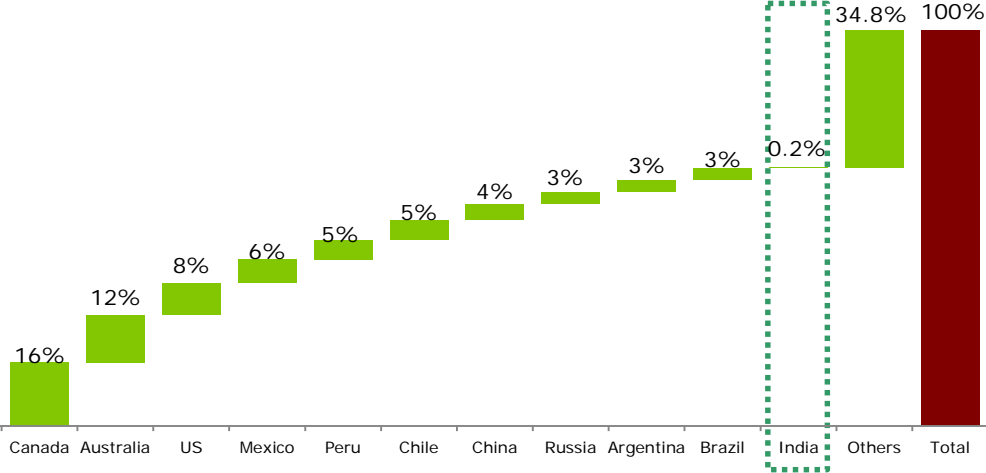


### India reserves ranking

Global Ranking<sup>1</sup> based on reserves

- 5<sup>th</sup> Coal**  
R&R: 295 bn tonnes
- 6<sup>th</sup> Zinc**  
R&R: 50 mn tonnes
- 7<sup>th</sup> Iron Ore**  
R&R: 29 bn tonnes
- 8<sup>th</sup> Bauxite**  
R&R: 3.5 bn tonnes

### India's share of global non-ferrous exploration spending very low



### Aeromagnetic Studies done since 1990

India vs. Australia

|                               | Australia           | India                 |
|-------------------------------|---------------------|-----------------------|
| Area (mn km <sup>2</sup> )    | 7.7                 | 3.3                   |
| Surveys (mn km <sup>2</sup> ) | 6.9                 | 0.6                   |
| Coverage (%)                  | 90                  | 18                    |
| Data-Availability             | Digital – Available | Hardcopy - Restricted |

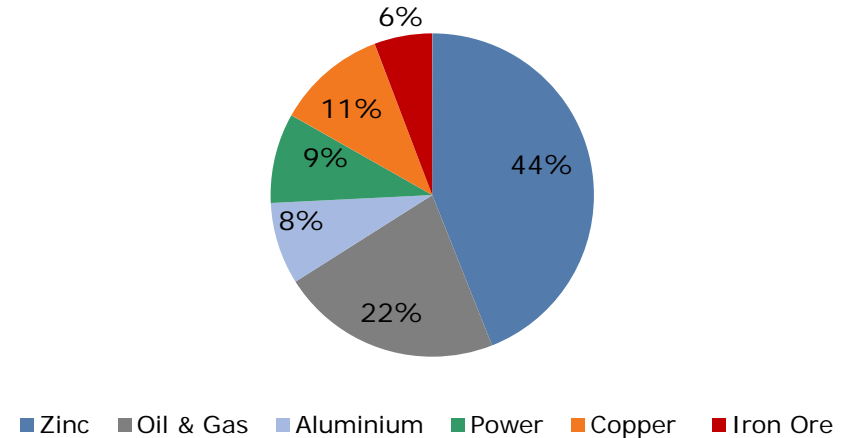
### Untapped opportunity in India- O&G reserves and resources

- ~ 130 billion barrels  
- Resources in 'yet-to-establish' category
- ~ 50% of the sedimentary basins to be appraised
- 7 of 26 basins in production
- US\$7bn annual investments required through 2040 to meet O&G supplies

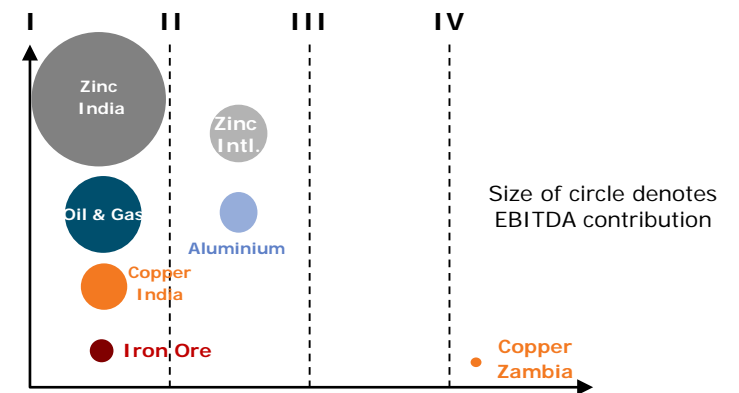
Source: SNL Metals Economics Group, Wood Mackenzie, GOI Ministry of Mines, BP Statistical Review June 2013, U.S. Geological Survey, Planning Commission, 12<sup>th</sup> Five Year Plan, <sup>1</sup>Ranking based on reserves <sup>2</sup>MoPNG presentation to Consultative Committee, December 2014, Putting India on the growth path: Unlocking the mining potential report by Mckinsey and Company, December 2014

- Portfolio of large, structurally low-cost, long-life Tier-I assets, that delivered strong free cash flow
  - Significant ramp-up at Aluminium, Power and Iron ore progressing well with minimal incremental capex
  - Delivered consistent EBITDA margin of 33%<sup>1</sup> for H1 FY2017
  - Delivered cumulative cost and marketing savings of c.US\$ 526mn over last six quarters; on course to deliver US\$1.3bn
  - Gross debt reduced by \$120mn in last twelve months to 30 Sep 2016
  
- Positively contributing to India and Africa
  - Contribution of \$3.2bn towards taxes and royalties in FY2016
  - Direct and Indirect employment of c.70,000
  - One of the largest employers in Zambia
  - Community investment of \$37mn benefiting 2.25mn people in India in FY2016

**EBITDA Mix for H1 FY2017**

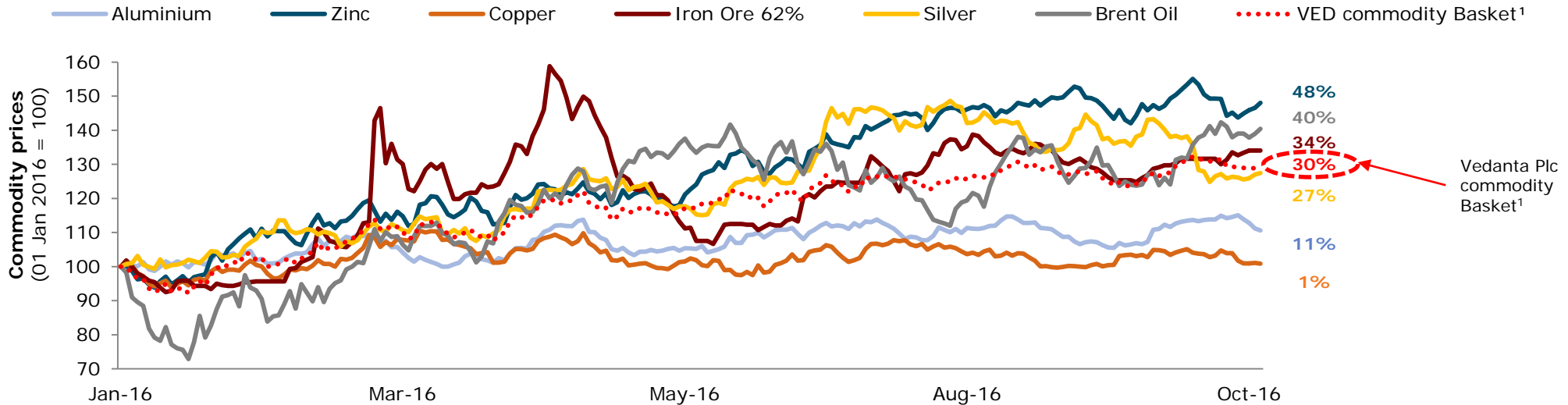


**>80% EBITDA from low cost assets providing resilience to market volatility**



<sup>1</sup> Excludes custom smelting

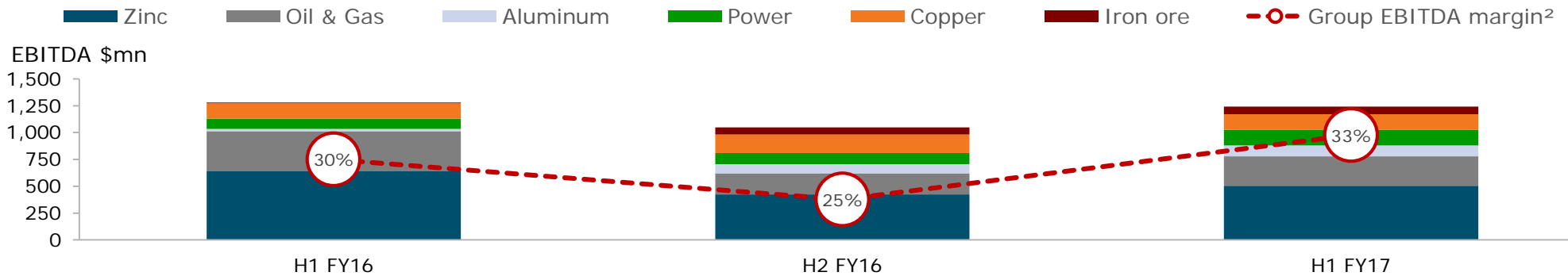
## Vedanta's diversified portfolio significantly reduces volatility



Source: Company filings, Bloomberg

1. Vedanta Plc commodity Basket is a weighted average of commodity prices, weights are based on actual FY2016 revenue mix. Copper India and Copper Zambia custom revenue based on realized Tc/Rc's. Excludes commercial power

## Strong margins through market volatility



2. Excludes custom smelting at Copper and Zinc India operations

## Delivering on all fronts

### **Ramping up production as guided**

- Focus on ramp-up at Aluminium, Power and Iron ore
- On track for higher production in H2 at Zinc India

### **Higher FCF driving deleveraging**

- Strong EBITDA margin at 33% in H1
- Continued focus on cost optimization and FCF generation
- Positive credit rating movements by Moody's and S&P

