



**VEDANTA RESOURCES LIMITED**  
**INVESTOR PRESENTATION**  
December 15, 2022

**1HFY23 Earnings**  
**Presentation**

COMMUNITIES  
PLANET  
WORKPLACE

**TRANSFORMING**  
**FOR GOOD**



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**VEDANTA  
RESOURCES LIMITED  
INVESTOR PRESENTATION  
1HFY23**

**1HFY23 Review and  
Business Update**

**Sunil Duggal**  
Group CEO &  
Chief Safety Officer





# Vedanta Resources: Overview

A globally diversified natural resource powerhouse with presence across Aluminium, Zinc-lead-silver, Oil & Gas, Iron & Steel, Power, Copper

1<sup>st</sup> quartile cost curve positioning globally across key segments with mine life of more than 25 years

Committed to ESG leadership in the natural resources sector; Net Zero by 2050 or sooner

Strong management team with >30 years of experience; 76,000+ people employed (including contractors)

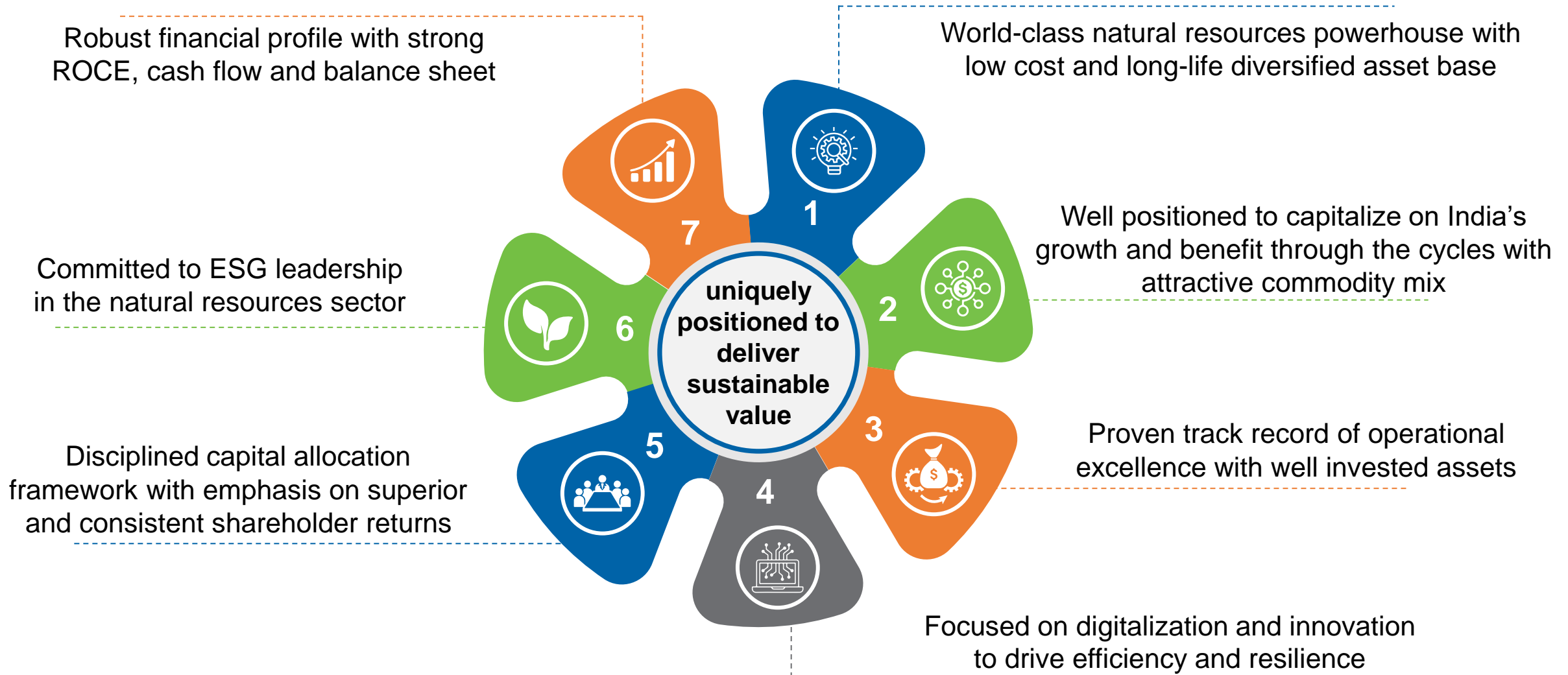
Contribution to exchequer of > \$42 bn since FY16

~\$15 bn Capex over the last decade without raising further capital from equity markets; Impeccable track record of honouring all capital market commitments

Demonstrated track record of industry leading dividend payout of >\$10 bn<sup>1</sup> over a decade; paid record dividend of ~\$3.2 bn YTD FY23

Refinanced ~\$1.3 bn maturities and achieved ~\$1.35 bn deleveraging including ICL

# Vedanta is uniquely positioned to deliver sustainable value



# 1H FY23 Highlights



## ESG

- Entered in exclusive club of top 10 S&P Global Corporate Sustainability Assessment benchmarked<sup>1</sup> global Metals & Mining companies; ESG score jumped by 14 points to 76
- 1<sup>st</sup> Indian metals and mining company to pledge 7 Million Trees as part of WEF '1 trillion trees' campaign
- Vedanta Delhi Half Marathon: #RunForZeroHunger – Contributed 2 mn Meals
- Cairn and IOB turns water positive
- EOI for additional 500 MW renewable energy (RE) procurement after 580 MW RE power delivery agreement in 1Q
- HZL Pantnagar becomes our 1<sup>st</sup> unit to run entirely on RE power
- Rolled out internal carbon pricing, completed climate risk assessment and started scope -3 emission reporting
- India's 1st Battery Electric Vehicle (BEV) in UG Mine introduced at HZL's Zawar mine



## Operational

Key businesses continue to deliver strong operating performance:

- **Aluminium** production grew 3%YoY; JSG completed capacity ramp-up to 1.8 MTPA; restarted Chotia coal mine
- **Zinc India** refined metal production grew 13%YoY on account of consistent mined metal flow, better plant availability
- **Gamsberg** MIC production grew 27%YoY due to higher throughput ore grades and Zinc recoveries
- **Oil and Gas** lower production was partially offset by infill wells in MB<sup>2</sup> and RDG<sup>3</sup> field; Signed 10-year extension to operate Rajasthan Oil block
- **Steel** saleable production increased by 2% YoY with completion of debottlenecking activities in 2Q FY23
- **FACOR** ore production grew by 18% YoY



## Financial

- Revenue of \$ 9,523 mn, up 21%YoY
- EBITDA of \$ 2,487 mn with EBITDA margin of 29%<sup>5</sup>
- Net debt / EBITDA of 2x – maintained at low level
- Proactive strategic hedging for risk management; recorded \$ 315 mn gain
- Robust cash generation; FCF (pre capex) \$ 1.4 bn
- Strong double-digit RoCE at ~29%
- Deleveraged VRL by \$1.35 bn in H1FY23

