

VEDANTA LIMITED INVESTOR PRESENTATION January 27, 2023

3QFY23 Earnings Presentation

> COMMUNITIES PLANET WORKPLACE

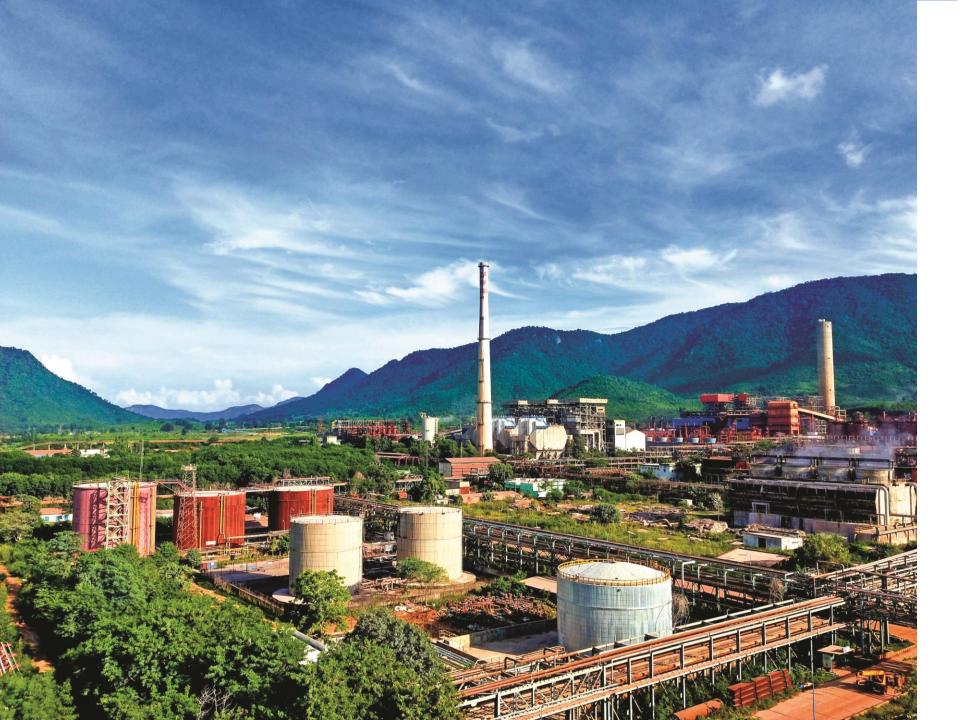
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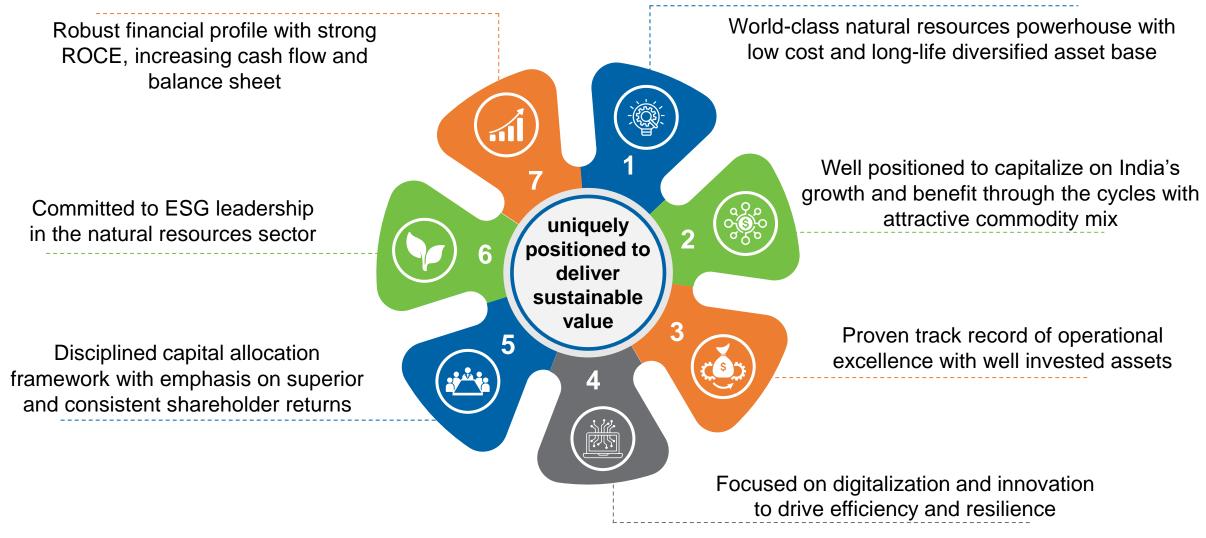


VEDANTA LIMITED INVESTOR PRESENTATION 3QFY23

> 3QFY23 Review and Business Update

> > Sunil Duggal Group CEO & Chief Safety Officer

## Vedanta is uniquely positioned to deliver sustainable value





## Vedanta is well positioned to capitalize on the momentum

## Macro outlook

- Improving commodity prices amidst
  - Balanced supply demand and low inventories
  - China's reopening post zero Covid policy, property market stimulus and front loading of infrastructure investments
- Robust India demand on resilient economy and government support led Capex
- Potential increase in commodities supply deficit over a medium to long term with -
  - Demand increase driven by de-carbonization focus led minerals intensive energy transition
  - Dearth of new supplies on muted exploration investment activities for new resources over the last few years

## Vedanta's levers to capitalize on the momentum



Cost optimization with improved linkage coal materialization and operational efficiencies



Volume growth and vertical integration to reduce market volatility impact and create value



Strong exposure to robust Indian markets



Proactive liability management, healthy free cash flow generation and working capital release through structural streamlining



Digitalization stage 2 aimed at delivering 5% EBITDA impact



# Strong quarterly operational and financial performance despite challenging macroeconomic environment



## ESG

- Significant improvement in ESG score of both Vedanta Limited and Hindustan Zinc (HZL) by various key external ESG rating agencies
- Board has approved plans for another ~941 MW RE power across group including HZL under group captive RE development program
- VAL released its first ever TCFD report
- VAL procured 390 million units of RE power
- Balco launched Biofuel trial for ladle heating and heavy equipment
- Highest ever quarterly Biomass firing at 22,806 tonnes
- Improved HVLT usage to 98%; Water recycling at 34%
- Introduced industry-leading EV Policy for employees to drive increased adoption of EVs, aiding India's green mobility push



Key businesses continue to deliver strong operating performance:

- Aluminium CoP lower by 12%QoQ; Commencement of Jamkhani coal mine in Dec'2022
- Zinc India refined metal production at 257kt, up 5%QoQ
- Gamsberg mined metal production run rate is steady at above 200KTPA
- Oil and Gas average gross production increased by 3%QoQ
- VAB production higher by 66% QoQ
- FACOR Quarterly Ferro Chrome production higher by 70% QoQ



- Revenue of ₹ 33,691 crore
- EBITDA of ₹ 7,100 crore; EBITDA margin of 24%
- Profit after Tax ₹ 3,092 crore, up 15%QoQ
- Net debt / EBITDA of 0.96x; maintained at low level
- Structural improvement in Gross Working Capital days by 8%QoQ, reduced Net Working Capital by ₹3,335 crores in 3QFY23
- Robust cash generation; FCF (pre capex) ₹ 6,504 crore
- Strong double-digit RoCE at ~23%
- Paid dividend of ₹17.5 per share in 3QFY23



TCFD: Task Force on Climate-related Financial Disclosures, 2. HVLT: High Volume Low Toxicity,
 VAL: Vedanta Aluminium Limited VAB: Value added business; RoCE: return on capital employed; NWC: Net Working capital

# **Steadily progressing on our repurposed ESG strategy: Pillar 1 – transforming communities**

Total Beneficiaries	9MFY23 CSR Spend <sup>1</sup>	Total Nandghars		
3.14+ mn	₹ 216+ crores	3,955		

## Areas of Focus in CSR



Healthcare
> 31 Initiatives



Drinking water and sanitation > 17 Initiatives

Children's well-being

and education

Empowerment

> 7 Initiatives

> 26 Initiatives

Women



Community Infrastructure 15 Initiatives



Environment protection & restoration > 5 Initiatives



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Agriculture and animal husbandry > 11 Initiatives

## **Key Initiatives of CSR**





Support: Ranthambore Nat. Park









1. Spend numbers are unaudited

## **Steadily progressing on our repurposed ESG strategy: Pillar 2 – transforming the planet**

Our aims	Key KPIs (UoM)	Baseline (FY21)	2030 Target	3Q Key strategic initiatives/outcomes
NET	Absolute GHG emissions <i>(TCO2e)</i>	60mn	45mn	<ul> <li>Procured ~ 390 Million unit of RE power in Aluminium BU in 3QFY23</li> <li>Biomass usage ~22,806 MT in 3QFY23 and 50,448 MT in 9MFY23</li> </ul>
Net carbon	GHG intensity (TCO2e/T of metal)	6.45	5.2 (2025)	<ul> <li>Board has approved plans for another ~941 MW RE power across group including HZL under group captive RE power development program</li> </ul>
neutrality by 2050 or soonerRenewables in operations (RE RTC, 4/4/)• La vel	<ul> <li>Launched Biodiesel pilot project at Balco for ladle preheating and heavy vehicles transport</li> <li>Completed 4 GHG reduction projects at ESL to result in annual GHG reduction of ~39,298 TCO2e</li> </ul>			
Achieving net water positivity by 2030	Water recycled (%)	31	Net Water Positive	<ul> <li>VZI BMM certified as water positive; Joins HZL, Cairn India and IOB*</li> <li>Working with UN-GCNI on Water Stewardship to improve stakeholder involvement in water conservation measure</li> </ul>
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Waste utilization (HVLT) (%)	94	Zero Legacy waste(2027)	<ul> <li>Biodiversity assessment of major Vedanta sites for 'No Net Loss' and 'Net Positive Impact' roadmap under progress</li> </ul>
In for a greener business model	R&D for new technologies	-	Ongoing	<ul> <li>Cairn signed MoU with Gujarat State Forest Department for development of 60 ha of Mangroves Forest (~50000 saplings) in coastal area of Surat.</li> <li>Val J signs MOU with Cement companies for SPL waste utilization</li> </ul>