### **Commodity prices have stabilized from lows of early 2016**

- Fundamentals have improved, though global macro uncertainties remain

### **Focus on Group Simplification**

- Vedanta Ltd - Cairn India merger approved by all sets of shareholders; expected to be completed in Q1 CY2017

### **Low-capex organic growth being pursued**

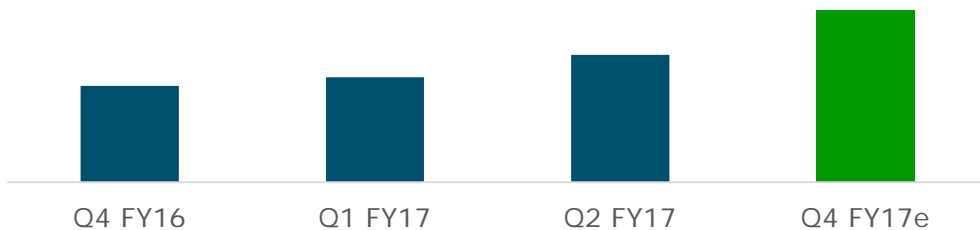
- Production ramp-up's, Gamsberg zinc project, and next set of O&G opportunities at the Rajasthan block

### **India is the fastest growing major economy in the world**

- Vedanta is well-positioned to benefit from this growth

**Focused on creating long-term value for shareholders**

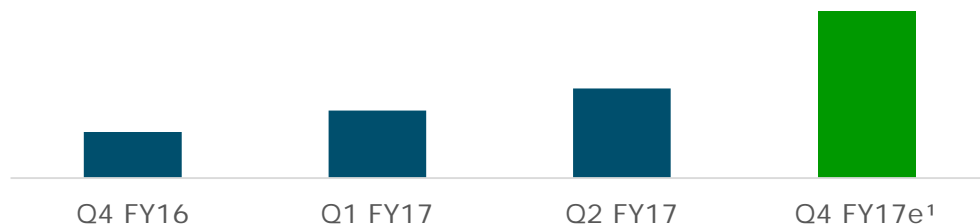
## Aluminium production (kt)



- Aluminium production H1 exit run rate of 1.2mtpa
  - Impacted by pot outages at Jharsuguda and BALCO, but no significant change in full year guidance



## TSPL Production (mn units)

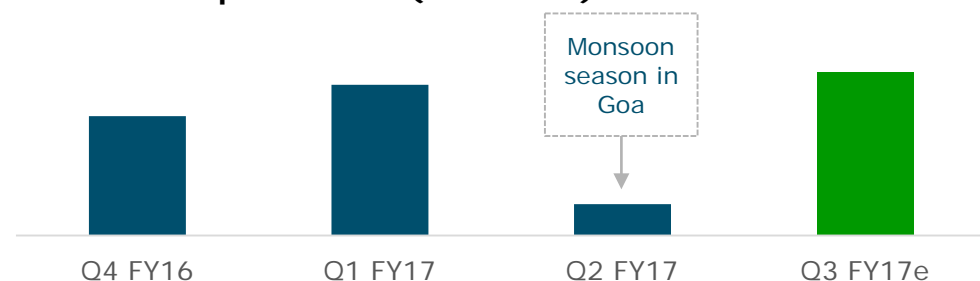


- TSPL 3rd unit capitalized, overall plant availability at 77% in Q2



1. At 80% availability

## Goa Iron ore production (mn tonne)



Monsoon season in Goa

- Goa iron ore production scaled to 40% of allocated capacity in Q1; mining and shipping restarted post monsoon in October
  - Expect to achieve full annual allocated capacity of 5.5mt at Goa in Q3



- On track to deliver significant EBITDA growth in FY2017



**Ramp-up's are generating positive free cash flow and enabling deleveraging**



# Strategic Priorities Remain Unchanged

## Strategic Priorities



**Production growth and asset optimisation**



**De-lever the balance sheet**



**Simplification of the group structure**



**Protect and preserve our license to operate**



**Identify next generation of resources**

## Focus Areas for FY 2017

- Disciplined ramp-up of new capacities in Aluminium, Power and Iron Ore
- Zinc: Ramp-up volumes at Rampura Agucha U/G and develop Gamsberg
- O&G: Enhance gas production; EOR at other fields

- Reduce gross debt
- Continued optimisation of opex and capex
- Continued discipline around working capital

- Vedanta Limited and Cairn India merger approved by all sets of shareholders

- Achieving Zero harm: reduce fatal, environment and social incidents
- To obtain local consent prior to accessing resources
- Resource Efficiency Improvement – Water, Energy, Waste and Carbon
- Community need based development projects

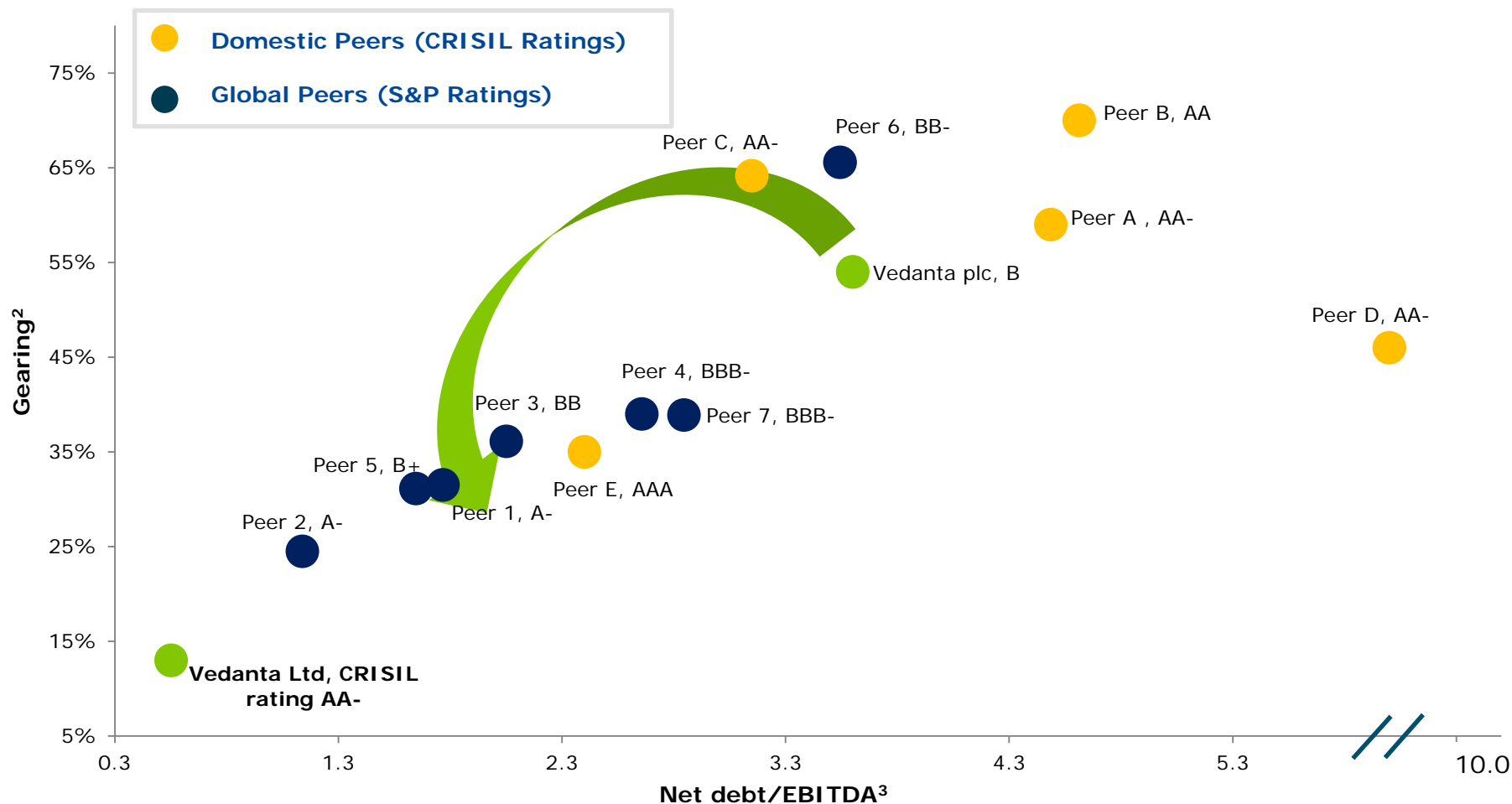
- Disciplined approach to exploration
- Continue to enhance our exploration capabilities: Dedicated exploration cell formed



## Financial Update

# Vedanta has a Strong Balance Sheet

Credit profile for Global and Domestic Peers<sup>1</sup>



Source: Bloomberg

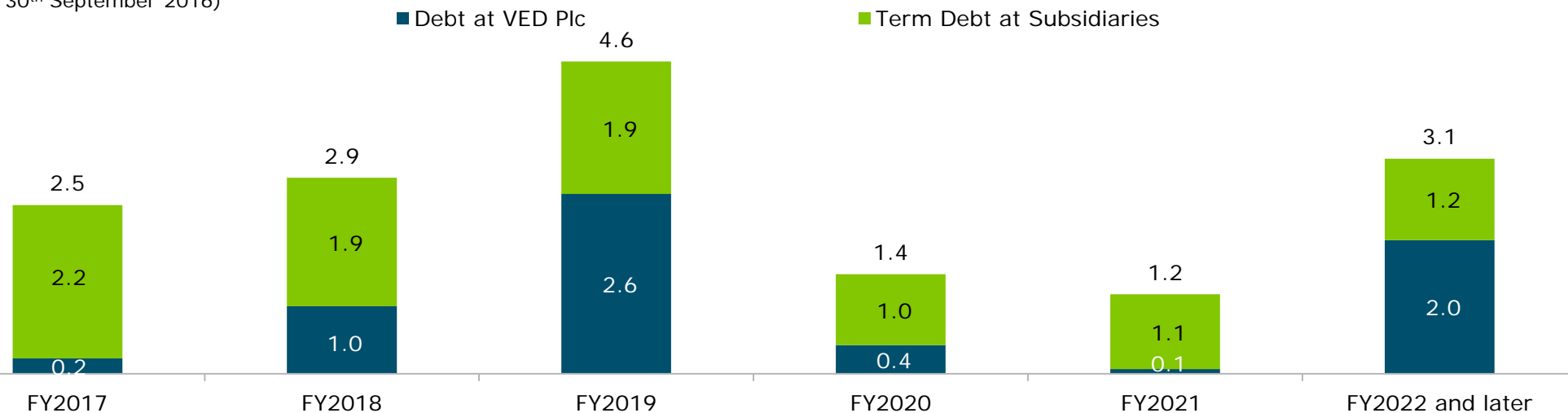
Note 1. International Peer companies include BHP, Rio, Anglo American, Glencore, Teck, Freeport, Vale . Long term corporate family Credit rating as assigned by S&P, Domestic Peer companies Hindalco, Tata Steel, JSW Steel, SAIL and RIL. Credit rating as assigned by CRISIL , ICRA or CARE rating

2. Gearing is calculated as Net debt divided by the sum of Net debt and Equity. These are based on reported numbers

3. Leverage is Net debt as latest reported net debt, while EBITDA is CY 2017 consensus estimate

## Term Debt Maturity Profile<sup>1</sup> (\$15.6 billion)

(as of 30<sup>th</sup> September 2016)



### Vedanta plc Maturities:

- \$0.4bn of intercompany loan to be repaid by Vedanta Limited in H2 FY2017
- \$1bn of FY2018 debt maturities comprises banks loans due in the second half; to be repaid or refinanced
- Continue to evaluate options to optimise balance sheet, extend maturity profile and reduce financing costs
- Positive credit rating movements:
  - Moody's upgraded issuer rating from B2 to B1
  - S&P changed outlook from Stable to Positive

### FY2017 Vedanta Ltd Maturities

#### (combination of short term debt and term debt):

- Access to diversified sources of funds: c.\$0.23bn debt refinanced at reduced cost and for longer tenor through INR NCD's in Sept and Oct.
- Focus on deleveraging the balance sheet during the year through internal accruals and working capital release
- Vedanta Ltd has strong credit rating of AA- with Stable outlook from CRISIL, a subsidiary of S&P

**Cash and liquid investments of \$8.2bn and undrawn committed lines of \$0.5bn as of 30 Sept 2016**

Numbers may not foot due to rounding

1. Debt numbers shown at face value and exclude one-year rolling working capital facilities of \$0.6bn and short term borrowing of \$0.3bn at HZL due in FY2017

## Disciplined Capital Allocation: Optimising capex, focus on FCF

- Ramp-ups at Aluminium, Power and Iron ore to generate significant cash flows
- Continued optimization of Opex and Capex

## Deleveraging; Strong Liquidity Focus

- Continued focus on reduction in debt
- Strong Liquidity Focus: Cash and Liquid Investments of c.\$8.2bn and undrawn committed facilities of \$0.5bn
- Recent upgrades from the credit rating agencies
- Debt being refinanced at longer maturities and lower interest cost

## Cost Savings

- Delivering on savings program
- Cost in 1<sup>st</sup>/2<sup>nd</sup> quartile of cost curve across all businesses

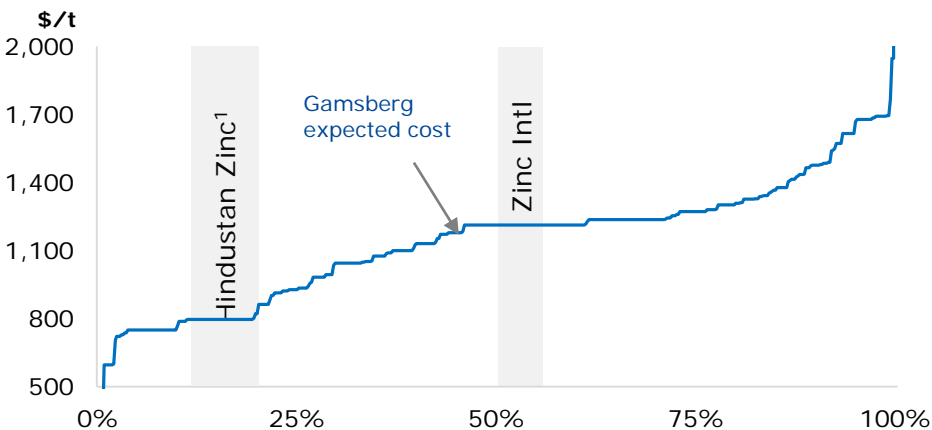
## Long Term Shareholder Value

- Group Simplification: Vedanta Ltd – Cairn India merger to complete in Q1 CY 2017
- Vedanta Limited expected to announce its dividend policy this fiscal year, following completion of merger with Cairn India



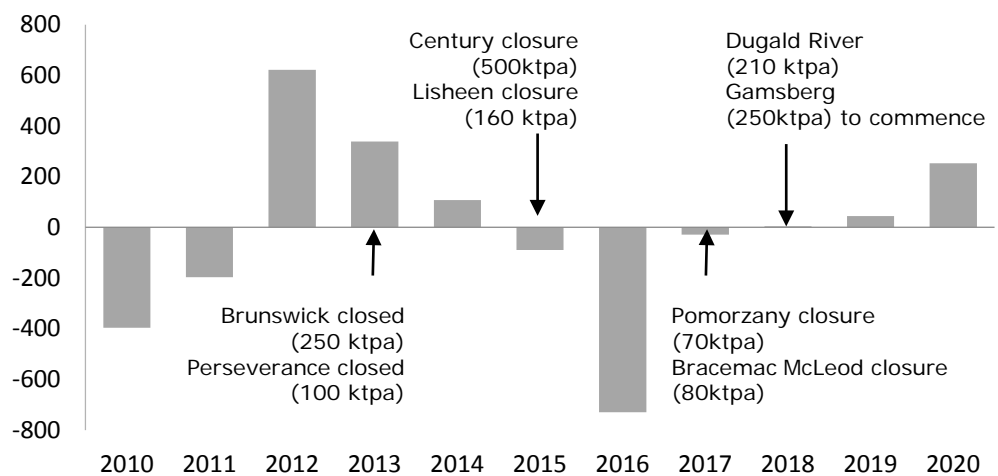
## **Business Update**

## CY2016 Global Zinc Cost curve



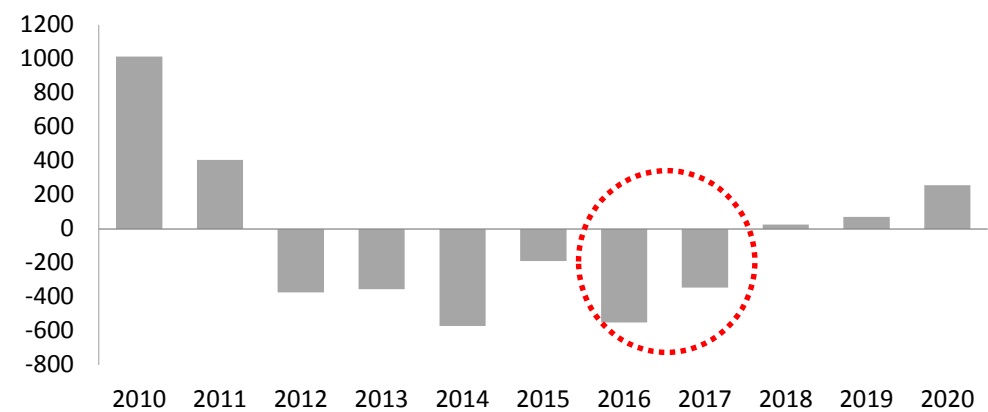
Source: Wood Mackenzie  
1. Hindustan Zinc cash cost is pre silver credit

## Global Zinc concentrate deficit supporting zinc prices (kt)



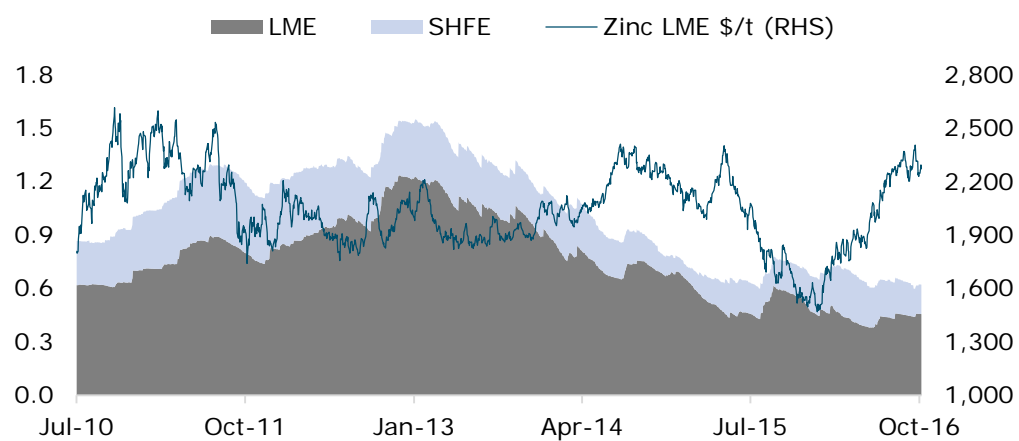
Source: Wood Mackenzie LTO Q4 2016

## Global Refined Zinc in deficit (kt)



Source: Wood Mackenzie LTO Q4 2016

## Refined Zinc inventory (mt) at 6 year low



Source: Bloomberg

# Zinc India: Well-positioned to reap benefits of strong fundamentals

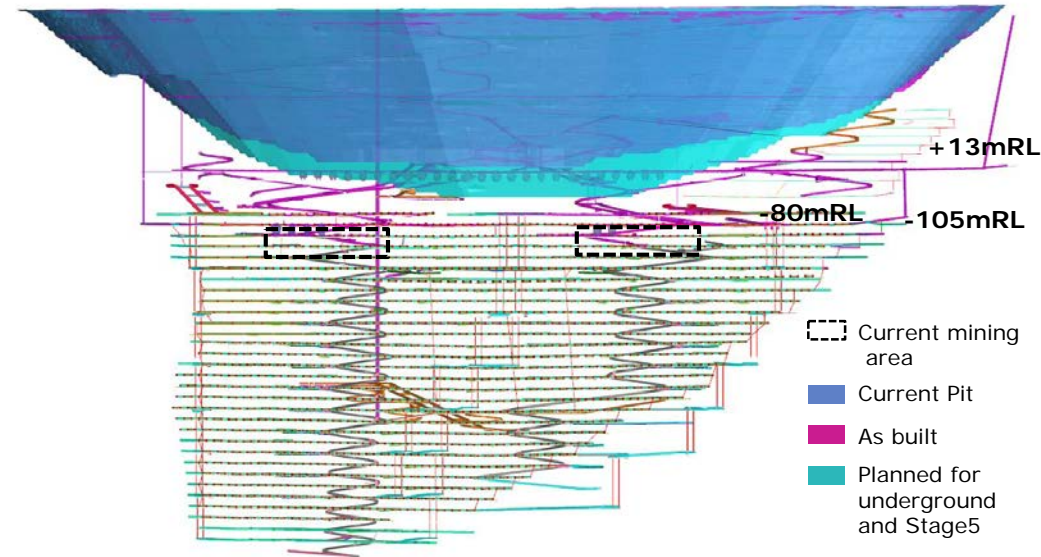
## Projects

- RAM open pit Stage V: Limiting incremental pit depth to 30 mtrs vs. earlier plan of 50 mtrs, to mitigate pit wall challenges and significantly reduce waste-ore ratio
  - Ore production is now being accelerated to complete by March 2018
- SK mine: On track to expand mine from 3.75mtpa to 4.5mtpa; head gear erection of main shaft commenced and development work is progressing well

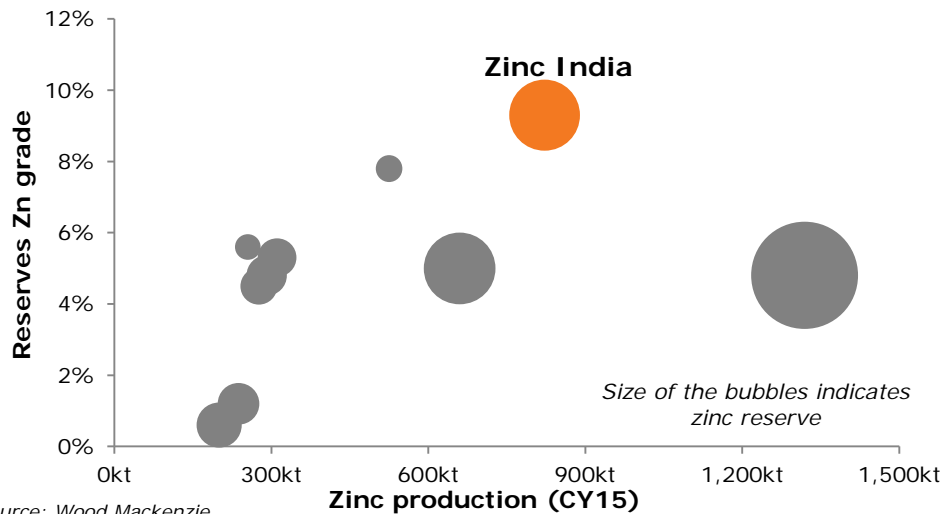
## Outlook

- FY2017 mined metal production to be higher than previous year
- H2 to be substantially higher than H1; within H1, Q2 to be materially higher
- Zinc CoP for FY2017 to remain stable compared to last year

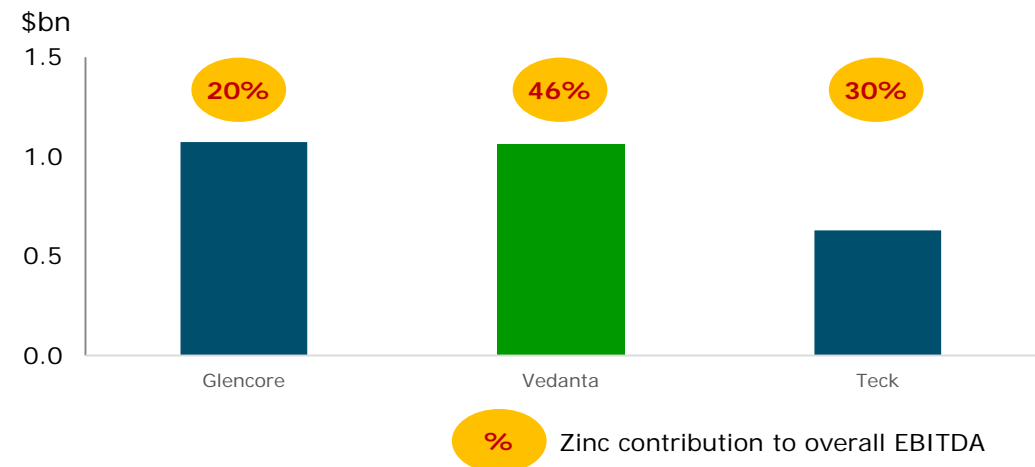
Rampura Agucha Mine – Longitude Vertical Section



2015A top 10 zinc producers globally



Zinc EBITDA and contribution to overall EBITDA of diversified



Source: Latest company annual reports

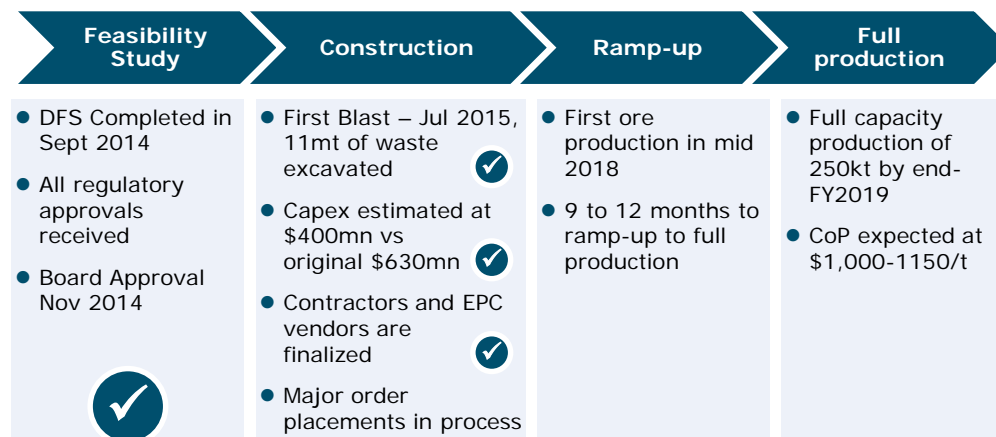


## Gamsberg Project update

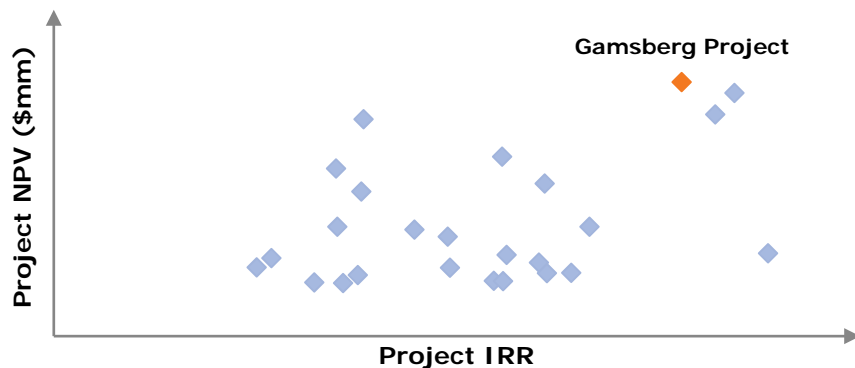
- Large, low-cost project with long mine life
  - Targeting zinc production of 250ktpa in Phase-1
  - Significant potential for further expansion at the Gamsberg North deposit
- Mining and milling capex reduced by \$200mn to c.\$400mn, mainly on engineering improvements and renegotiations
  - Significant boost to project returns
- Pre-stripping progressing in line with plan with 8mt of waste excavated
  - First ore production targeted by mid 2018 with 9-12 month ramp-up to full production
- Fundamentals of the zinc markets continue to be strong and supportive of the project

## Project timeline

### 250kt Gamsberg Project: First ore production by mid-CY2018

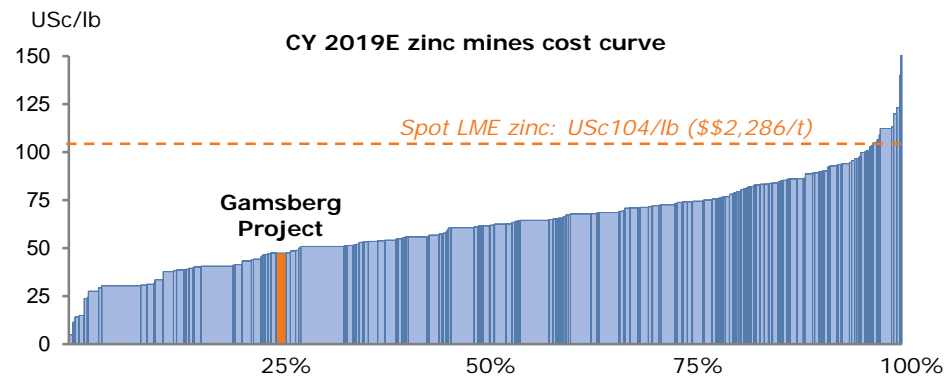


## Gamsberg is a large, high return project...



Source: Wood Mackenzie as of June 2016; zinc/lead projects with an NPV > \$400m (10% WACC)

## ...with strong cost position on the cost curve



Source: Wood Mackenzie as of August 2016; C1 composite cost curve

## H1 Results

- Mangala EOR, world's largest polymer program
  - H1 average EOR production at 47 kboepd (Q2 at 52 kboepd)
  - Rajasthan production stable at 168 kboepd in Q2
- RJ water-flood cost at \$4.2/boe in H1; \$3.9/boe in Q2, lowest in the last ten quarters

## RDG Gas: Phased ramp-up

- Phase-1: 8 new wells brought online, post completion of the 15-well hydro-frac campaign
  - Q2 production of 33 mmscfd
  - 40-45 mmscfd by H1 CY2017
- Phase-2: Tendering for new gas processing terminal and rig underway
  - Gas production of 100 mmscfd and condensate production of 5kboed by H1 CY2019

## Progress on key oil projects

- Improved economics of Bhagyam and Aishwariya EOR
  - Aishwariya EOR: Total cost reduced by c.21%; FDP for 15 mmbbls to be submitted
  - Bhagyam EOR: Total cost reduced by c.17%; revised FDP for 45 mmbbls to be submitted to JV partner in H1 CY 2017
- Aishwariya Barmer Hill: 15-20% reduction in capex of \$300mn for 30 mmbbls, production from Phase-1 expected by the end of current fiscal year