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

Total Beneficiaries

2.40+ mn

1H FY23 CSR Spend<sup>1</sup>

₹ 147+ crores

Total Nandghars

3609

## Areas of Focus in CSR



**Healthcare**  
> 30 Initiatives



**Drinking water and sanitation**  
> 17 Initiatives



**Community Infrastructure**  
15 Initiatives



**Children's well-being and education**  
> 26 Initiatives



**Environment protection & restoration**  
> 5 Initiatives



**Women Empowerment**  
> 7 Initiatives



**Sports and culture**  
> 12 Initiatives



**Agriculture and animal husbandry**  
> 11 Initiatives

## Key Initiatives of CSR



Nand Ghar



Saplings Plantation



Sakhi Utpadan Kendra



Agriculture






Mobile health units



Archery Academy






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

Our aims	Key KPIs (UoM)	Baseline (FY21)	2030 Target	Key strategic initiatives/outcomes
 <p><b>Net carbon neutrality by 2050 or sooner</b></p>	Absolute GHG emissions (TCO <sub>2</sub> e)	60mn	45mn	<ul style="list-style-type: none"> <li>500 MW RE power EOI issued</li> <li>Biomass usage ~28000 MT in 1H FY23</li> <li>~ 1 Billion units of RE power procured in Aluminium BU in 1H FY23</li> <li>Planned Turbine(1) revamping for efficiency improvement. Ordering to be planned in 3Q.</li> <li>Biodiesel pilot project launched at Balco</li> <li>Internal Carbon Price rolled out from 1<sup>st</sup> Oct</li> <li>Waste heat power generation augmented by 5MW to 35MW at VAB</li> </ul>
	GHG intensity (TCO <sub>2</sub> e/T of metal)	6.45	5.2 (2025)	
	Renewables in operations (RE RTC, MW)	67	2.5 GW	
 <p><b>Achieving net water positivity by 2030</b></p>	Water recycled (%)	31	Net Water Positive	<ul style="list-style-type: none"> <li>Completed water risk assessment for all business units</li> <li>Completed third party audit at VZI's BMM site for water positivity</li> <li>Onboarded partner and initiated field visits for Cairn's 1.05 million cubic meter rainwater harvesting project</li> <li>Jharsuguda Smelter-1 becomes national benchmark in water efficiency</li> </ul>
	Waste utilization (HVLT) (%)	94	Zero Legacy waste(2027)	
 <p><b>Innovating for a greener business model</b></p>	R&D for new technologies	-	Ongoing	<ul style="list-style-type: none"> <li>Finalized contract with leading cement manufacturers for utilization of 80 Kt of 'Spent Pot Line' waste</li> <li>Vedanta commits to plant 7 million trees by 2030; as part of 1 trillion tree initiative by World Economic Forum</li> <li>TSPL signs MOU to set up the grinding unit for fly ash utilization</li> <li>Collaborating of VAB and IIT Bombay for development of process for hydrogen usage in Blast furnace and basic oxygen furnace</li> </ul>
	Waste utilization (HVLT) (%)	94	Zero Legacy waste(2027)	



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

Our aims	Key KPIs (UoM)	Baseline (FY21)	2030 Target	Key strategic initiatives/ outcomes
 <p><b>Prioritizing safety and health of employees</b></p>	Fatal incidences (Number)	8	Ongoing target- Zero Fatalities	<ul style="list-style-type: none"> <li>Launched CRM- Top 3 risk control initiatives</li> <li>Real time tracking of fatal potential observations for closure within 24 hours of reporting</li> <li>Launched HSE Digital- Incident Management module via Enablon platform</li> <li>Development of uniform procedures/guidance for VFL and SI across group is under progress</li> </ul>
 <p><b>Promote gender parity, diversity and inclusivity</b></p>	Gender diversity in organization (%)	11.2	20% women employees	<ul style="list-style-type: none"> <li>Identified 120 women leaders across grades and functions who are being developed for future CXO roles</li> <li>Vice Chairman workshops for women leaders</li> <li>Vedanta DEI council is set to launch 'V-Shakti' – A Women Leadership Development Program in 3Q FY23</li> <li>Workshops on Unconscious Bias for managers and Gender Intelligence for CXOs to launch in 3Q FY23</li> </ul>
 <p><b>Adhere to global business standards of corporate governance</b></p>	Zero controversies on corporate governance (Number)	0	Ongoing target- Zero controversy	<ul style="list-style-type: none"> <li>Voluntarily released Integrated Annual Report, Annual Sustainability report, BRSR, TCFD, and Tax Transparency report</li> <li><b>VEDL awarded with 'Golden Peacock Global Award' for excellence In Corporate Governance - 2022</b></li> </ul>

# Key ESG projects across Vedanta



## Green Copper (Sterlite Copper)

**Aim 4:** Net Carbon neutral by 2050 or sooner

Pilot completed for 3 kt in FY22 through scrap recycling; being replicated in FY23

**Reduction of lifecycle GHG emissions**



## Remote Blasting (HZL)

**Aim 7:** Prioritizing safety and health

Installation of Centralized Electronic Blasting System

**Reduced Man-power and Improved safety**



## Reducing Gas Flaring (O&G)

**Aim 4:** Net zero carbon by 2050 or sooner

Recover & monetize flare gas to use as CNG and produce ~0.5 MW power

**Estimated Reduction of ~18,000 TCO<sub>2</sub>e/annum by FY23**



## Watershed Management

**BU:** VAL - Lanjigarh  
**Aim 5:** Achieving net water positivity

**4.6 million m<sup>3</sup> water recharged through infra creation | Improving livelihoods of community**



## Project Ranchi

**Function:** HR

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



## Fly ash utilization

**BU:** TSPL

**Outcome:** Utilization in cement, road const. and brick manufacturing; MoU for 4 MTPA cement grinding unit



## Ash pond water reuse

**BU:** VAL - Jharsuguda

**Outcome:** 5,000 m<sup>3</sup>/day of water reuse in power plant operations



## 5% Biomass co-firing

**BU:** All metals & power

**Outcome:** Estimated Biomass co-firing for FY23 134,000 MT



Click to  
watch video

[What is the trillion-tree movement and why does it matter?](#)<sup>1</sup>

### Vedanta to plant 7 million trees

Aim 7: Innovations for greener business model



- Part of World Economic Forum's "1 Trillion Tree" initiative – 1t.org
- Trees to be planted between 2020 – 2030
- Includes reforestation, agro-forestry, mangrove restoration

**~175 million kg CO<sub>2</sub>/annum  
reduction potential**



# Vedanta Delhi Half Marathon: #RunForZeroHunger – contributed 2 Mn Meals



Media Mentions  
**200+**



**40k+ Runners**  
**2 Mn Kilometres = 2 Mn Meals**

Social Media Mentions  
**15k+**



Shri Manish Sisodia at the Flag Off Mrs. Mallika Nadda at Prize Distribution

**VEDANTA EMPLOYEES**  
**15k+ Runners 1 Mn+ Kilometres**



Vedanta Leadership with Dy. CM



Vedanta Employees at VDHM



Medal made with the zinc from the oldest Zawar mines



20+ national ads in national dailies

Delhi Half Marathon symbolises the spirit of India, says distance running legend Haile Gebrselassie



Coverage across top publications

Delhi Half Marathon, Anil Agarwal's 'Zero Hunger' dream | In conversation with Vedanta's Priya Agarwal



**SYNOPSIS**  
• Priya Agarwal, Vedanta's non-executive director, shares her vision about Vedanta's entering the domain of sports sponsorship

