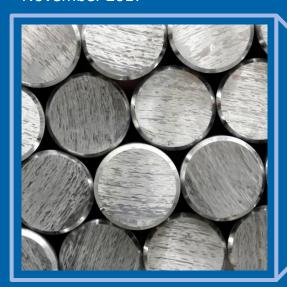


## **Vedanta Limited**

**Investor Presentation** 

November 2017





**Elements for a Sustainable Future** 

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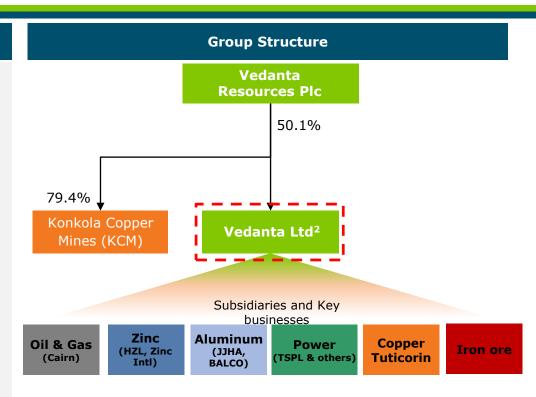
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## **Vedanta - A world-class natural resources powerhouse**



#### **Overview**

- World's 6<sup>th</sup> largest diversified resources company and the largest in India
- Only global player with significant operations, expertise and majority sales in the Indian market – the fastest growing G-20 economy¹
- Part of India's premier index the Nifty 50 and also listed in NYSE (ADR)

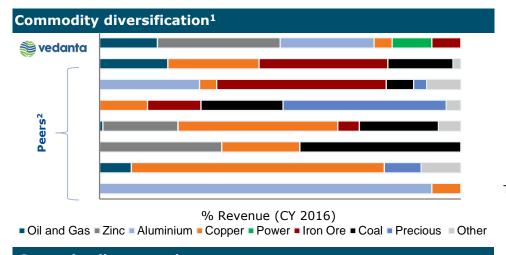


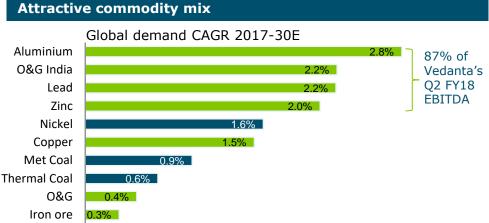
As per Moody's

<sup>2.</sup> Divisions of Vedanta Ltd include: Sesa Iron Ore, Sterlite Copper (Tuticorin), Power (600 MW Jharsuguda), Cairn Oil & Gas, Aluminium (Odisha aluminium and power assets)

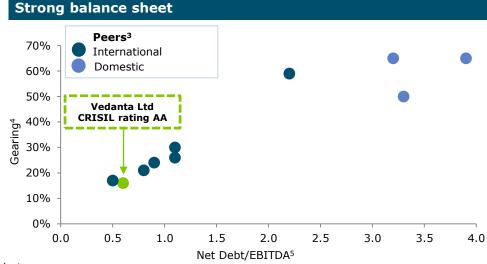
# A diversified resources company with an attractive commodity mix, market leading growth and strong balance sheet







#### Sector leading growth 9% 6.7% 2017E – 2019E Cu equiv. Production CAGR (1.0)%(3)% (1.6)%(2.5)% (6)% (4.8)%(5.1)%(6.0)%(9)% (8.7)%📚 vedanta Peers<sup>2</sup>



Source: Consensus, Company filings, Bloomberg, Wood Mackenzie, US EIA, CRU, Company data for Vedanta

Notes: 1. All companies have been calenderised to a Dec YE; Glencore revenue split accounts only for their 'Industrial activities'; Revenues from copper smelting for Vedanta Ltd and Hindalco are based on benchmark Tc/Rc

- 2. Peers include BHP Billiton, Rio Tinto, Anglo American, Glencore, Teck Resources, Freeport and Hindalco
- 3. Peers include BHP Billiton, Rio Tinto, Anglo American, Glencore, Teck Resources, Freeport, Hindalco, Tata Steel and JSW Steel
- 4. Gearing is calculated as Net debt divided by the sum of Net debt and Equity (based on reported numbers)
- 5. Net Debt as per last reported, EBITDA as per CY 2017 consensus estimates

## **Vedanta Businesses**



ZLS Zinc – India	<ul> <li>India's only miner of Zinc-Lead, and the world's second largest integrated Zinc- Lead producer</li> </ul>
ZLS Zinc Intl.	<ul> <li>Assets in South Africa and Namibia</li> <li>Gamsberg in South Africa is one of the world's largest undeveloped zinc deposits</li> </ul>
O&G Oil & Gas	<ul> <li>India's largest private sector oil producer</li> <li>Operates c. 30% of India's total oil production</li> <li>One of the lowest cost producers in the world with cost at sub \$6/boe</li> </ul>
Al Aluminium	<ul> <li>Largest capacity in India at 2.3mtpa</li> <li>Integrated capacity with captive power, with Alumina refinery</li> </ul>
Cu Copper – India	<ul> <li>India's largest Copper producer at 0.4mtpa, expanding to 0.8mtpa</li> <li>One of the world's most efficient custom smelters, operating consistently above 90% utilisation rate</li> </ul>
Fe Iron Ore	India's largest producer-exporter in the private sector
Pwr Power	<ul><li>9,000 MW fully operational, of which 40% is sold commercially</li><li>Poised to benefit from structural power shortage in India</li></ul>

## **Capital Allocation: Focus on Shareholder Returns**



## World class assets and operational excellence to deliver strong and sustainable cash flows

## Production growth and asset optimization

#### **Strong Shareholder Returns**

- Announced dividend policy at Vedanta Ltd
- pass through of HZL's regular dividend, plus
- minimum 30% pay out of Attributable PAT (ex HZL PAT)
- HZL dividend policy minimum 30% pay out

#### **Maintain Strong Balance Sheet**

- Continued reduction of gross debt
- Target for AA+ rating from current AA rating (CRISIL)

#### **Grow Existing Businesses**

- Focus on full capacity utilisation and production growth in existing businesses
- Any investment opportunities to clear hurdle rate of return



## Near Term Priority (FY18-20)

### Ramp up to Design Capacity

- Well-invested assets ramping up by FY2020 to deliver industry leading growth
- Continued focus on asset optimisation and cost efficiency

## Medium Term Priority (FY20+)

## Selectively pursue growth options

- High quality portfolio with attractive brownfield growth options
- Focused exploration strategy
- Participation in resource auctions in India with focus on returns

Deliver
superior
shareholders
returns with
continued
focus on
maintaining a
strong balance
sheet

## **Underpinned by**

- Disciplined capital allocation
- Opex and capex efficiency
- Sustainability

## **Strategic Framework: Ramp-up to Design Capacity**



		Near-term expansions	Remaining capex, \$mn¹	Total expanded capacity
5	Zinc India	<ul><li>Expansion to 1.2mt mined Zn-Pb metal</li><li>Silver to 750t</li></ul>	603	1.2mt Zn-Pb 750t Ag
	Zinc International	<ul> <li>Gamsberg project (250kt) and Skorpion pit extension</li> </ul>	270	400kt
	Oil & Gas	<ul> <li>Various projects at Rajasthan - EOR, tight oil, Gas</li> </ul>	764 <sup>2</sup>	275-300 kboepd
	Aluminium	Ramp-up of Jharsuguda II smelter	102	2.3mt aluminium
	Copper India	<ul> <li>Smelter expansion from 400 to 800kt</li> </ul>	576	800kt
	Iron ore	<ul> <li>Ramp-up to earlier permitted (pre-ban) capacity</li> </ul>	-	20.5mt

Unspent growth capex as of 30 Sep 2017
 Capex up to FY2020

## **Strategic Framework: Selectively Pursue Growth Options**



		Future growth options
5	Zinc India	<ul> <li>Expansion to Zn-Pb to 1.5mtpa</li> <li>Silver production of 1,000t +</li> </ul>
	Zinc Intl.	<ul><li>Gamsberg Phase 2 &amp; 3 (350kt incremental)</li><li>Swartberg (75kt)</li></ul>
	Oil & Gas	<ul><li>300-500 kboepd</li><li>Accompanied by continued exploration</li></ul>
aus Chil	Aluminium	Lanjigarh alumina refinery expansion (6mt)
	Iron ore	Jharkhand iron ore deposit (10mt)

# Cairn Oil & Gas: \$1bn Capex Initiated to Deliver 300 kboepd at \$5 per boe

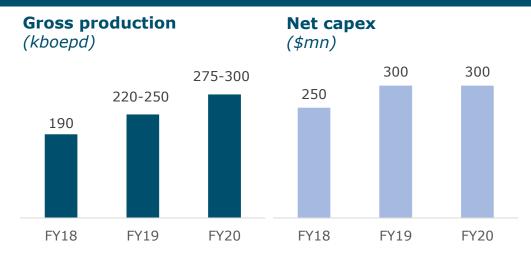


#### **Enhanced Execution Strategy**

- 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)
<b>Enhanced Oil Recovery</b>	40	155	19
Tight Oil & Gas Projects	137	640	45
Other Projects: - Mangala Infill (60 wells)	<b>41</b>	<b>290</b>	<b>53</b>
	22	140	32
<ul><li>Liquid Handling Upgrade</li><li>CB/OS-2 Infill (3 wells)</li></ul>	12	120	15
	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

## **Copper India: 400kt Expansion**



#### **Business Case**

- Robust future for copper in India:
  - Per capita copper consumption of 0.5kg in India vs
     1.9kg globally
  - Growth drivers: Urbanisation, transportation and renewables
- Operational capabilities:
  - Proven operational, technical 20 year track record
  - Operations positioned at lowest cost quartile
  - Best in class product quality
  - Capable of treating wide variety of concentrates
  - Leverage our strong relationship for further concentrate sourcing
  - Environment friendly operations

#### **Approach**

- Replicate best in class ISA SMELT technology
- Single EPC contractor
- Safe and sustainable operations

#### **Project Details**

- Incremental project cost of c.\$576mn, excluding cost of c.\$141mn already invested
  - Project on hold since 2010 pending statutory clearances
  - Required statutory approvals in place
- Execution timeline of 24 months



Tuticorin Copper Smelter

World's largest single location copper smelting complex post expansion

## Sustainable Development – Focused on Building a Zero Harm Culture



#### Safety

- Regrettably 2 fatalities from 2 incidents during H1 FY18
- High Potential (HIPO) Incident reduced by 46% in H1
- Reinvigorated Leadership Action Program initiated towards vision of Zero Harm, Zero Waste and Zero Discharge

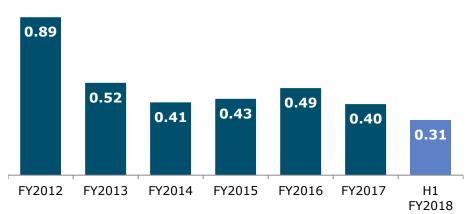
#### Environment

- Wall of ash dyke at Jharsuguda breached, spilling ash on adjacent land; most of the land belongs to the company
  - Third party assurance program to be launched on tailing/ ash management practices across the group
- Contaminated site management standard rolled out for the group

#### Social Licence to Operate

- Improved position at #15 in ranking given by Dow Jones
   Sustainability Index from #17 last year while HZL secured rank #11
- 95 Nandghars constructed benefitting 2500 children and
   1500 women; pilot complete and now in process to scale up

#### **LTIFR** – (per million man-hours worked)



Note: ICMM 2014 methodology adopted from FY2016 onwards



HZL's corporate office - Yashad Bhawan is Rajasthan's First CII-IGBC Certified Platinum Green Building





**Production Growth and Asset optimisation** 



**Optimise Capital Allocation and Maintain Strong Balance Sheet** 



**Protect and preserve our License to Operate** 



**Identify next generation of Resources** 



## **Business Review**





**Operational Excellence** 

## **Q2 FY2018 Results Highlights**



#### **Operations: Record volumes with ramp-up on track**

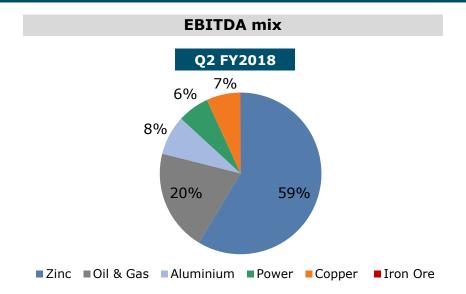
- High zinc-lead and record silver volume at Zinc India
- Highest quarterly production at BMM in last 4 years;
   Gamsberg on track for mid CY18 production
- Aluminium smelters continue ramp up, with record quarterly production and current run-rate of 1.6mtpa
- High PAF at TSPL of 87%, following the shutdown in Q1
- Record quarterly copper cathode production at Copper India