## Outlook

- Rajasthan FY2017 production expected broadly at FY2016 level
- Maintenance shutdown at MPT in Q3 FY2017
- FY2017 net capex of \$100mn (80% Development, 20% Exploration)
- FY2018 net capex estimated at \$100m with optionality of additional \$150mn for key projects



**Rajasthan: Barmer Hill Drilling Activity**



**Rajasthan: Mangala Processing Terminal**

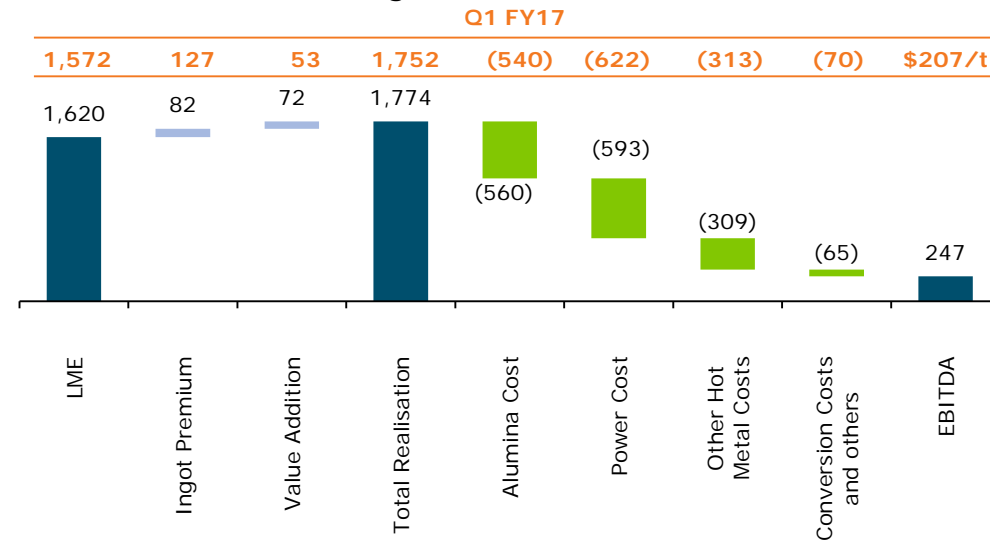
## Smelters continue to ramp-up, partially impacted by pot outages

- Record half yearly production at 541kt
- Ramp-ups impacted by pot outages
  - Jharsuguda-II: 168 pots impacted, 26 pots re-started and balance being rectified
  - BALCO-II: 167 pots impacted, expected to restart by Q4
- Jharsuguda 1,800MW sales lower due to weak power market
- Lanjigarh refinery: 2nd stream commenced in Q1; H1 alumina production of 567kt
- Aluminium CoP at \$1,473 (\$1,462 in Q2), lower y-o-y due to lower alumina and coal costs, offset by Clean Energy cess and electricity duty
- MJP Ingot premium remained low in H1 at \$86; lower production of value added products

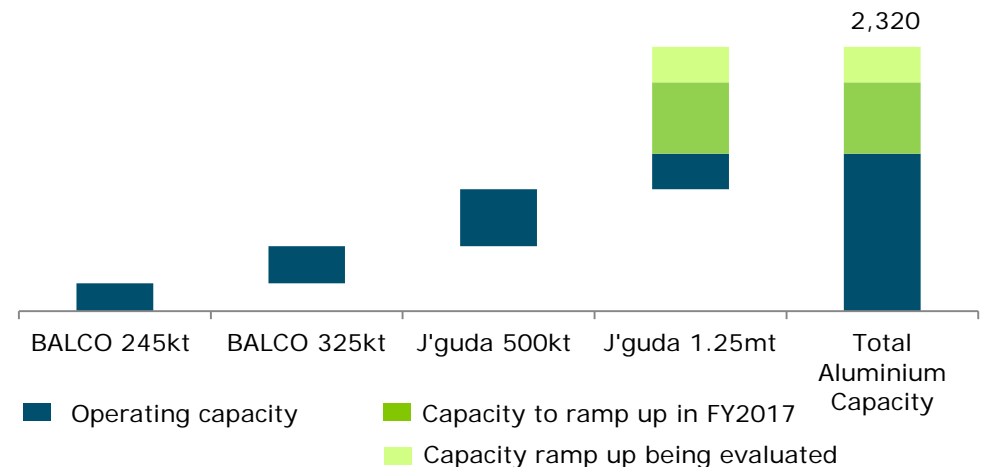
## Outlook

- FY2017 production of c. 1.1mn tonnes (excl. trial run)
  - Exit run rate of 1.1mtpa in end-Sept 2016
  - 1.25mt Jharsuguda smelter (4x313kt): 2nd line ramp-up in progress; 3rd line ramp-up to commence in November; 4th line under evaluation
  - Lanjigarh refinery to progressively ramp-up to produce 1.4mt; exit run rate of 1.2mtpa in end-Sept 2016
- CoP estimated at below \$1,400 for H2 FY2017
  - Lanjigarh: Alumina CoP estimated at \$250/t for H2 FY2017
  - Power cost: Higher domestic coal availability provides flexibility on sourcing coal
- Working with the State Government on allocation of bauxite and commencement of laterite mining

## Aluminium Costs and Margins (in \$/t, for Q2 FY2017)



## Roadmap to 2.3mtpa Aluminium Capacity



## Results

- Integrated production in H1 FY2017 was lower as Nchanga underground operations (NUG) under care & maintenance
- TLP production lower by 3% due to lower feed from current tails
- Custom production at 36 kt in H1 FY2017, higher by 22%
- Planned biennial smelter shutdown taken, smelter has restarted in November. Throughput expected to improve to above 80tph

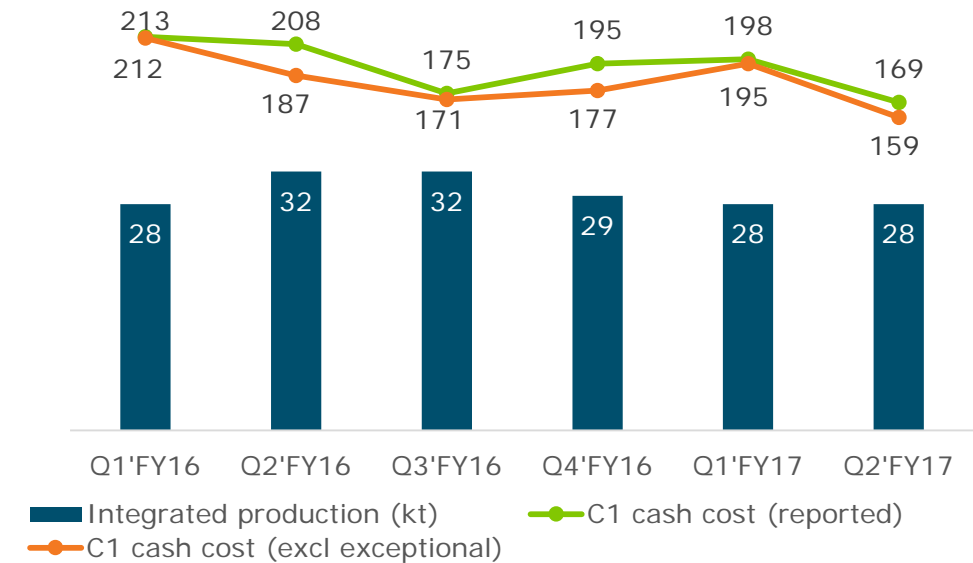
## Cost and operational initiatives driving turnaround

- C1 cost at USc 177/lb before exceptional items in H1 FY2017 vs. USc 199/lb in H1 FY2016
- Continuous effort on cost saving initiatives yielding results
  - Fuel, chemicals and repair & maintenance costs reduced by 26%
  - Power usage reduced by 4-5%, targeting 10%
- Productivity improvement through mobile fleet availability continues to be a focus area
- Working on additional dewatering initiatives to improve long term production from Konkola to reach next level of resources below 950mtrs

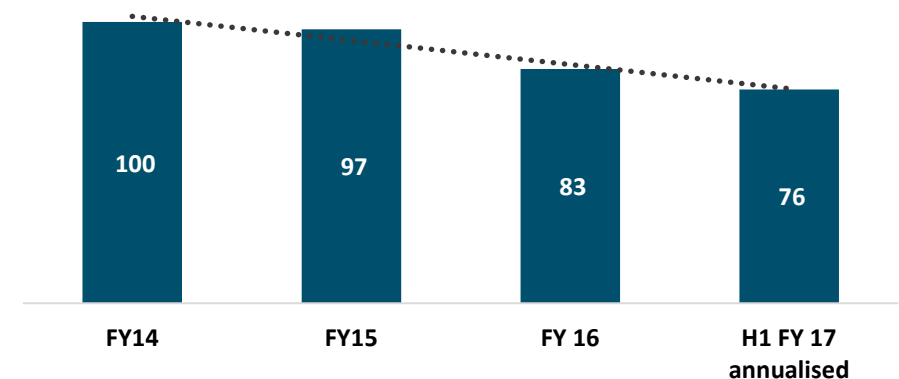
## Harnessing Technology and Innovation

- Elevated temperature leaching for recovery improvement – Currently under stabilisation stage. Positioned to improve post conclusion of smelter shutdown
- Heap Leaching Trials underway
- Refinery boiler project to reduce energy consumption by end Q3

## Integrated volumes and C1 cash costs<sup>1</sup>



## Operational spend base<sup>2</sup>



1. Exceptional items primarily include Kwacha impact on VAT receivables & provisioning for higher power cost  
 2. Indexed, FY2014=100

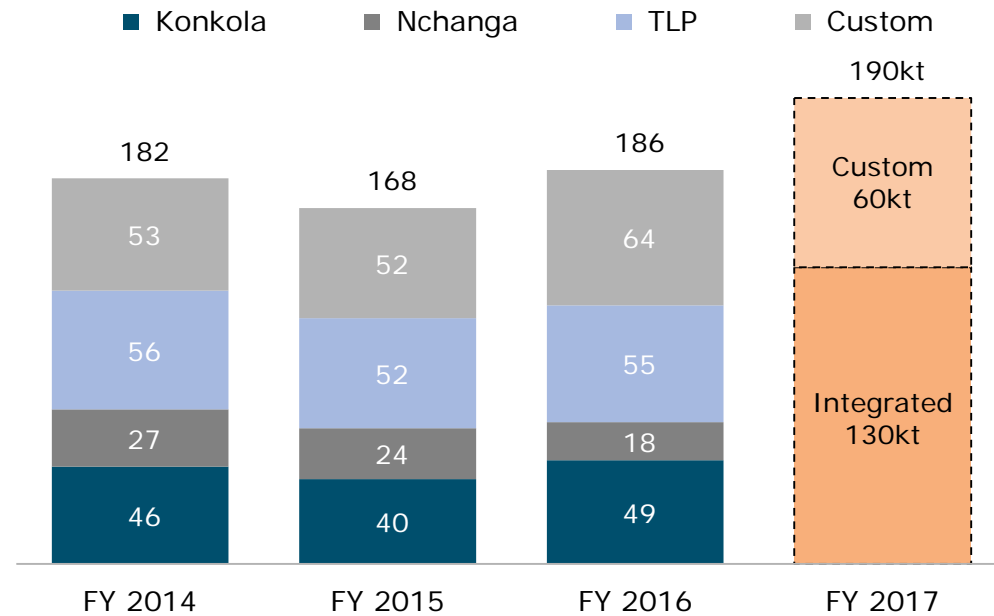
## Regulatory Update

- Mineral Royalty Tax linked to copper LME prices has been passed in the parliament and is now effective from 1 June 2016
- Power situation is challenging but improving
  - Government revised the tariff upwards by 29% for 70% of our power consumption in Jan 2016
  - Copperbelt Energy Corporation continues to import and provide remaining 30% power at 87% higher tariff
  - Water levels at Kariba dam currently at 22% vs. 15% last year
  - Engagement with CEC and government continues
  - Working on initiatives to reduce power consumption
- VAT refunds: KCM has complied with the ZRA requirements; engaging with government on past receivables

## Outlook

- Vision of 50 years of mining at world-class asset
  - Turnaround well underway, work still to be done
- FY2017 expected volume and cost
  - Integrated production: 130kt
  - Custom Production: 60kt
  - Integrated C1 cost: 150-170c/lb
- Focus areas
  - Konkola turnaround
  - Maximise custom smelting production
  - Stock piled refractory ores
  - Exploring means for mining Nchanga underground profitably

## Volumes (kt)



## Results

- TSPL
  - Unit-III achieved COD in August and capitalized on 1st September
  - Plant availability of 77% in Q2 and 75% in H1
- BALCO 600MW IPP: 59% PLF in H1, impacted by weak power market

## Outlook

- TSPL: Targeting availability of 80% in H2
- Jharsuguda 2400MW:
  - 1,800 MW moved to Aluminium segment from 1 April: surplus power will continue to be sold externally until fully utilized by Jharsuguda-II smelter
  - 600 MW unit continues to be in Power segment, PLF of 50% in Q2 (74% in Q1), lower due to evacuation constraints
- MALCO PLF remained low for the quarter due to lower demand

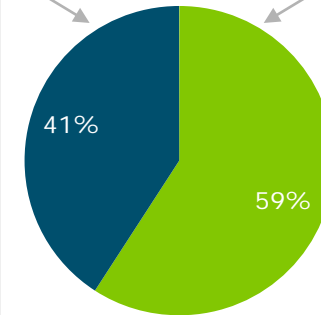
## Coal outlook

- FY2017 coal requirement of 36mt for 9,000 MW power portfolio
- Higher production by Coal India has reduced reliance on imports
- Auctions of coal linkages in Q2
  - Secured coal linkages of 6mtpa for captive power plants through auctions
- Coal India offering forward auctions and special auctions for CPP's and IPP's and spot auctions for all consumers

## Power Generation Capacity – c. 9GW

### IPP: 3.6GW

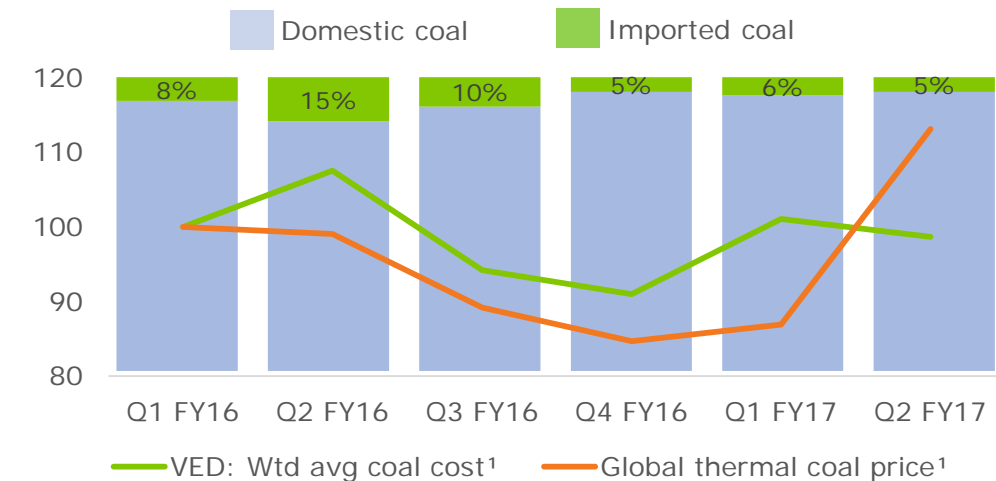
- 600MW Jharsuguda (of 2400MW plant)
- 1,980MW TSPL
- 2\*300MW BALCO (of 1200MW plant)
- 274MW HZL Wind Power
- 100MW MALCO



### CPP: 5.1GW

- 1,215MW Jharsuguda
- 3\*600MW Jharsuguda (of 2400MW plant)
- 540MW BALCO
- 270MW BALCO
- 2\*300MW BALCO (of 1200 MW plant)
- 90MW Lanjigarh
- 474MW HZL
- 160MW Tuticorin

## Increased availability of domestic coal has enabled lower coal costs



Note: Above data is for CPP's and IPP's at Jharsuguda and BALCO  
1. Indexed to 100

## Iron Ore

- Sales of 3.4mt in H1; mining and shipping at Goa resumed post monsoon at end of Q2
- Goa operations achieved over 40% of annual allocated mining capacity in Q1
- Karnataka sales of 1mt in H1
- Engaging with the respective state Government for higher volumes
- Maintained low cost of operations
- Pig iron: Strong production of 372kt, 16% higher y-o-y
  - Margins lower due to market prices

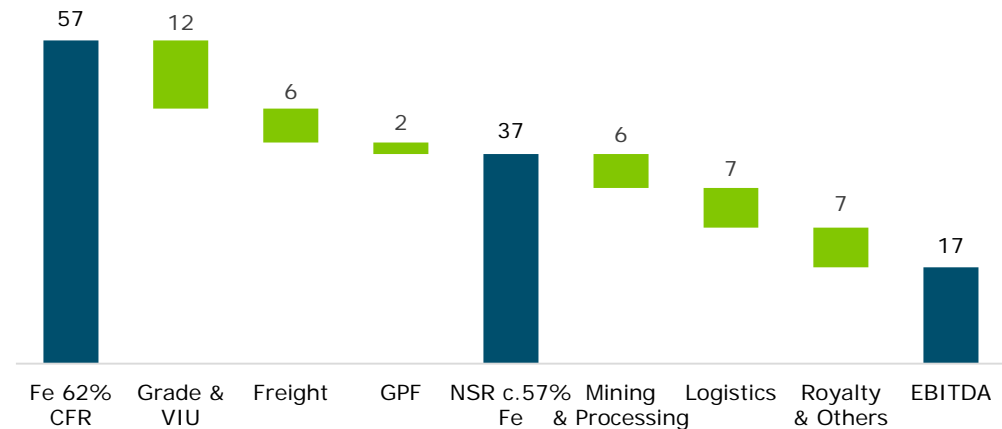
## Outlook

- Goa and Karnataka production expected at 5.5mt and 2.3mt respectively in FY2017, further mining allocation being pursued

## Copper India

- Higher production in H1: Production impacted by outage for 10 days in Q2 due to boiler leakage at smelter
- Acid prices lower
- FY2017 expected production at 400kt
- Tuticorin Power Plant:
  - PLF remained low due to weak offtake
  - Compensated at the rate of 20% of the realization for off-take below 85% of contracted quantity

## Goa iron ore costs and margin (H1 FY2017, \$/t)



Tuticorin smelter



## Appendix



| Key Event                               | Expected date |
|---|---------------|
| BSE, NSE and SEBI approvals sought      | Completed     |
| BSE, NSE and SEBI approvals             | Completed     |
| Application to High Court in India      | Completed     |
| Vedanta plc posting of UK Circular      | Completed     |
| Vedanta plc EGM                         | Completed     |
| Vedanta Limited shareholder meeting     | Completed     |
| Cairn India Limited shareholder meeting | Completed     |
| Reserve Bank of India approval          | Q4 CY 2016    |
| High Court approval                     | Q1 CY 2017    |
| MoPNG approval                          | Q1 CY 2017    |
| Transaction completion                  | Q1 CY 2017    |

## Segment-wise summary



| Oil & Gas                               | H1 FY2016  | H1 FY2017  |
|---|------------|------------|
| <i>Average Daily Gross Operated</i>     |            |            |
| Production (boepd)                      | 207,538    | 196,629    |
| Rajasthan                               | 170,164    | 167,323    |
| Ravva                                   | 27,303     | 19,228     |
| Cambay                                  | 10,071     | 10,078     |
| <i>Average Daily Working Interest</i>   |            |            |
| Production (boepd)                      | 129,286    | 125,484    |
| Rajasthan                               | 119,115    | 117,126    |
| Ravva                                   | 6,143      | 4,326      |
| Cambay                                  | 4,028      | 4,031      |
| Average Brent (\$/bbl)                  | 56         | 46         |
| Average realizations Oil & gas (\$/boe) | 50         | 40         |
| <b>EBITDA (\$mn)</b>                    | <b>374</b> | <b>274</b> |

| Zinc-India                                  | H1 FY2016  | H1 FY2017  |
|---|------------|------------|
| <b>Mined Metal (kt)</b>                     | <b>472</b> | <b>318</b> |
| Refined Zinc – Integrated (kt)              | 398        | 250        |
| Refined Lead – Integrated (kt) <sup>1</sup> | 67         | 55         |
| Saleable Silver – Integrated (moz)          | 5.92       | 6.29       |
| Average Zinc LME (\$/t)                     | 2,013      | 2,089      |
| Zinc CoP <sup>2</sup> (\$/t)                | 788        | 852        |
| <b>EBITDA (\$mn)</b>                        | <b>582</b> | <b>456</b> |

1. Excludes captive consumption of 1,921 tonnes in H1 FY2017 vs 3,697 tonnes in H1 FY2016

2. Excluding royalty. Revenues from silver not credited to CoP. With IFRIC adjustment. Without IFRIC adjustment, the COP was \$787 /t in H12016 and \$1013/t in H12017

| Zinc-International           | H1 FY2016 | H1 FY2017 |
|------------------------------|-----------|-----------|
| Mined Metal – Lisheen (kt)   | 60        | 0         |
| Mined Metal –BMM (kt)        | 31        | 35        |
| Refined Zinc – Skorpion (kt) | 42        | 47        |
| Total Zinc-Lead Metal (kt)   | 133       | 82        |
| CoP (\$/t)                   | 1,439     | 1,331     |
| <b>EBITDA (\$mn)</b>         | <b>57</b> | <b>88</b> |

## Segment-wise summary (contd.)



| Copper-Zambia                                     | H1 FY2016                | H1 FY2017   |
|---|--------------------------|-------------|
| Mined Metal (kt)                                  | 62                       | 58          |
| Finished Metal – Total (kt)                       | 90                       | 92          |
| Integrated (kt)                                   | 60                       | 55          |
| Custom Smelting (kt)                              | 30                       | 36          |
| Copper LME (\$/t)                                 | 5,639                    | 4,751       |
| C1 Cash Cost – Integrated <sup>1</sup> (USc/lb)   | 210                      | 184         |
| Total Cash Cost– Integrated <sup>2</sup> (USc/lb) | 274                      | 240         |
| <b>EBITDA (\$mn)</b>                              | <b>(24)</b>              | <b>17</b>   |
| <b>PAT (\$mn)</b>                                 | <b>(312)<sup>3</sup></b> | <b>(59)</b> |

1. C1 cash cost, excludes royalty, logistics, depreciation, interest, sustaining capex

2. Total Cash Cost includes C1 cash cost, royalty, interest and sustaining capex

3. Includes special items of \$(174)mn in H1FY2016

| Copper-India/Australia         | H1 FY2016  | H1 FY2017  |
|--------------------------------|------------|------------|
| Mined Metal – Australia (kt)   |            |            |
| Copper Cathodes– India (kt)    | 193        | 198        |
| Tuticorin Power Plant (mu)     | 293        | 90         |
| Average Copper LME (\$/t)      | 5,639      | 4,751      |
| Copper Tc/Rc                   | 24.1       | 21.7       |
| Conversion cost – India (c/lb) | 2.4        | 5.6        |
| <b>EBITDA (\$mn)</b>           | <b>170</b> | <b>126</b> |

| Aluminium                            | H1 FY2016 | H1 FY2017  |
|--------------------------------------|-----------|------------|
| Aluminium Production (kt)            | 464       | 541        |
| Jharsuguda I - 500kt                 | 262       | 261        |
| Jharsuguda II - 1,250kt <sup>1</sup> | 38        | 77         |
| Korba-I 245kt                        | 127       | 126        |
| Korba-II 325kt <sup>2</sup>          | 37        | 77         |
| Aluminium LME (\$/t)                 | 1,675     | 1,596      |
| Aluminium COP (\$/t)                 | 1,639     | 1,473      |
| BALCO                                | 1,722     | 1,541      |
| Jharsuguda-I                         | 1,598     | 1,435      |
| Alumina Production (kt)              | 541       | 567        |
| Alumina COP (\$/t)                   | 331       | 276        |
| <b>EBITDA (\$mn)</b>                 | <b>22</b> | <b>102</b> |

1. Includes trial run production of 29kt in H1 FY2017 vs 38kt in H1 FY2016

2. Includes trial run production of 28kt in H1 FY2017

## Segment-wise summary (contd.)



### Power

|  | H1<br>FY2016 | H1<br>FY2017 |
|--|--------------|--------------|
| Power Sales (million units)                                | <b>5,789</b> | <b>6,039</b> |
| Jharsuguda 2,400MW   | 3,820        | 1,497        |
| BALCO 270MW  | 128          | -            |
| BALCO 600MW  | 158          | 1,156        |
| MALCO  | 320          | 115          |
| Talwandi Sabo  | 1,077        | 2,951        |
| HZL Wind Power   | 286          | 320          |
| Power - Realisation (Rs./unit) <sup>1</sup>                | 3.1          | 2.9          |
| Power - Cost of generation (Rs./unit) <sup>1</sup>         | 2.2          | 2.0          |
| Talwandi Sabo – Realisation (Rs./unit) <sup>2</sup>        | 3.1          | 3.5          |
| Talwandi Sabo – Cost of generation (Rs./unit) <sup>2</sup> | 2.3          | 2.5          |
| <b>EBITDA (\$mn)</b>                                       | <b>93</b>    | <b>108</b>   |

### Iron Ore and Pig Iron

|                                       | H1<br>FY2016 | H1<br>FY2017 |
|---------------------------------------|--------------|--------------|
| Sales (mt)                            | 1.2          | 3.4          |
| Goa                                   | -            | 2.4          |
| Karnataka                             | 1.2          | 1.0          |
| Production                            | 1.0          | 4.7          |
| Goa                                   | 0.0          | 2.9          |
| Karnataka                             | 1.0          | 1.7          |
| Average Net Sales Realizations (\$/t) | 18.2         | 29.3         |
| Pig iron - Production (kt)            | 320          | 372          |
| <b>EBITDA (\$mn)</b>                  | <b>7</b>     | <b>72</b>    |

1. Excludes Talwandi Sabo

2. Based on availability, generation would have been 4,364mu for H1 FY2017 and 1,911mu for H1 FY2016

## Net Debt Summary (\$mn)

| Company  | 30 Sept 2015  |              |                          | 31 Mar 2016   |              |                          | 30 Sep 2016   |              |              |
|--|---------------|--------------|--------------------------|---------------|--------------|--------------------------|---------------|--------------|--------------|
|  | Debt          | Cash & LI    | Net Debt                 | Debt          | Cash & LI    | Net Debt                 | Debt          | Cash & LI    | Net Debt     |
| <b>Vedanta plc<sup>1</sup></b>                               | <b>8,053</b>  | <b>17</b>    | <b>8,036</b>             | <b>7,364</b>  | <b>30</b>    | <b>7,334</b>             | <b>6,145</b>  | <b>19</b>    | <b>6,126</b> |
| <b>KCM</b>   | <b>728</b>    | <b>38</b>    | <b>690</b>               | <b>659</b>    | <b>33</b>    | <b>626</b>               | <b>642</b>    | <b>1</b>     | <b>641</b>   |
| Vedanta Ltd. Standalone                                      | 4,422         | 334          | 4,088                    | 4,982         | 203          | 4,779                    | 6,147         | 315          | 5,832        |
| Zinc International   | -             | 158          | (158)                    | -             | 97           | (97)                     | -             | 136          | (136)        |
| Zinc India   | -             | 5,306        | (5,306)                  | -             | 5,318        | (5,318)                  | 289           | 4,078        | (3,789)      |
| Cairn India  | -             | 2,976        | (2,976)                  | -             | 3,240        | (3,240)                  | -             | 3,576        | (3,576)      |
| BALCO  | 769           | 12           | 757                      | 770           | 2            | 768                      | 828           | 3            | 825          |
| Talwandi Sabo  | 1,032         | 30           | 1,002                    | 1,094         | 6            | 1,088                    | 1,147         | 8            | 1,139        |
| Twin Star Mauritius Holdings Limited and Others <sup>2</sup> | 1,447         | 46           | 1,401                    | 1,394         | 7            | 1,387                    | 1,135         | 31           | 1,104        |
| <b>Vedanta Ltd. Consolidated</b>                             | <b>7,670</b>  | <b>8,862</b> | <b>(1,192)</b>           | <b>8,240</b>  | <b>8,873</b> | <b>(633)</b>             | <b>9,546</b>  | <b>8,147</b> | <b>1,399</b> |
| <b>Total (in \$mn)</b>                                       | <b>16,451</b> | <b>8,917</b> | <b>7,536<sup>3</sup></b> | <b>16,263</b> | <b>8,937</b> | <b>7,329<sup>3</sup></b> | <b>16,333</b> | <b>8,167</b> | <b>8,166</b> |

Debt numbers at Book Values. Since the table above shows only external debt, it excludes the inter-company loans

As on 30 Sept 2016 there was \$0.4bn receivable at Vedanta plc from TSMHL. This was \$2.6bn as of 30 Sep 2015 and \$1.9bn as of 31 March 2016

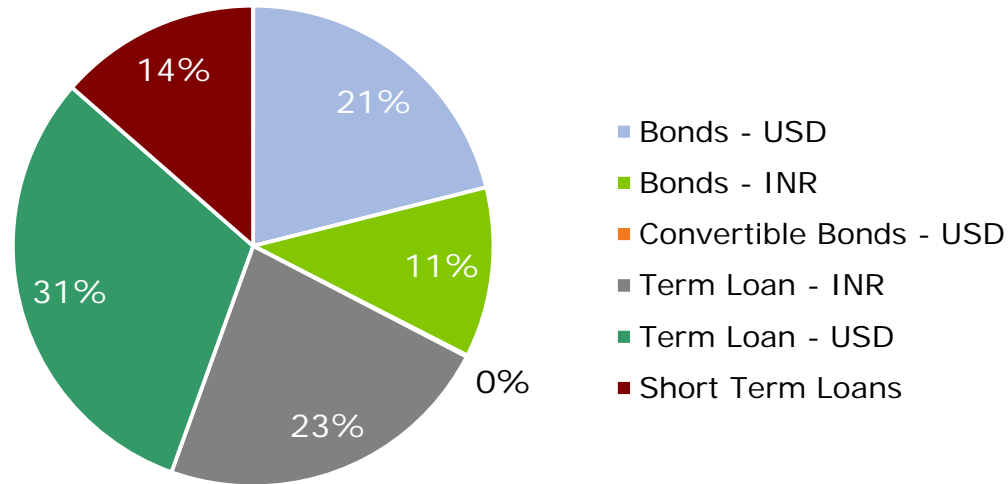
1. Includes Investment Companies

2. Others include: CMT, Fujairah Gold, MEL, VGCB, Sesa Resources Ltd, other Iron Ore companies, and Vedanta Ltd. Investment companies

3. Includes \$2mn debt related derivative liability

## Diversified Funding Sources for Term Debt (\$15.6bn)

(as of 30 Sep 2016)



- 46% of the debt is fixed interest rate, 54% floating rate
- 52% of the debt is \$ denominated, 48% is INR-denominated

## Debt Service Liability

(in \$mn)

| <b>Vedanta Resources plc</b>                    | <b>31 Mar 2016</b> | <b>30 Sep 2016</b> | <b>H1 FY2017<br/>Interest Cost</b> |
|---|--------------------|--------------------|------------------------------------|
| Gross External Debt                             | 7,507              | 6,262              | 221                                |
| Intercompany Receivable at Plc from Vedanta Ltd | (1,867)            | (389)              | (28)                               |
| <b>Debt Service Liability</b>                   | <b>5,640</b>       | <b>5,873</b>       | <b>193</b>                         |

| <b>Vedanta Ltd.</b>                 | <b>31 Mar 2016</b> | <b>30 Sep 2016</b> | <b>H1 FY2017<br/>Interest Cost</b> |
|-------------------------------------|--------------------|--------------------|------------------------------------|
| Gross External Debt                 | 8,279              | 9,586              | 390                                |
| Intercompany Payable to Vedanta plc | 1,867              | 389                | 28                                 |
| Intercompany Payable to Cairn India | 1,250              | 1,250              | 30                                 |
| <b>Debt Service Liability</b>       | <b>11,396</b>      | <b>11,225</b>      | <b>448</b>                         |

| <b>Cairn India Ltd.</b>                                 | <b>31 Mar 2016</b> | <b>30 Sep 2016</b> | <b>H1 FY2017<br/>Interest Cost</b> |
|---|--------------------|--------------------|------------------------------------|
| Intercompany Receivable at Cairn India from Vedanta Ltd | (1,250)            | (1,250)            | (30)                               |

Note: Debt numbers at Face Values.

|  | FY2016 | LTM Sep'16 | Covenant<br>(Up to March 2017) |
|--|--------|------------|--------------------------------|
| Net Debt/EBITDA                          | 3.14x  | 3.58x      | < 4.0x                         |
| EBITDA/Net Interest Expense <sup>1</sup> | 3.86x  | 3.59x      | > 2.5x                         |
| Net Assets/Debt                          | 1.55x  | 1.50x      | > 1.4x                         |
| Gearing <sup>2</sup>                     | 52%    | 54%        |                                |
| Gearing – pre-impairment <sup>2</sup>    | 33%    | 35%        |                                |

Several of our facilities have the covenants of Net Debt/EBITDA of <2.75x and EBITDA/Net Interest of >4.0x, as disclosed in previous periods. These have been waived by lenders until Sept 2016, and progressively revert to original levels by March 2019. The above table shows the strictest of the covenants.

1. Interest includes Capitalized Interest.

2. Gearing is calculated as Net Debt divided by the sum of Net Debt and Equity.



## Foreign Currency - Impact of a 10% depreciation in FX Rate

| Currency | H1 FY2017<br>Average FX rate | H1 FY2017<br>EBITDA (\$mn) |
|----------|------------------------------|----------------------------|
| INR/USD  | 66.9474                      | 79.5                       |

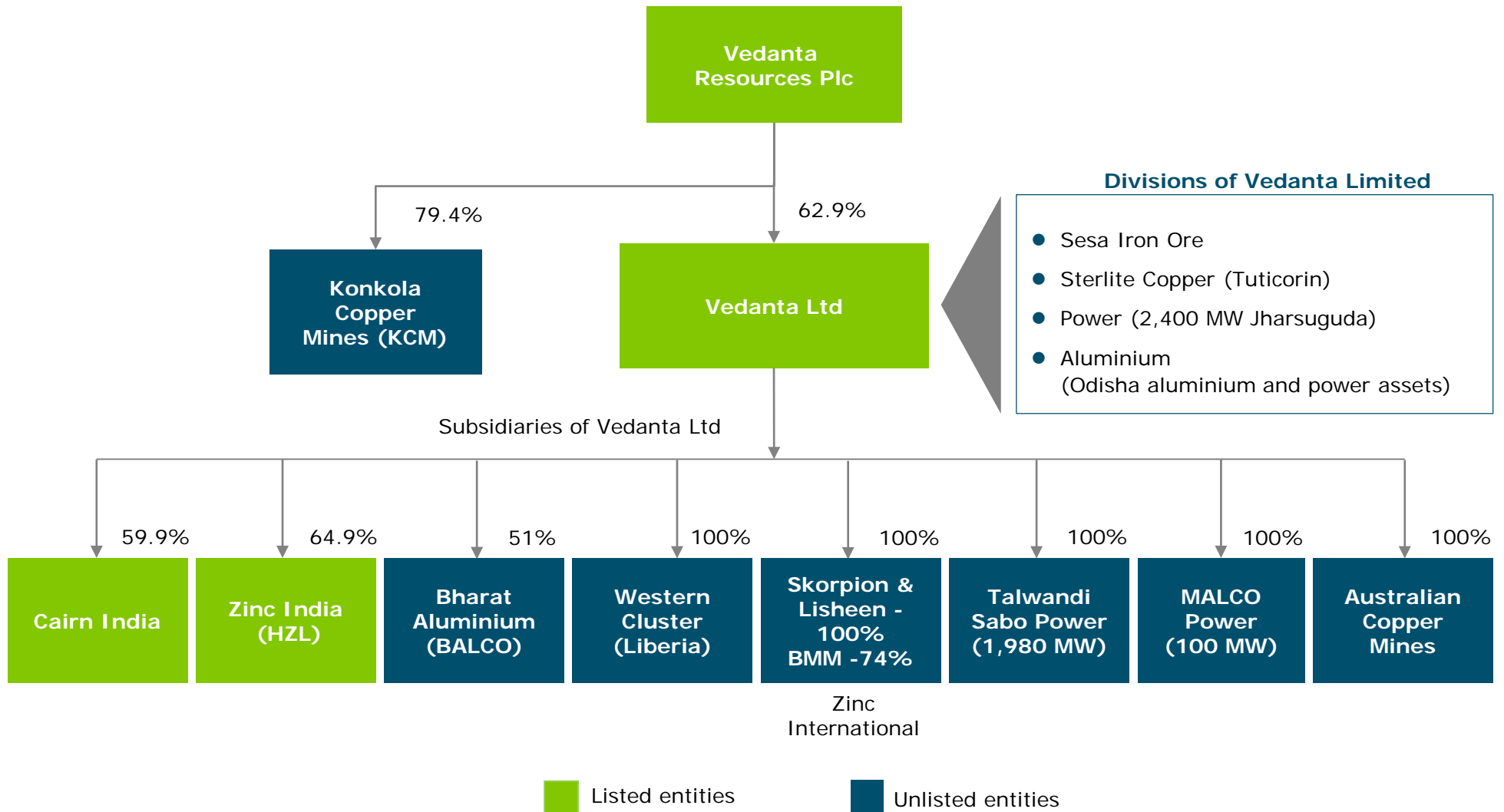
## Commodity prices – Impact of a 10% increase in Commodity Prices

| Commodity             | H1 FY2017<br>Average price | H1 FY2017<br>EBITDA (\$mn) |
|-----------------------|----------------------------|----------------------------|
| Oil (\$/bbl)          | 46                         | 36.4                       |
| Zinc (\$/t)           | 2,089                      | 62.1                       |
| Aluminium (\$/t)      | 1,596                      | 59                         |
| Copper (\$/t)         | 4,751                      | 28                         |
| Lead (\$/t)           | 1,797                      | 11.8                       |
| Goa Iron ore (\$/dmt) | 35                         | 6.2                        |
| Silver (\$/oz)        | 18                         | 12.4                       |

| Capex in Progress   | Status  | Capex (\$mn)  | Spent up to March 2016 | Spent in H1 | Unspent as at 30 Sep 2016 |
|---|---|---------------|------------------------|-------------|---------------------------|
| Cairn India   |   | 1,378         | 1,278                  | 21          | 79                        |
| <b>Total Capex in Progress - Oil &amp; Gas</b>                                |   | <b>1,378</b>  | <b>1,278</b>           | <b>21</b>   | <b>79</b>                 |
| <b>Aluminium Sector</b>   |   |               |                        |             |                           |
| BALCO – Korba-II 325ktpa Smelter and 1200MW power plant(4x300MW) <sup>1</sup> | Smelter: 168 pots capitalized, further ramp up in progress<br>Power – All 4 units operational | 1,872         | 1,889                  | 55          | (72)                      |
| Jharsuguda 1.25mtpa smelter   | 168 pots capitalised, further ramp up in progress   | 2,920         | 2,568                  | 110         | 242                       |
| <b>Power Sector</b>   |   |               |                        |             |                           |
| Talwandi 1980MW IPP   | All 3 units commissioned  | 2,150         | 2,054                  | 63          | 33                        |
| <b>Zinc Sector</b>  |   |               |                        |             |                           |
| Zinc India (Mines Expansion)  | Phase-wise by FY2019  | 1,500         | 790                    | 105         | 605                       |
| <b>Zinc International</b>   |   |               |                        |             |                           |
| Gamsberg Mining Project   | First production by mid 2018  | 400           | 21                     | 12          | 367                       |
| Skorpion Pit Extension <sup>2</sup>   | Commence in CY2017  | 120           | -                      | -           | 120                       |
| <b>Total Capex in Progress</b>  |   | <b>10,340</b> | <b>8,600</b>           | <b>366</b>  | <b>1,446</b>              |
| <b>Capex Flexibility</b>  |   |               |                        |             |                           |
| <b>Metals and Mining</b>  |   |               |                        |             |                           |
| Lanjigarh Refinery (Phase II) – 4mtpa   |   | 1,570         | 812                    | 8           | 750                       |
| Tuticorin Smelter 400ktpa   | EC awaited  | 367           | 132                    | -           | 235                       |
| Skorpion Refinery   | Currently deferred  | 156           | 11                     | -           | 145                       |
| <b>Total Capex Flexibility</b>  |   | <b>2,093</b>  | <b>955</b>             | <b>8</b>    | <b>1,130</b>              |

1. Cost overrun on account of changes in exchange rates. Total overrun expected to be \$120mn upto FY2018-19

2. Current estimates, subject to final board approval



Note: Shareholding based on basic shares outstanding as on 30 Sept 2016