

## **FY2021 Earnings Presentation**



VEDANTA RESOURCES
LIMITED

18 June 2021

DESH KI ZAROORATON KE LIYE ATMANIRBHAR BHARAT KE LIYE

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## **Contents**



| Section                       | Presenter             | Page |
|-------------------------------|-----------------------|------|
| FY21 Review & Business Update | Sunil Duggal, CEO     |      |
| Financial Update              | Ajay Goel, Deputy CFO |      |
| Appendix                      |                       |      |





# FY2021 Review and Business Update

**Sunil Duggal** 

Group CEO & Chief Safety Officer

DESH KI ZAROORATON KE LIYE ATMANIRBHAR BHARAT KE LIYE

## **Ideally Positioned with Attractive Commodity Mix**

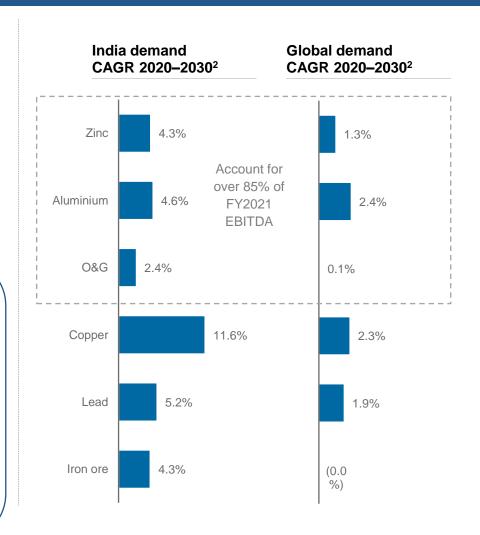


### Vedanta has unparalleled exposure to India, the world's fastest growing major economy with excellent diversified exposure

|     |                                   | 2021     | 2030     | CAGR | World CAGR |
|-----|-----------------------------------|----------|----------|------|------------|
| 弧   | GDP<br>(real terms)               | \$2.8trn | \$4.8trn | 6.3% | 3.1%       |
| (S) | GDP per<br>capita<br>(real terms) | \$7.8k   | \$12.5k  | 5.4% | 2.2%       |
| ŤiŤ | Population                        | 1.4bn    | 1.5bn    | 0.8% | 0.9%       |

#### **Supportive Government Policies:**

- Government focus on domestic commodity production
- National Infrastructure Pipeline: impetus to infrastructure
- Coal sector opened-up for commercial mining
- National Mineral policy (NMP). Hydrocarbon Exploration and Licensing Policy (HELP)
- Taxation Laws (Amendment) Act'19: favorable tax regime
- Insolvency and Bankruptcy code: Improved recovery rate of stressed assets



## COVID-19 Response: Supporting Communities, Employees & Partners





Vedanta Cares 1,000 bed initiative in 10 locations across India will add 10 ventilator-equipped beds, 90 oxygen-support beds in each location.



Global Standards to Manage Health & Hygiene at Workplace; 24\*7 health helpline for employees and their family members;



5x of gross salary insurance cover for employees to relieve anxiety and pressure



A series of health webinars & awareness programmes for employees & community alertness



Making arrangements for 5 lakh vaccines for employees, partners and their families and local communities, when available



Dedicated COVID Task force ensuring oxygen Procurement and bed facilities for employees

### **Helping Community**

- Aluminium, Cairn, HZL have added almost 1000 additional beds in existing hospitals.
- Tuticorin oxygen plant re-started for 4 months to produce oxygen (Capacity: 1,050 tonnes per day)
- HZL has also set up oxygen bottling plant to produce 500 cylinders per day
- HZL, ESL and Iron Ore businesses have provided 121 MT of oxygen and critical equipment's to hospitals in Rajasthan,
   Jharkhand & Goa

## **Key Highlights: FY 2021**



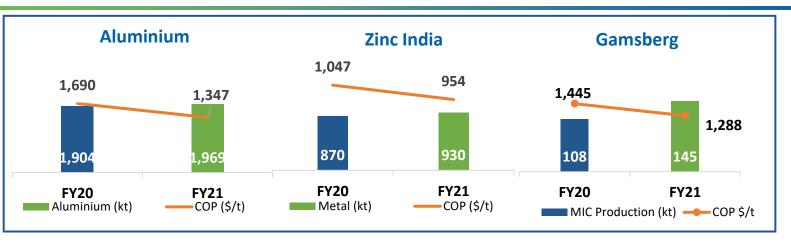
| Production                                       | Cost of Production        | R&R                         |
|--|---------------------------|-----------------------------|
| Records  | Lower                     | Advancing                   |
| At Zinc India, Aluminium & Zinc<br>International | Across all the businesses | Enhancing life and R&R base |

| Reliability                      | Technology & Digitalization               | COVID-19   |
|----------------------------------|---|--|
| Improved                         | On Track                                  | Highest safety<br>standards  |
| No major operational disruptions | Enabled operational excellence and growth | Ensuring well-being of employees /partners Contribution to Society |

## **Delivering Strong Operational Performance in Challenging times**









translating into record performance in FY 2021

#### **Record Production:**

- Ever highest Aluminium production of 1,969kt, with 2.1 Mtpa run rate achieved in Q4. On journey towards achieving potential of 2.3-2.4 Mtpa
- Zinc India: Ever highest Mined Metal production in Zinc India of 972kt
- Record Silver production of 706 tonnes
- Zinc International: Record Gamsberg production of 145kt, up 34%

#### **Proven cost leadership:**

- Lowest Aluminium COP in last 7 years at \$ 1,347/t, down 20%
- Zinc India: Lowest COP at \$954/t since UG transition, down 9%
- Zinc International: Gamsberg COP at \$1,288/t, down 11%

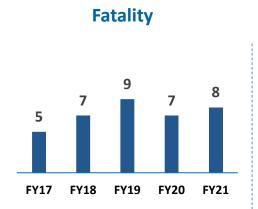
**Strong price recovery:** commodity prices rallied surpassing pre-covid levels

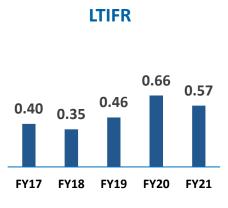
Strong EBITDA \$3800mn, up 27% yoy. Robust EBITDA margin\* of 37%

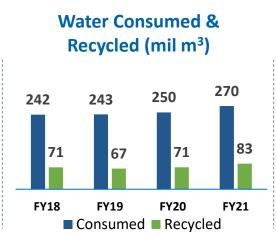
## **Heading Towards – Zero Harm, Zero Waste, Zero Discharge**

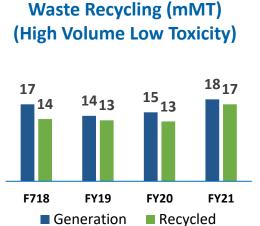


| Safety Program Update                |   |  |  |  |
|--------------------------------------|---|--|--|--|
| Focus on Learning and<br>Improvement | <ul> <li>Comprehensive focus on HSE at CEO and Group ExCo Level; Consequence Management program set up</li> <li>New Vedanta-wide Fatality Investigation Procedure</li> <li>Working groups focusing on critical risks – vehicles &amp; driving, LOTO &amp; PTW etc.</li> <li>Theme based learning of safety incidents</li> </ul> |  |  |  |
| Training                             | <ul> <li>ICAM training for improving investigation quality</li> <li>Cross business safety audit training conducted across businesses</li> <li>Comprehensive CHESS module launched</li> </ul>  |  |  |  |
| Business partner management          | <ul> <li>Standardization of business partner safety management system across Vedanta</li> <li>MIP &amp; categorization of BP</li> </ul>   |  |  |  |









## **ESG** is core to everything we do



| Achievements in FY 2021   | On track to Achieve Vedanta's Vision   |
|---|--|
| <ul> <li>Water Savings of 2.03 mm3</li> <li>1.86 million GJ Energy Savings</li> <li>Reduced GHG emissions by 13.0 million tonnes</li> <li>93.7 % of total waste utilized of the total waste generated (16.84 MT out of 17.97 MT)</li> </ul>   | <ul> <li>Zero discharge across all our sites</li> <li>20% reduction in GHG emission intensity by 202 from a 2012 baseline</li> <li>Review of site biodiversity risk across all location</li> </ul>   |
| <ul> <li>Contributed \$ 4.7bn to Exchequer in FY21</li> <li>Touching the lives of 42 million people through our various CSR programs</li> <li>Social Investment of \$45 million</li> <li>1000 Nand Ghars* constructed in FY21 (total 2300+ till 31<sup>st</sup> Mar 2021)</li> <li>Direct and indirect employment of 70,000+</li> </ul> | <ul> <li>Social Investment: no less than 2% of PAT</li> <li>Skilling to improve employability of 60,000 youth by 2025</li> <li>4,000 Nand Ghars to be constructed by 2022</li> </ul>   |
| <ul> <li>25% diversity in Vedanta Limited's Board and Group Management Committee</li> <li>Highest level of values and transparency; Strict adherence of code of conduct</li> <li>Board Sustainability Committee in place</li> <li>Executive Committee in place</li> </ul>   | <ul> <li>Achieve 33% female representation at Vedanta across all key decision-making bodies</li> <li>Ensuring right Management in Place with define deliverables in terms of Volume, Cost &amp; EBITDA and succession for each business</li> </ul> |

### **Climate Change Roadmap**





## Building Blocks to achieve Net-Zero Carbon Emissions

**Avoid** 

**Increase Renewable Energy Deployment** 

Minimize

**Align with Science Based Targets** 

Offset

Bridge gap by sequestration & carbon credits use

Disclose

**Annual TCFD Climate Change Report** 

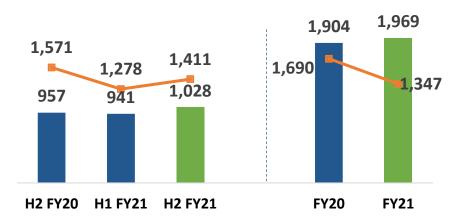
#### **FY2021 Milestones**

- 13.6 million tons of avoided GHG emissions since 2012
- Carbon KPIs part of ESOP structure
- Signed "Private Sector Commitment on Climate Change
- Release of 1<sup>st</sup> TCFD report; first in M&M space in India

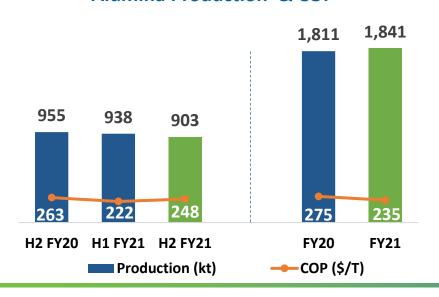
## **Aluminium: Success Continues; Growing Value in Dynamic World**



#### **Aluminium Production & COP**



#### **Alumina Production & COP**



#### **Performance Update**

#### **Half Year Performance:**

- Highest ever Aluminium production 1,028 kt\*, up 7% y-o-y
- Aluminium COP \$ 1,411/t, down 10% y-o-y
- Lanjigarh production 903 kt, down 5% y-o-y
- Lanjigarh COP at \$ 248/t, down 6% y-o-y

#### **Full Year Performance:**

- Highest ever Aluminium production 1,969 kt\*, up 3%
- Lowest Aluminium COP in last 7 years at \$ 1,347/t, down 20%
- Highest ever Alumina production 1,841 kt, up 2%
- Alumina COP at \$ 235/t, down 15%
- Jamkhani and Radhikapur (West) Coal Block: Coal Mine
   Development and Production Agreement signed with Govt. of
   India

## **Alumina: Expanding Lanjigarh on path to Vertical Integration**



### **Grow Into Among One Of The Largest Single-location Alumina Refineries In The World**



### **Strong Foundation for Expansion**

## Finest Technical Team

With demonstrated globally leading benchmarks in Refinery technical parameters

## Mix of global & local bauxite supplies

Odisha, home to India's finest bauxite reserves

Strategic partnership with global bauxite suppliers

#### **Outsourcing**

Global Project partners Worley (Design), L&T (Construction)

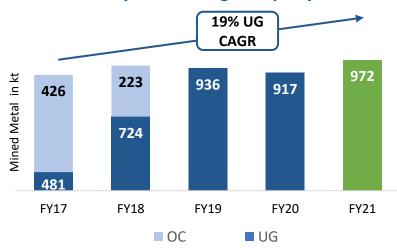
#### Zinc India: A Year Full of the Achievements



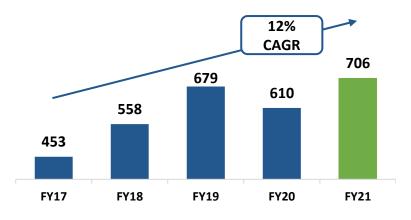
### **Performance Update**

- Highest ever Ore production of 15.5 million MT
- Highest ever Mined Metal Delivered of 972kt, up 6% primarily on account of higher ore production with overall grades
- Highest ever Metal production since underground transition of 930kt, up 7%
- Lowest ever Zinc COP excluding royalty since underground transition at \$954/t, lower by 9%
- Rampura Agucha is the largest# underground mine globally
- Highest ever Silver metal production at 706 tonnes, up
   16%
- Increasing share of Silver EBITDA contribution in portfolio to 1/3<sup>rd</sup>

## Sustained production post-transition to fully UG mining company



### **6<sup>th</sup> Largest Silver Producer Globally\***

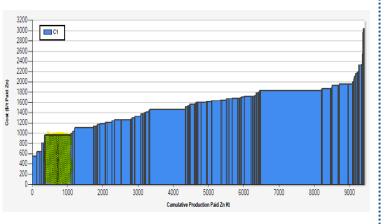


## **Zinc India: Strategy in Practice for Executing Growth Imperatives**



### **Strengthen Cost Leadership**

- Digitalization
- Autonomous vehicles
- Ancillary plants
- Power optimization

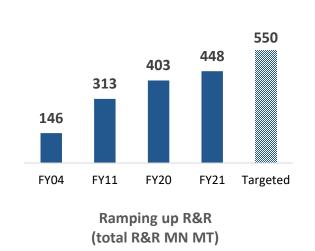


Lowest quartile in the cumulative cost curve

Source: WoodMackenzie

## Portfolio of Mines with Long Life

- Upgrading R&R through world class technologies
- Implemented high-dimensional analysis of ore-bodies at all mines
- Maintain a digital core library for elemental analysis, alteration zones & structural data



## Transition to a Circular Economy

- Focus on technology and innovation to
  - Reduce
  - Reuse
  - Recycle waste





0.5 mn tCO<sub>2</sub>e

Lesser GHG than 2017

Water positive





**5**x

**3**x

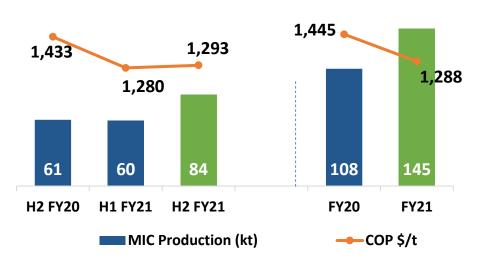
Increase in gainful utilization of waste

100% Responsible sourcing

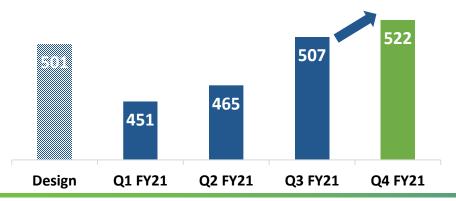
**Sustainability Goals 2025** 

## Zinc International: Gamsberg Positioning for Long Term Value Creation vedanta





## Consistent Improvement in Milling Throughput (tph)



#### **Performance Update**

#### **Half Year Performance:**

- Production at 84kt, up 40% from 60kt in H1 of FY2021.
   Best ever monthly production (17kt) achieved in Oct of H2.
- Highest daily production achieved in March at ~700 tonnes.
- Slightly higher H2 FY21 COP due to lower recoveries and exchange rate appreciation.
- Mining at Gamsberg is commenced in early Jan 2021 after full risk assessment and DMRE approval

#### **Full Year Performance:**

- Continued production ramp up to 145kt vs 108kt, up 34%
- COP at \$1,288/t vs \$1,445/t, down 11% through better recoveries and consumables cost efficiencies.

## Zinc International: Gamsberg Ramp up Plan



145kt FY21

## **Four Key Priorities Going Forward**

190-210kt FY22e

### **Mining Focused**











### Equipment Run-hours Improvement

Increase
Equipment
working hours by
30%



Expedite on-boarding and integration of 2 additional business partners

#### **Recovery Ramp up**

Improve recovery from ~75% to ~85%

## Increase Mill Throughput

Increase Mill and Crusher throughput. Target ore treatment of ~4.8 Mtpa

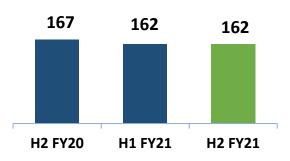
## Oil & Gas: Stable Operations, Focus on Delivery of Growth Projects



#### **Operations**

- Production: flat 162 kboepd in H2 FY21 vs H1 FY21
- Opex: Operating cost at \$ 8.3/boe in H2 FY21 vs \$7.0/boe in H1 FY21, increase primarily due to workover & maintenance activities

#### **Gross Production (kboepd)**



#### **Growth Projects**

- Gas Terminal: Ramp-up by ~15kboepd underway. Gas offtake impacted by Covid in Gujarat
- Aishwariya Barmer Hill: Facility commissioned; wells hook up in progress to increase volumes from ~8k to 11 kboepd
- MBA Infill & Polymer: Polymer injection ramped up to 3-5 kboepd
- Liquid Handling: Facility commissioned

#### **Upcoming Growth Projects:**

- Infill wells in Mangala, Bhaygam,
   RDG, ABH, NI and offshore fields
- Exploration wells in Rajasthan and offshore to augment resource base

#### **OALP**

- Drilling: 15 well exploration drilling program commenced across basins:
  - Rajasthan: Drilling preparation going on for the next 2 wells.
  - Assam: Drilling ongoing (well FW-001)
  - Cambay: Drilling ongoing (well HCL-2)

## Oil & Gas: Digitalisation & Partnering to Drive Efficiency & Recovery





## Digitalization to improve asset reliability



## Technology to accelerate recovery



Solution based Partner Approach

- Well interventions
- Process Controls
- Network optimization
- Predictive maintenance
- Cloud based applications

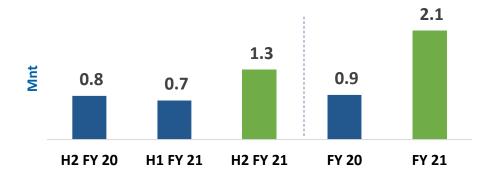
- Polymer & WaterManagement
- EOR ASP
- Advanced Reservoir
   Characterization

- Global EOI for solution &
   KPI driven Partnering
   model
- Focus on Well Services,
   Surface facilities, &
   Chemical Management

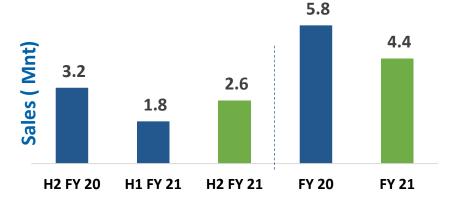
### **Iron ore: Resilient Results in Extraordinary Times**



## Capitalised opportunity of increased Global prices by increasing sales in Goa



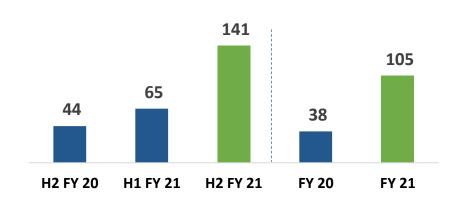
#### **Strong Performance at Karnataka**



#### **Value Added Business**

- Benefitted by domestic steel prices and International coal prices
- Margin improvement through efficiency enhancement project in our largest Blast
   Furnace and better by-product credit





## **ESL Steel: Continuing Improvement Journey**



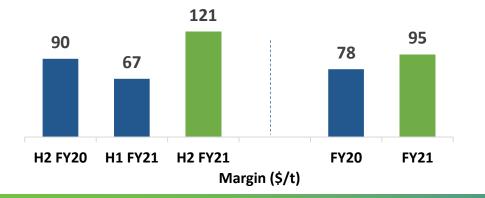
### **Performance Update**

#### **Half Year Performance:**

- Robust margin of \$121/t, up 81% compared to H1
- Saleable Production of 659kt, up 3% y-o-y and 25% vs H1
- Sales of 655kt, up 5% y-o-y and 14% vs. H1.

#### **Full Year Performance:**

- Saleable production of 1,187kt, down 4% due to covid lockdown
- Sales 1,231kt, up 4%
- Margin of \$95/t, up 23% on account of favorable macro economic factors



#### **Capacity Expansion Plan in Pipeline**

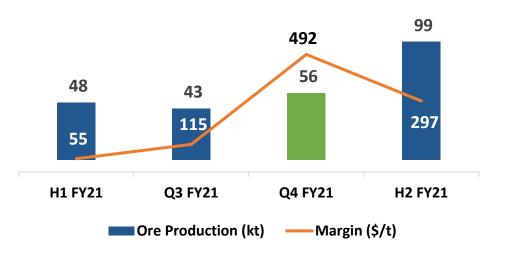
- Doubling Hot Metal Capacity from 1.5 to 3
   MTPA production
- New Horizontal Coke Oven with 0.5 MTPA capacity
- Installation of a new Pellet Plant of 2.2
   MTPA capacity Part of cost saving
- Capacity enhancement of existing DIP plant from present 0.22 to 0.4 MTPA.

## **FACOR: Complete Turnaround Performance**



#### **Delivering Stronger Growth and Margins**

- Ore Production in H2 increased by 105% vs H1
- Reduced ore procurement from third party to ZERO
- Fe chrome production increased by 13% in H2 vs H1
- Cost of Production reduced by 11% in H2 vs H1
- EBITDA Margin improved significantly in H2 vs H1

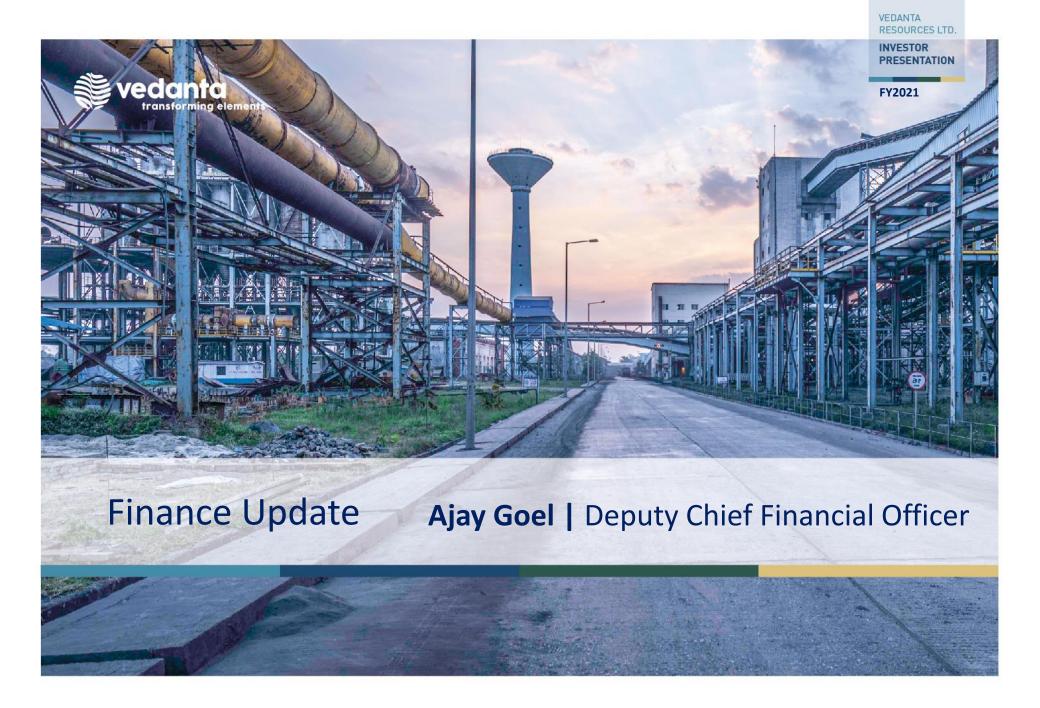


#### **FY22 Growth Plan**

 Targeting to increase Furnace production by 10% by optimizing operation & better process control

 Production capacity enhancement to 100 ktpa of Ferro Chrome eq through debottlenecking of Chrome Ore Mines & Beneficiation Plant

> Productivity enhancement by 5% through installation of waste heat recovery plant



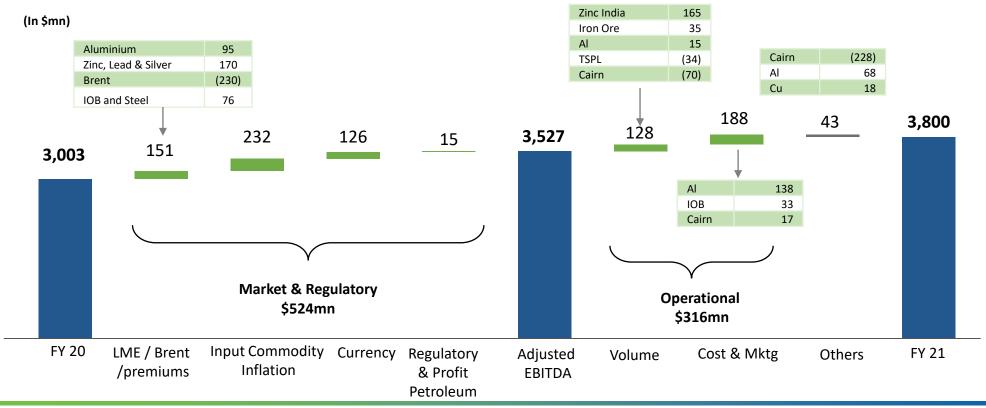
## **Financial snapshot**



| EBITDA       | ROCE#                 | EBTIDA Margin*          | Net Debt   |
|--------------|-----------------------|-------------------------|------------|
| \$ 3.8bn     | c.19%                 | 37%                     | \$ 10.7 bn |
| Up 27% y-o-y | Improved double digit | Industry leading margin |            |

<sup>\*</sup>Excludes custom smelting at Copper India and Zinc-India operations.

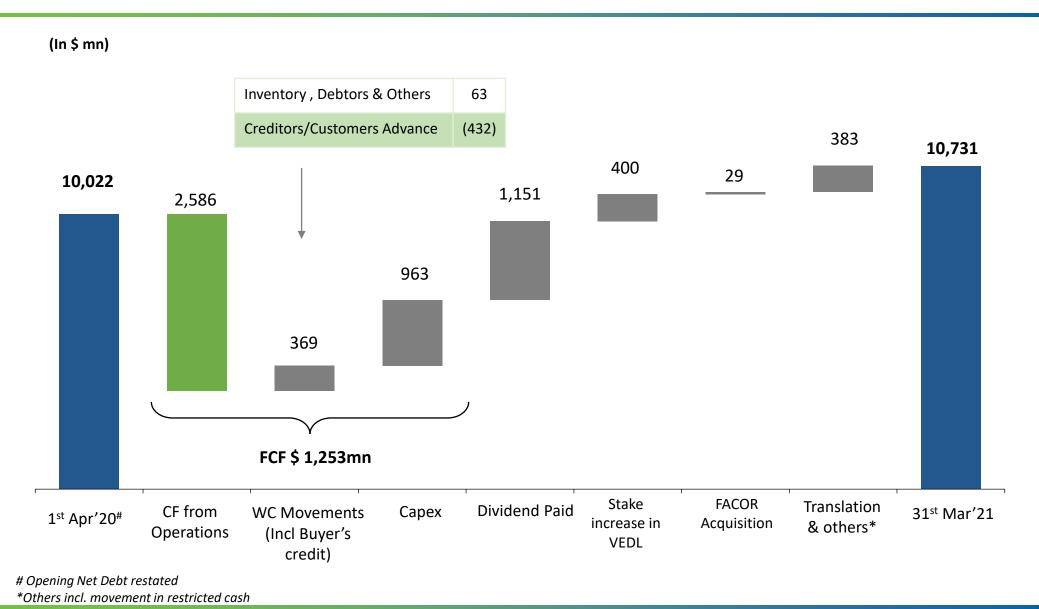
#### **EBITDA Bridge**



<sup>#</sup> ROCE is calculated as EBIT net of tax outflow divided by average capital employed.

#### **Net Debt for FY 2021**

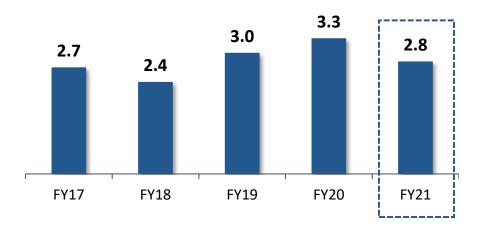




#### **Balance Sheet and Debt Breakdown**



#### Net Debt / EBITDA – maintained at low level



#### Net Interest

- Interest Income Returns ~5.3%.
- Interest Expense Maintained ~7.4%

#### **Debt Breakdown**

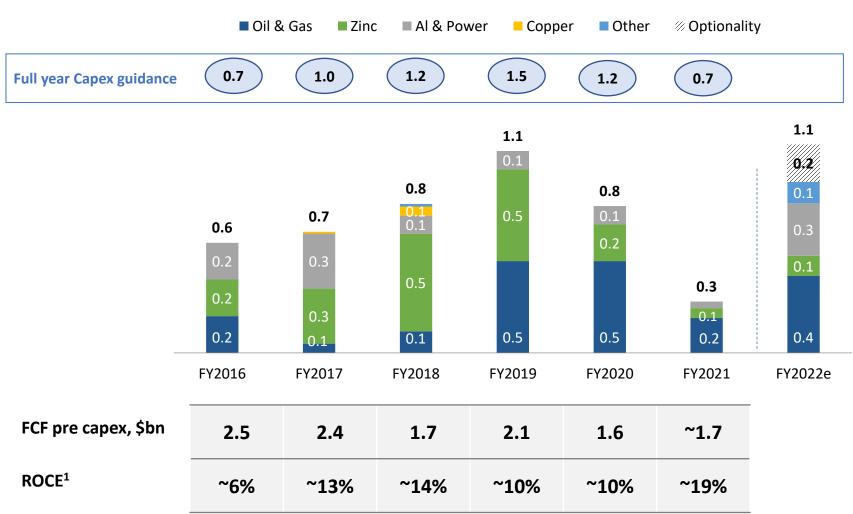
(as of 31st Mar 2021)

| Debt breakdown as of<br>31st Mar 2021 | (in \$bn) |
|---------------------------------------|-----------|
| Term debt                             | 15.9      |
| Working capital                       | 0.2       |
| Short term borrowing                  | 0.3       |
| Total consolidated debt               | 16.4      |
| Cash and Cash Equivalents             | 5.6       |
| Net Debt                              | 10.7      |
| Debt breakup (\$16.4bn)               |           |
| - INR Debt                            | 43%       |
| - USD / Foreign Currency Debt         | 57%       |

## **Capex and Returns Profile**



#### **Growth CAPEX Profile, \$bn**



<sup>1.</sup> ROCE is calculated as EBIT net of tax outflow divided by average capital employed





**Continue Focus on World Class ESG Performance** 



**Augment Our Reserves & Resources Base** 



**Operational Excellence and Cost Leadership** 



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



**Delivering on Growth Opportunities** 



## FY 2022 Guidance



| Segment            | Production and COP  |
|--------------------|---|
| Zinc India         | Mined Metal and Finished Metal: 1,025 – 1,050 Kt<br>Silver: c. 720 tonnes<br>COP: < \$1,000/t excluding royalty |
| Zinc International | BMM: ~70 – 80 Kt<br>Gamsberg: 190-210 kt<br>COP: \$1,100/t - \$1,200/t  |
| Oil & Gas          | Average Gross Volume: 175-185 kboepd;<br>Opex: c. \$8/boe   |
| Aluminium          | Alumina: 1.8 – 2.0 Mtpa<br>Aluminium: 2.1 - 2.2 Mtpa<br>COP*: \$ 1,475 – 1,575/t                                |
| Power              | TSPL plant availability: >80%   |
| Iron Ore           | Karnataka (WMT): >5 Mtpa Pig Iron: 850 - 900 Ktpa Goa: To be updated on re-start of operations                  |
| ESL                | Hot Metal – c 1.3 Mtpa  |
| Copper - India     | To be updated on re-start of operations   |

<sup>\*</sup>Hot Metal COP

#### **Income Statement**



#### **Depreciation & Amortization**

 Lower majorly on account of Oil & Gas assets impairment in Q4 FY 20.

#### **Finance Cost**

 Higher finance cost primarily on account of lower interest capitalisation.

#### **Investment income**

 Lower primarily on account of change in investment mix.

#### **Taxes**

Normalized ETR is 38% (excluding tax on dividend, tax on exceptional items of US\$ 18 mn, new tax regime impact of (US\$ 34)mn and Deferred Tax Asset of US\$ 420mn recognized on losses in ESL) compared to 52% in FY'20 on account of change in profit mix.

| In \$ mn  | FY'21   | FY'20   |
|---|---------|---------|
| Revenue from operations                               | 11,722  | 11,790  |
| EBITDA  | 3,800   | 3,003   |
| Depreciation & amortization                           | (1,099) | (1,412) |
| EBIT  | 2,701   | 1,591   |
| Finance Cost  | (1209)  | (1,179) |
| Investment Revenue                                    | 292     | 382     |
| Other gains and (losses) [Net]                        | 11      | (87)    |
| Special items - credit/(expense)                      | (112)   | (2,053) |
| Profit before tax and special items                   | 1,795   | 707     |
| Profit before tax                                     | 1,683   | (1,346) |
| Tax – before special items – credit/(expense)         | (316)   | (411)   |
| Tax charge – special items – credit/(expense)         | 18      | 781     |
| Profit After Taxes (PAT) from continuing operation    | 1,385   | (976)   |
| PAT before special items                              | 1,479   | 296     |
| Profit/(loss) after Taxes from discontinued operation | 91      | (771)   |
| PAT for the period                                    | 1,476   | (1,747) |
| Attributable profit / (loss)                          | 323     | (1,568) |
| Attributable profit (before special items)            | 303     | (202)   |

Note: Previous period figures have been regrouped or re-arranged wherever necessary to conform to the current period's presentation

## **Project Capex**



#### (In \$ mn)

| Capex in Progress   | Status  | Approved<br>Capex <sup>3</sup> | Spent up to<br>31 Mar'20 <sup>4</sup> | Spent in FY2021 <sup>4</sup> | Unspent as at 31 Mar 2021 <sup>5</sup> |
|---|---|--------------------------------|---------------------------------------|------------------------------|--|
| Cairn India <sup>1</sup> – Mangala Infill, Liquid handling,<br>Bhagyam & Aishwariya EOR, Tight Oil & Gas, OALP<br>etc |   | 2,522                          | 1,144                                 | 181                          | 1,197                                  |
| Aluminium Sector  |   |                                |                                       |                              |  |
| Jharsuguda 1.25mtpa smelter   | Line 3: Fully capitalised Line 4: Fully Capitalised Line 5: Fully capitalised Line 6: Phase-wise capitalisation | 2,990                          | 2,925                                 | 36                           | 29                                     |
| Zinc India  |   |                                |                                       |                              |  |
| Mine expansion  | Ongoing   | 2,076                          | 1,726                                 | 44                           | 306                                    |
| Others  |   | 261                            | 159                                   | 7                            | 95                                     |
| Zinc International  |   |                                |                                       |                              |  |
| Gamsberg Mining Project <sup>2</sup>  | Completed Capitalisation  | 400                            | 387                                   | 3                            | 10                                     |
| Copper India  |   |                                |                                       |                              |  |
| Tuticorin Smelter 400ktpa   | Project is under Force Majeure  | 717                            | 198                                   | -                            | 519                                    |
| Avanstrate  |   |                                |                                       |                              |  |
| Furnace Expansion and Cold Line Repair  |   | 74                             | 48                                    | 7                            | 20                                     |
| Capex Flexibility   |   |                                |                                       |                              |  |
| Metals and Mining   |   |                                |                                       |                              |  |
| Lanjigarh Refinery (Phase II) – 5mtpa   |   | 1,563                          | 909                                   | 18                           | 636                                    |
| Skorpion Refinery Conversion  | Currently deferred till Pit 112 extension   | 156                            | 14                                    | -                            | 142                                    |

Capex approved for Cairn represents Net capex, however Gross capex is \$3.4 bn.
 Capex approved for Gamsberg \$400mn excludes interest during construction.
 Is based on exchange rate at the time of approval.
 Is based on exchange rate at the time of incurrence

<sup>5.</sup> Unspent capex represents the difference between total capex approved and cumulative spend as on 31st Mar 2021.

## **Entity Wise Cash and Debt**



|   | 31 Mar2021 (\$ mn) |                   |          | 31 Mar 2020 (\$ mn) |                                |                       |
|---|--------------------|-------------------|----------|---------------------|--------------------------------|-----------------------|
| Company                                   | Debt               | Cash & Cash<br>Eq | Net Debt | Debt                | Cash & Cash<br>Eq <sup>5</sup> | Net Debt <sup>5</sup> |
| Vedanta Limited Standalone                | 4,388              | 798               | 3,590    | 5,053               | 662                            | 4,390                 |
| Cairn India Holdings Limited <sup>1</sup> | 383                | 191               | 192      | 494                 | 1,027                          | (533)                 |
| Zinc India                                | 979                | 3,044             | (2,064)  | 82                  | 2,972                          | (2,890)               |
| Zinc International                        | 30                 | 62                | (32)     | 54                  | 66                             | (12)                  |
| BALCO                                     | 432                | 155               | 277      | 597                 | 55                             | 541                   |
| Talwandi Sabo                             | 981                | 63                | 918      | 814                 | 18                             | 796                   |
| Vedanta Star Limited <sup>2</sup>         | -                  | -                 | -        | -                   | -                              | -                     |
| Others <sup>3</sup>                       | 573                | 137               | 436      | 653                 | 234                            | 419                   |
| Vedanta Limited Consolidated              | 7,766              | 4,450             | 3,316    | 7,746               | 5,034                          | 2,712                 |
| Vedanta PLC <sup>4</sup>                  | 8,611              | 1,196             | 7,415    | 7,349               | 38                             | 7,312                 |
| Total (\$ mn)                             | 16,377             | 5,646             | 10,731   | 15,095              | 5,073                          | 10,022                |

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

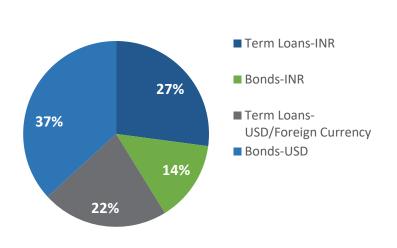
- 1. Cairn India Holdings Limited is a wholly owned subsidiary of Vedanta Limited which holds 50% of the group's share in the RJ Block
- 2. Vedanta Star limited, 100% subsidiary of VEDL which owns 96% (FY19: 90%) stake in ESL
- 3. Others includes MALCO Energy, CMT, VGCB, Electrosteel, Fujairah Gold, FACOR, Vedanta Limited's investment companies and ASI.
- 4. Includes investment companies.
- 5. Opening Net Debt and Cash & Cash Eq has been restated.

## **Funding Sources and Term Debt Maturities**

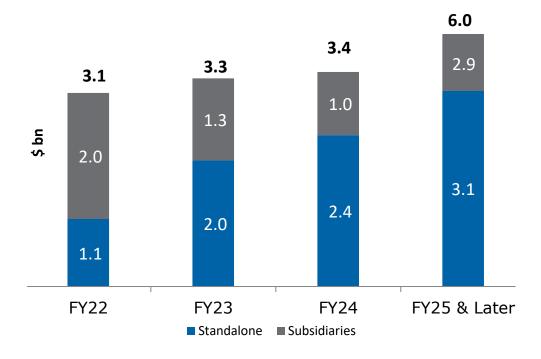


## **Diversified Funding Sources for Term Debt of \$15.9bn** (as at 31st Mar 2021)

**Term Debt Maturities - \$15.9 bn** (as at Mar 31, 2021)



Term debt of \$8.1bn at Standalone and \$7.8bn at Subsidiaries, total consolidated \$15.9bn



Note: USD–INR: ₹ 73.30 on 31st Mar 2021

## **Segment-wise Summary**



| Oil & Gas                               | FY21    | FY20    | Zinc-India  | FY21  | FY20  |
|---|---------|---------|---|-------|-------|
| Average Daily Gross Operated            |         |         | Mined Metal Content (kt)                              | 972   | 917   |
| Production (boepd)                      | 162,104 | 172,971 | Refined Zinc – Integrated (kt)                        | 715   | 688   |
| Rajasthan                               | 132,599 | 144,260 | Refined Lead – Integrated (kt) <sup>1</sup>           | 214   | 181   |
| Ravva                                   | 19,177  | 14,232  | Saleable Silver – Integrated (in tonnes) <sup>2</sup> | 706   | 610   |
| Cambay                                  | 10,329  | 14,479  | Average Zinc LME (\$/t)                               | 2,422 | 2,402 |
| Average Daily Working Interest          |         |         | Zinc CoP (\$/t) <sup>3</sup>                          | 954   | 1,047 |
| Production (boepd)                      | 101,706 | 110,459 | EBITDA (\$mn)   | 1,568 | 1,230 |
| Rajasthan                               | 92,819  | 100,982 |   |       |       |
| Ravva                                   | 4,315   | 3,202   |   |       |       |
| Cambay                                  | 4,131   | 5,792   | Zinc-International                                    | FY21  | FY20  |
| KG-ONN 2003/1                           | 441     | 483     | Mined Metal –Skorpion (kt)                            | 1     | 67    |
| Average Brent (\$/bbl)                  | 44.3    | 60.9    | Mined Metal – BMM (kt)                                | 58    | 66    |
| Average realizations Oil & gas (\$/boe) | 43.8    | 58.8    | Refined Zinc – Gamsberg (kt)                          | 145   | 108   |
| EBITDA (\$mn)                           | 438     | 1,032   | Total Zinc-Lead Metal (kt)                            | 203   | 241   |
|   |         |         | CoP (\$/t)  | 1,307 | 1,665 |
|   |         |         | EBITDA (\$mn)   | 120   | 54    |

<sup>1.</sup> Excludes captive consumption of 6,424 MT in FY'21 as compared to 7,088 MT in FY'20.

<sup>2.</sup> Excludes captive consumption of 34.6 MT in FY'21 as compared with 36.7 MT in FY'20.

<sup>3.</sup> Excludes Royalty.

## **Segment-wise Summary (cont'd)**



| Aluminium                            | FY21  | FY20  |
|--------------------------------------|-------|-------|
| Aluminium Production (kt)            | 1,969 | 1,904 |
| Jharsuguda I - 500kt                 | 533   | 543   |
| Jharsuguda II - 1,250kt <sup>1</sup> | 867   | 800   |
| Korba-I 245kt                        | 265   | 256   |
| Korba-II 325kt                       | 304   | 305   |
| Average Aluminium LME (\$/t)         | 1,805 | 1,749 |
| Aluminium COP (\$/t)                 | 1,347 | 1,690 |
| Jharsuguda                           | 1,304 | 1,686 |
| Balco                                | 1,450 | 1,700 |
| Alumina Production (kt)              | 1,841 | 1,811 |
| Alumina COP (\$/t)                   | 235   | 275   |
| EBITDA (\$mn)                        | 1,046 | 281   |

| Copper                       | FY21  | FY20  |
|------------------------------|-------|-------|
| Copper Cathodes – India (kt) | 101   | 77    |
| Average Copper LME (\$/t)    | 6,897 | 5,855 |
| EBITDA (\$mn)                | (21)  | (40)  |

## **Segment-wise Summary (cont'd)**



FY20

FY21

| Power  | FY21  | FY20  |
|--|-------|-------|
| Power Sales (million units)                        |       |       |
| Jharsuguda 600MW                                   | 2,835 | 776   |
| BALCO  | 1,596 | 1,726 |
| Talwandi Sabo 1980MW                               | 6,479 | 8,223 |
| HZL Wind Power                                     | 351   | 437   |
| Power - Realisation (Rs./unit) <sup>1</sup>        | 3.09  | 3.58  |
| Power - Cost of generation (Rs./unit) <sup>1</sup> | 2.34  | 2.49  |
| Talwandi Sabo – Realisation (Rs./unit)             | 2.97  | 3.73  |
| Talwandi Sabo – Cost of generation (Rs./unit)      | 2.10  | 2.68  |
| EBITDA (\$mn)                                      | 190   | 232   |

<sup>1.</sup> Average excludes TSPL

| Sales (dmt)   | 6.5                             | 6.6                                 |
|---|---------------------------------|-------------------------------------|
| Goa   | 2.1                             | 0.9                                 |
| Karnataka   | 4.4                             | 5.8                                 |
| Production (mt)                                       | 5.0                             | 4.4                                 |
| Goa   | 0.0                             | 0.0                                 |
| Karnataka   | 5.0                             | 4.4                                 |
| Average Net Sales Realizations (\$/t)                 | 43.5                            | 28.0                                |
| Pig iron - Production (kt)                            | 596                             | 681                                 |
| EBITDA (\$mn)   | 245                             | 117                                 |
|   | 2-13                            | 11,                                 |
|   | FY21                            | FY20                                |
|   |                                 |                                     |
| Steel   | FY21                            | FY20                                |
| Steel  Total Production                               | FY21<br>1,187                   | FY20<br>1,231                       |
| Steel  Total Production  Pig Iron                     | FY21<br>1,187<br>189            | <b>FY20 1,231</b> 167               |
| Steel  Total Production  Pig Iron  Billet             | <b>FY21 1,187</b> 189 165       | <b>FY20 1,231</b> 167  27           |
| Steel  Total Production  Pig Iron  Billet  TMT Bar    | <b>FY21 1,187</b> 189 165 338   | <b>FY20 1,231</b> 167 27 468        |
| Total Production  Pig Iron  Billet  TMT Bar  Wire Rod | FY21  1,187  189  165  338  361 | <b>FY20 1,231</b> 167  27  468  413 |

**Iron Ore** 

## **Sales Summary**



| Sales volume                    | FY21 | FY20 |
|---------------------------------|------|------|
| Zinc-India Sales                |      |      |
| Refined Zinc (kt)               | 724  | 680  |
| Refined Lead (kt)               | 216  | 180  |
| Total Zinc-Lead (kt)            | 940  | 860  |
| Silver (moz)                    | 735  | 586  |
| Zinc-International Sales        |      |      |
| Zinc Refined (kt)               | 1    | 67   |
| Zinc Concentrate (MIC)          | 174  | 137  |
| Total Zinc (Refined+Conc)       | 175  | 204  |
| Lead Concentrate (MIC)          | 28   | 38   |
| Total Zinc-Lead (kt)            | 203  | 241  |
| Aluminium Sales                 |      |      |
| Sales - Wire rods (kt)          | 328  | 326  |
| Sales - Rolled products (kt)    | 31   | 27   |
| Sales - Busbar and Billets (kt) | 308  | 372  |
| Total Value added products (kt) | 668  | 725  |
| Sales - Ingots (kt)             | 1325 | 1197 |
| Total Aluminium sales (kt)      | 1992 | 1922 |

| Sales volume           | FY21  | FY20  |
|------------------------|-------|-------|
| Iron-Ore Sales         |       |       |
| Goa (mn DMT)           | 2.1   | 0.9   |
| Karnataka (mn DMT)     | 4.4   | 5.8   |
| Total (mn DMT)         | 6.5   | 6.6   |
| Pig Iron (kt)          | 609   | 666   |
| Copper-India Sales     |       |       |
| Copper Cathodes (kt)   | 7.8   | 2.5   |
| Copper Rods (kt)       | 122   | 98    |
| Total Steel Sales (kt) | 1,231 | 1,179 |
| Pig Iron               | 192   | 158   |
| Billet                 | 158   | 22    |
| TMT Bar                | 356   | 454   |
| Wire Rod               | 375   | 402   |
| Ductile Iron Pipes     | 150   | 143   |

| Sales volume<br>Power Sales (mu)  | FY21   | FY20   |
|-----------------------------------|--------|--------|
| Jharsuguda 600 MW                 | 2,835  | 776    |
| TSPL                              | 6,479  | 8,223  |
| BALCO                             | 1,596  | 1,726  |
| HZL Wind power                    | 351    | 437    |
| Total sales                       | 11,261 | 11,162 |
| Power Realisations (INR/kWh)      |        |        |
| Jharsuguda 600 MW                 | 2.54   | 2.65   |
| TSPL <sup>2</sup>                 | 2.97   | 3.73   |
| Balco 600 MW                      | 3.85   | 3.88   |
| HZL Wind power                    | 4.00   | 4.05   |
| Average Realisations <sup>1</sup> | 3.09   | 3.58   |
| Power Costs (INR/kWh)             |        |        |
| Jharsuguda 600 MW                 | 2.48   | 3.85   |
| TSPL <sup>2</sup>                 | 2.10   | 2.68   |
| Balco 600 MW                      | 2.36   | 2.26   |
| HZL Wind power                    | 1.20   | 0.96   |
| Average costs <sup>1</sup>        | 2.34   | 2.49   |

<sup>1.</sup> Average excludes TSPL

<sup>2.</sup> Based on Availability

## **Currency and Commodity Sensitivities**



#### Foreign Currency - Impact of ₹1 depreciation in FX Rate

| Currency | Increase in EBITDA       |
|----------|--------------------------|
| INR/USD  | ~ US\$ 25 million / year |

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

| Commodity        | FY 2021<br>Average price | Full Year Impact on EBITDA (\$mn) |
|------------------|--------------------------|-----------------------------------|
| Oil (\$/bbl)     | 45                       | 68                                |
| Zinc (\$/t)      | 2,422                    | 193                               |
| Aluminium (\$/t) | 1,805                    | 311                               |
| Lead (\$/t)      | 1,868                    | 39                                |
| Silver (\$/oz)   | 23                       | 56                                |

### **Augment our Reserves and Resources Base**



#### Focused exploration to expand our reserves and resources base for support our future growth through

- Targeted and disciplined exploration
- Offsetting depletion and bringing on stream more discoveries
- Team aim to discover mineral and oil deposits in a safe and responsible way



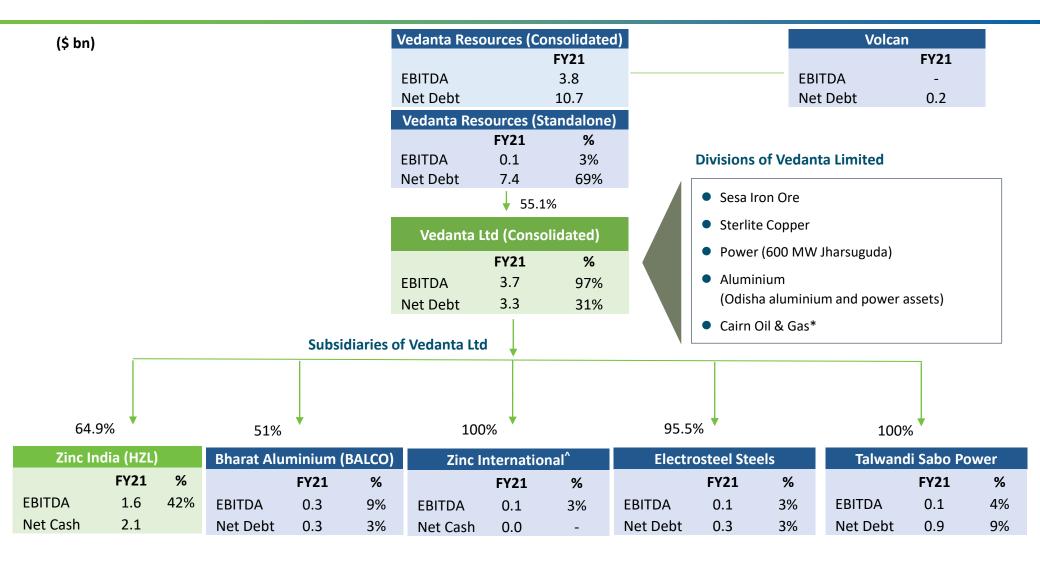
## **Awards & Recognition for FY21**



| Name of Award   | Category/ Recognition  | Recipient (Business Unit)                     |
|---|--|---|
| The Dow Jones Sustainability Index 2020 (Metals & Mining Sector)                  | Vedanta Ranked 2 <sup>nd</sup> in Asia Pacific, and<br>12 <sup>th</sup> Globally<br>HZL ranked 1st in Asia-Pacific and 2nd<br>Globally | Vedanta & Hindustan ZInc                      |
| 14th ICC Environment Excellence Award (2020)"                                     | In Large Enterprise category at 14 <sup>th</sup><br>Environment Partnership E-Summit   | ZSD – Hindustan Zinc                          |
| Golden Peacock Award for Sustainability   | Operational Excellence   | BALCO   |
| Best CSR Initiative   | Rajasthan Government   | Nand Ghar – Hindustan Zinc                    |
| "Sword of Honor" by British Safety Council (BSC)                                  | Outstanding HSE management system.   | Cairn Oil & Gas midstream                     |
| CII-ITC Sustainability Award 'Excellence in Corporate Social Responsibility'      | 'Excellence in Corporate Social<br>Responsibility'   | Cairn Oil and Gas; BALCO                      |
| India PR and Corporate Communication Awards (IPRCCA) Awards                       | Best Advocacy Campaign' category   | Cairn Oil and Gas; Aluminium & Power Business |
| National Energy Conservation Award by Bureau of Energy Efficiency, Govt. of India | Operational Excellence   | Vedanta Ltd., Jharsuguda                      |
| Frost & Sullivan Sustainability Awards  | "Challengers Award - Medium Business,<br>Process Sector" and "Safety Excellence<br>Award - 1st Runner Up".                             | Pantnagar Plant – Hindustan Zinc              |
| ICSI National Award for excellence in Corporate Governance                        | Corporate Governance   | TSPL  |
| CII – Centre for Digital Transformation   | Most innovative Best Practice Digital<br>Transformation Award  | Aluminium & Power – Jharsuguda                |

### **Group – Present Debt Structure**





Note: Shareholding as on Mar 31, 2021

Listed entities

Unlisted entities

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

<sup>^</sup>Skorpion 100%, BMM & Gamsberg 74%