#### Financial: Strong free cash flow

- EBITDA at Rs. 5,776 crore, up 24% y-o-y at 35% margin
- Attributable PAT<sup>2</sup> at Rs 2,036 crore, 41% higher y-o-y
- Gross debt reduced by Rs. 11,466 crore in H1 FY2018<sup>1</sup>
- Strong FCF of Rs. 3,280 Cr in Q2
- Contribution to exchequer of c. Rs. 13,000 cr in H1 FY2018

Notes: 1. Excluding repayment of temporary borrowing by Zinc India & preference shares issued pursuant to the Cairn India merger in April

- 2. Before exceptional items and DDT
- 3. Excludes custom smelting at Copper and Zinc India operations

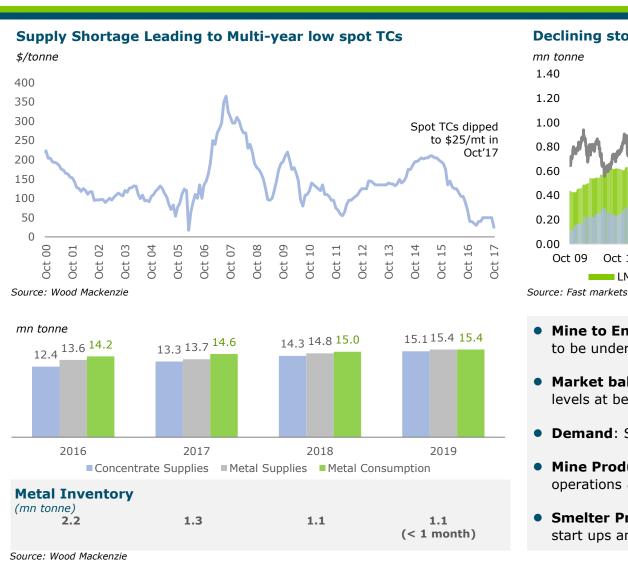


#### **Key Financials**

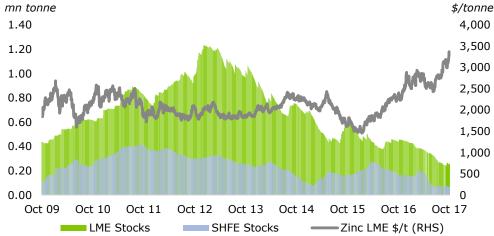
In Rs. Crore	Q2 FY18	Q2 FY17	Q1 FY18
EBITDA	5,776	4647	4,965
Attributable PAT <sup>2</sup>	2,036	1,442	1,525
EBITDA Margin <sup>3</sup>	35%	39%	36%
Divisional EBITDA			
Zinc - India	3,001	1,977	2,369
Zinc - Intl.	389	339	321
Oil & Gas	1,176	1,047	1,385
Iron Ore	(4)	105	40
Copper - India	392	371	213
Aluminium	457	397	528
Power	366	403	110
Others	(1)	8	(1)

#### **Zinc Market Overview**









- 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

#### **Zinc India**



#### Q2 FY2018 Results

- MIC at 219kt; refined zinc-lead production at 230kt
- Refined silver production at a record high of 140 tonnes
- CoP at \$984/t; impacted by high input commodity prices

#### **Projects – key highlights**

- Capacity expansion to 1.2mtpa MIC by FY2020 on track
- RAM U/G mine main shaft service winder commissioned, production winder installation completed; production from shaft to start in Q3 FY2019
- SK mine main shaft equipping commenced; production from shaft to start in Q3 FY2019
  - New mill of 1.5mtpa will take total milling capacity to 5.8mtpa, targeted commissioning in Q2 FY 2019
- Zawar mill de-bottlenecking completed to upgrade capacity to 2.7mtpa; order for second mill of 2mtpa capacity awarded, targeted commissioning by Q3 FY 2019
- Fumer project progressing as per schedule for completion by mid FY 2019

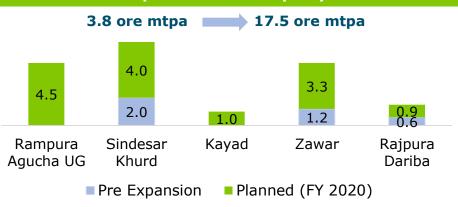
#### FY2018 Outlook

- FY2018 integrated Zn-Pb production c.950kt; silver 500t+
- FY 2018 CoP likely to be in the range of \$900-\$950/t due to significant increase in commodity prices as compared to last year



Long-haul drilling machine at work

Underground Mines Ore Capacity Expansion to facilitate MIC expansion to 1.2mtpa by FY 2020



#### Zinc International



#### Q2 FY2018 Results

- Total production at 42kt:
  - Skorpion at 23kt: highest in last 3 quarters following full mobilization of mine outsourcing
  - BMM at 20kt: highest quarterly production in the last 4 years, driven by better grades and higher recoveries
- CoP at \$1,470/t, lower q-o-q, driven by higher production and efficiency improvements

#### **Projects**

- Skorpion pit 112 extension
  - Waste mining fully ramped up in Q2; ore extraction from Q4 FY2018
  - Project to extend mine life by further 3 years and increase reserves by c.3mt (9.7% grade)
- Continued focus on exploration program across all the locations (>\$10mn)

#### Outlook

FY18 Production of c.160kt; CoP at c. \$1500/t

#### Significant progress at 250kt Gamsberg project

- On target for first production by mid CY2018, with ramp-up to its full mining capacity in the next 9-12 months
- On budget for a capex target of \$400mn
- First phase expected to have a mine life of 13 years
- CoP expected at \$1000-1150/t
- Excavation of 50% of waste rock of total pre-stripping requirement completed till date
- Construction works for infrastructure progressing well with all contractors (>1600 construction manpower) fully mobilised to site
- Site activities including water and power lines installation on schedule
- Manufacturing and supply of all equipment is on schedule with mills expected to be at site in November 2017







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

#### **Zinc International Outlook**



Indicative
Consolidated Outlook

	FY18	FY19	FY20
Prod (kt)	150-160	240-260	410-430
COP (\$/t)	<1,500	<1,200	<1,100

Gamsberg

250kt Production@ ~\$1000/t

#### Project on track and progressing as per plan

- First production by mid CY2018 and on budget for capex target of \$400mn
- FY19 production expected to be 100kt+, with ramp-up to 250kt by FY2020
- Targeted COP of \$1,000-1,150/t, placing ZI in 1st quartile of global cost curve

Skorpion & Black Mountain

>200kt Production

#### FY2018: Production of c.160kt @ < CoP of \$1,500/t

- Skorpion c.90kt & Black Mountain c.70kt
- Focus on further reducing COP through operational and cost initiatives

FY2019 & FY2020: Plan to increase production to c.200ktpa by ramping up Pit 112

• Skorpion c.130kt & Black Mountain c.70kt

Next phase of projects

#### **Currently progressing next phase of projects within pipeline**

- Gamsberg Phase 2: 4 mtpa RoM (200 kt)
- Swartberg Phase 2: 1.7 mtpa RoM (65-70 kt)

#### Cairn Oil & Gas



#### Q2 FY 2018 Results

- Gross average production at 180,955 boepd
  - Rajasthan production at 153,238 boepd
  - Offshore production at 27,718 boepd
- Commenced 15 wells infill drilling campaign at Mangala with first well brought in Sept 2017; 4 wells online currently
- Operating cost
  - RJ waterflood operating cost at \$ 4.4/boe, in line with previous quarter
  - RJ blended cost including EOR at \$6.3/boe, in line with previous quarter

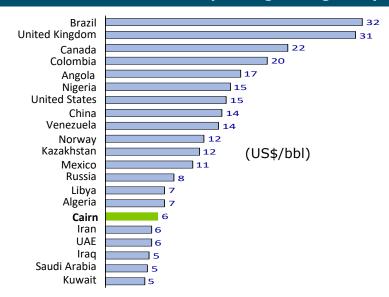
#### FY 2018 Outlook

- Rajasthan production expected at 165 kboepd; upside from growth projects to contribute from H2
- Net capex estimated at \$250mn
  - 90% for development including EOR, Tight oil and Tight gas projects
  - 10% for Exploration and Appraisal



Rajasthan: Mangala Processing Terminal

#### Cairn has one of the lowest operating costs globally



Source: For peer company Opex - Rystad Energy, Nov 2015

#### **Aluminium**



#### Q2 FY2018 Results

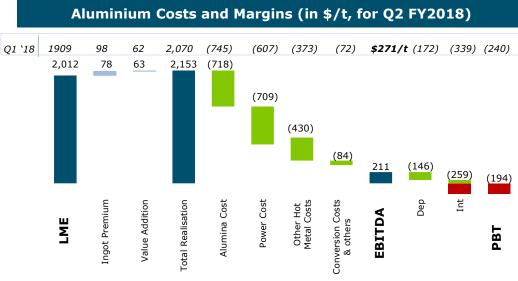
- Record Aluminium production of 401kt and Alumina 269kt
  - Aluminum CoP at \$1,857/t, higher q-o-q due to high power cost on account of coal shortages and ash dyke incident. High inflation on key inputs like caustic and carbon offset by lower imported Alumina cost
  - Alumina CoP at \$331/t vs. \$ 383/t for imported alumina

#### **Operations**

- 500kt Jharsuguda-I smelter: outage in April 2017 impacted 228 of the 608 pots; 121 pots re-started, full ramp-up by Q3 FY2018
- Ramp-up at 1.25mt Jharsuguda-II smelter:
  - 1st line: 301 pots operational, full ramp up by Q3 FY2018
  - 2<sup>nd</sup> line was fully capitalized in Q4 FY2017
  - 3<sup>rd</sup> line: 156 pots operational, full ramp up by Q4 FY2018
  - 4<sup>th</sup> line: Under evaluation
- Inspection by Pollution board of 2 closed power units in early November

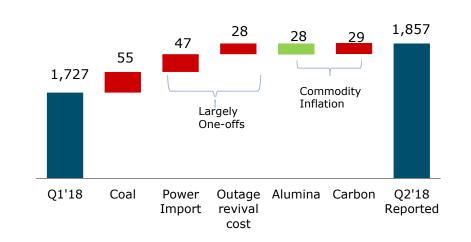
#### **FY2018 Outlook**

- Aluminium production 1.5 to 1.6mt (excl. trial run); Alumina production 1.3 to 1.4mt
- CoP estimated at \$1850-1900/t for Q3 FY2018 given higher input costs of coal and Alumina. Q4 CoP expected to be substantially lower with improvement in domestic coal situation and production ramp-up
- Working with Odisha State Government on bauxite allocation



Note: Q1 CoP numbers have been regrouped to make them comparable

#### Movements in Aluminium COP (in \$/t)





#### Talwandi Sabo Power Limited (TSPL)

- 1,980 MW Thermal Power Plant (3 units of 660 MW each)
- Plant availability of 87% in the quarter; Targeting availability of c. 75% for FY 2018
- 'Take or Pay' arrangement based on availability with EBITDA margin of c. Re.1/unit
  - Input coal cost is a pass through



#### **Other IPPs**

- BALCO 600MW: Q2 PLF of 27% on account of temporary coal shortage
- Jharsuguda 600MW: Low PLF of 7%. Impacted due to the shut down of the plant and temporary coal shortage.

#### **Coal Outlook - Aluminium CPPs**

- Coal linkage of 8 mtpa secured in Tranche 1 & 2
  - Curtailment of linkage due to coal unavailability
- We intend to deal with the current challenges in domestic coal supply by
  - Working towards better materialisation of linkages
  - Importing coal from international miners
  - Coal linkage Tranche III auction in progress
- We expect the challenges in domestic coal to be resolved by Q4

## **Iron Ore and Copper India**



#### Q2 FY2018 Results

#### **Iron Ore**

#### Volumes:

- Sales of 0.7mt and production of 1.2mt (Goa and Karnataka)
- Lower production and sales on a q-o-q basis due to monsoons
- Karnataka to achieve full allocation production in Q3
- FY2018 production allocation: 5.5mtpa at Goa & 2.3mtpa at Karnataka
  - Engaged with respective state governments for additional allocation

#### Realizations:

- Beneficiation and blending to increase grades and realisations at Goa
  - Saleable ore at Goa in H2 to be c. 3mt post beneficiation
- Karnataka had steady realizations of \$24/t in Q2
  - Working towards better realizations in the domestic market

#### **Copper India**

- Record production at 106kt on improved operational efficiencies
- Net cost of conversion lower q-o-q due to higher volumes
- FY2018 production estimated at 400kt
- 400ktpa smelter expansion under final evaluation



Iron Ore Mine in Goa



**Tuticorin Copper Smelter** 



# **Appendix**

## **Guidance**



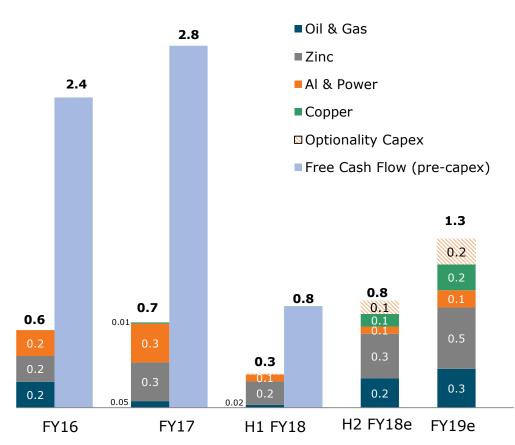
Segment	FY18e	Comments		
Zinc India	Zinc-Lead Integrated: 950kt Silver volume: +500 tonnes CoP (\$/t): \$900-950/t	Earlier guidance on CoP for FY2018 was marginally higher than FY17 CoP. Revised guidance due to input commodity inflation		
Zinc International	Zinc-Lead volume: c.160kt CoP: c.\$1,500/t	Gamsberg expected CoP: \$1000-1,150		
Oil & Gas	RJ Gross Volume: 165kboepd Ravva Gross volume: 16kboepd Cambay Gross volume: 10kboepd			
Aluminium	Alumina: 1.3-1.4mt Aluminium: 1.5-1.6mt (excl. trial-run) Aluminium CoP: \$1,850-1,900/t for Q3 FY2018 We expect Q4 CoP will be substantially lower with improvement in domestic coal situation and production ramp-up	Earlier guidance on aluminium CoP for H2 FY2018 was \$1,575-1,600/t. Revised guidance due to higher input costs of coal and Alumina		
Power	TSPL plant availability: c. 75%	Earlier guidance for FY2018 plant availability was 70%+		
Iron Ore	5.5mtpa at Goa and 2.3mtpa at Karnataka	Engaged with respective State Governments for additional allocation		
Copper - India	Production: 400kt			

## **Optimising Capex to drive Cash Flow Generation**



- Prioritised capital to high-return, low-risk projects to maximize cash flows
- H1 Capex spent \$0.3bn, H2 FY 2017 expected at \$0.8bn
- Revised capex guidance to \$1.1bn for FY 2018
   (\$1.0bn+\$0.1bn optional capex) compared to original guidance of \$1.2bn (1bn+\$0.2bn optional capex)
  - \$0.3bn for Zinc India and \$0.2bn for Gamsberg
  - \$0.1bn for Aluminium and Power
  - \$0.3bn for O&G capex cycle to restart from H2
  - \$0.1bn for Copper 400ktpa smelter expansion
  - Optionality capex includes Lanjigarh refinery expansion

#### **Growth Capex Profile and Free Cash Flow pre capex - \$bn**



## **Entity Wise Cash and Debt**



(in Rs. crore)

Company	30 Sept 2017			30 June 2017			30 Sept 2016		
	Debt	Cash & LI	Net Debt	Debt	Cash & LI	Net Debt	Debt	Cash & LI	Net Debt
Vedanta Limited Standalone	38,232	12,375	25,857	42,711	16,698	26,013	41,285	2,114	39,171
Cairn India¹	NA	NA	NA	NA	NA	NA	0	24,339	(24,339)
Cairn India Holdings Limited <sup>2</sup>	3,554	6,562	(3,008)	4,155	6,759	(2,604)	NA	NA	NA
Zinc India	593	19,986	(19,393)	6,959	23,967	(17,009)	1,928	27,186	(25,258)
Zinc International	-	705	(705)	-	614	(614)	0	909	(909)
BALCO	4,647	82	4,565	4,765	102	4,663	5,521	22	5,499
Talwandi Sabo	8,055	294	7,761	8,029	70	7,960	7,643	56	7,587
Twin Star Mauritius Holdings Limited and Others <sup>3</sup>	717	202	515	723	108	615	10,417	207	10,210
Vedanta Limited Consolidated	55,798	40,206	15,592	67,342	48,318	19,024	66,794	54,833	11,961

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

- 1. Merged with Vedanta Limited with effect from April 2017.
- 2. Cairn India Holdings Limited is a subsidiary of Vedanta Limited which holds 50% of the share in the RJ Block
- 3. Others includes MALCO Energy, CMT, VGCB, Sesa Resources, Fujairah Gold, and Vedanta Limited's investment companies.

## **Strong Credit Profile and Balance Sheet at VEDL**



#### Maturity Profile of Term Debt (Rs.36,927 Crore) (as of 30<sup>th</sup> Sept 2017)



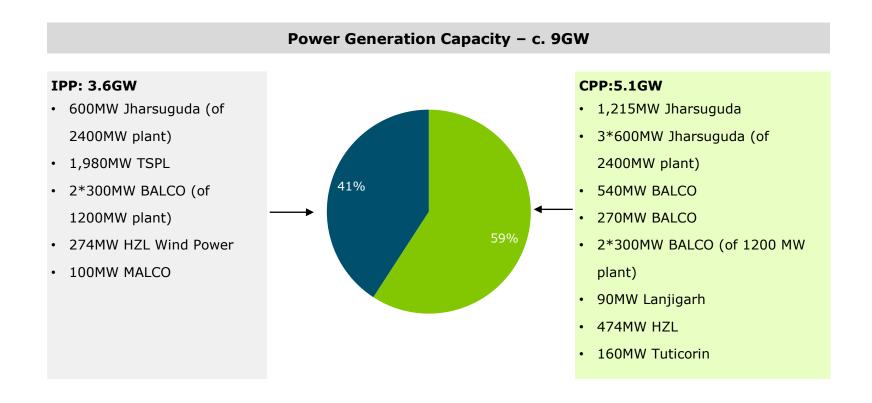
Term debt of Rs. 36,927 crore (Rs.22,463 cr at Standalone and Rs. 14,464 crore at Subsidiaries)
Maturity profile excludes working capital / short term of Rs.15,269 crore, HZL borrowing of Rs.593 crore and preference share of Rs. 3010 crore

#### Continued focus on gross debt reduction and cost optimization

- Long Term debt reduced by c. Rs.9200 crore during YTD FY2018
- > Tapped Rs.1900 crore through competitively priced capital market instruments to refinance high cost bank debt
- > Lowered the average cost of borrowing by c. 70-80 bps on bank debt portfolio due to improving credit profile
- Strong liquidity: Cash and liquid investments of Rs.40,206 crore and undrawn fund based line of credit of c. Rs.5,300 crore

## **Segment Summary – Power**

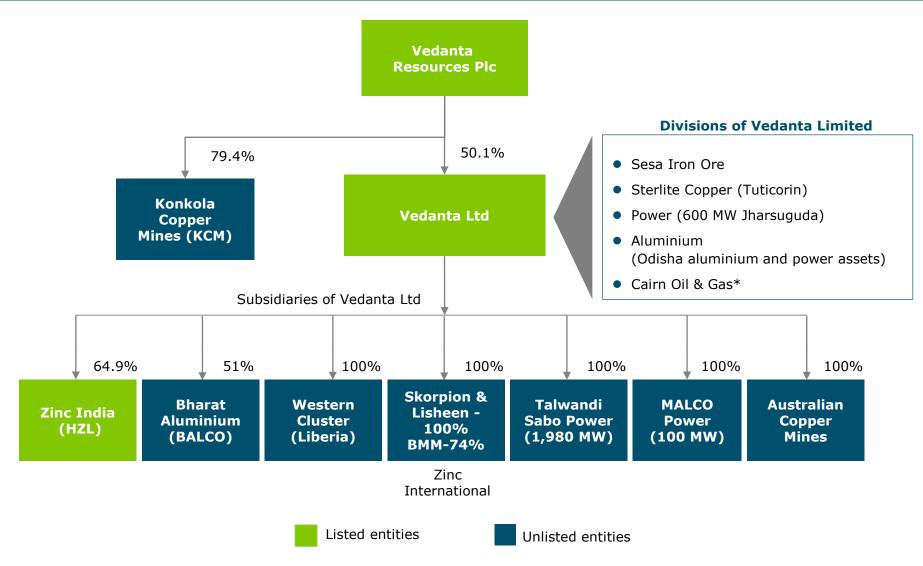




Note: MALCO 100MW (IPP) is under care and maintenance since 26th May 2017

## **Group Structure**





Note: Shareholding as on Sept 30, 2017

\*50% of the share in the RJ Block is held by a subsidiary of Vedanta Ltd