**Vedanta Limited** 

Balco: Bharat Aluminium Company; RE: renewable energy, VZI: Vedanta Zinc International, BMM: Black Mountain Mines; UN-GCNI: UN Global Compact Network India; NNL: No Net Loss; NPI: Net Positive Impact; SPL: Spent Potline 3QFY23 Investor Presentation \* Excluding Liberia operations)

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Our aims	Key KPIs (UoM)	Baseline (FY21)	2030 Target	3Q Key strategic initiatives/ outcomes	
			Ongoing	<ul> <li>Conducted safety pause campaign across entire Vedanta sites to re- emphasize importance of workplace safety</li> </ul>	
Prioritizing safety	Fatal incidences (Number)	8	target- Zero Fatalities	<ul> <li>Rolled out Incident Management, Observation Management and Data Management Modules of 'Enablon'</li> </ul>	
and health of employees				<ul> <li>CRM module roll out for three major risk (VPI, WAH, Uncontrolled Energy Release) and implementation under progress</li> </ul>	
	Gender diversity		200/ women	<ul> <li>V-Lead phase 3: A batch of promising 120 young women has been identified and are being groomed and elevated to take on greater responsibilities in CXO positions</li> </ul>	
Promote gender parity, diversity and inclusivity	in organization (%)	11.2	20% women employees	<ul> <li>Top Emerging Leaders - Leadership Identification and Development Program - 130 Hi-Po talents were identified basis desktop shortlisting followed by Customized Online Leadership Psychometric Assessments</li> </ul>	
	Zero controversies on		Ongoing	<ul> <li>VEDL: Significant improvement in ESG rating by DJSI, MSCI and Sustainalytics; retained CDP B rating for "Climate change", CDP B rating for "Water security" on 1<sup>st</sup> time disclosures</li> </ul>	
Adhere to global business standards of corporate	corporate governance (Number)	0	target- Zero controversy	Zero	<ul> <li>HZL: ranked 3<sup>rd</sup> Globally and 1<sup>st</sup> in Asia-Pacific at DJSI metal and mining sector ranking; entered in leadership band with 'A-' rating for "Climate change" &amp; "Water security" in CDP'22</li> </ul>
governance	````			<ul> <li>Aluminium sector rolls out its 1<sup>st</sup> ever TCFD report (<u>refer the link</u>)</li> </ul>	

## **Steadily progressing on our repurposed ESG strategy: Pillar 3 – transforming the workplace**

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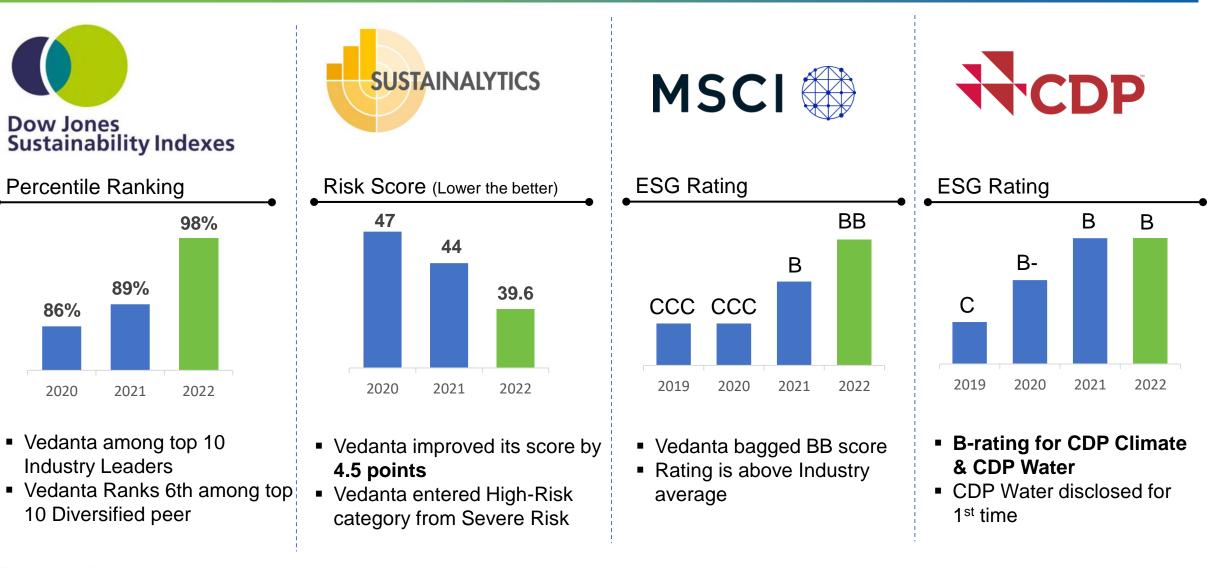
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DEI: Diversity, Equity and Inclusion; VPI: Vehicle Pedestrian Interaction; WAH: Work at Height; CRM: Critical Risk Management

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## ESG Ratings: significant improvement across key external ratings



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## Key ESG projects across Vedanta



**Green Copper BU**: Sterlite Copper **Aim 4:** Net Carbon neutral by 2050 or sooner

Work in progress on installation of 3400 T/Month FRHC furnace

# Reduction of lifecycle GHG emissions



#### Project Pancchi Function: HR

**Objective:** Uplift 1,000 young women by providing livelihood training and recruitment into Vedanta



#### Critical Risk Management BU: All BU Aim 7: Prioritizing safety and health

Critical Risk Management Module for 3 top risk roll out across BU's

Reduced MMI and Improved safety

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Spent Potline waste utilization

**Outcome:** MoU signed with

utilization of SPL (75 KTPA for

Cement companies for

**BU:** VAL Jharsuguda

3 years)

**Renewable Energy** 

BU: VZI Aim 4: Net zero carbon by 2050 or sooner

Agreement signed for supply of 10 MW solar power

Estimated Reduction of ~19,000 TCO<sub>2</sub>e/annum



Nature Based Solutions BU: Cairn India Aim 6: Greener Business Model

Signed MoU with Gujarat State Forest Department for 60 Hectors of mangroves restoration



**Outcome:** 3.2 MLD ZDS system erection to be commissioned in 4QFY23



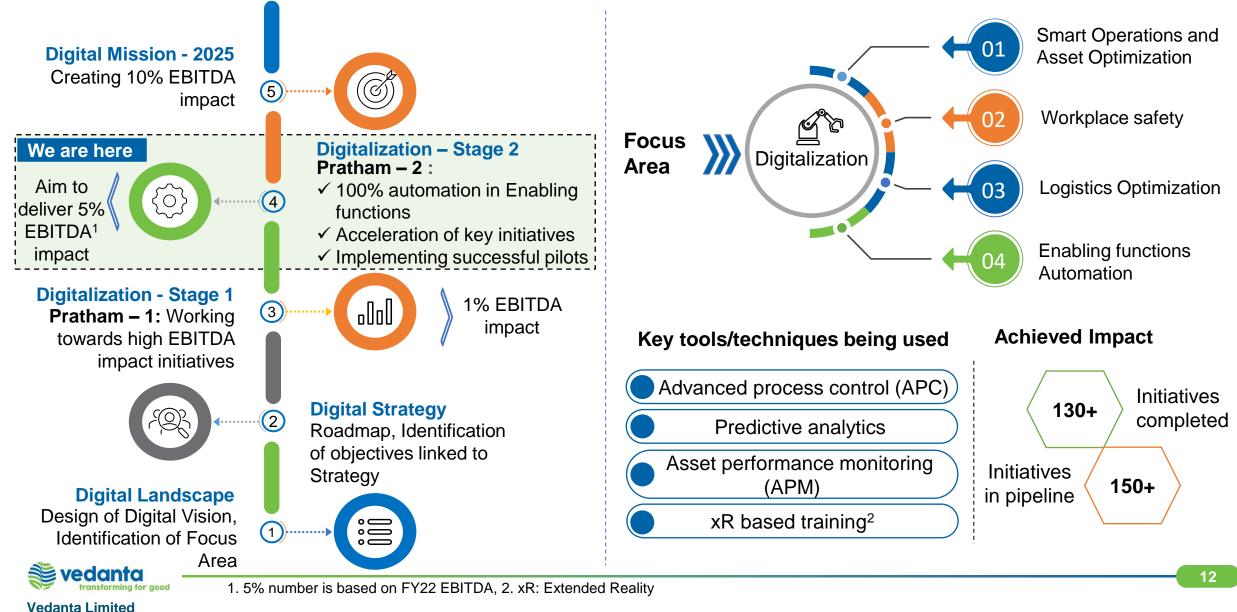
Outcome: Biomass usage up by 3x compared to FY22; ~50,000 MT of Biomass fired in 9MFY23



FRHC: Fire Refined High Conductivity; SPL: Spent Potline; MLD: Million litre day; ZDS: Zero Discharge System

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## Digitalization focus to become a data driven organization



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## **Digitalization Use Case : Advanced Process Control (APC) – Evaporation**

#### **KPI: Specific Steam Consumption Optimization**

Specific Steam Consumption (SSC) across the evaporation units in alumina refinery is being optimized through the APC system by minimizing variability & driving efficiencies

#### Outcome and advantages:

- ✓ APC has optimized the steam consumption with the evaporator load
- ✓ Average SSC reduction in the evaporator circuit by 3.1% (June'22 to Dec'22) against target of 1.5%
- ✓ ROI: 2 Months

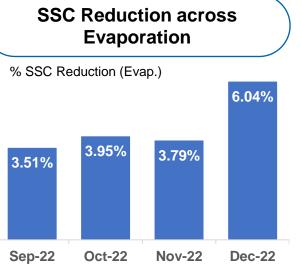
#### **Current Status:**

- Being used in Lanjigarh Refinery  $\checkmark$
- Running with 80% compliance  $\checkmark$





**Advanced Process Control** 

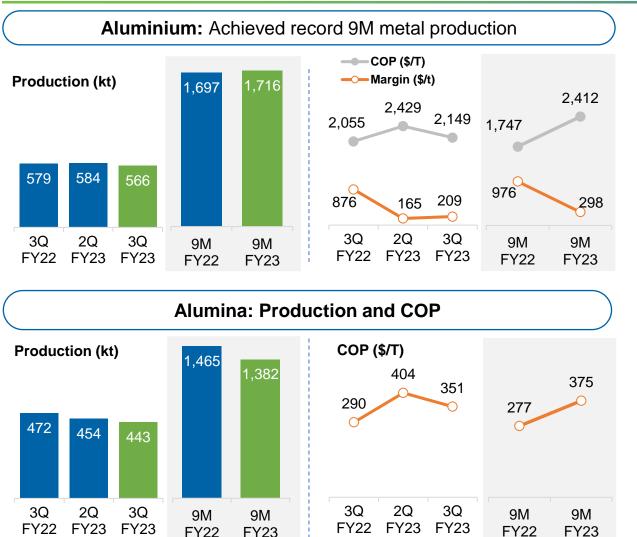


**Next Steps** 

- Improve utilization of APCs at different units of refinery to further benefit
- Implement APC Global Optimizer for overall process control and coordination and build the platform for digital twin



## Aluminium: COP improved 12%QoQ on operational and buying efficiencies



## Key quarterly performance highlights:

- Aluminium production lower by 2% YoY and 3% QoQ
- VAP sales stood at 199 kt
- Aluminium COP decreased by 12% QoQ on operational and buying efficiencies
- Alumina production decreased by 2% QoQ and 6% YoY
- Commencement of Jamkhani coal mine in Dec'2022
- Aluminium Business is now ranked 2<sup>nd</sup> among DJSI's ranked Aluminium peers; with improvement in its Corporate Sustainability Assessment score by 28 points to 78

### 9-Months' key performance highlights::

- Aluminium production increased by 1% YoY
- Aluminium COP higher YoY due to higher energy cost and headwinds in input commodity prices

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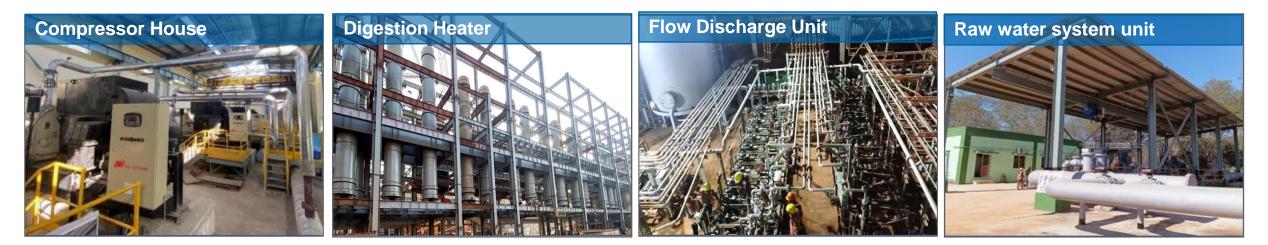
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## Aluminium: significant progress in various growth projects

Lanjigarh expansion: few completed projects during 3QFY23







PHE: Plate Heat Exchanger Unit

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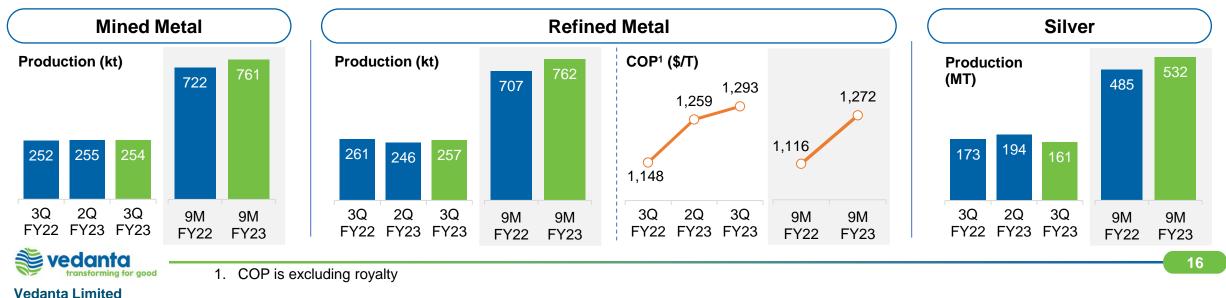
## Zinc India: delivered best-ever 9M mined metal and refined metal production

#### Key quarterly performance highlights:

- Mined metal production up 1% YoY with higher ore production
- Refined metal production was lower by 2% on YoY basis but improved 5% QoQ with better plant and mined metal availability
- COP increased due to higher coal and input commodity prices after a partial offset from operational efficiencies; Continues to be in 1st quartile cost curve globally
- Fumer plant: cold commissioning completed, commercial commissioning to be completed by 4QFY23

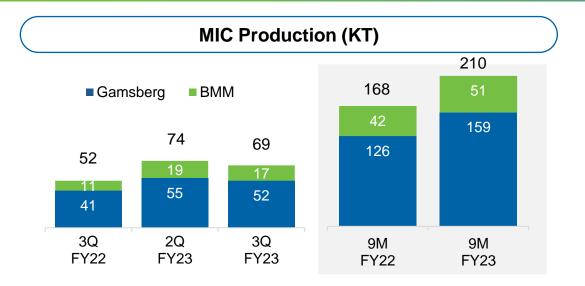
#### 9-Months' key performance highlights:

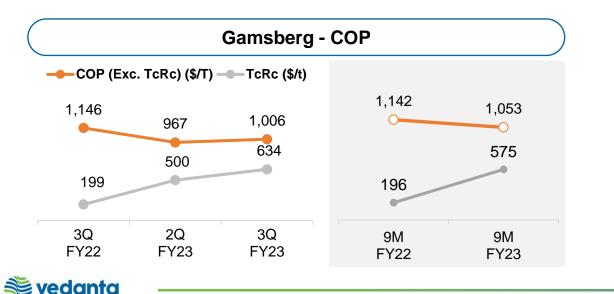
- Best-ever 9-month mined metal production, up 5% YoY driven by higher Ore production, feed grade & operational efficiency
- Highest-ever 9-month refined metal up 8% YoY driven by better plant availability and consistent mined metal flow from mines
- Integrated zinc, refined lead, and saleable silver production increased by 7%, 10% and 10% YoY respectively



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## Zinc International: steady operations at 280+ KTPA MIC production run rate





#### Key quarterly performance highlights:

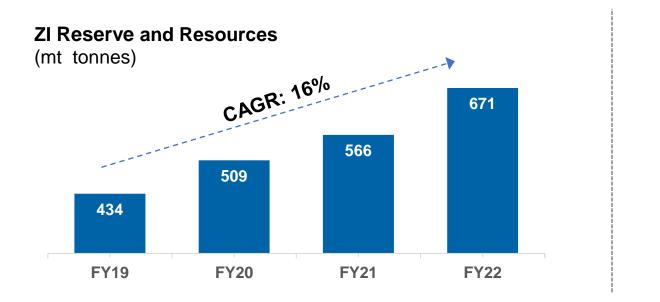
- Total MIC production increased 32%YoY
- Gamsberg MIC production increased 26%YoY
- Gamsberg COP (ex TcRc) decreased 12%YoY primarily driven by operational efficiencies, lower unplanned mill stoppages, and higher MIC production.

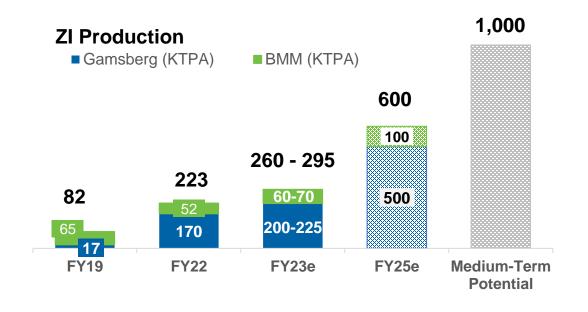
### 9-Months' key performance highlights:

- Total MIC production increased 25%YoY
- Gamsberg achieved the highest ever 9-month MIC production at 159kt, up 27% YoY
- Gamsberg COP (exc. TcRc) decreased by 8%YoY

Ing for good MIC: Metal in concentrate; COP: Cost of production

## Zinc International: journey so far and value potential





#### Gamsberg Phase 2:

- Project includes mining expansion from 4 MTPA to 8 MTPA and construction of new 4 MTPA Concentrator plant
- Project early work commenced in 1QFY23; expected completion by 2HFY24
- Appointed mining contractor in 3QFY23
- Placed orders for major long lead equipments



# Zinc International sale to HZL: unlocking significant value with a win-win deal for both VEDL and HZL shareholders

- **Proposed transaction:** Sale of Vedanta Zinc International (VZI) business (Gamsberg, Black Mountain and Skorpion operations) to Hindustan Zinc Limited (HZL)
- **Sales consideration:** \$2,981 mn including \$562 mn as deferred consideration linked to certain milestones
- VZI's current R&R: ~671 mn tonnes of Ore and ~35 mn tonnes of Metal, with total mine life of 30+ years
- Advantage to Vedanta Limited (VEDL)
  - Improved cash availability for Balance Sheet management and growth financing
  - Significant value unlocking via consolidation of Zinc business
  - Continued participation in VZI's growth story

#### Advantage to HZL –

- Potential to become largest global Zinc player with combined R&R of ~1150 mn tonnes of Ore and 60+ mn tons of Metal
- Improved access to developed markets and strong foothold in African sub-continent for expansion
- Best-in-class expertise to underground mining, smelting and metal marketing to fast-track VZI's growth
- Value accretive deployment of cash surplus vs. treasury returns

#### **Transaction Structure Vedanta Limited** 100% **THL Zinc Ventures** Limited, Mauritius Acquisition by HZL 100% **THL Zinc Limited** Mauritius 100% 69.6%\* **Black Mountain** THL Zinc Namibia Mining (Pty) Limited Holding (Pty) Limited 100% Skorpion Zinc (Pty) Limited

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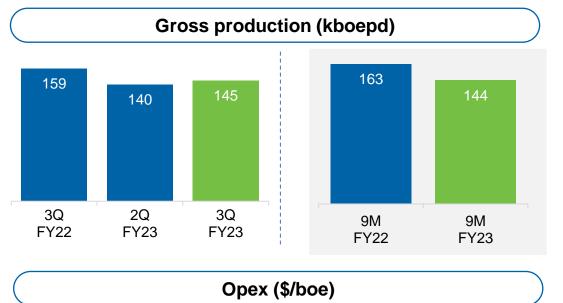
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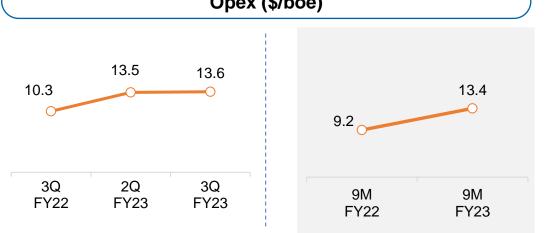
Note: The transaction is subject to regulatory approvals

\*Excluding the 4.4% shares held under cash vesting ESOP scheme. Upon vesting, cash will be paid to eligible employees of BMM as per the agreed terms and shareholding of THL Zinc Limited (Mauritius) will increase to 74% with cancellation of vested option. 3QFY23 Investor Presentation



## Oil & Gas: QoQ volume improved with focus on growth projects





#### Key highlights:

- Rajasthan PSC Signoff: Addendum to PSC for 10-year extension with effect from 15th May 2020 signed off
- Production: 3QFY23 Average gross production higher by 3%QoQ mainly due to gains from exploration success in Ravva and gains from the infill well drilling campaign in Cambay and RDG; partially offset by natural decline
- Opex: \$13.6/boe in 3Q FY23 compared to \$13.5/boe in 2Q
   FY23 mainly due to increase in maintenance activities

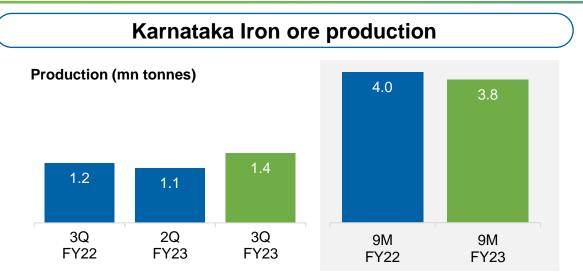
#### Growth Projects:

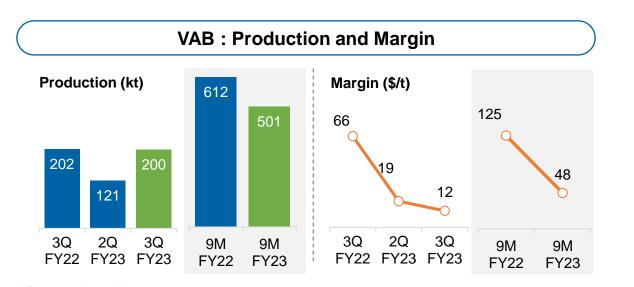
- Infill wells: Drilled 16 wells across Bhagyam, ABH, Satellite Fields and Raageshwari Deep Gas.
- Early Monetization: Commencement of first Gas & Condensate production facility in Jaya field of OALP block
- Exploration: 1 exploration well successfully drilled in Ravva & has been put to production, adding ~5,100 boepd
- **Shale:** Drilling of first well ongoing in Rajasthan block to unlock the unconventional potential.

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## Iron ore and VAB





#### Iron ore – Karnataka:

- Quarterly production higher by 32% QoQ and 15% YoY
- First to complete export shipment of Karnataka origin ore in Dec 22 post removal of export ban

#### Value added business (VAB):

- VAB production higher by 66% QoQ as 2QFY23 production was impacted due to shutdown taken at the smaller blast furnaces;
- 9MFY23 VAB production was lower by 18%
- VAB quarterly margin was lower by 81% YoY and 36%
   QoQ mainly due to domestic price correction

#### Iron ore – Western Cluster, Liberia:

- Ore production started in 2QFY23
- 3QFY23 DSO production is at 118 kt
- First ever export shipment from Liberia completed in Jan'23

DSO: Direct Shipping Iron Ore

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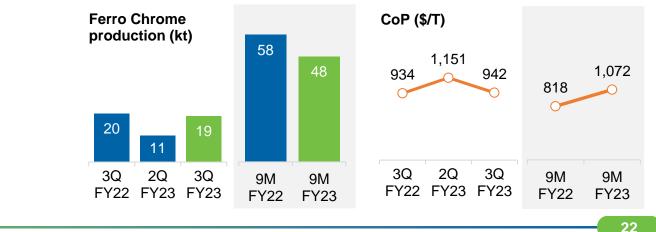
## **ESL Steel and FACOR**

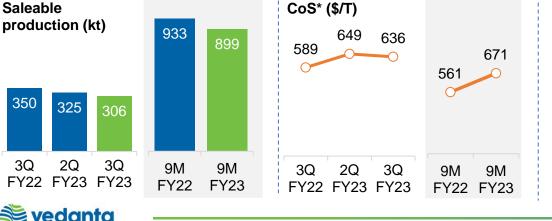
#### **ESL: key performance highlights**

- Quarterly saleable production lower by 6%QoQ on account of maintenance activity in blast furnace in 3Q FY23
- 9MFY23 saleable production was lower by 4%YoY
- Quarterly CoS (excluding impact of mines) was higher by 8%YoY mainly due to increase in Coking coal prices; CoS improved 2% QoQ

#### FACOR: key performance highlights

- Quarterly Ore production increased 88%QoQ as 2QFY23 production was affected by heavy monsoon; 9MFY23 Ore production increased 15%YoY on operational efficiencies
- Ferro Chrome production was higher by 70%QoQ as 2QFY23 production was affected by planned maintenance shutdown
- COP declined 18%QoQ mainly on improved volume & operational KPIs
- Completed merger of FACOR and FACOR Power Plant limited
- New 60ktpa furnace is on track to be commissioned by Feb'23



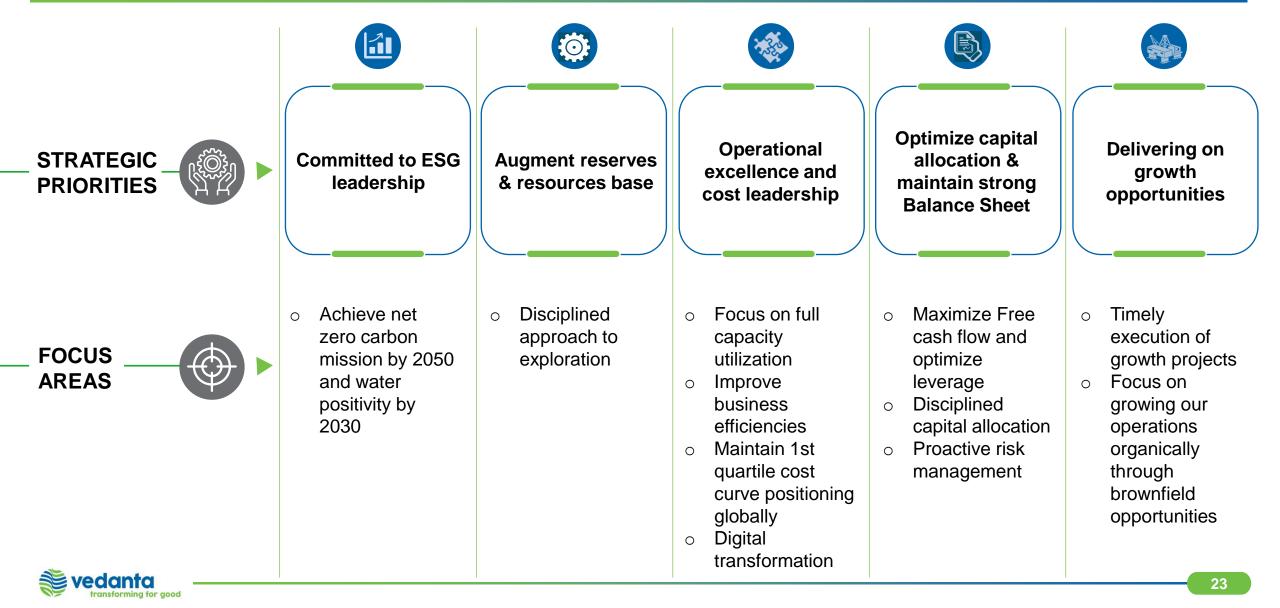


\* Excludes impact of mines

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## **Strategy to enhance long term value**





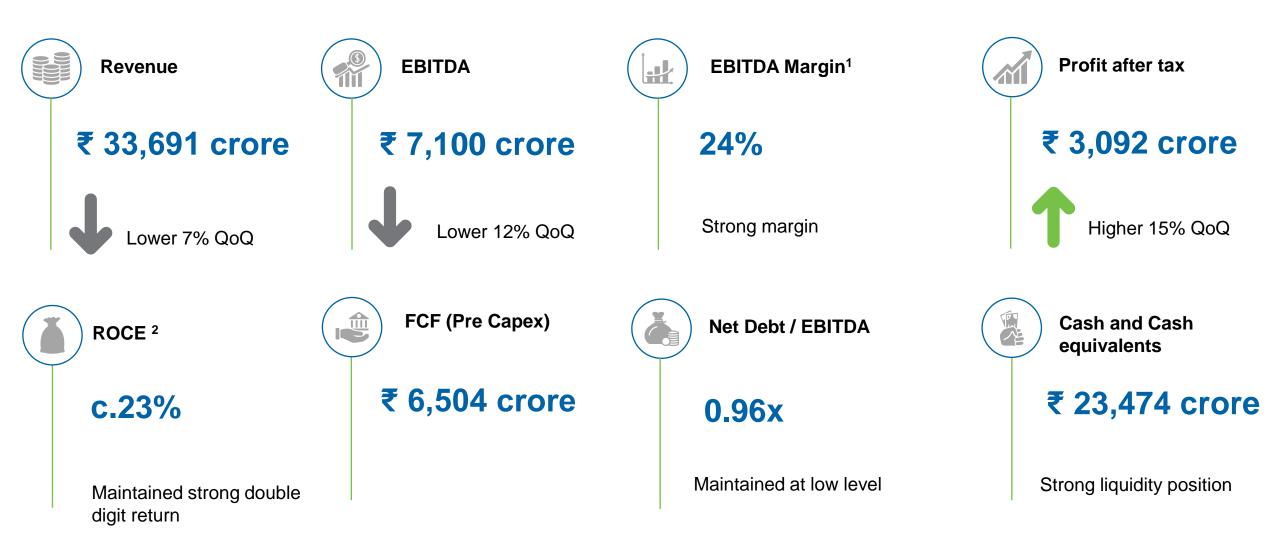


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**Finance Update** 

**Ajay Goel** Acting Group Chief Financial Officer

## **3QFY23 financial snapshot**





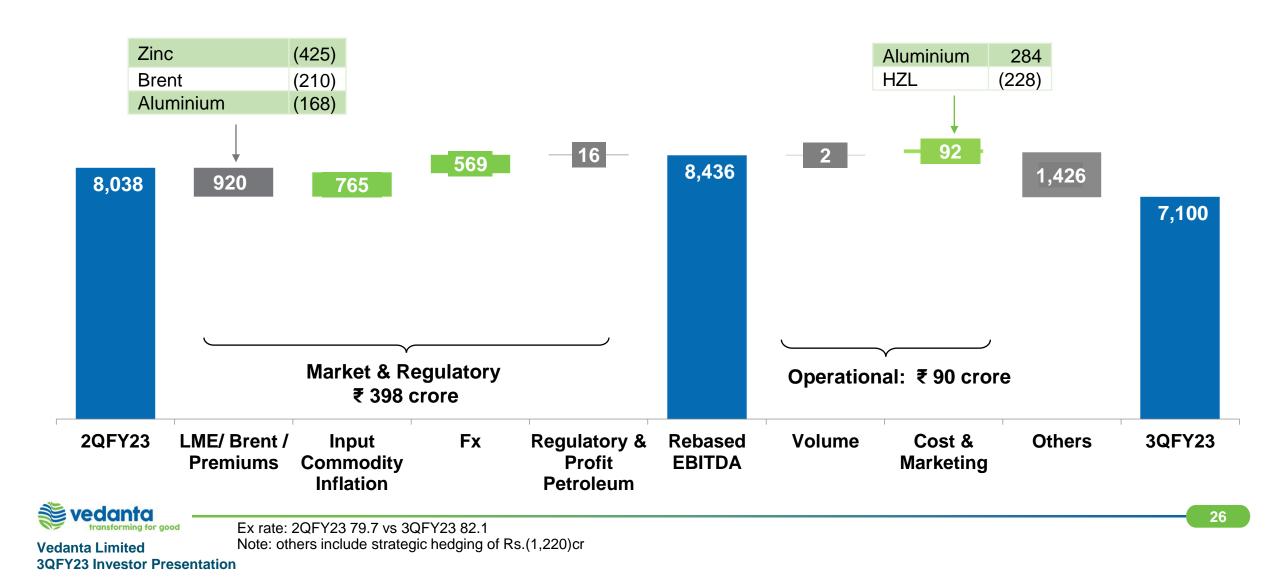
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1. Excludes custom smelting at Copper Business

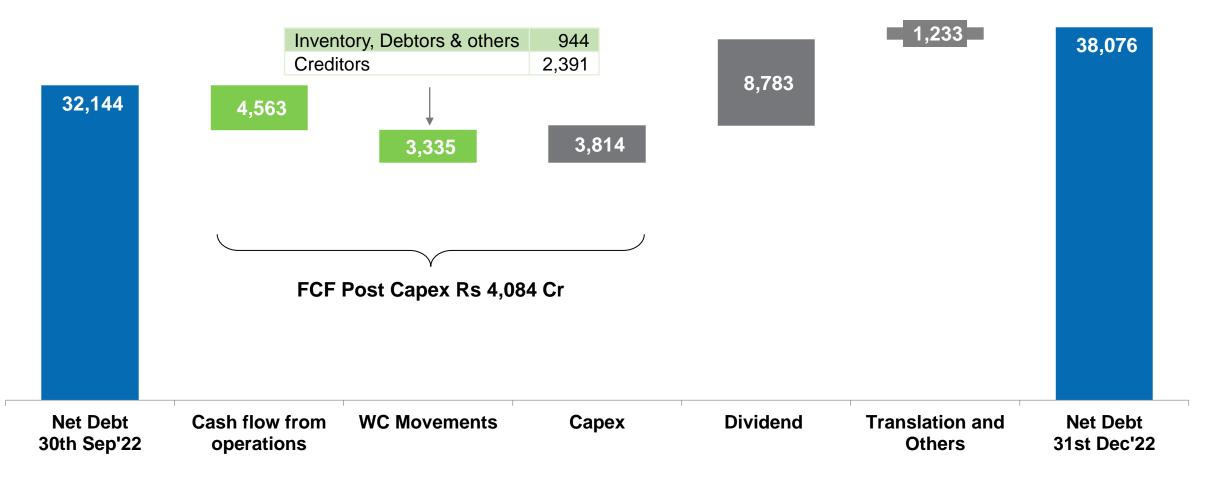
2. ROCE (return on capital employed) is calculated as EBIT net of tax outflow divided by average capital employed

**3QFY23 Investor Presentation** 

(In ₹ crore)



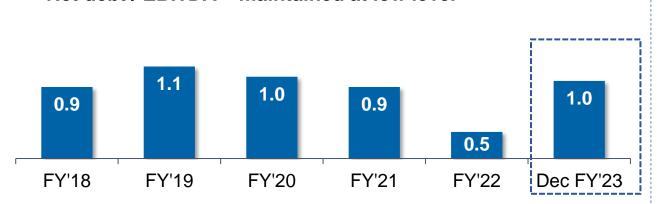
(In ₹ crore)





## **Balance sheet and debt breakdown**

Net debt / EBITDA – maintained at low level



- Liquidity: Cash and cash equivalents at ₹ 23,474 crore
- Net Interest \* :
  - Interest Income Returns ~5.9%
  - Interest Expense Interest rate ~7.7%
- Maturity: proactive credit management; average term debt maturity ~3.7 years
- Credit Rating:
  - CRISIL rating at AA with stable outlook
  - India ratings at IND AA with stable outlook

## Debt breakdown

(as of 31<sup>st</sup> Dec'2022)

Gross Debt	In \$bn	In ₹ 000' crores
Term debt	6.1	50.7
Working capital	0.4	3.2
Short term borrowing	0.9	7.7
Total consolidated debt	7.4	61.6
Cash and Cash Equivalents	2.8	23.5
Net Debt	4.6	38.1
Debt breakup (\$7.4bn)		
- INR Debt		94%
- USD / Foreign Currency Debt		6%

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\* 9M FY23 Average rate



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Appendix

## Depreciation & Amortization

 Higher YoY and QoQ mainly due to increase in depletion charge in Oil & Gas business

### Finance Cost

- Increased YoY majorly due to increase in average debt, partially offset by decrease in average rate of borrowings
- Decreased QoQ majorly on account of decrease in average debt and higher interest capitalization

#### Investment Income

- Increased YoY on account of Mark to Market movement and change in investment mix
- Increased QoQ majorly due to increase in average interest rate

#### Taxes

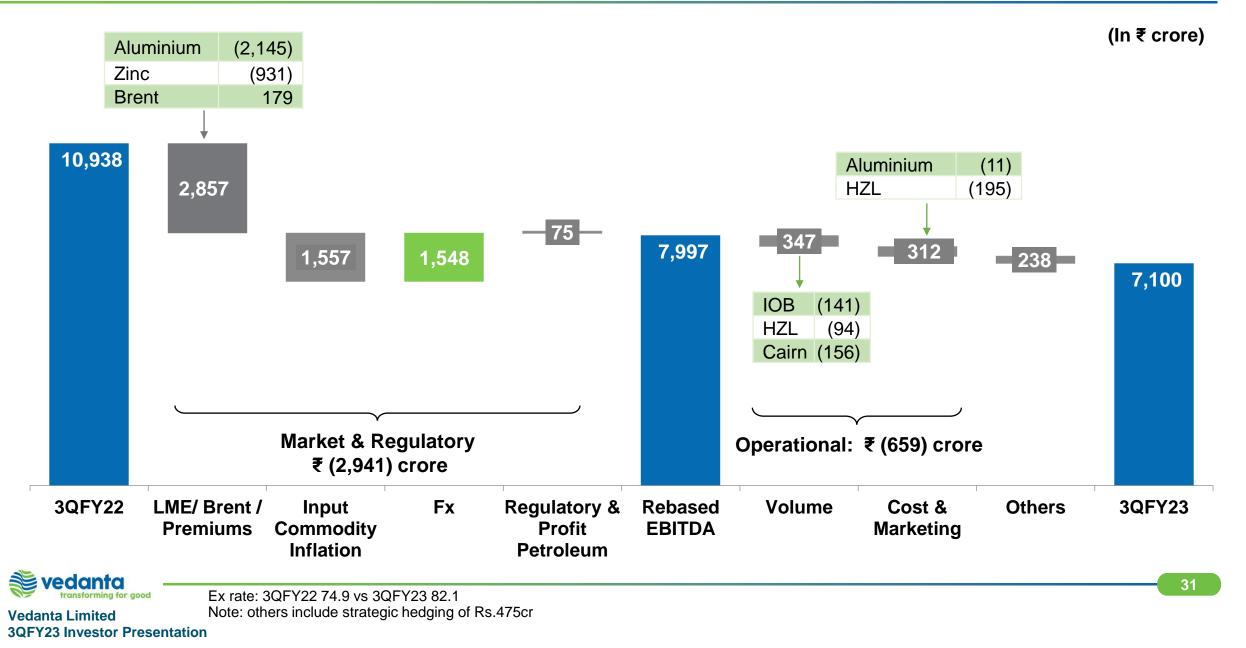
 Normalized Effective tax rate (ETR) was 24% compared to 44% in 2QFY23 and 30% in 3QFY22, majorly due to 80IA benefit and change in profit mix

In ₹ Crore	3Q FY23	2Q FY23	3Q FY22
Revenue from operations	33,691	36,237	33,697
Other operating income	411	417	400
EBITDA	7,100	8,038	10,938
Depreciation & amortization	(2,720)	(2,624)	(2,274)
Exploration Cost written off	(130)	(96)	-
Finance Cost	(1,572)	(1,642)	(1,216)
Investment Income	679	631	516
Exchange gain/(loss)	134	(177)	(68)
Exceptional item Credit/(Expense)	903	234	(105)
Tax (Charge)/Credit	(839)	(1,828)	(2,473)
Tax credit/(charge) on exceptional items	(463)	154	35
PAT before exceptional	2,652	2,302	5,424
Profit/(Loss) After Taxes	3,092	2,690	5,354
Minorities % (after exceptional items)	20%	33%	22%



Vedanta Limited 3QFY23 Investor Presentation **Note:** Previous period figures have been regrouped or re-arranged wherever necessary to conform to the current period's presentation ETR: Effective Tax Rate;

# EBITDA bridge 3QFY23 vs. 3QFY22 (YoY comparison)



(In ₹ crore)

		Dec 31, 2022			Sep 30, 2022	2	Dec 31, 2021		
Company	Debt	Cash & Cash Eq	Net Debt	Debt	Cash & Cash Eq	Net Debt	Debt	Cash & Cash Eq	Net Debt
Vedanta Limited Standalone	45,245	3,388	41,857	45,296	3,953	41,343	35,065	3,393	31,671
Cairn India Holdings Limited <sup>1</sup>	870	1,425	(556)	963	1,973	(1,010)	2,682	2,773	(92)
Zinc India	5,104	16,482	(11,378)	2,111	17,807	(15,696)	2,814	17,040	(14,227)
Zinc International	-	1,058	(1,058)	-	1,264	(1,264)	89	319	(230)
BALCO	1,116	390	726	1,035	392	642	1,298	496	802
Talwandi Sabo	6,942	90	6,852	6,852	143	6,709	7,150	96	7,054
ESL	2,382	178	2,204	2,490	384	2,106	2,812	434	2,378
Others <sup>2</sup>	(107)	463	(570)	(150)	536	(686)	865	654	212
Vedanta Limited Consolidated	61,550	23,474	38,076	58,597	26,453	32,144	52,776	25,207	27,569

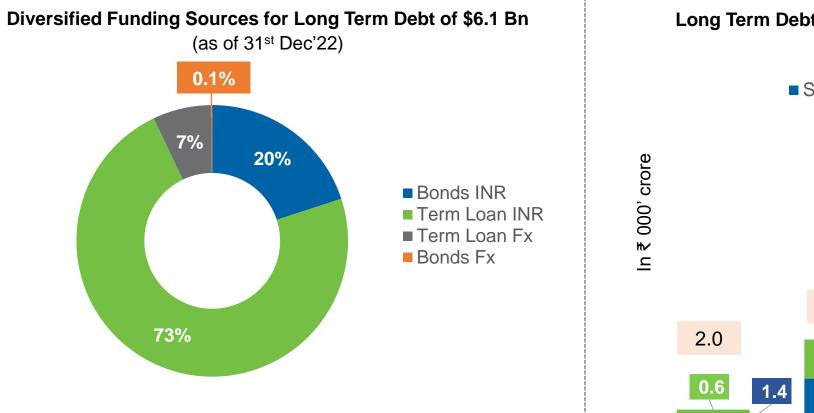
Notes:

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

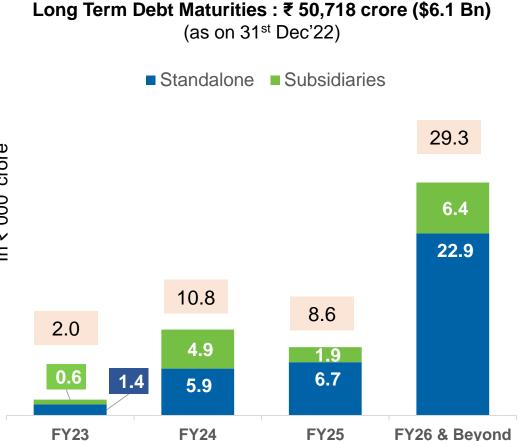
2. Others includes MALCO Energy, CMT, VGCB, Fujairah Gold, FACOR, Vedanta Limited's investment companies, ASI and Inter company elimination



## **Funding sources and term debt maturities**



Long Term debt of \$4.5bn at Standalone and \$1.7 Bn at Subsidiaries, total consolidated \$6.1 Bn



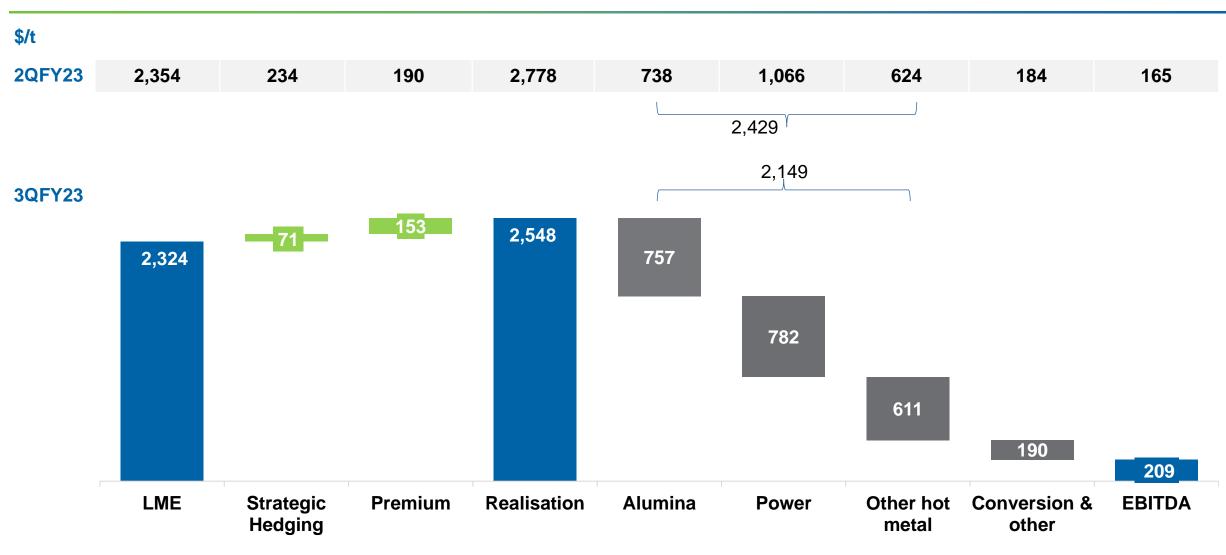
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Note: USD–INR: ₹ 82.7 on 31<sup>st</sup> Dec 2022

Particulars (in'000 tonnes, or as		Qua	rter		9-month			
stated)	3QFY23	3QFY22	% YoY	2QFY23	9MFY23	9MFY22	% YoY	
Alumina – Lanjigarh	443	472	(6%)	454	1,382	1,465	(6%)	
Total Aluminum Production	566	579	(2%)	584	1,716	1,697	1%	
Jharsuguda	424	432	(2%)	443	1,291	1,259	3%	
Korba	142	147	(3%)	141	425	438	(3%)	
Financials (In ₹ crore, except as stated)								
Revenue	11,877	13,024	(9%)	13,486	40,007	35,406	13%	
EBITDA – BALCO	88	931	(91%)	(148)	302	3,013	(90%)	
EBITDA – Vedanta Aluminium	876	2,816	(69%)	909	3,675	9,106	(60%)	
EBITDA Aluminum Segment	964	3,747	(74%)	761	3,976	12,119	(67%)	
Alumina CoP – Lanjigarh (\$/MT)	351	290	21%	404	375	277	35%	
Alumina CoP – Lanjigarh (₹ /MT)	28,800	21,700	33%	32,200	29,900	20,500	46%	
Aluminium CoP – (\$/MT)	2,149	2,055	5%	2,429	2,412	1,747	38%	
Aluminium CoP – (₹ /MT)	1,76,500	1,53,900	15%	1,93,600	1,92,000	1,29,600	48%	
Aluminum CoP – Jharsuguda (\$/MT)	2,101	2,045	3%	2,405	2,375	1,719	38%	
Aluminium CoP – Jharsuguda(₹ /MT)	1,72,500	1,53,200	13%	1,91,700	1,89,100	1,27,600	48%	
Aluminum CoP – BALCO (\$/MT)	2,295	2,083	10%	2,512	2,526	1,826	38%	
Aluminium CoP – BALCO (₹ /MT)	1,88,500	1,56,000	21%	2,00,200	2,01,100	1,35,500	48%	
Aluminum LME Price (\$/MT)	2,324	2,762	(16%)	2,354	2,510	2,607	(4%)	



# **Aluminium profitability**





## **Segment Summary – Zinc India**

Draduction (in 2000 to proc. or on ototal)		Qua	rter	9 Months			
Production (in '000 tonnes, or as stated)	3QFY23	3QFY22	% YoY	2QFY23	9MFY23	9MFY22	% YoY
Mined metal content	254	252	1%	255	761	722	5%
Integrated metal	257	261	(2%)	246	762	707	8%
Refined Zinc – Integrated	210	214	(2%)	189	606	565	7%
Refined Lead – Integrated <sup>1</sup>	46	47	(1%)	57	157	142	10%
Refined Saleable Silver - Integrated (in tonnes) <sup>2</sup>	161	173	(7%)	194	532	485	10%
Financials (In ₹ crore, except as stated)							
Revenue	7,613	7,817	(3%)	8,078	24,866	20,037	24%
EBITDA	3,575	4,384	(18%)	4,342	13,147	11,173	18%
Zinc CoP without Royalty (₹ /MT)	1,06,200	86,000	23%	1,00,300	1,01,300	82,800	22%
Zinc CoP without Royalty (\$/MT)	1,293	1,148	13%	1,259	1,272	1,116	14%
Zinc CoP with Royalty (\$/MT)	1,699	1,600	6%	1,708	1,734	1,534	13%
Zinc LME Price (\$/MT)	3,001	3,364	(11%)	3,271	3,386	3,093	9%
Lead LME Price (\$/MT)	2,098	2,331	(10%)	1,976	2,088	2,269	(8%)
Silver LBMA Price (\$/oz)	21.2	23.3	(9%)	19.2	21.0	24.8	(15%)

1. Excludes captive consumption of 1,804 tonnes in 3Q FY 2023 vs 1,977 tonnes in 2Q FY2023 and 1,816 tonnes in 3QFY2022. For 9M FY23, it was 6,050 tonnes as compared to 5,404 tonnes in 9M FY22.

2. Excludes captive consumption of 9.9 tonnes in 3Q FY 2023 vs 10.4 tonnes in 2Q FY2023 and 9.5 tonnes in 3QFY2022. For 9M FY23, it was 32.0 tonnes as compared to 29.7 tonnes in 9M FY22.



## **Segment summary – Zinc International**

Production (in/000 tenness, or as stated)		Qua	rter	9 Months			
Production (in'000 tonnes, or as stated)	3QFY23	3QFY22	% YoY	2QFY23	9MFY23	9MFY22	% YoY
Mined metal content- BMM	17	11	53%	19	51	42	20%
Mined metal content- Gamsberg	52	41	26%	55	159	126	27%
Total	69	52	32%	74	210	168	25%
Financials (In ₹ Crore, except as stated)							
Revenue	1,145	1,079	6%	1,440	4,044	3,242	25%
EBITDA	310	367	(16%)	591	1,490	1,066	40%
CoP – (\$/MT)	1,595	1,506	6%	1,464	1,586	1,373	16%
Zinc LME Price (\$/MT)	3,001	3,364	(11%)	3,271	3,386	3,093	9%
Lead LME Price (\$/MT)	2,098	2,331	(10%)	1,976	2,088	2,269	(8%)



## Segment Summary – Oil & Gas

		Qua	rter		9 Months			
OIL AND GAS (boepd)	3QFY23	3QFY22	% YoY	2QFY23	9MFY23	9MFY22	% YOY	
Average Daily Gross Operated Production (boepd)	144,789	159,230	(9%)	140,471	144,441	163,146	(11%)	
Rajasthan	118,314	136,795	(14%)	120,805	122,291	139,452	(12%)	
Ravva	13,064	14,457	(10%)	9,952	11,337	14,466	(22%)	
Cambay	13,308	7,906	68%	9,657	10,730	9,204	17%	
OALP	104	73	42%	57	83	25	-	
Average Daily Working Interest Production (boepd)	91,623	102,795	(11%)	91,174	92,989	105,119	(12%)	
Rajasthan	82,820	95,756	(14%)	84,563	85,604	97,616	(12%)	
Ravva	2,939	3,253	(10%)	2,239	2,551	3,255	(22%)	
Cambay	5,323	3,162	68%	3,863	4,292	3,681	17%	
KG-ONN 2003/1	437	550	(21%)	451	459	542	(15%)	
OALP	104	73	42%	57	83	25	-	
Total Oil and Gas (million boe)								
Oil & Gas- Gross operated	13.3	14.6	(9%)	12.9	39.7	44.9	(12%)	
Oil & Gas-Working Interest	8.4	9.5	(12%)	8.4	25.6	28.9	(11%)	
Financials (In ₹ crore, except as stated)								
Revenue	3,810	3,113	22%	3,869	11,762	8,490	39%	
EBITDA	2,004	1,492	34%	2,018	6,103	3,940	55%	
Average Oil Price Realization (\$/bbl)	84.7	75.7	12%	94.8	96.7	71.3	36%	
Brent Price (\$ / bbl)	88.7	79.7	11%	100.9	101.1	74.0	37%	



## Segment Summary – Oil & Gas

		Quar	ter			9 Months	
OIL AND GAS (boepd)	3QFY23	3QFY22	% YoY	2QFY23	9MFY23	9MFY22	% YOY
Average Daily Production							
Gross operated	144,789	159,230	(9%)	140,471	144,441	163,146	(11%)
Oil	118,530	133,731	(11%)	118,279	121,015	137,267	(12%)
Gas (Mmscfd)	158	153	3%	133	141	155	(9%)
Non-operated- Working interest	437	550	(21%)	451	459	542	(15%)
Working Interest	91,623	102,795	(11%)	91,174	92,989	105,119	(12%)
Rajasthan (Block RJ-ON-90/1)							
Gross operated	118,314	136,795	(14%)	120,805	122,291	139,452	(12%)
Oil	98,216	114,896	(15%)	101,898	103,067	117,725	(12%)
Gas (Mmscfd)	121	131	(8%)	113	115	130	(12%)
Gross DA 1	101,944	120,459	(15%)	105,082	105,962	122,858	(14%)
Gross DA 2	16,244	16,163	1%	15,575	16,203	16,416	(1%)
Gross DA 3	126	173	(27%)	147	127	178	(29%)
Working Interest	82,820	95,756	(14%)	84,563	85,604	97,616	(12%)
Ravva (Block PKGM-1)							
Gross operated	13,064	14,457	(10%)	9,952	11,337	14,466	(22%)
Oil	11,102	12,594	(12%)	8,812	9,899	12,193	(19%)
Gas (Mmscfd)	12	11	9%	7	9	14	(36%)
Working Interest	2,939	3,253	(10%)	2,239	2,551	3,255	(22%)
Cambay (Block CB/OS-2)							
Gross operated	13,308	7,906	68%	9,657	10,730	9,204	17%
Oil	9,120	6,168	48%	7,513	7,969	7,324	9%
Gas (Mmscfd)	25	10	-	13	17	11	55%
Working Interest	5,323	3,162	68%	3,863	4,292	3,681	17%
Average Price Realization							
Cairn Total (US\$/boe)	84.6	74.4	14%	95.8	96.2	69.3	39%
Oil (US\$/bbl)	84.7	75.7	12%	94.8	96.7	71.3	36%
Gas (US\$/mscf)	14.1	11.2	26%	16.9	15.6	9.8	59%



# **Segment Summary – Iron Ore and Steel**

#### Iron Ore

Particulars (in million dry metric tonnes, or		Quarter				9 Month	
as stated)	3QFY23	3QFY22	% YoY	2QFY23	9MFY23	9MFY22	% YoY
Sales	1.4	1.6	(14%)	1.3	3.9	4.5	(13%)
Goa	0.2	0.1	-	0.0	0.6	0.5	7%
Karnataka	1.2	1.5	(22%)	1.3	3.3	4.0	(16%)
Production of Saleable Ore	1.4	1.2	15%	1.1	3.8	4.0	(5%)
Goa	0.0	-		0.0	-	-	
Karnataka	1.4	1.2	15%	1.1	3.8	4.0	(5%)
Production ('000 tonnes)							
Pig Iron	200	202	(1%)	121	501	612	(18%)
Financials (In ₹ crore, except as stated)							
Revenue	1,411	1,416	0%	1,506	4,284	4,484	(4%)
EBITDA	54	410	(87%)	213	630	1,731	(64%)

#### Steel

Particulars (in (000 tennes, or as stated)		Quar	ter		9 Month		
Particulars (in '000 tonnes, or as stated)	3QFY23	3QFY22	% YoY	2QFY23	9MFY23	9MFY22	% YoY
Total Production	306	350	(13%)	325	899	933	(4%)
Pig Iron	54	48	12%	47	134	138	(3%)
Billet Production	212	261	(19%)	235	644	691	(7%)
Billet Consumption (inter category adj.)	(200)	(239)	(17%)	(227)	(622)	(586)	6%
TMT Bar	97	114	(15%)	118	321	268	20%
Wire Rod	98	120	(18%)	103	285	302	(6%)
Ductile Iron Pipes	45	48	(4%)	48	138	119	16%
Financials (In ₹ crore, except as stated)							
Revenue	1,804	1,577	14%	1,985	5,247	4,262	23%
EBITDA	(66)	167	-	(12)	15	462	(97%)
Margin (\$/t)	(28)	72	-	(4)	3	71	(96%)

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#### Copper

Draduation (in 2000 tonness or as stated)		Qua	rter		9 Months		
Production (in '000 tonnes, or as stated)	3QFY23	3QFY22	% YoY	2QFY23	9MFY23	9MFY22	% YoY
Copper - Cathodes	34	33	3%	41	114	91	25%
Financials (In ₹ crore, except as stated)							
Revenue	4,158	3,741	11%	4,011	12,384	10,800	15%
EBITDA	(55)	15	-	15	(54)	(131)	-
Copper LME Price (\$/MT)	8,001	9,699	(18%)	7,745	8,395	9,587	(12%)

#### FACOR

Production <i>(in '000 tonnes, or as stated)</i>		Qua	rter			9 Months		
Froduction (III 000 tonnes, or as stated)	3QFY23	3QFY22	% YoY	2QFY23	9MFY23	9MFY22	% YoY	
Total Production								
Ore Production	64	59	8%	34	238	206	15%	
Ferrochrome Production	19	20	(6%)	11	48	58	(18%)	
Financials (In ₹ crore, except as stated)								
Revenue	189	233	(19%)	128	563	614	(8%)	
EBITDA	35	88	(61%)	10	113	243	(53%)	
Margin (\$/MT)	200	583	(66%)	(11)	196	553	(65%)	



## **Sales Summary – Zinc and Aluminium**

Soloo volumo		Quarter		9 Months		
Sales volume	3QFY23	3QFY22	2QFY23	9MFY23	9MFY22	
Zinc-India Sales						
Refined Zinc (kt)	210	212	189	605	563	
Refined Lead (kt)	46	47	57	157	142	
Total Zinc-Lead (kt)	257	259	245	762	706	
Silver (tonnes)	161	173	194	532	485	
Zinc-International Sales						
Zinc Concentrate (MIC)	57	45	59	176	143	
Total Zinc (Refined+Conc)	57	45	59	176	143	
Lead Concentrate (MIC)	12	8	14	34	24	
Total Zinc-Lead (kt)	69	52	73	211	167	
Aluminium Sales						
Sales - Wire rods (kt)	109	90	107	309	236	
Sales - Rolled products (kt)	8	10	7	21	25	
Sales - Busbar and Billets (kt)	51	92	61	194	278	
Sales- Profoundry Alloys (kt)	22	18	27	76	73	
Sales- Others (kt)	10	12	11	32	33	
Total Value-added products (kt)	199	222	213	633	646	
Sales - Ingots (kt)	362	351	367	1064	1038	
Total Aluminium sales (kt)	561	573	580	1,697	1,684	



### Sales summary – Iron & Steel, FACOR and Power

Selee velume		Quarter		9 Mo	onths	Sales volume		Quarter		9 Months	
Sales volume	3QFY23	3QFY22	2QFY23	9MFY23	9MFY22	Power Sales (mu)	3QFY23	3QFY22	2QFY23	9MFY23	9MFY22
Iron ore sales						Jharsuguda	736	755	634	2,207	2,060
Goa (mn dmt)	0.2	0.1	0.0	0.6	0.5	TSPL	2,651	2,355	2,843	8,086	5,773
Karnataka (mn dmt)	1.2	1.5	1.3	3.3	4.0	BALCO	178	279	14	192	887
Total (mn dmt)	1.4	1.6	1.3	3.9	4.5	HZL Wind power	50	59	124	324	348
Pig Iron (kt)	169	200	192	464	604	Total sales	3,615	3,448	3,615	10,809	9,068
						<b>Power Realizations</b>					
Steel sales (kt)	297	309	340	866	876	(₹/kWh)					
Pig Iron	54	49	49	134	138	Jharsuguda 600 MW	2.64	2.54	2.86	2.76	2.60
Billet	1	7	3	4	92	TSPL <sup>1</sup>	4.36	3.43	4.50	4.47	3.62
TMT Bar	97	89	129	317	239	Balco	3.67	2.99	2.64	3.60	3.60
Wire Rod	94	116	111	278	290	HZL Wind power	3.82	3.78	3.94	3.99	3.99
Ductile Iron Pipes	51	48	48	132	117	Average Realisations <sup>2</sup>	2.89	2.72	3.03	2.97	3.02
						Power Costs (₹/kWh)					
Facor sales						Jharsuguda 600 MW	2.51	2.63	2.73	2.57	2.57
Ferrochrome (kt)	19	20	11	48	59	TSPL <sup>1</sup>	3.51	2.52	3.77	3.73	2.75
						Balco	3.02	3.30	2.37	2.97	2.64
Copper-India sales						HZL Wind power	2.44	1.90	0.90	1.07	0.93
Copper Cathodes (kt)	1	1	4	7	7	Average costs <sup>2</sup>	2.60	2.76	2.43	2.42	2.42
Copper Rods (kt)	40	35	36	114	90	EBITDA (₹ crore)	271	283	141	493	893



1. Based on Availability

2. Average excludes TSPL

Vedanta Limited 2. Average e

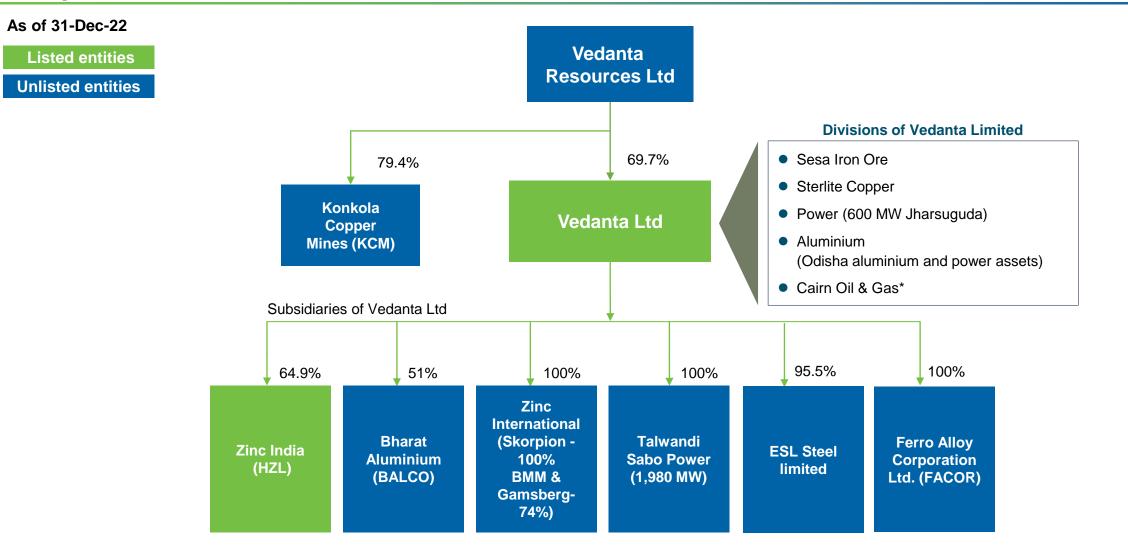
**3QFY23 Investor Presentation** 

Foreign Currency - Impact of ₹1 depreciation in FX Rate						
Currency	Increase in EBITDA					
INR/USD	~ ₹ 1000 crore / year					

Commodity prices – Impact of a 10% increase in Commodity Prices							
Commodity	9M FY23 Average price	9M Impact on EBITDA (\$mn)					
Oil (\$/bbl)	101	60					
Zinc (\$/t)	3,386	236					
Aluminium (\$/t)	2,510	347					
Lead (\$/t)	2,088	35					
Silver (\$/oz)	21	38					



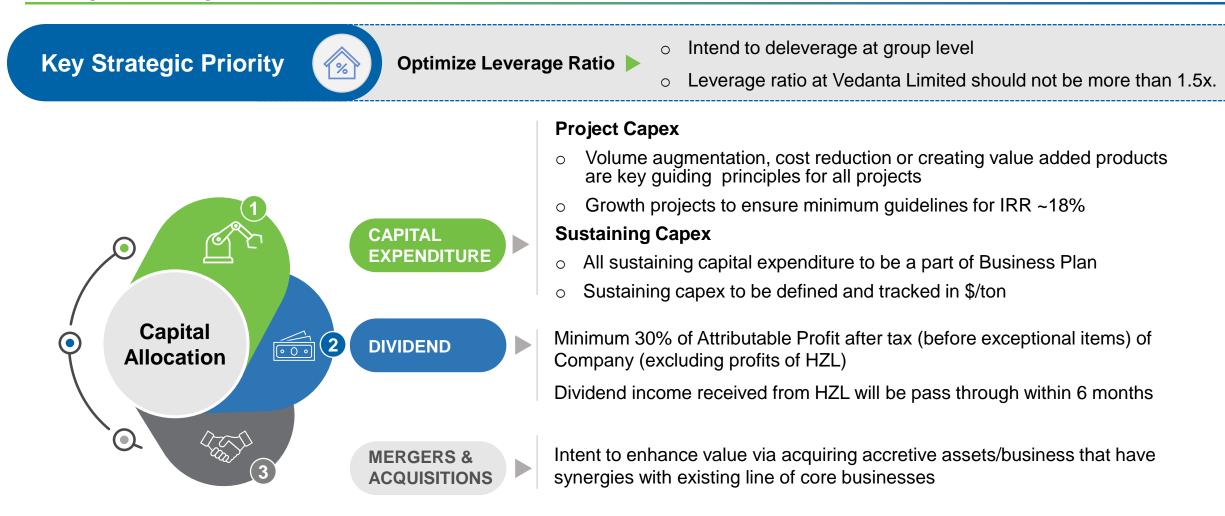
#### **Group structure**





Note: Shareholding as on Dec 31, 2022 \*50% of the share in the RJ Block is held by a subsidiary of Vedanta Ltd;

### **Disciplined capital allocation framework**



#### Maximize Total Shareholder's Return (TSR)



### **Awards and Recognition - 3QFY23**

Our group companies received more than 100 awards in the finance, operational excellence, sustainability, CSR and HR categories



 HZL won prestigious S&P Global - Platts Global
 Metal Awards 'Industry Leadership Award - Base,
 Precious and Specialty Metals' and 'Corporate Social Responsibility'

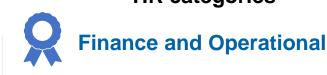
VAL – J, won Platinum and Gold award at SEEM National Energy Management Awards 2022 at Society of Energy Engineers and Managers



BALCO awarded with CII GreenCo Silver award at CII Green Co Summit 2022.



Hindustan Zinc's Dariba Smelting Complex certified with 5S certification by Quality Circle Forum of India



Vedanta Limited awarded with Silver award for excellence in Financial Reporting by ICAI Awards 2021-22

 VAL – J awarded with 3 Gold awards at International Convention on Quality Control Circle Awards for Quality and Business
 Excellence

Cairn Oil and Gas awarded with Golden award at 47th International Convention on Quality Control Circle (ICQCC 2022)

 ESL awarded with SAP ACE Award 2022 for Best Procurement Transformation for
 Implementation of ARIBA & IRPA Solution





Balco awarded with Platinum Award for Human Resource Manufacturing category at Titan Business Awards



VAL – L awarded with Kalinga Safety Award for Gold Category at National Safety Conclave 2022



VAL-J awarded with 13<sup>th</sup> Exceed Occupational Health and Safety award by Sustainable development foundation



Sterlite Copper awarded with Arogya world healthy workplace – 2022 award





VAL-J : Vedanta Limited Jharsuguda; HZL: Hindustan Zinc Ltd; VAB: Value added business;

### **Results Conference Call Details**

Results conference call is scheduled at 5:30 PM (IST) on Jan 27, 2023. The dial-in numbers for the call are given below:

Event	Telephone Number				
		+91 22 6280 111	4		
	Universal Dial-In	+91 22 7115 801	5		
	India National Toll Free	1 800 120 1221			
Earnings conference call on January 27, 2023, from 5:30 - 6:30 PM (IST)		Canada	01180014243444		
	International Toll Free*	Hong Kong	800964448		
		Japan	531161110		
		Netherlands	8000229808		
		Singapore	8001012045		
		UK	8081011573		
		USA	18667462133		
Online Registration Link	Click here - Registration Link				
Call Recording	Will be available on website January 28, 2023 onwards				