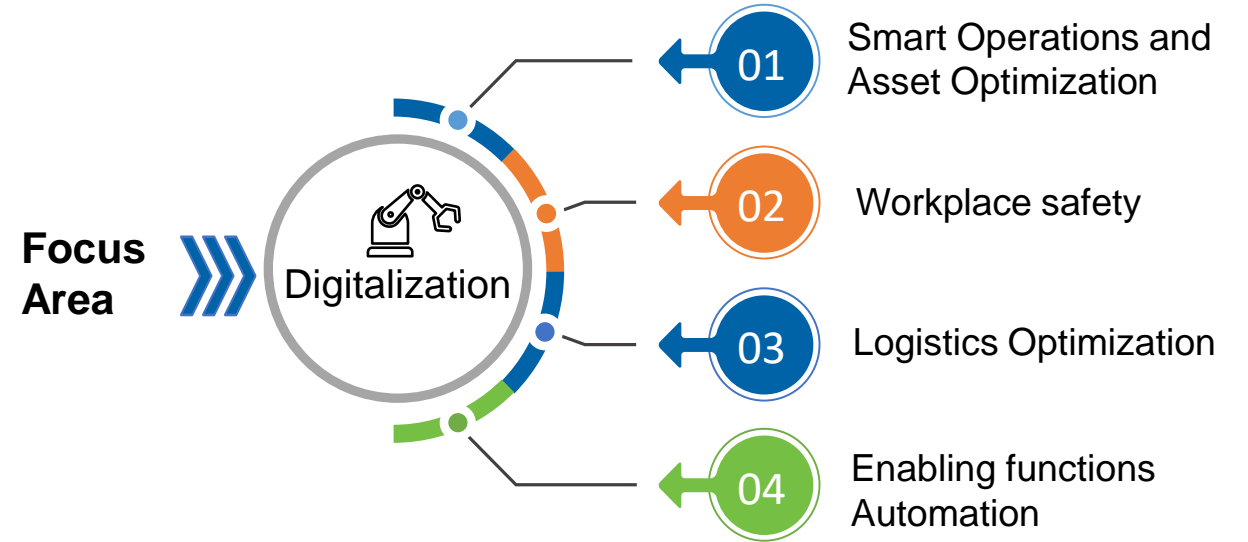
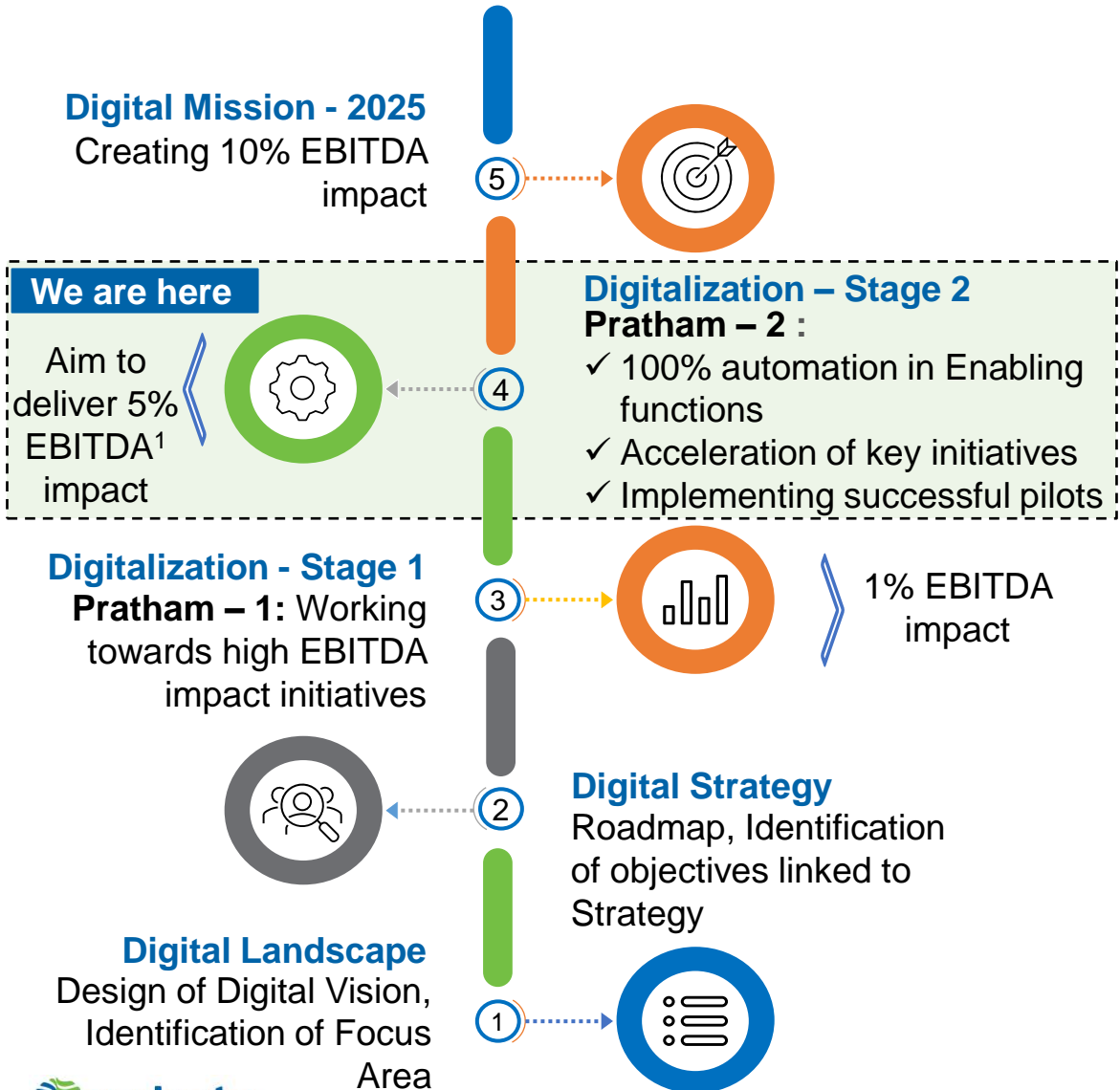


Priya Agarwal Hebbal & Milind Soman

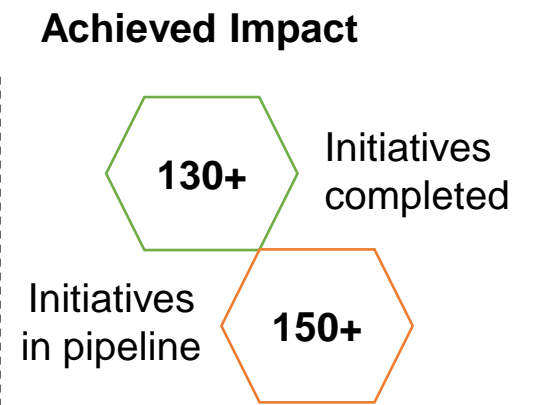


Vedanta Townhall with Haile, VDHM Ambassador

# Digitalization focus to become a data driven organization



- Key tools/techniques being used**
- Advanced process control (APC)
  - Predictive analytics
  - Asset performance monitoring (APM)
  - xR based training<sup>2</sup>



1. 5% number is based on FY22 EBITDA, 2. xR: Extended Reality



# Digitalization Use Case : Smoke Hour Drilling

## KPI: Smoke hour drilling meters

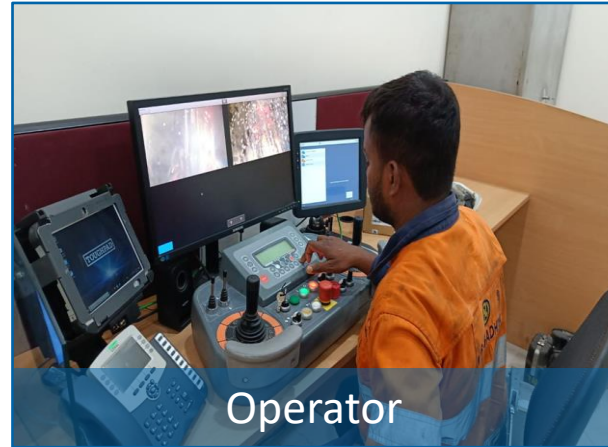
Automatic operations from Surface with Minimal manual intervention during shift changeover and after blasting

### Outcome and advantages:

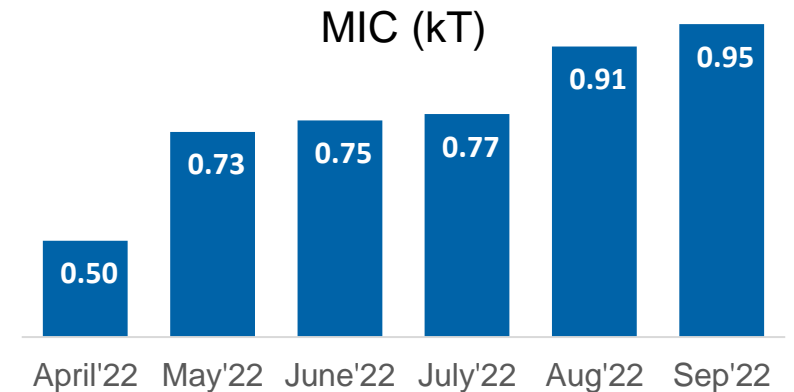
- ✓ Provides flexibility and control in challenging environments through advanced automation
- ✓ Increased productivity of 0.5 KT MIC per month

### Current Status:

- ✓ Being used in SK<sup>1</sup> and RA<sup>2</sup> mines
- ✓ Solos<sup>3</sup> 16 running from surface
- ✓ 7 km drilled in Sep'22 Tele-remote mode



MIC Impact per month



Next Step

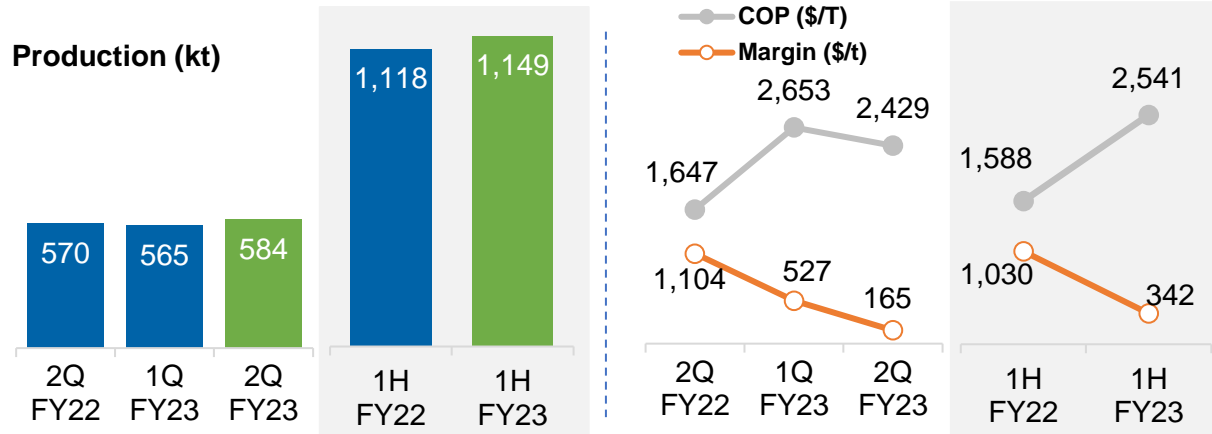


Target to drill 8 Km/month using Tele remote drilling facility in FY23

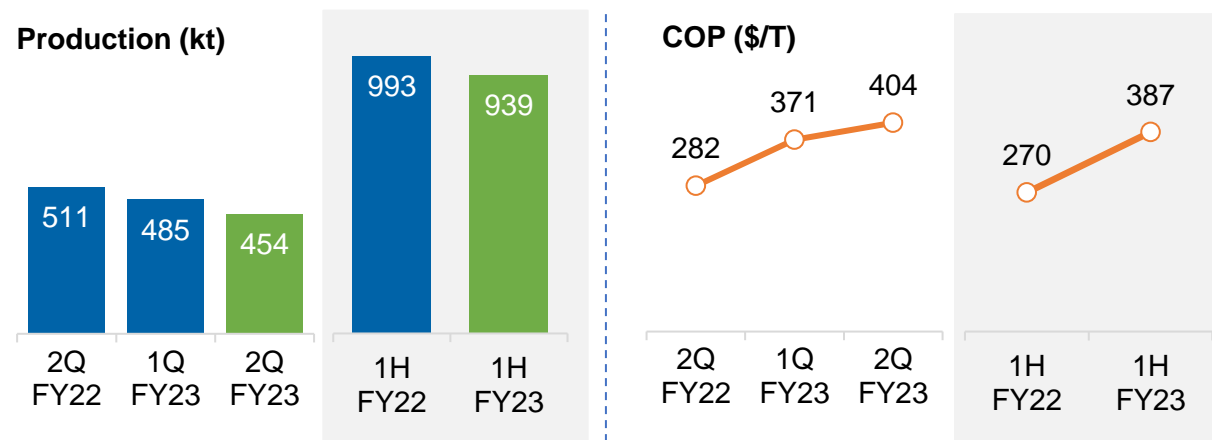


# Aluminium: strong volume delivery and improved COP on operational and buying efficiencies

## Aluminium: Achieved record metal production



## Alumina: production and COP



## Key highlights:

### Quarterly:

- Aluminium production up 3% QoQ and 2% YoY
- VAP sales stood 213 kt
- Aluminium COP decreased by 8% QoQ; driven by improved operational and buying efficiencies
- Alumina production decreased by 6% QoQ and 11% YoY due to scheduled maintenance
- Restarted Chotia coal mine operations in Sep'22

### Half Yearly:

- Aluminium production increased by 3% YoY
- Aluminium COP higher YoY due to higher energy cost and headwinds in input commodity prices

# Aluminium: growth and vertical integration projects underway to reduce market volatility impact and create value

- **Aluminium capacity expansion to 3 MTPA**
  - JSG capacity ramp-up to 1.8 MTPA – **Completed**
  - Balco capacity expansion to 1 MTPA – 2QFY24
  - Debottlenecking for balance 0.2 MTPA – 3QFY24
- **Value added product capacity expansion to 90%**
  - JSG VAP expansion to 1.6 MTPA – 2QFY24
  - Balco VAP expansion to 1.1 MTPA – 2QFY24
- **Alumina capacity expansion**
  - Environmental clearance is in place
  - New 3MTPA expansion project
    - Train I, 1.5 MTPA – 4QFY23
    - Train II, 1.5 MTPA – 3QFY24
  - 1 MTPA via debottleneck initiatives – FY24
- **Bauxite security:**
  - Enhance delivery from existing mine
  - Participation in new mines auction
- **Coal security: 100% operationalization of all coal mines**
  - 1.0 MTPA Chotia – Mining recommenced in Sep'2022
  - 2.6 MTPA Jamkhani - mining to commence in 3QFY23
  - 6 MTPA Radhikapur (W) – mining targeted by 2QFY24
  - 8 MTPA Kurloi (North) – mining targeted by 4QFY24
  - 20 MTPA Ghogharpalli – Declared as successful bidder
  - Barra Coal Block – estimated reserves of 900mnt

## Lanjigarh refinery expansion projects status



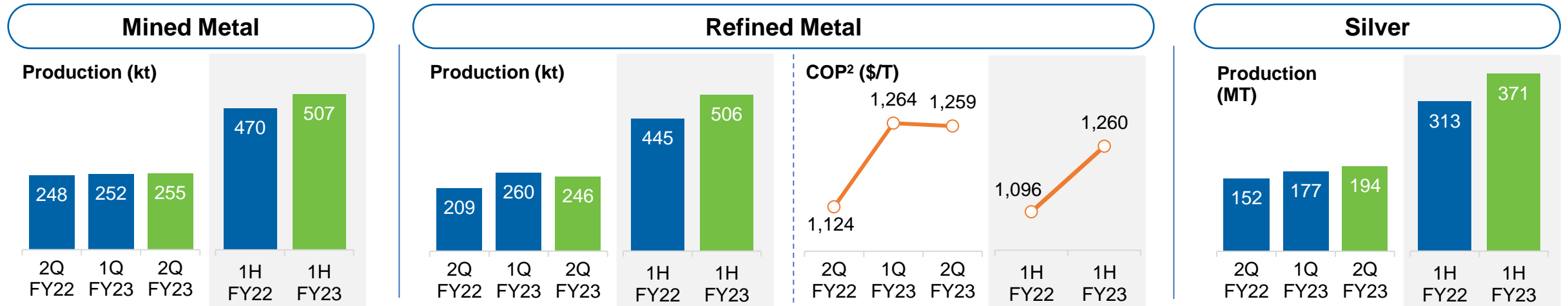
# Zinc India: delivering sustainable growth

## Key quarterly performance highlights:

- Highest-ever 2Q mined metal production up 3% YoY
- Best-ever 2Q refined metal production<sup>1</sup>, up 18% YoY driven by improved smelter performance and better mined metal availability; last year volume was impacted by extended maintenance shutdown
- Integrated zinc, refined lead and silver production increased by 16%, 22% and 28% on YoY basis, respectively
- COP improved marginally on QoQ basis on operational efficiencies despite higher coal and other input commodity prices; continues to be in 1<sup>st</sup> quartile cost curve globally

## Key half yearly performance highlights:

- Best-ever first half mined metal production, up 8% YoY
- Highest-ever first half refined metal up 13% YoY driven by consistent mined metal flow from mines and better plant availability
- Integrated zinc, refined lead and silver production increased by 13%, 16% and 19% on YoY basis, respectively



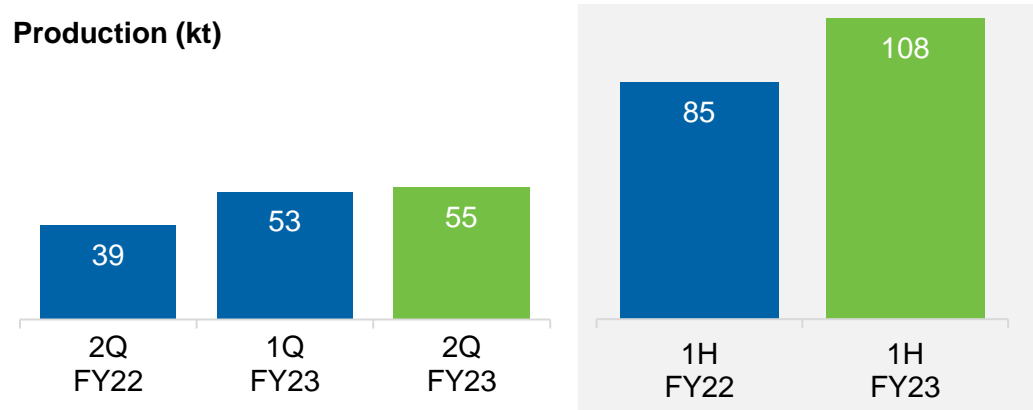
1. Production impacted due to breakdown of an acid storage tank at Chanderiya plant in 2Q FY23  
2. COP is excluding royalty



# Zinc International: Gamsberg delivers record MIC production; cost improves on increased recovery and operational efficiency

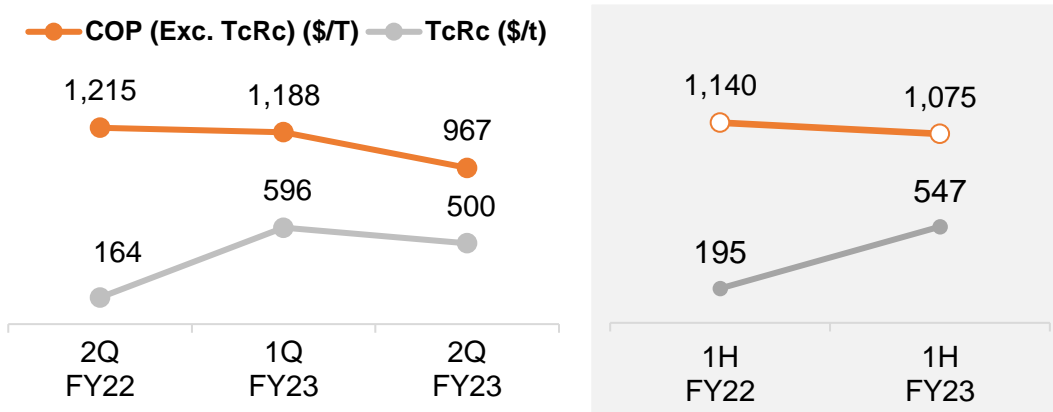
## Gamsberg - Production

Production (kt)



## Gamsberg - COP

— COP (Exc. TcRc) (\$/T) — TcRc (\$/t)



## Key highlights:

### Quarterly:

- Achieved highest ever MIC production 43%YoY growth
- Highest recovery of 78.5%. Highest concentrate grade produced in Sep'22 – 49%. Highest ore treatment 1.08MT. Successfully completed the South Pit Recovery
- COP exc. TcRc decreased by 20%YoY driven by operational efficiencies, higher MIC production, exchange rate depreciation and lower mining costs partially offset by lower by-product credits

### Half Yearly:

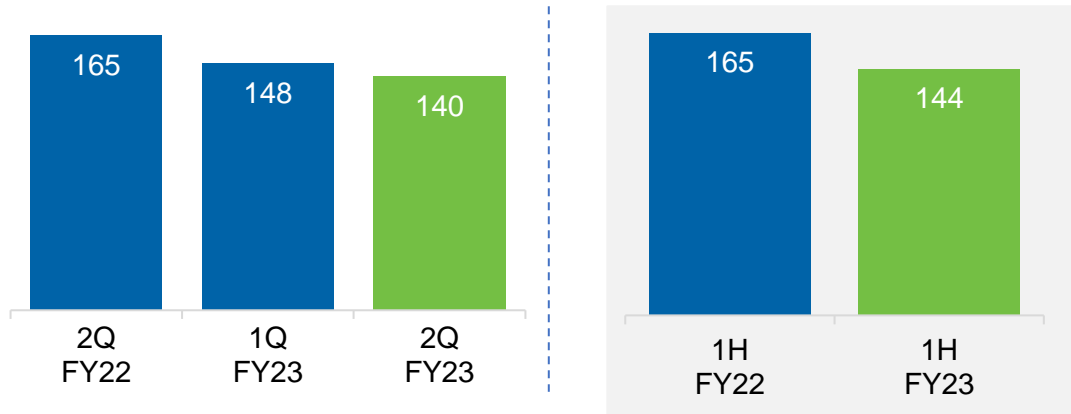
- Achieved highest MIC production of mined metal with 27% YoY growth
- COP exc. TcRc lower by 6%YoY

### Gamsberg phase 2:

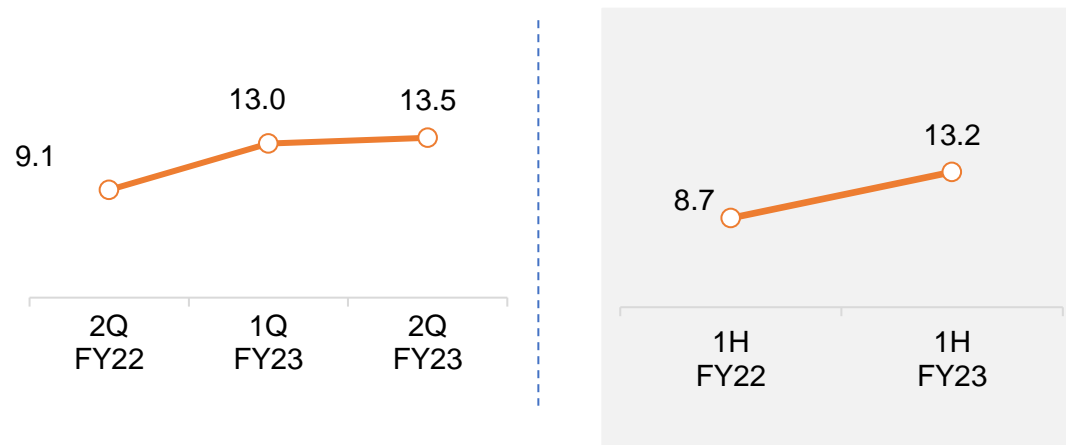
- Project progress on track of completion by 2H FY24
- Mining contractor appointment is scheduled 3Q FY23

# Oil & Gas: lower production was partially offset by infill wells; focused on delivery of growth projects

## Gross production (kboepd)



## Opex (\$/boe)



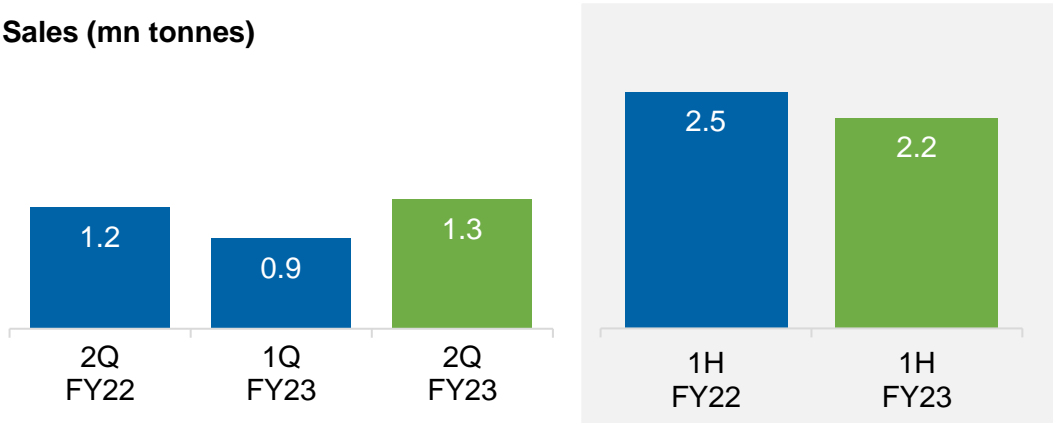
## Key highlights:

- **Production:** Impact of natural decline in Rajasthan and Offshore blocks partly offset by infill wells in Mangala, Bhagyam and Raageshwari Deep Gas
- **Opex:** \$13.2/boe in 1H FY23 compared to \$8.7/boe in 1H FY22 mainly due to increase in polymer prices and maintenance activities
- **New Blocks:** Secured 8 blocks in DSF-III round & 1 block in special CBM round 2021
- **Growth Projects:**
  - **Infill wells:** Drilled 17 wells across Bhagyam, ABH, Satellite Fields and Raageshwari Deep Gas
  - Jaya and Hazarigaon facilities completion in progress; production to start in 3Q FY23.
  - **Exploration:** 2 exploration wells drilled in Ravva; Success in one well which has been put to production.
  - **Shale:** Drilling commenced for first well in Rajasthan block to unlock the unconventional potential

# Iron ore and VAB

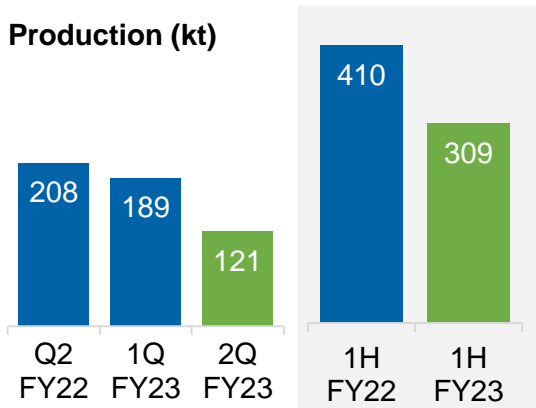
## Karnataka Iron ore sales

Sales (mn tonnes)

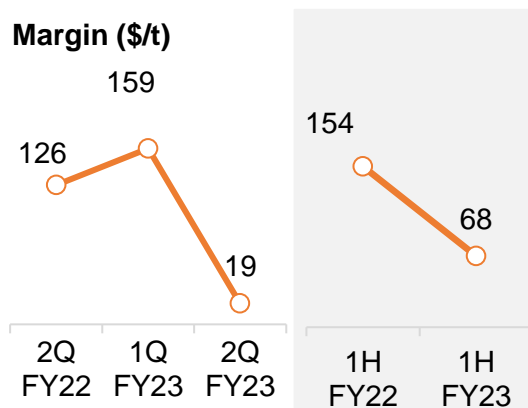


## VAB : Production and Margin

Production (kt)



Margin (\$/t)



## Iron ore – Karnataka:

- Quarterly sales increased 8%YoY and 44% QoQ
- Half yearly Iron ore sales was down by 11%YoY due to delay in implementation of procedural changes by DMG for sale of material

## Value added business (VAB):

- Quarterly VAB production was lower by 42%YoY and 36%QoQ due to shutdown taken at the smaller blast furnaces. Half yearly VAB production was lower by 24%
- VAB quarterly margin was lower by 85% YoY and 88% QoQ. Margins were impacted mainly due to imposition of export duty

## Iron ore – Western Cluster, Liberia:

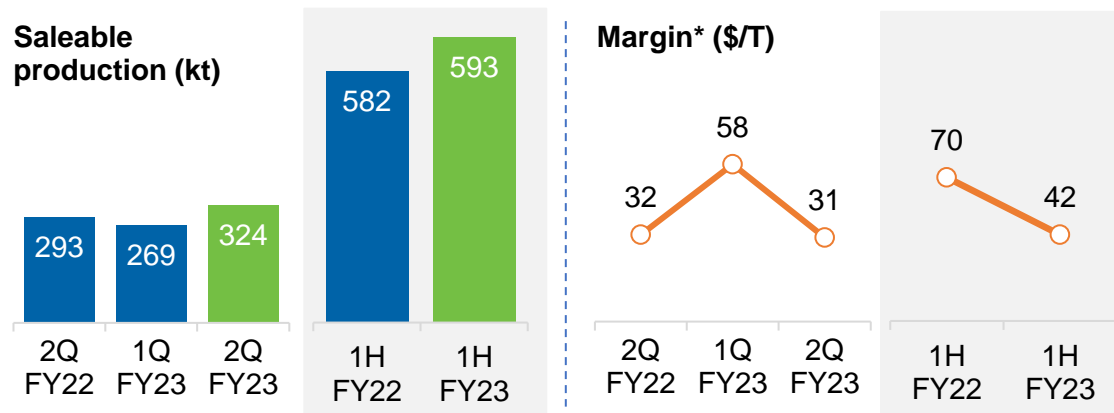
- Ore production started in July and material transportation from mine to port started on 16<sup>th</sup> Sep.
- All necessary government approvals were obtained.
- First shipment planned in 3Q FY23



# ESL Steel and FACOR

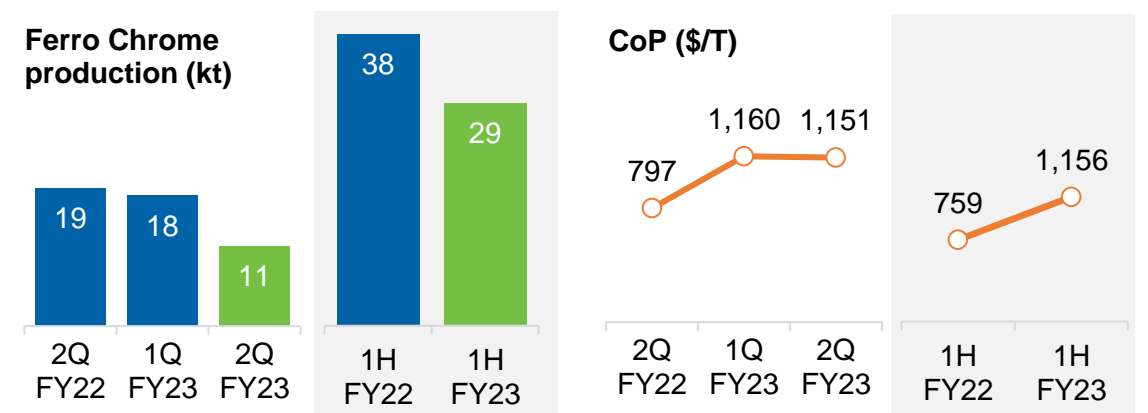
## ESL: key performance highlights

- Quarterly saleable production up 11%YoY on account of completion of debottlenecking activity in blast furnace -3 in 2Q FY23
- Half yearly saleable production increased by 2%YoY despite decrease in hot metal due to improvement in yield.
- Margins decreased amidst softening of steel prices post imposition of export duties by GOI and higher Coking coal prices



## FACOR: key performance highlights

- Quarterly and Half yearly ore production higher by 43% YoY and 18% YoY respectively due to operational efficiencies.
- Quarterly Ferro Chrome production was lower 39%QoQ and 42%YoY on account of shutdown taken for relining of furnace in 2Q FY23.
- Half Yearly Ferro Chrome production was lower by 22% YoY in line with planned maintenance shutdown of Furnace in 2Q FY23
- Quarterly CoP maintained at 1Q FY23 level
- New 60ktpa furnace is on track to be commissioned by Dec'22



# Strategy to enhance long term value

## STRATEGIC PRIORITIES



**Committed to ESG leadership**

- Achieve net zero carbon mission by 2050 and water positivity by 2030

**Augment reserves & resources base**

- Disciplined approach to exploration

**Operational excellence and cost leadership**

- Focus on full capacity utilization
- Improve business efficiencies
- Maintain 1st quartile cost curve positioning globally
- Digital transformation

**Optimize capital allocation & maintain strong Balance Sheet**

- Maximize Free cash flow and optimize leverage
- Disciplined capital allocation
- Proactive risk management

**Delivering on growth opportunities**

- Timely execution of growth projects
- Focus on growing our operations organically through brownfield opportunities

## FOCUS AREAS







**VEDANTA  
RESOURCES LIMITED  
INVESTOR PRESENTATION  
1HFY23**

**Finance Update**

**Ajay Goel**  
Acting Group Chief  
Financial Officer



# 1H FY23 financial snapshot

(In \$ mn)



Revenue

**\$ 9,523 mn**



21% YoY



EBITDA

**\$ 2,487 mn**



13% YoY



EBITDA Margin<sup>1</sup>

**29%**

Strong margin



ROCE <sup>2</sup>

**c.29%**



Cash and Cash equivalents

**\$ 3,470 mn**

Strong liquidity position



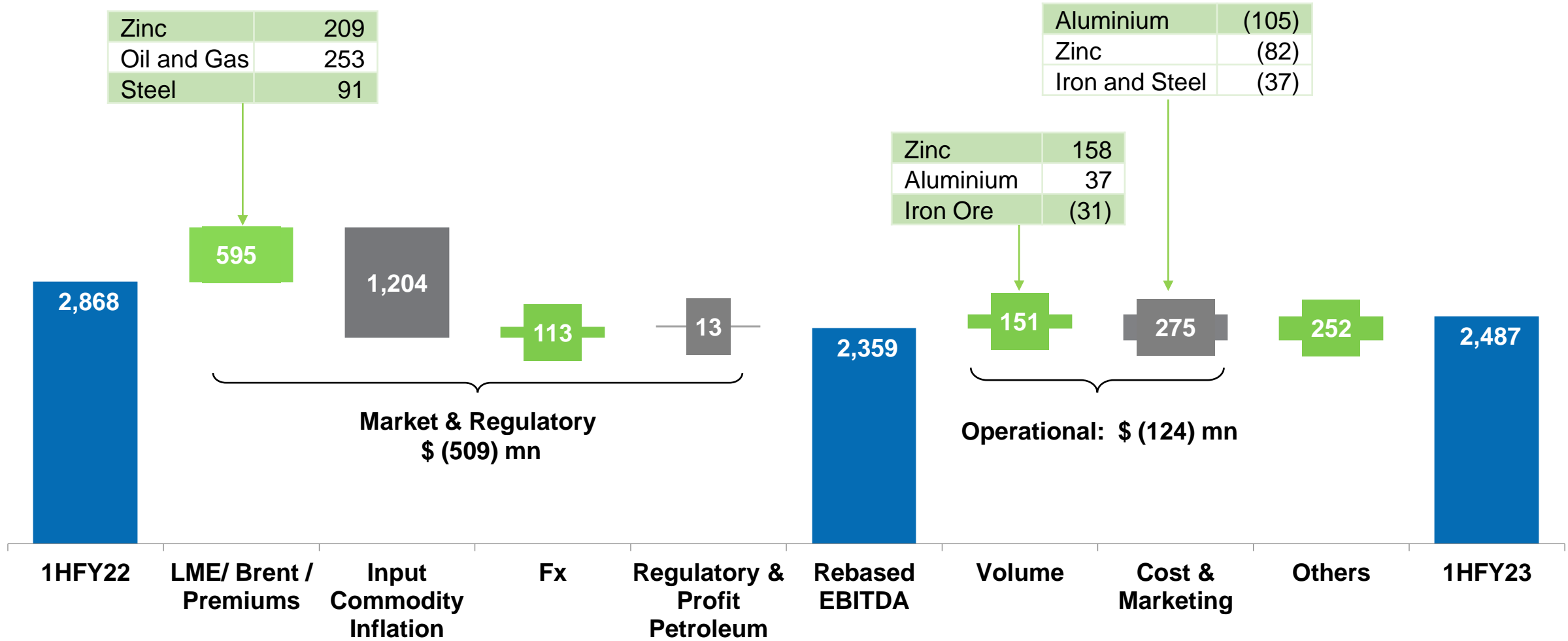
Net Debt / EBITDA

**2x**

Maintained at low-level

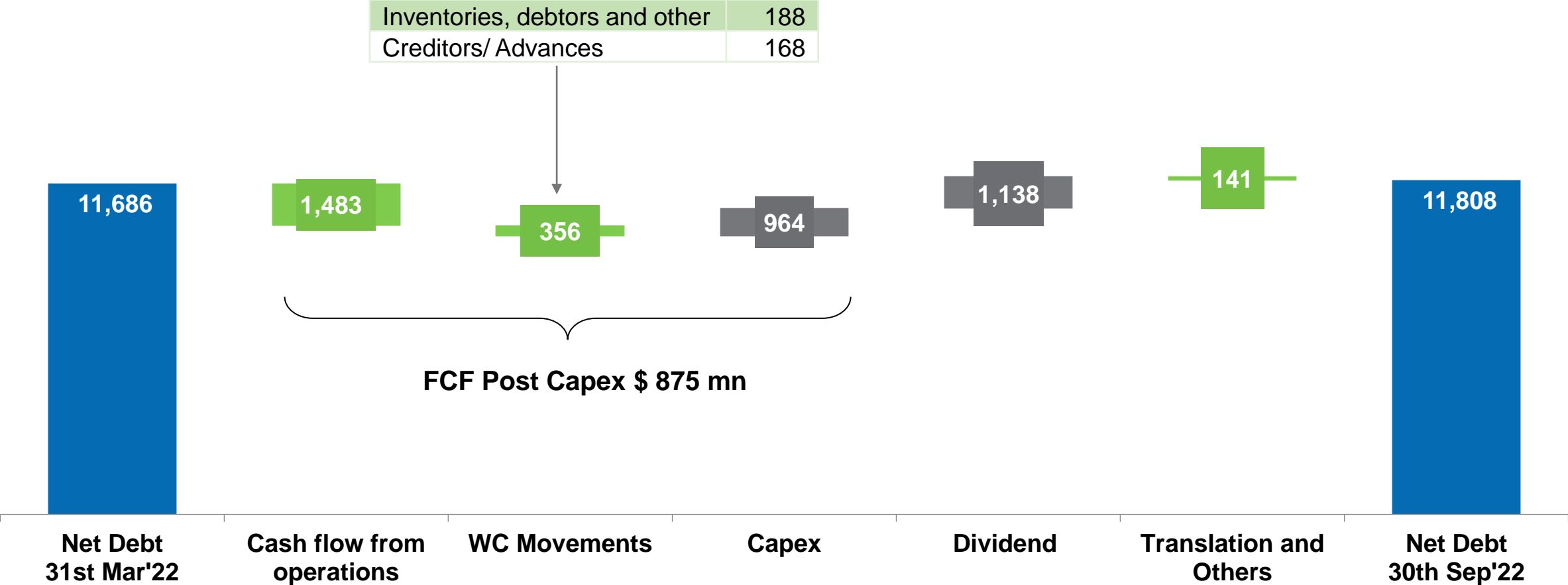
# EBITDA bridge 1H FY23 vs. 1H FY22 (YoY comparison)

(In \$ mn)



# Net Debt Walk 1H FY23

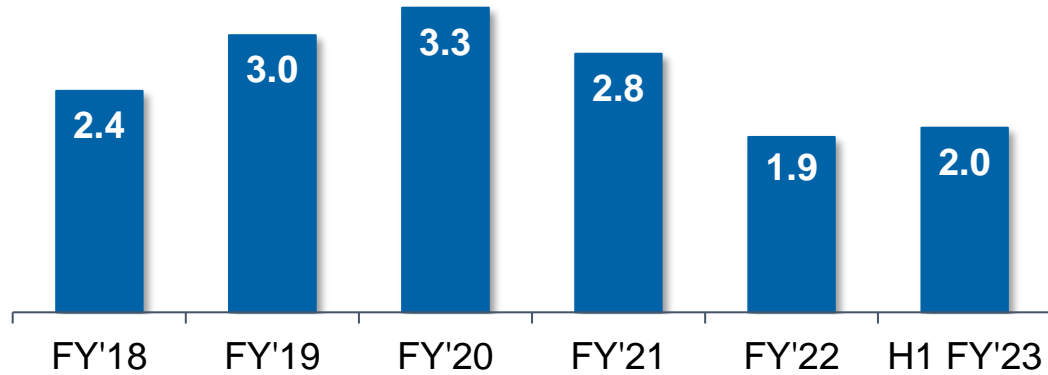
(In \$ mn)





## Balance sheet and debt breakdown

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



- **Liquidity:** Cash and cash equivalents at \$ 3,470 mn
- **Net Interest \* :**
  - **Interest Income** – Returns ~5.3%
  - **Interest Expense** – interest rate ~8.3%

### Debt breakdown

(as of 30<sup>th</sup> Sep 2022)

Gross Debt	In \$bn
Term debt	13.9
Working capital	0.4
Short term borrowing	1.0
<b>Total consolidated debt</b>	<b>15.3</b>
<b>Cash and Cash Equivalents</b>	<b>3.5</b>
<b>Net Debt</b>	<b>11.8</b>
<b>Debt breakup (\$15.3 bn)</b>	
- INR Debt	44%
- USD / Foreign Currency Debt	56%

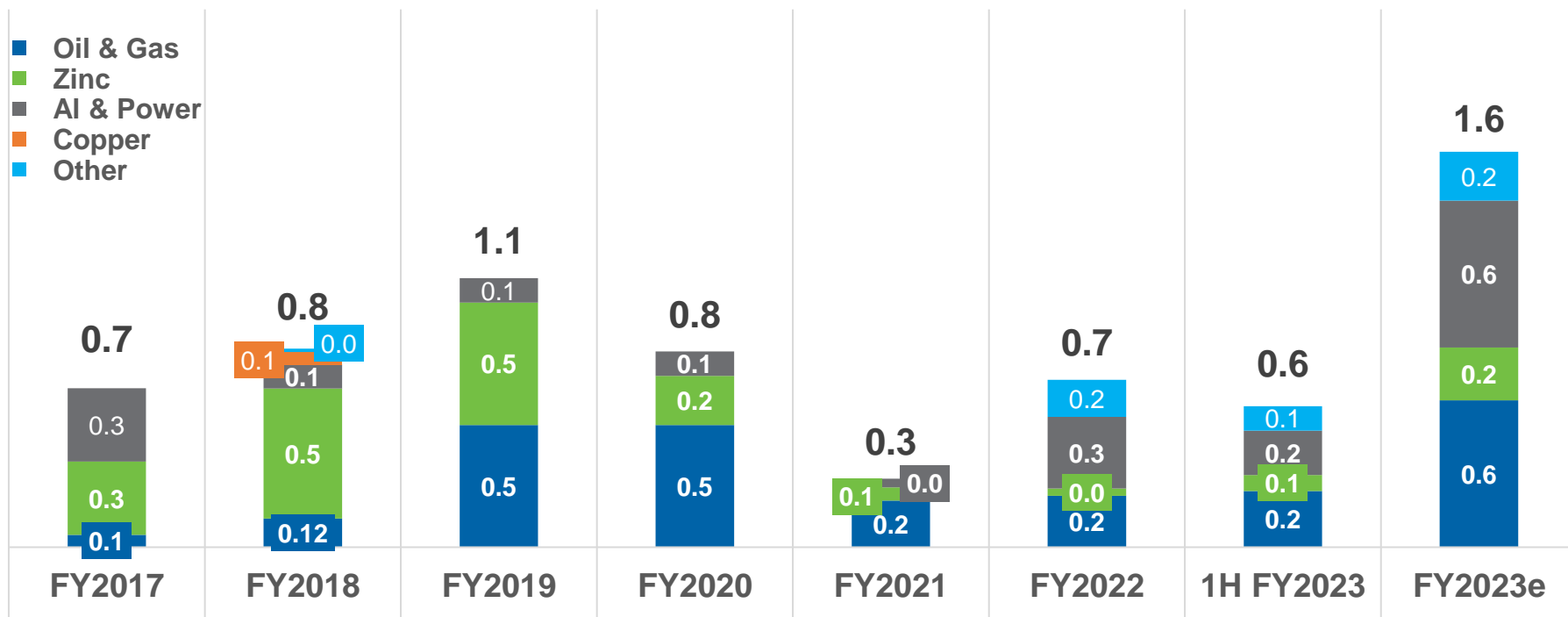
# Growth capex and returns profile

\$ bn

Full year Capex guidance

1.0	1.2	1.5	1.2	0.7	1.1	1.6
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Growth Capex profile



FCF pre capex

~2.4	~1.7	~2.1	~1.6	~1.7	~2.4	~1.4
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ROCE<sup>1</sup>

~13%	~14%	~10%	~10%	~19%	~32%	~29%
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1. ROCE is calculated as EBIT net of tax outflow divided by average capital employed on LTM basis



**VEDANTA LIMITED  
INVESTOR PRESENTATION  
1H FY23**

**Appendix**



## Zinc India

- Mined Metal : 1,050 - 1,075 Kt
- Finished Metal: 1,000 – 1025 Kt
- Silver: c. 700 - 725 tonnes
- COP (FY23): \$1,225/t - \$1,275/t excluding royalty

## Zinc International

- Gamsberg: 200 - 225 tonnes
- BMM: 60 – 70 Kt
- COP (2H FY23): \$1,300/t – \$1,400/t

## Iron Ore

- Karnataka (WMT): 5.0 – 5.5 Mtpa
- Pig Iron: 750 - 800 Ktpa
- Goa: To be updated on re-start of operations

## ESL

- Hot Metal: 1.5 mn tons

## Aluminium

- Alumina: 2.0 - 2.1 Mtpa
- Aluminium: 2.2 - 2.3 Mtpa
- COP<sup>1</sup> (2H FY23): \$2,150/t - \$2,250/t

## