



# Vedanta Ltd.

**Tom Albanese**  
Chief Executive Officer

**August 2016**

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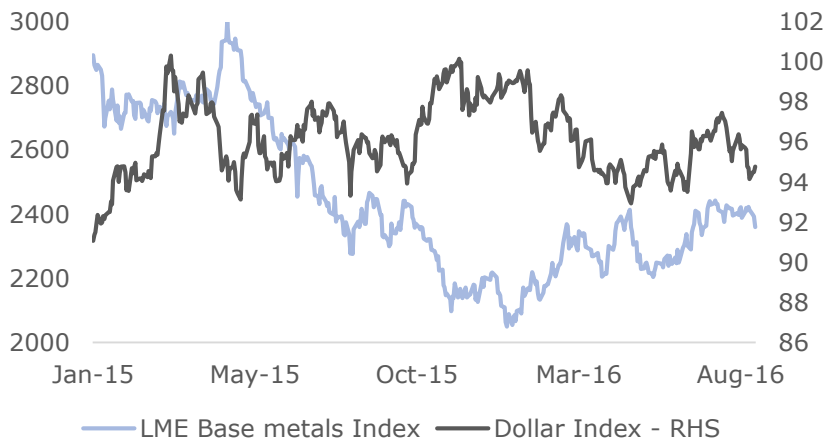
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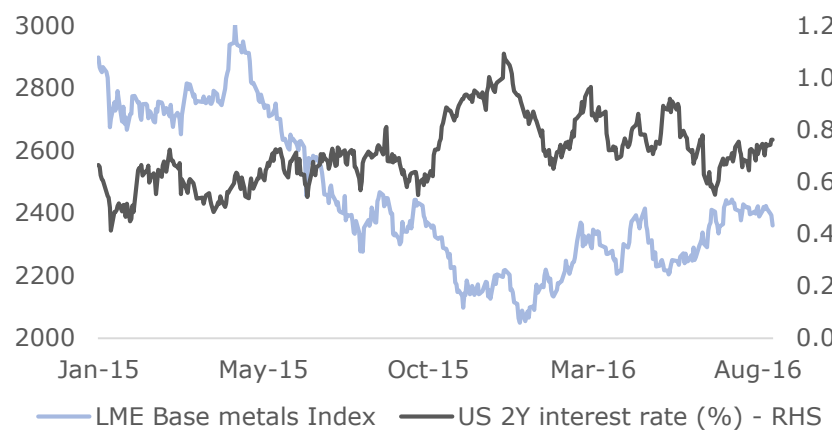
# Commodity prices have been driven by dollar strength, low interest rates and recovery in China



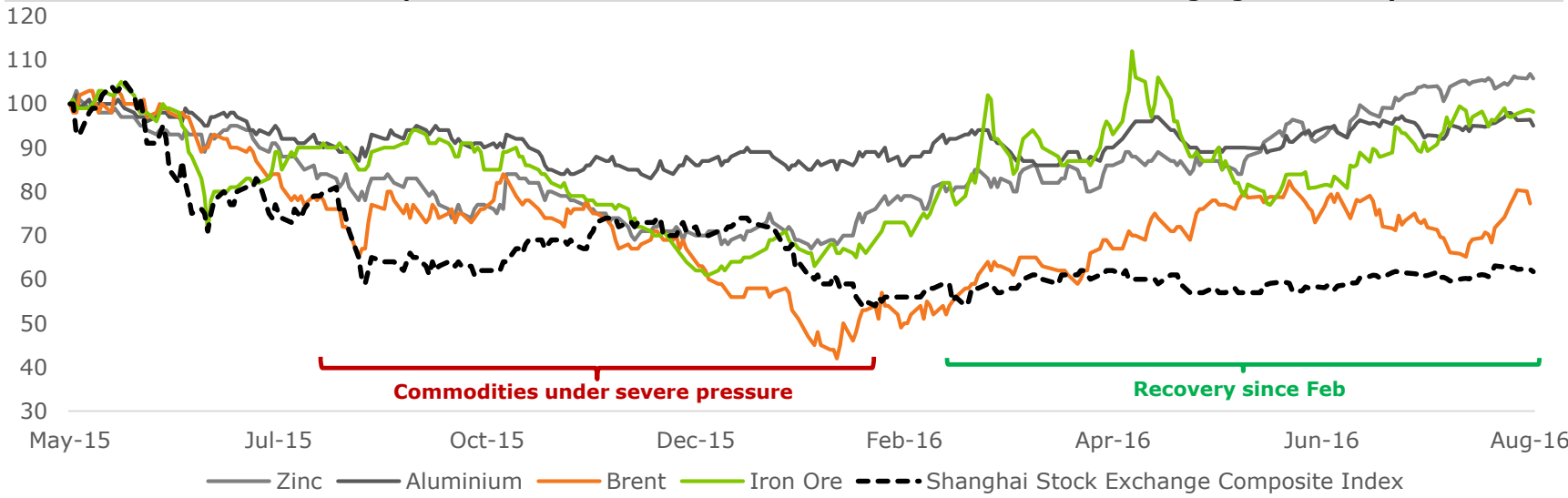
**Dollar strength vs commodities**



**US interest rates vs commodities**



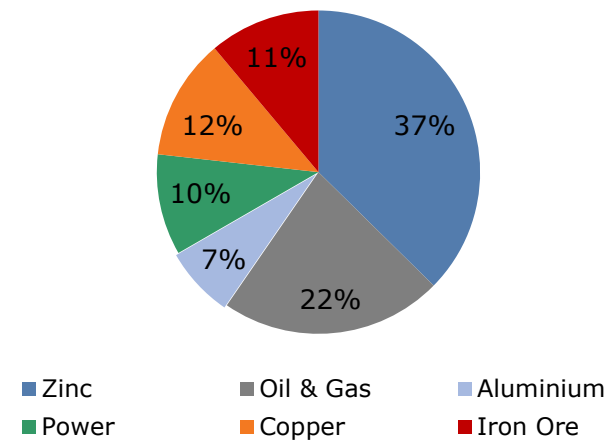
**Investor sentiment has turned positive on the sector in the last few months as China is showing sign of stability**



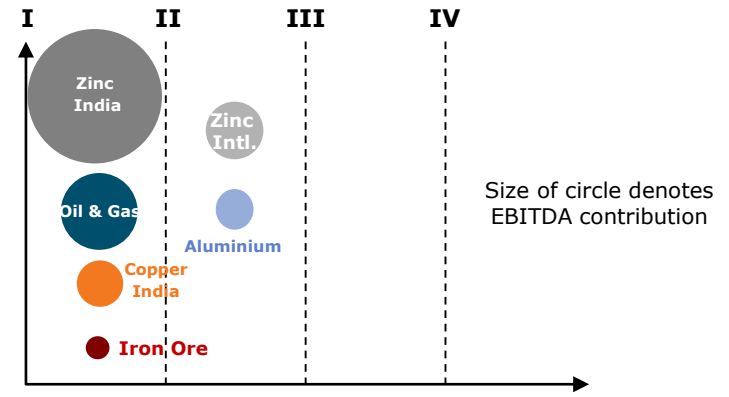
- Portfolio of large, structurally low-cost, long-life Tier-I assets, that delivered strong free cash flow
  - Significant ramp-up at Aluminium, Power and Iron ore progressing well with minimal incremental capex
  - Delivered consistent EBITDA margin of 32%<sup>1</sup> for Q1 FY2017 and 30%<sup>1</sup> for FY2016
  - Delivered cumulative cost and marketing savings of c.US\$ 340 mn over last five quarters; on course to deliver US\$1.3 bn
  - Strong credit rating of AA- by CRISIL
  - Gross debt reduced by c. Rs. 2,300 crore in last 4 quarters to 30 June 2016
- Positively contributing to India
  - Contribution of \$3.1bn to Indian Exchequer in FY2016
  - Direct and Indirect employment of c.70,000
  - Community investment of \$24mn benefiting 1.8mn people in India in FY2016
- Announced revised and final terms for the merger with Cairn India: Cairn’s minority shareholders will receive 1 Equity share in Vedanta Ltd and 4 Redeemable Preference Shares of Rs.10 each

<sup>1</sup> Excludes custom smelting

**EBITDA Mix for Q1 FY2017**



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

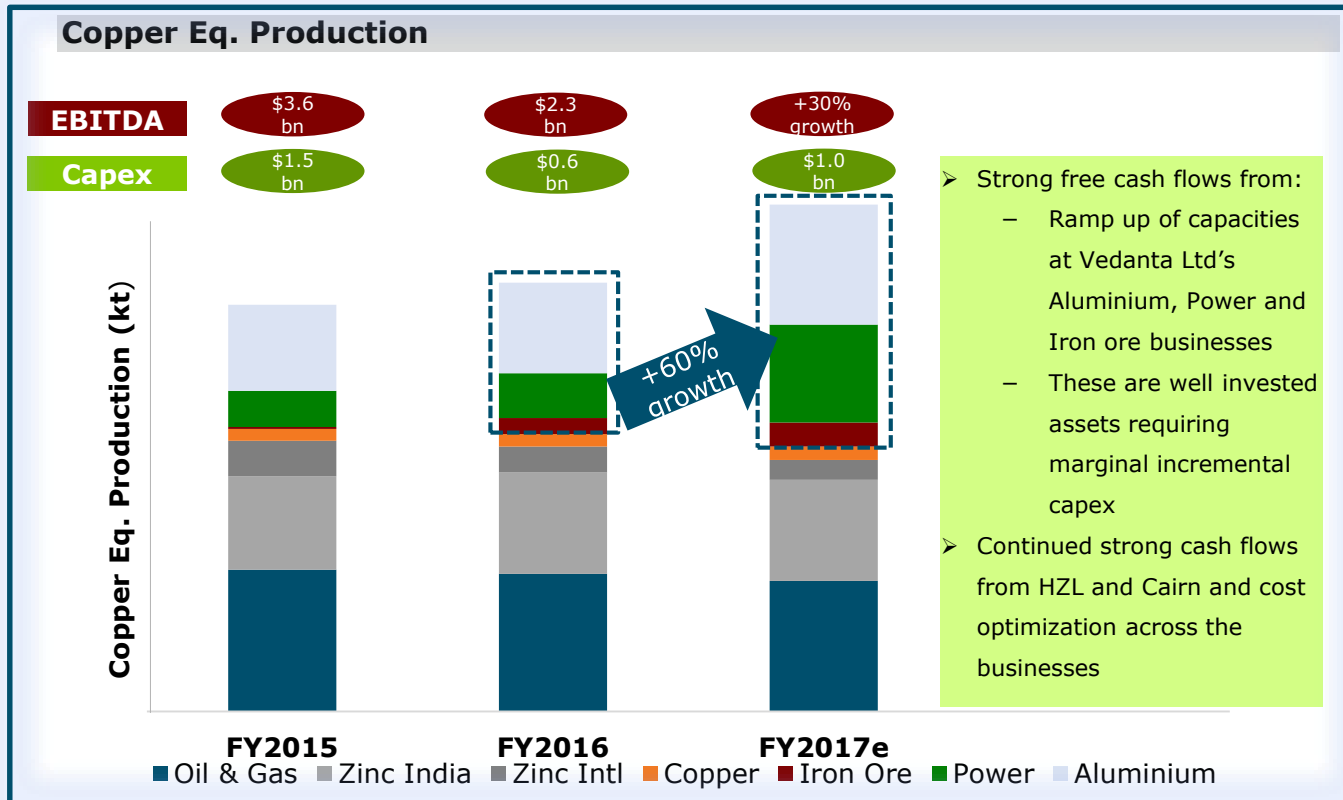






|                          | R&R Life (years) | FY2016                                |                      | Key highlights   |
|--------------------------|------------------|---------------------------------------|----------------------|--|
|                          |                  | Production                            | EBITDA Rs. Cr (\$mn) |  |
| <b>O&amp;G</b> Oil & Gas | 15+              | 46.9 mboe <sup>1</sup>                | 3,504 (\$535mn)      | <ul style="list-style-type: none"> <li>India's largest private-sector crude oil producer</li> <li>Strong FCF generation even at low oil prices with opex of \$6.5/bbl</li> </ul>   |
| <b>ZLS</b> Zinc – India  | 25+              | Zn - 759kt <sup>2</sup><br>Ag - 14moz | 6,484 (\$1,006mn)    | <ul style="list-style-type: none"> <li>Positioned on the 1<sup>st</sup> decile of the cost curve</li> <li>Rampura Agucha is the largest zinc-lead mine globally; significant production of silver from SK mine</li> </ul>            |
| <b>ZLS</b> Zinc Intl.    | 20+              | 226kt <sup>3</sup>                    | 380 (\$58mn)         | <ul style="list-style-type: none"> <li>Gamsberg is one of the world's largest undeveloped zinc deposits</li> <li>Developing Gamsberg with a modular and flexible approach to maximise value</li> </ul>                               |
| <b>Cu</b> Copper – India | NA               | 384kt                                 | 2,205 (\$337mn)      | <ul style="list-style-type: none"> <li>One of the world's most efficient custom smelters, operating consistently above 90% utilisation rate</li> <li>Strongly positioned on the 1<sup>st</sup> quartile of the cost curve</li> </ul> |
| <b>Fe</b> Iron Ore       | 20+              | 5.2dmt <sup>4</sup>                   | 402 (\$61mn)         | <ul style="list-style-type: none"> <li>Goa operation on 1<sup>st</sup> quartile of the cost curve</li> <li>Largest iron ore exporter in India pre-ban, significant ramp-up in FY2017</li> </ul>                                      |
| <b>Al</b> Aluminium      | NA               | 923kt <sup>5</sup>                    | 661 (\$101mn)        | <ul style="list-style-type: none"> <li>Significant ramp up of capacities in FY 2017</li> <li>Integrated capacity with captive power</li> </ul>   |
| <b>Pwr</b> Power         | NA               | 12,121MU <sup>6</sup>                 | 1,299 (\$198mn)      | <ul style="list-style-type: none"> <li>9,000 MW fully operational, of which 3,600 MW commercial power</li> <li>Poised to benefit from structural power shortage in India</li> </ul>  |

1. Vedanta Ltd working interest 2. Refined zinc total production (does not include 145kt refined lead) 3. Refined zinc from Skorpion (82kt) and mined metal from BMM and Lisheen (63kt and 81kt, respectively) 4. Production of saleable ore 5. Total aluminum production (does not include Lanjigarh 971kt of Alumina). 6. Total power sales

Presented at FY2016 results

Progress during Q1 FY2017



- Ramp-up of BALCO-II smelter completed, rolled product facility re-started; Jharsuguda-II: 1<sup>st</sup> line ramp-up impacted by power outage, 3<sup>rd</sup> line start-up preponed from Q4 to Q2 
- Goa iron ore production scaled to 40% of allocated capacity in Q1 
- Ramp-up of power volumes at BALCO and TSPL; 3<sup>rd</sup> unit of TSPL to be capitalized in Q2 
- On track to deliver significant EBITDA growth in FY2017 

**Ramp-up will generate higher free cash flow and enable de-leveraging**

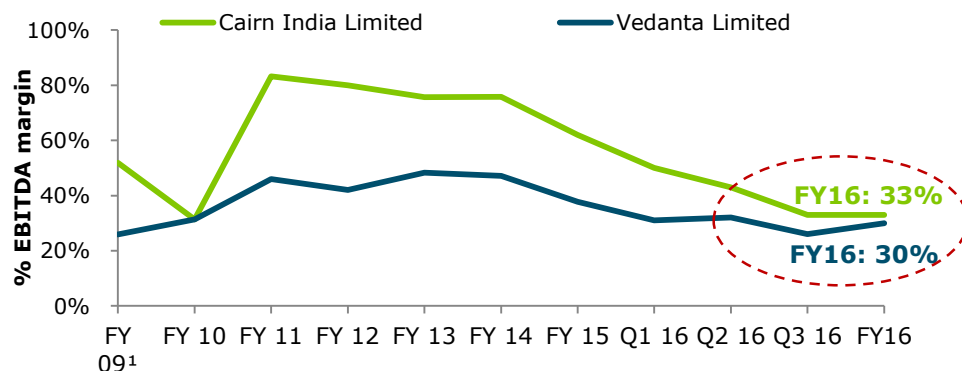
## Revised and final terms

- Cairn India minority shareholders will receive for each equity share held, 1 Equity Share in Vedanta Ltd. and 4 Redeemable Preference Shares of Rs.10 each
- Implied premium of 20% to one month VWAP of Cairn India share price as on 21<sup>st</sup> July 2016
- Pro-forma ownership in Vedanta Ltd.:
  - Vedanta Resources 50.1%; Vedanta Ltd minority shareholders 29.8%; Cairn India minority shareholders 20.2%
- Conditional on shareholder approvals at each of Vedanta plc, Vedanta Ltd and Cairn India, as well as customary regulatory approvals

## Strategic rationale for the merger

- Diversified portfolio de-risks earnings volatility and drives stable cash flows through the cycle
- Improved ability to allocate capital to highest return projects
- Greater financial flexibility to sustain strong dividend distribution
- Cost savings and greater capital efficiency, with potential re-rating to benefit all shareholders
- Stronger balance sheet lowers overall cost of capital
- Consistent with stated corporate strategy to simplify the Group structure

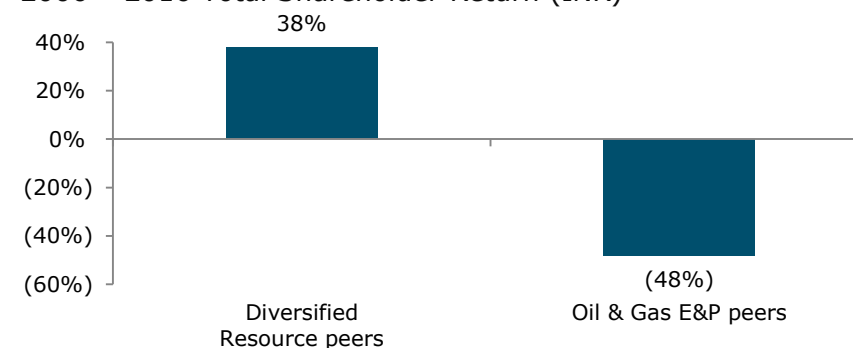
## Diversified assets generate consistent margins...



Source: Company filings, Bloomberg  
 Note1: Excludes custom smelting. For Vedanta Limited: reported numbers considered for FY13 to current; Vedanta plc ex KCM used as proxy for FY12 and before

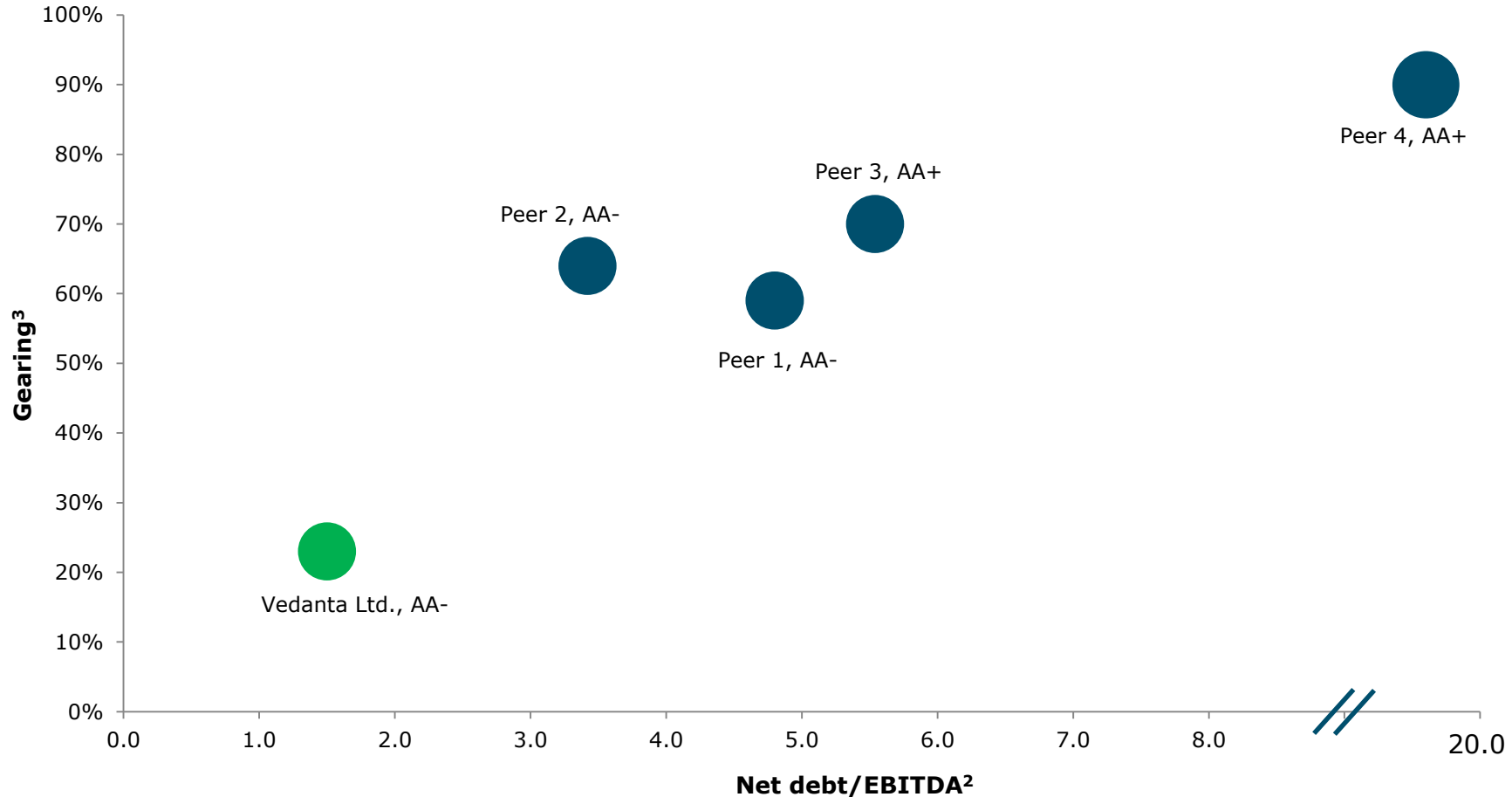
## ... and superior shareholder returns

2006 – 2016 Total Shareholder Return (INR)



Source: Datastream as at 20 July 2016, shown on an INR basis  
 Diversified Resource peers include Anglo American, BHP Billiton, Freeport McMoran, Glencore, Rio Tinto, Teck Resources, Vedanta Resources plc  
 Oil & Gas E&P peers include mid-cap exploration and production companies with focus on production from emerging markets; includes DNO ASA, Genel Energy, Gulf Keystone Petroleum, Kosmos Energy, Maurel et Prom, Nostrum, Soco International and Tullow Oil

## Credit profile for Indian Peers<sup>1</sup>



## Vedanta's credit metrics to further improve with production ramp-ups

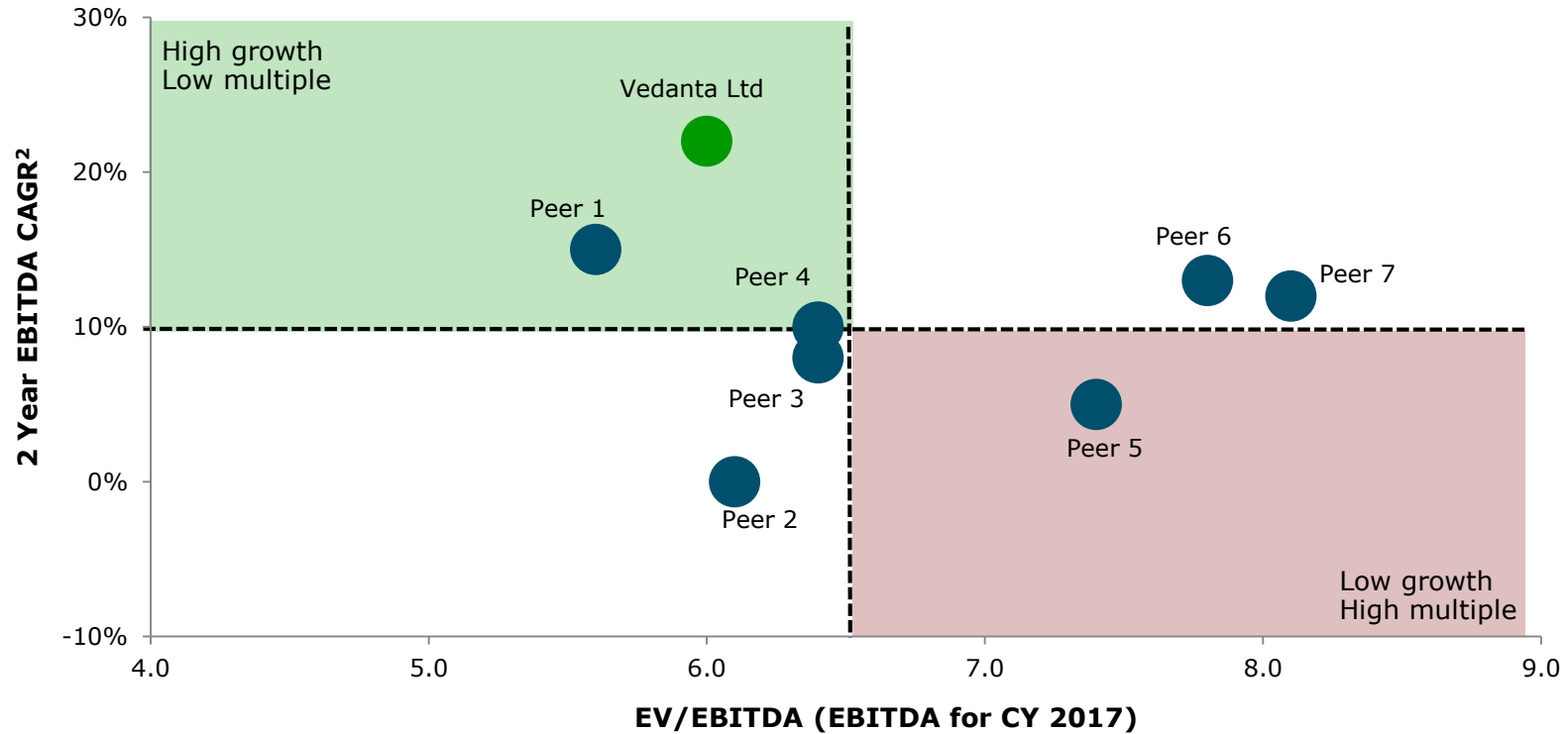
Source: Bloomberg

Note 1. Peer companies include Hindalco, Tata Steel, JSW Steel and SAIL. Credit rating as assigned by CRISIL or CARE rating

2. Net debt is current reported net debt, while EBITDA is Bloomberg estimates for FY2017

3. Gearing is calculated as Net debt divided by the sum of Net debt and Equity





**Vedanta trades at lower multiple, while offering higher EBITDA growth**

Source: Bloomberg

Note 1: Peers include BHP, Rio Tinto, Glencore, Anglo American, Teck, Freeport and South32. EBITDA has been calendarised for CY 2017.

Note 2: Base year is taken as CY 2015 for December year-ending companies, while FY 2016 for BHP, South32 and Vedanta

## 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

- Announced revised and final terms for the Vedanta Limited and Cairn India Merger
- Expect merger to be completed by Q1 CY2017

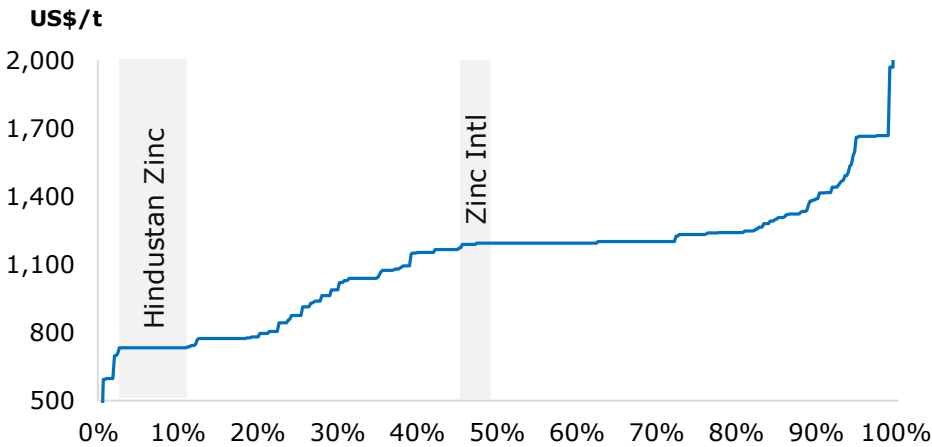
- Achieving Zero harm: reduce fatal, environment and social incidents
- To obtain local consent prior to accessing resources
- Resource Efficiency Improvement – Water, Energy, Waste and Carbon
- Community need based development projects

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



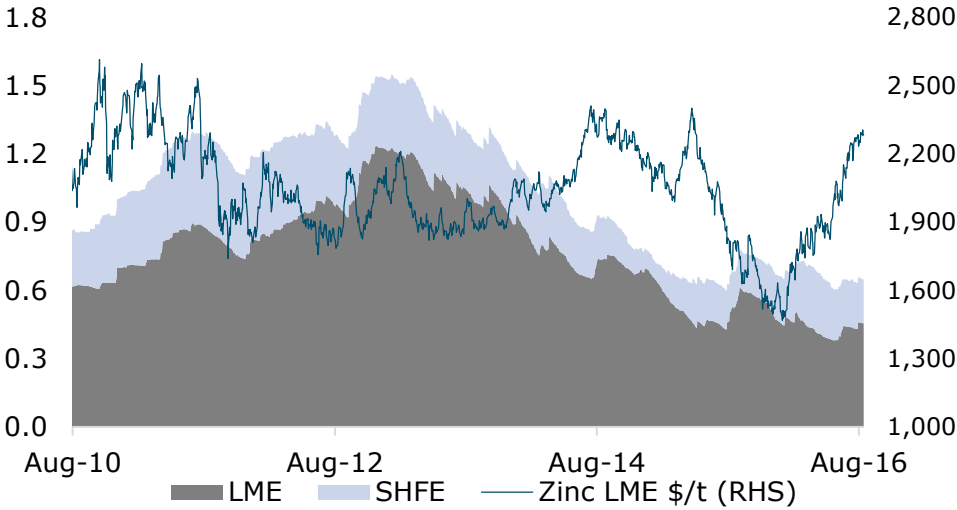
## **Business Update**

### CY2016 Global Zinc Cost curve



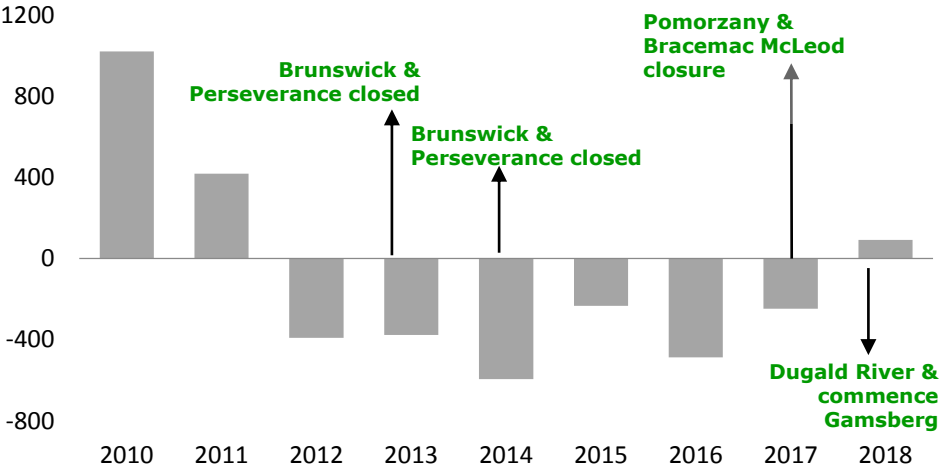
Source: Wood Mackenzie

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



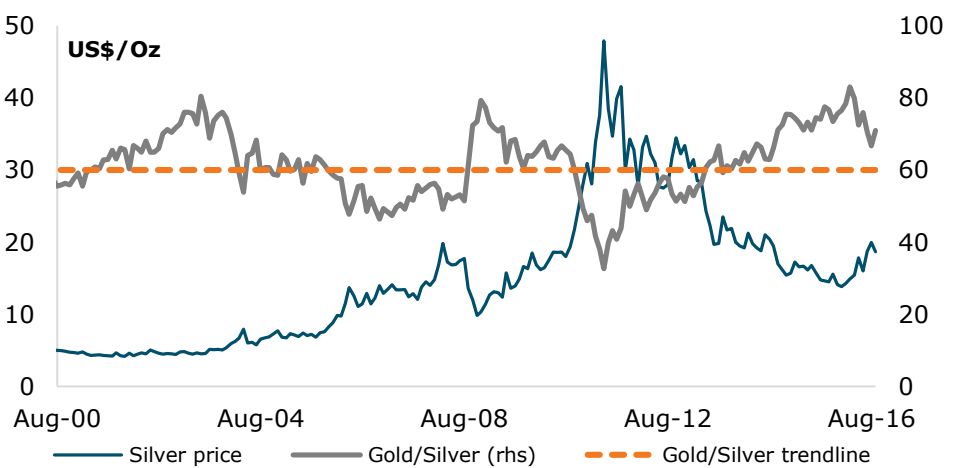
Source: Bloomberg

### Global Refined Zinc Demand supply balance in deficit (kt)



Source: Wood Mackenzie STO Q2 2016

### Silver performing well, Gold to silver ratio reverting to LT mean



Source: Bloomberg

## Zinc India

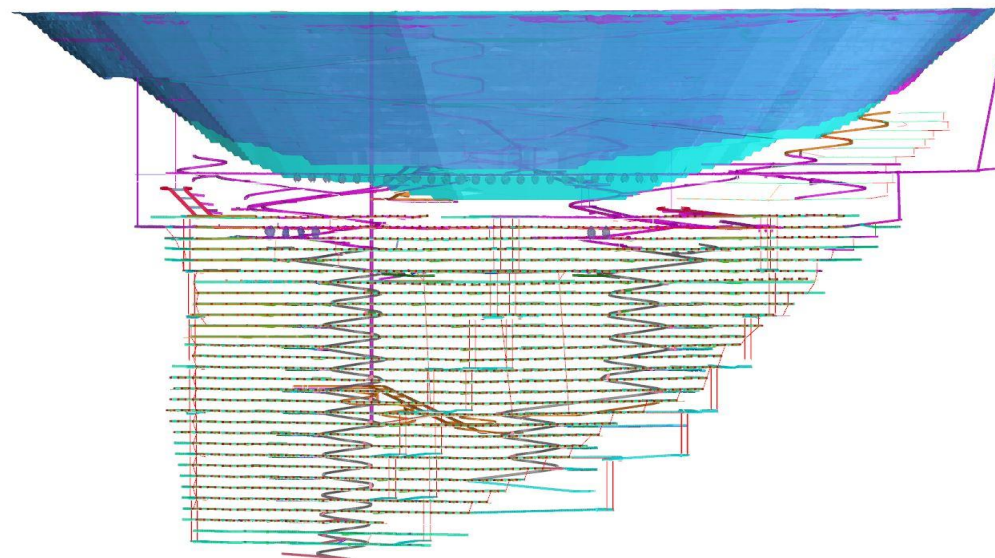
### Projects

- RAM U/G main shaft crossed 900mtrs against the final depth of 950mtrs; winder erection work commenced during the quarter
- Extension of RAM open pit: Pre-stripping progressing as per plan
- SK mine: Off shaft development work continues to be ahead of schedule; further expanding mine from 3.75mtpa to 4.5mtpa
- Kayad mine: Project is nearing completion with capacity of 1mtpa

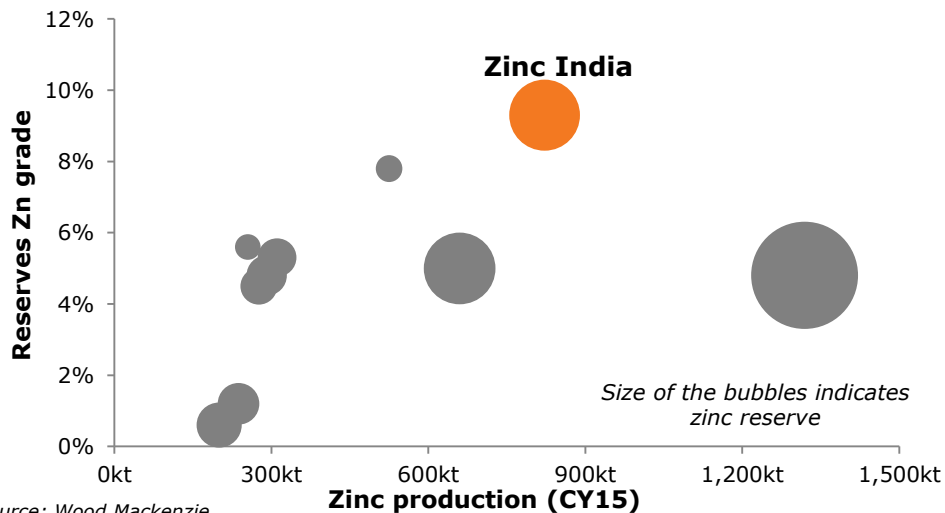
### Outlook

- 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

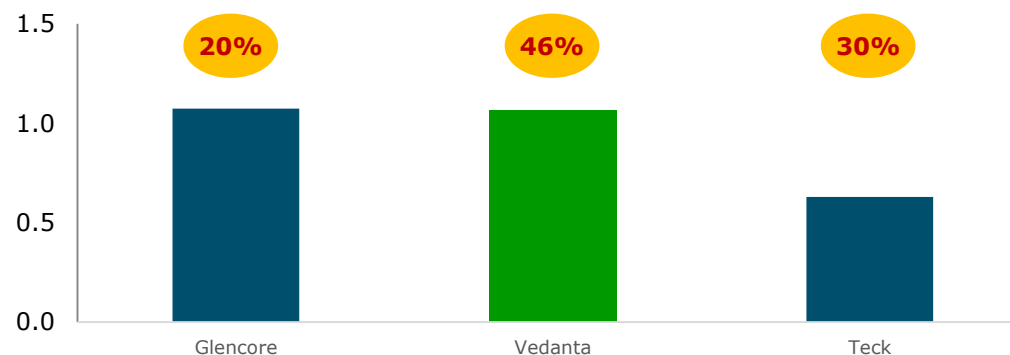
Rampura Agucha Mine – Longitude Vertical Section



## 2015A top 10 zinc producers globally



## Zinc EBITDA and contribution to overall EBITDA of diversified



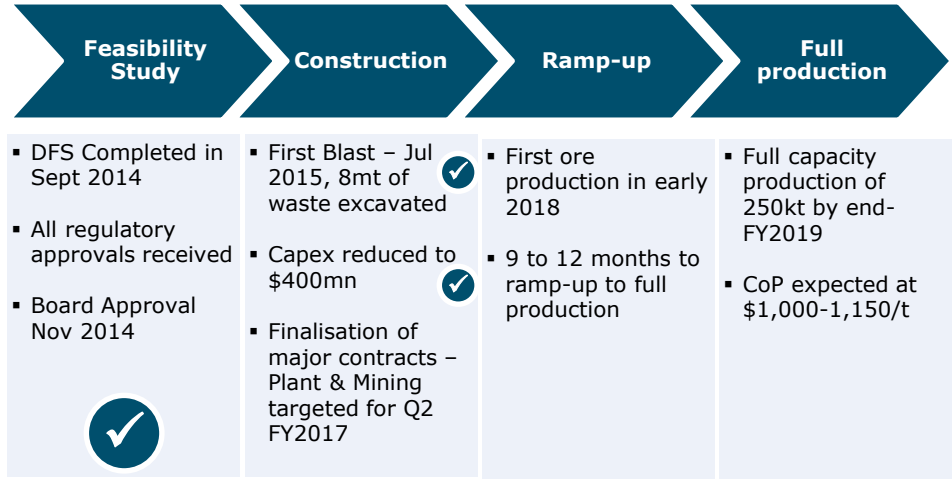
Source: Company latest annual reports

**%** Zinc contribution to overall EBITDA

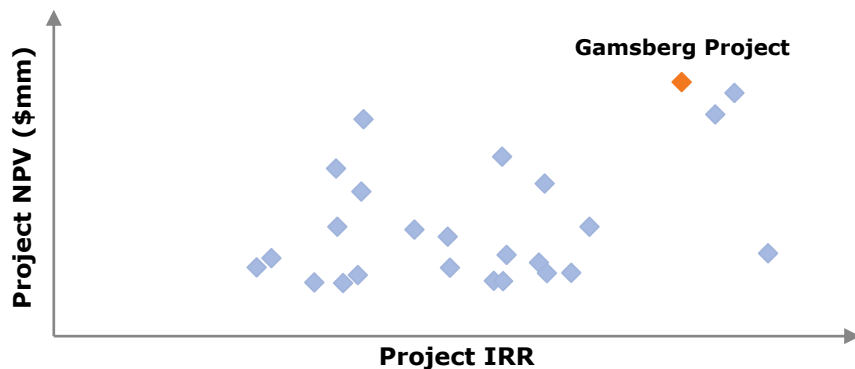
## Gamsberg Project update

- 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 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

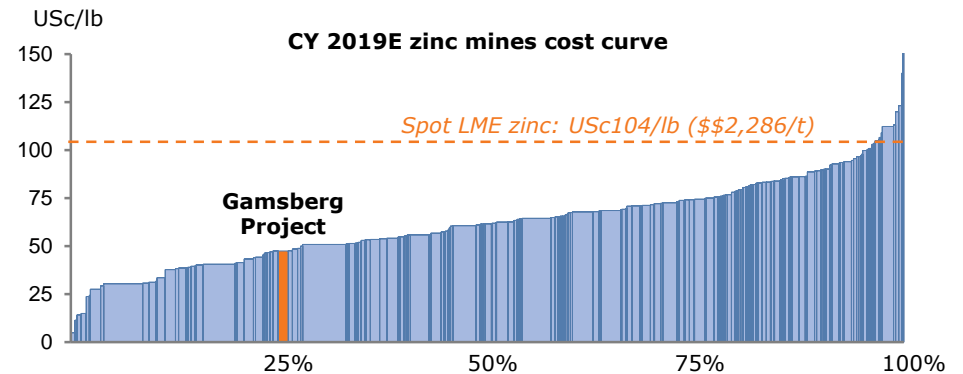


## Gamsberg is a large, high return project...



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

## Q1 FY2017 Results

- Mangala EOR, world's largest polymer program yielding results
  - EOR production reached 42 kboepd, 31% higher q-o-q
  - Rajasthan production stable at 167 kboepd in Q1
- Rajasthan water flood opex further reduced to \$4.4/boe; blended cost at \$6.4/boe, better than earlier expectation of high single digits

## RDG Gas: Phased ramp-up

- Phase-1: Successfully completed fracking at 15 wells; 25% increase in estimated total recovery of gas till 2030
  - 40-45 mmscfd by H1 CY2017
- Phase-2: Tendering for new gas processing terminal and rig underway
  - 100 mmscfd by H1 CY2019

## Progress on key optionality projects

- Improved economics of Bhagyam and Aishwariya EOR
  - Aishwariya EOR: Opex reduced by c.30%; FDP for 15 mmbbls to be submitted in current quarter
  - Bhagyam EOR: Reduced development and operating cost by c.25%; revised FDP for 45 mmbbls to be submitted to JV partner in H1 CY 2017
- Aishwarya Barmer Hill: Development in phases with total EUR of 20-30 mmbbls, production from Phase-1 expected in the current fiscal

## Outlook

- Rajasthan FY2017 production expected broadly at FY2016 level
- Maintenance shutdown at MPT in Sept 2016
- FY2017 net capex of \$100m
  - 80% on Development including RDG and Mangala EOR projects
  - 20% on Exploration



Rajasthan: Crude Oil Processing Facility



Rajasthan: Captive Power Plant - Steam Generation

Source : IEA, BP statistical review of world energy

## Q1 FY2017 Results

- Record quarterly production at 244kt
- Ramp-up at BALCO II 325kt smelter completed
- Jharsuguda-II: 1<sup>st</sup> line ramp-up impacted by a power outage in August; impact to be mitigated by start-up of 3<sup>rd</sup> line preponed from Q4 to Q2 FY 2017
- Lanjigarh refinery: 2<sup>nd</sup> stream recommenced operations, alumina production of 1.4mt for FY 2017
- Aluminium CoP at \$1,476, marginally higher q-o-q due to high power cost
- Auction of coal linkages by Coal India in August 2016: Secured c.6mtpa at a competitive price for CPP's

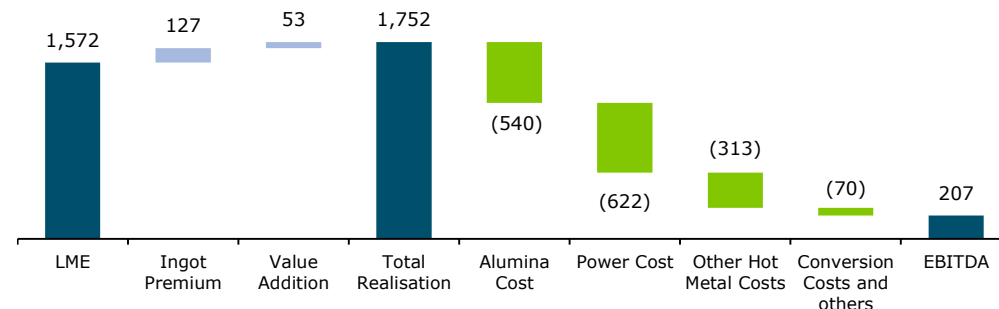
## Outlook

- Current production run-rate at 1.0mtpa, progressing to achieve full year production of 1.2mt
- CoP estimated at below \$1,400 for FY 2017
  - Lanjigarh: Alumina CoP estimated at \$250/t
  - Laterite mining to commence production in Q3 FY2017

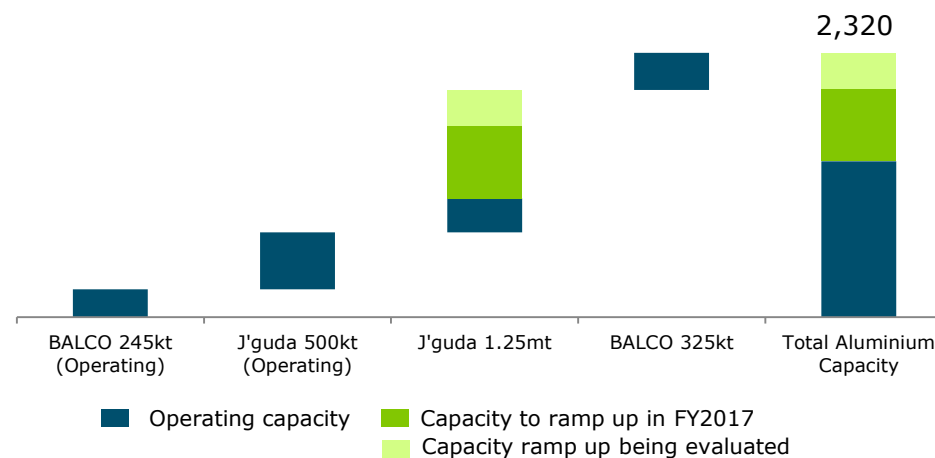
## Aluminium Costs and Margins

(in \$/t, for Q1 FY2017)

|       |       |     |    |       |       |       |       |      |         |
|-------|-------|-----|----|-------|-------|-------|-------|------|---------|
| Q4'16 | 1,516 | 134 | 65 | 1,705 | (554) | (570) | (307) | (61) | \$223/t |
|-------|-------|-----|----|-------|-------|-------|-------|------|---------|



## Roadmap to 2.3mtpa Aluminium Capacity





## Q1 FY2017 Results

- 1980 MW TSPL: Unit-I and Unit-II operated at an availability of 72% in Q1
  - Unit-III put to commercial production in August and to be capitalised in Sept
- 600MW BALCO IPP: 2<sup>nd</sup> unit of 300MW capitalized in Q1

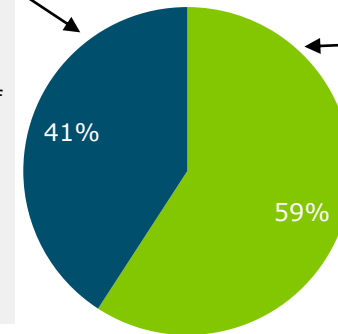
## Outlook

- TSPL: Targeting availability of 80% post capitalization of all operating units
- 2400MW Jharsuguda plant: One unit will supply to Gridco, remaining 3 units will be utilized by smelter
- FY2017 coal requirement of 36mt for 9,000 MW power portfolio
- Higher production by Coal India has reduced reliance on imports
  - 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

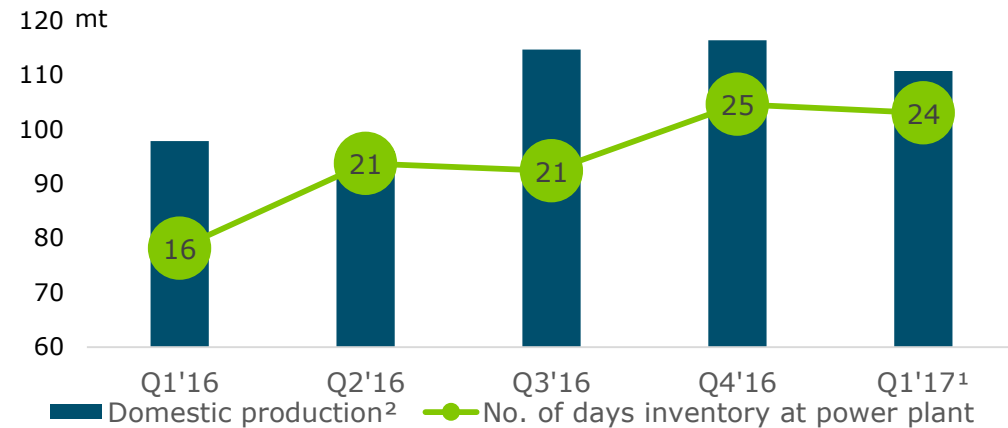
- 600MW Jharsuguda (of 2400MW plant)
- 1,980MW TSPL
- 2x300MW BALCO (of 1200MW plant)
- 274MW HZL Wind Power
- 100MW MALCO



### CPP: 5.1GW

- 1,215MW Jharsuguda
- 3x600MW Jharsuguda (of 2400MW plant)
- 540MW BALCO
- 270MW BALCO
- 2x300MW BALCO (of 1200 MW plant)
- 90MW Lanjigarh
- 474MW HZL
- 160MW Tuticorin

## Coal availability at power plants in India improving:



Source: Coal ministry

1. Q1 derived based on April and May actual numbers 2. Includes production from Coal India and Singrauli coal mine

## Iron ore: Steady production at Goa

- Goa production ramped up in Q1, run rate of 0.8 mt per month
- Karnataka 0.8 mt production
- Engaging with the respective state Government for higher volumes
- Maintained low cost of operations
- Pig iron:
  - Strong production of 181kt, EBITDA contribution of Rs.47 crore

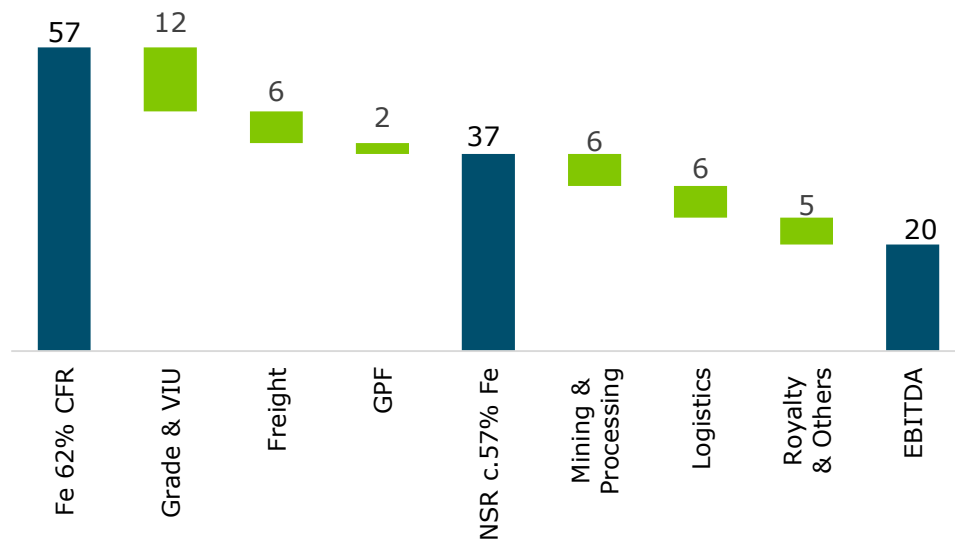
### Outlook

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

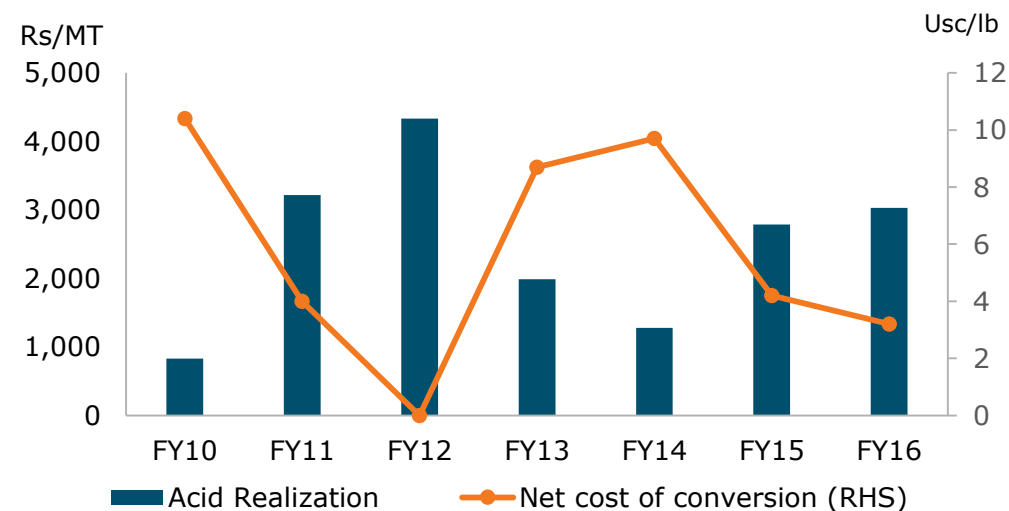
## Copper Cathodes:

- Strong performance in Q1, spot Tc/Rc remains robust
- FY2017 expected production at 400kt
  - Planned maintenance shutdown for three days in Q2
- Tuticorin Power Plant:
  - PLF at 60% due to lower demand
  - Compensated at the rate of 20% of the realization for off-take below 85% of contracted quantity

## Goa iron ore costs and Margin (Q1 FY2017, US\$/t)



## Acid realization improves net cost of conversion



## Strategic Priorities



**Production growth and asset optimisation**



**De-lever the balance sheet**



**Simplification of the group structure**



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**Identify next generation of resources**

## Focus Areas for FY 2017

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- 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

- Announced revised and final terms for the Vedanta Limited and Cairn India Merger
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- 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



## **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          | August 2016                     |
| Vedanta plc EGM                             | September 2016                  |
| Vedanta Limited shareholder meeting         | 8 <sup>th</sup> September 2016  |
| Cairn India Limited shareholder meeting     | 12 <sup>th</sup> September 2016 |
| Foreign Investment Promotion Board approval | Q4 CY 2016                      |
| High Court of India approval                | Q1 CY 2017                      |
| MoPNG approval                              | Q1 CY 2017                      |
| Transaction completion                      | Q1 CY 2017                      |

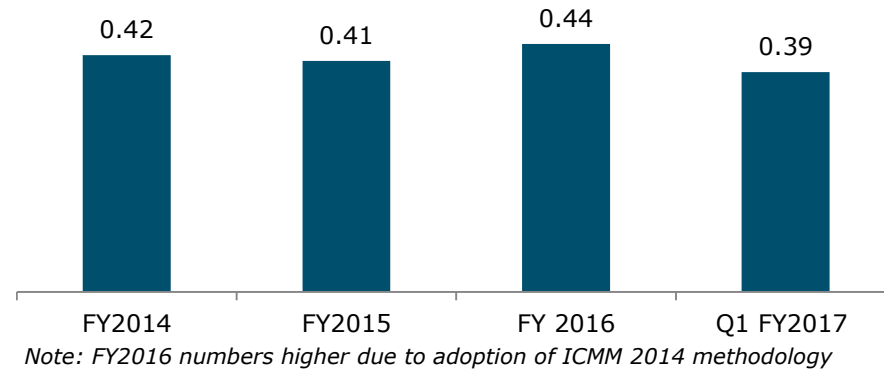
## Health, Safety and Environment

- Building a Zero Harm Culture
  - HSE Charter launched, followed across the group
  - Business COO’s Forum formed to avoid repeat high potential incidents
  - Leadership Coaching Programme – “Making Better Risk Decisions” training programme in progress
  - Safety video launched to support implementation of safety standards
- Understanding and implementing control towards non routine and critical jobs
  - 1 fatality in Q1 FY 2017
  - Zero “higher category” (Cat# 4&5) environmental incidents
  - Tailings management: Internal review completed, independent expert to review the high priority facilities
- Resources efficiency, process innovation and technological interventions
  - Environment performance standards being developed
  - Formulation of Carbon Strategy in progress

## Social Licence to Operate

- Hosted 2<sup>nd</sup> Sustainable Development Day in London
- International framework and best practices
  - Working towards implementation of the Sustainable Development Goals
  - Modern Slavery Act framework and statement to be released
  - Launched SD Report aligned to GRI G4 framework
- Flagship CSR project – 100 Model *Anganwadi*’s (childcare centers) completed
- WASH pledge: Extended awareness to communities regarding importance of safe water, sanitation and hygiene

## LTIFR (per million man-hours worked)



**Gamsberg : Research & Rehabilitation Centre nursery**

(in Rs. Crore)

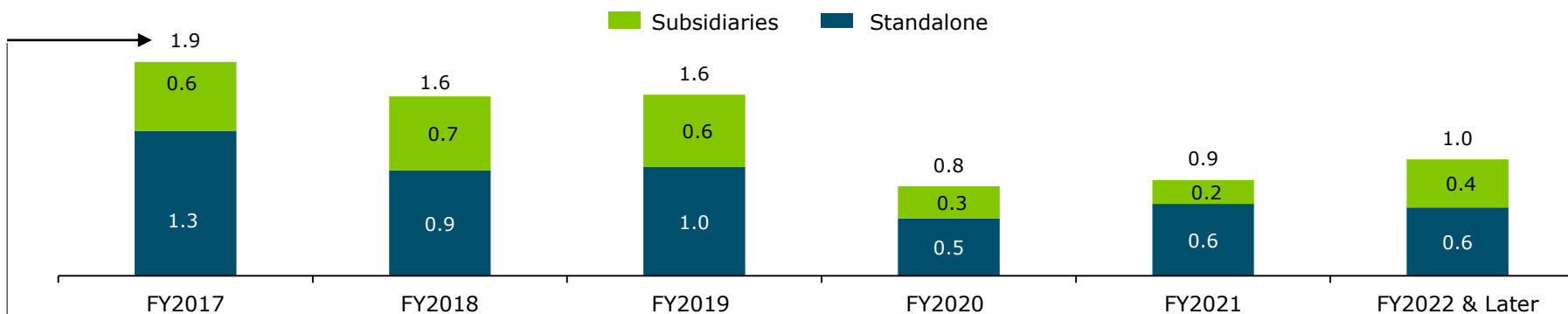
| Company   | 30 June 2016  |               |               | 31 March 2016 |               |               | 30 June 2015  |               |               |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|   | Debt          | Cash & LI     | Net Debt      | Debt          | Cash & LI     | Net Debt      | Debt          | Cash & LI     | Net Debt      |
| Vedanta Limited Standalone  | 45,322        | 1,216         | 44,106        | 42,256        | 1,356         | 40,900        | 39,948        | 1,285         | 38,662        |
| Zinc India  | 3,911         | 26,839        | (22,928)      | -             | 35,277        | (35,277)      | -             | 31,450        | (31,450)      |
| Zinc International  | -             | 600           | (600)         | -             | 642           | (642)         | -             | 1,077         | (1,077)       |
| Cairn India   | -             | 23,565        | (23,565)      | -             | 21,927        | (21,927)      | 388           | 18,767        | (18,379)      |
| BALCO   | 5,676         | 12            | 5,664         | 5,795         | 12            | 5,783         | 5,742         | 66            | 5,676         |
| Talwandi Sabo   | 7,453         | 23            | 7,430         | 7,289         | 40            | 7,249         | 6,684         | 12            | 6,672         |
| Twin Star Mauritius Holdings Limited <sup>1</sup> and Others <sup>2</sup> | 14,591        | 44            | 14,547        | 22,220        | 52            | 22,168        | 26,481        | 129           | 26,352        |
| <b>Vedanta Limited Consolidated</b>                                       | <b>76,953</b> | <b>52,299</b> | <b>24,654</b> | <b>77,559</b> | <b>59,306</b> | <b>18,254</b> | <b>79,242</b> | <b>52,786</b> | <b>26,456</b> |

Notes: Debt numbers at Book Value and excludes inter-company eliminations.

1. As on 31 March, debt at TSMHL comprised Rs.7,166 crore of bank debt and Rs. 6,647 crore of debt from Vedanta Resources Plc
2. Others includes MALCO Energy, CMT, VGCB, Sesa Resources, Fujairah Gold, and Vedanta Limited's investment companies.

## Maturity Profile of Term Debt (\$7.8bn)

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



External term debt of \$7.8bn (\$4.9bn at Standalone and \$2.9bn at Subsidiaries)

Maturity profile shows external term debt at face value (excludes working capital of \$2.0bn, inter-company debt from Vedanta plc of \$1.0bn<sup>1</sup> and short term borrowing of US\$0.6bn at HZL)

FY2017 maturities of \$1.9bn are a combination of \$1.4bn of short-term debt, and \$0.5bn of term debt:

- Focus on deleveraging the balance sheet during the year through internal accruals and working capital release
- \$1.4bn of short-term debt is expected to be partly repaid out of internal accruals and balance to be rolled over or replaced with term debt
- \$0.5bn of external term debt will be refinanced.

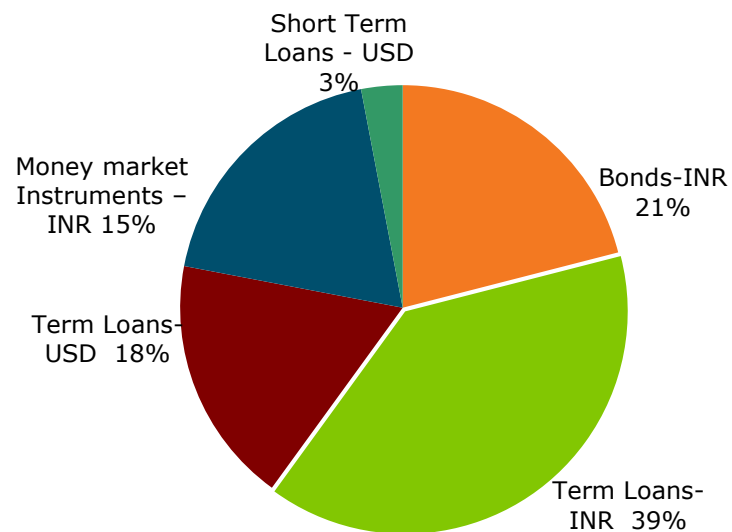
- Repaid \$0.9bn of Intercompany loan during the quarter through dividends received from HZL
- Strong liquidity: Cash and liquid investments of \$7.7bn and undrawn committed lines of \$1.0bn

| Debt breakdown as of 30 June 2016 (in \$bn)      |             |
|--|-------------|
| External term debt                               | 7.8         |
| Working capital                                  | 2.0         |
| Short term borrowing at HZL                      | 0.6         |
| Inter company loan from Vedanta Plc <sup>1</sup> | 1.0         |
| <b>Total consolidated debt</b>                   | <b>11.3</b> |
| <b>Cash and Liquid Investments</b>               | <b>7.7</b>  |
| <b>Net Debt</b>                                  | <b>3.6</b>  |

Notes : 1. Repaid further \$0.6bn inter company loan in July 2016 and the balance outstanding as of date is \$0.4bn



## Diversified Funding Sources for Term Debt of \$ 7.8bn (as of 30<sup>th</sup> Jun 2016)



- External term debt of \$4.9bn at Standalone and \$2.9bn at Subsidiaries, total consolidated \$7.8bn
- INR debt: 63%, USD debt:37%

Note: USD-INR: Rs. 67.62 at 30 June 2016

## Debt Breakdown (as of 30<sup>th</sup> Jun 2016)

| Debt breakdown as of 30 June 2016                |  | (in \$bn)   |
|--|--|-------------|
| External term debt                               |  | 7.8         |
| Working capital                                  |  | 2.0         |
| Short term borrowing at HZL                      |  | 0.6         |
| Inter company loan from Vedanta Plc <sup>1</sup> |  | 1.0         |
| <b>Total consolidated debt</b>                   |  | <b>11.3</b> |
| <b>Cash and Liquid Investments</b>               |  | <b>7.7</b>  |
| <b>Net Debt</b>                                  |  | <b>3.6</b>  |

Notes : 1. Repaid further \$0.6bn inter company loan in July 2016 and the balance outstanding as of date is \$0.4bn

| OIL AND GAS (boepd)   | Q1      |         |              | Q4      | Full Year |
|---|---------|---------|--------------|---------|-----------|
|   | FY 2017 | FY 2016 | % change YoY | FY2016  | FY 2016   |
| <b>Average Daily Total Gross Operated Production (boepd)*</b> | 206,455 | 217,935 | -5%          | 206,170 | 212,552   |
| <b>Average Daily Gross Operated Production (boepd)</b>        | 196,861 | 209,738 | -6%          | 197,039 | 203,703   |
| Rajasthan   | 166,943 | 172,224 | -3%          | 167,650 | 169,609   |
| Ravva   | 19,637  | 28,556  | -31%         | 19,058  | 23,845    |
| Cambay  | 10,281  | 8,958   | 15%          | 10,331  | 10,249    |
| <b>Average Daily Working Interest Production (boepd)</b>      | 125,391 | 130,565 | -4%          | 125,775 | 128,191   |
| Rajasthan   | 116,860 | 120,557 | -3%          | 117,355 | 118,726   |
| Ravva   | 4,418   | 6,425   | -31%         | 4,288   | 5,365     |
| Cambay  | 4,113   | 3,583   | 15%          | 4,133   | 4,100     |
| <b>Total Oil and Gas (million boe)</b>                        |         |         |              |         |           |
| Oil & Gas- Gross  | 17.91   | 19.09   | -6%          | 17.93   | 74.56     |
| Oil & Gas-Working Interest                                    | 11.41   | 11.88   | -4%          | 11.45   | 46.92     |
| <b>Financials (In Rs. crore, except as stated)</b>            |         |         |              |         |           |
| Revenue   | 1,885   | 2,627   | -28%         | 1,717   | 8,626     |
| EBITDA  | 794     | 1,353   | -41%         | 538     | 3,567     |
| Average Oil Price Realization (\$ / bbl)                      | 38.0    | 56.0    | -32%         | 28.2    | 40.9      |
| Brent Price (\$/bbl)  | 46      | 62      | -26%         | 34      | 47        |

\* Including internal gas consumption

| Production (in '000 tonnes, or as stated)                       | Q1      |         |              | Q4     | Full Year |
|---|---------|---------|--------------|--------|-----------|
|   | FY 2017 | FY 2016 | % change YoY | FY2016 | FY 2016   |
| Mined metal content   | 127     | 232     | -45%         | 188    | 889       |
| <b>Refined Zinc – Total</b>                                     | 102     | 187     | -45%         | 154    | 759       |
| Refined Zinc – Integrated                                       | 101     | 187     | -46%         | 154    | 759       |
| Refined Zinc – Custom   | 1       | -       | -            | -      | -         |
| <b>Refined Lead - Total <sup>1</sup></b>                        | 25      | 31      | -20%         | 38     | 145       |
| Refined Lead – Integrated                                       | 25      | 27      | -11%         | 38     | 140       |
| Refined Lead – Custom   | -       | 3       | -            | 0      | 5         |
| <b>Refined Saleable Silver - Total (in tonnes) <sup>2</sup></b> | 89      | 75      | 18%          | 122    | 425       |
| Refined Saleable Silver - Integrated (in tonnes)                | 89      | 74      | 20%          | 122    | 422       |
| Refined Saleable Silver - Custom (in tonnes)                    | -       | 1       | -            | 0      | 3         |
| <b>Financials (In Rs. crore, except as stated)</b>              |         |         |              |        |           |
| Revenue   | 2,442   | 3,545   | -31%         | 3,045  | 13,795    |
| EBITDA  | 1,074   | 1,629   | -34%         | 1,282  | 6,497     |
| Zinc CoP without Royalty (Rs. /MT) <sup>3</sup>                 | 62,100  | 51,000  | 22%          | 58,000 | 52,600    |
| Zinc CoP without Royalty (\$/MT) <sup>3</sup>                   | 928     | 802     | 16%          | 860    | 804       |
| Zinc CoP with Royalty (\$/MT) <sup>3</sup>                      | 1,178   | 1,170   | 1%           | 1,078  | 1,045     |
| Zinc LME Price (\$/MT)  | 1,918   | 2,190   | -12%         | 1,679  | 1,829     |
| Lead LME Price (\$/MT)  | 1,719   | 1,942   | -11%         | 1,744  | 1,768     |
| Silver LBMA Price (\$/oz)                                       | 16.8    | 16.4    | 2%           | 14.9   | 15.2      |

1. Excludes captive consumption of tonnes in , 1084 Q1 FY 2017 vs 2,184 tonnes in Q1 FY 2016 & 908 tonnes in Q4 FY 2016
2. Excludes captive consumption of 5.5MT in Q1 FY 2017 and 11.3 MT in Q1 FY 2016 & 4.7 MT in Q4 FY 2016
3. The COP numbers are after adjusting for deferred mining expenses under Ind-AS. Without this adjustment, Zinc CoP per MT would have been Rs. 76,400 (\$1,142) as compared with Rs. 51,000 (\$802) in Q1 FY 2016 and Rs. 58,000 (\$860) in Q4 FY 2016

| Production (in'000 tonnes, or as stated)           | Q1      |         |              | Q4     | Full Year |
|--|---------|---------|--------------|--------|-----------|
|  | FY 2017 | FY 2016 | % change YoY | FY2016 | FY 2016   |
| Refined Zinc – Skorpion                            | 24      | 26      | -8%          | 27     | 82        |
| Mined metal content- BMM                           | 19      | 15      | 28%          | 15     | 63        |
| Mined metal content- Lisheen                       | -       | 29      | -            | -      | 81        |
| Total  | 43      | 70      | -39%         | 42     | 226       |
| <b>Financials (In Rs. Crore, except as stated)</b> |         |         |              |        |           |
| Revenue  | 453     | 890     | -49%         | 562    | 2,563     |
| EBITDA   | 249     | 257     | -3%          | 83     | 473       |
| CoP – (\$/MT)                                      | 1,226   | 1,409   | -13%         | 1,242  | 1,431     |
| Zinc LME Price (\$/MT)                             | 1,918   | 2,190   | -12%         | 1,679  | 1,829     |
| Lead LME Price (\$/MT)                             | 1,719   | 1,942   | -11%         | 1,744  | 1,768     |

| Particulars (in'000 tonnes, or as stated)          | Q1      |         |              | Q4      | Full Year |
|--|---------|---------|--------------|---------|-----------|
|  | FY 2017 | FY 2016 | % change YoY | FY2016  | FY 2016   |
| <b>Alumina – Lanjigarh</b>                         | 275     | 269     | 2%           | 211     | 971       |
| <b>Total Aluminum Production</b>                   | 244     | 232     | 6%           | 226     | 923       |
| Jharsuguda-I                                       | 129     | 132     | -2%          | 123     | 516       |
| Jharsuguda-II <sup>1</sup>                         | 28      | 20      | 46%          | 19      | 76        |
| 245kt Korba-I                                      | 63      | 62      | 2%           | 64      | 257       |
| 325kt Korba-II <sup>2</sup>                        | 24      | 18      | 31%          | 19      | 75        |
| BALCO 270 MW (MU) <sup>3</sup>                     | -       | 99      | -            | -       | 169       |
| Jharsuguda 1800 MW (MU) <sup>4</sup>               | 355     | -       | -            | -       | -         |
| <b>Financials (In Rs. crore, except as stated)</b> |         |         |              |         |           |
| Revenue  | 2,758   | 2,733   | 1%           | 2,861   | 11,091    |
| EBITDA – BALCO                                     | 64      | -167    | -138%        | 92      | -96       |
| EBITDA – Vedanta Aluminium                         | 202     | 178     | 31%          | 268     | 761       |
| Alumina CoP – Lanjigarh (\$/MT)                    | 292     | 340     | -14%         | 297     | 315       |
| Alumina CoP – Lanjigarh (Rs. /MT)                  | 19,600  | 21,600  | -9%          | 20,100  | 20,600    |
| Aluminium CoP – (\$/MT)                            | 1,476   | 1,689   | -13%         | 1,431   | 1,572     |
| Aluminium CoP – (Rs. /MT)                          | 98,800  | 107,200 | -8%          | 96,600  | 102,900   |
| Aluminium CoP – Jharsuguda (\$/MT)                 | 1,459   | 1,597   | -9%          | 1,397   | 1,519     |
| Aluminium CoP – Jharsuguda(Rs. /MT)                | 97,700  | 101,400 | -4%          | 94,300  | 99,400    |
| Aluminum CoP – BALCO (\$/MT)                       | 1,504   | 1,837   | -18%         | 1,489   | 1,659     |
| Aluminium CoP – BALCO (Rs. /MT)                    | 100,700 | 116,700 | -14%         | 100,500 | 108,600   |
| Aluminum LME Price (\$/MT)                         | 1,572   | 1,765   | -11%         | 1,516   | 1,590     |

1. Including trial run production of 13kt in Q1 FY2017 and 20kt in Q1 FY2016

2. Including trial run production of 6kt in Q1 FY2017

3. BALCO 270 MW has been moved from Power to the Aluminium segment from 1<sup>st</sup> April 2016 and prior period sales and EBITDA numbers continued to be reported in Power segment

4. Jharsuguda 1,800 MW has been moved from Power to the Aluminium segment from 1<sup>st</sup> April 2016 and prior period sales and EBITDA numbers continued to be reported in Power segment. These are surplus power sales

| Particulars (in million units)                             | Q1      |         |              | Q4     | Full Year |
|--|---------|---------|--------------|--------|-----------|
|  | FY 2017 | FY 2016 | % change YoY | FY2016 | FY 2016   |
| Total Power Sales  | 3,010   | 3,070   | -2%          | 3,391  | 12,121    |
| Jharsuguda 600 MW(FY2016 nos are for 2400 MW) <sup>2</sup> | 892     | 2,266   | NM           | 1,906  | 7,319     |
| BALCO 270 MW <sup>3</sup>                                  | -       | 99      | -100%        | -      | 169       |
| BALCO 600 MW <sup>1</sup>                                  | 607     |         |              | 499    | 1,025     |
| MALCO  | 90      | 193     | -53%         | 56     | 402       |
| HZL Wind Power   | 148     | 127     | 17%          | 61     | 414       |
| TSPL   | 1,272   | 384     | 231%         | 869    | 2,792     |
| <b>Financials (in Rs. crore except as stated)</b>          |         |         |              |        |           |
| Revenue  | 1,182   | 1,086   | 9%           | 1,303  | 4,655     |
| EBITDA   | 343     | 277     | 24%          | 407    | 1,299     |
| Average Cost of Generation(Rs. /unit)*                     | 2.02    | 2.20    | -8%          | 1.95   | 2.15      |
| Average Realization (Rs. /unit)*                           | 2.79    | 3.03    | -8%          | 2.55   | 2.91      |
| Jharsuguda Cost of Generation (Rs. /unit)                  | 1.92    | 2.09    | -8%          | 1.87   | 2.09      |
| Jharsuguda Average Realization (Rs. /unit)                 | 2.29    | 2.75    | -17%         | 2.27   | 2.63      |

\* Excluding TSPL

1. 87 million units in Q1 FY2016 consumed captively

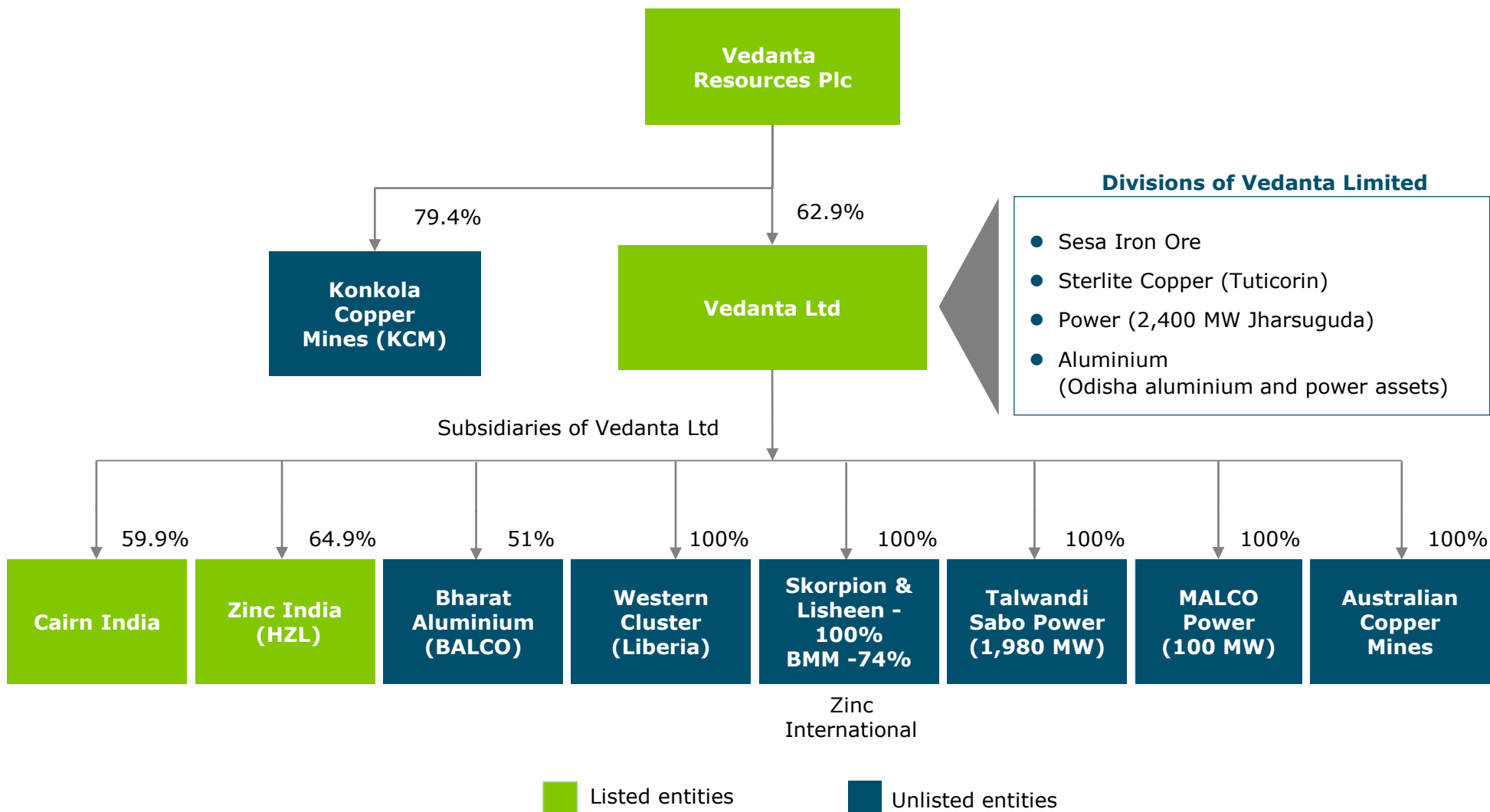
2. Jharsuguda 1,800 MW has been moved from Power to the Aluminium segment from 1<sup>st</sup> April 2016 and prior period sales and EBITDA numbers continued to be reported in Power segment

3. BALCO 270 MW has been moved from Power to the Aluminium segment from 1<sup>st</sup> April 2016 and prior period sales and EBITDA numbers continued to be reported in Power segment

| Particulars <i>(in million dry metric tonnes, or as stated)</i> | Q1      |         |              | Q4     | Full Year |
|---|---------|---------|--------------|--------|-----------|
|   | FY 2017 | FY 2016 | % change YoY | FY2016 | FY 2016   |
| <b>Sales</b>  | 2.6     | 0.5     | NM           | 2.6    | 5.3       |
| Goa   | 2.1     | -       | -            | 1.6    | 2.2       |
| Karnataka   | 0.5     | 0.5     | 1%           | 1.0    | 3.1       |
| <b>Production of Saleable Ore</b>                               | 3.2     | 0.2     | NM           | 2.8    | 5.2       |
| Goa   | 2.4     | -       | -            | 1.9    | 2.2       |
| Karnataka   | 0.8     | 0.2     | NM           | 0.9    | 3.0       |
| <b>Production ('000 tonnes)</b>                                 |         |         |              |        |           |
| Pig Iron  | 181     | 170     | 7%           | 188    | 654       |
| <b>Financials <i>(In Rs. crore, except as stated)</i></b>       |         |         |              |        |           |
| Revenue   | 970     | 479     | 102%         | 869    | 2,292     |
| EBITDA  | 373     | 66      | -            | 264    | 402       |

| Production (in '000 tonnes, or as stated)          | Q1      |         |              | Q4     | Full Year |
|--|---------|---------|--------------|--------|-----------|
|  | FY 2017 | FY 2016 | % change YoY | FY2016 | FY 2016   |
| Copper - Mined metal content                       | -       | -       |              | -      | -         |
| Copper - Cathodes                                  | 100     | 98      | 2%           | 102    | 384       |
| Tuticorin power sales (million units)              | 60      | 175     | -66%         | 68     | 402       |
| <b>Financials (In Rs. crore, except as stated)</b> |         |         |              |        |           |
| Revenue  | 4,654   | 5,571   | -16%         | 5,466  | 20,909    |
| EBITDA   | 441     | 523     | -16%         | 536    | 2,205     |
| Net CoP – cathode (US¢/lb)                         | 5.9     | 2.5     | 137%         | 3.4    | 3.2       |
| Tc/Rc (US¢/lb)                                     | 22.9    | 22.9    | 0%           | 24.8   | 24.1      |
| Copper LME Price (\$/MT)                           | 4,729   | 6,043   | -22%         | 4,672  | 5,211     |





Notes: Shareholding based on basic shares outstanding as on 30 June 2016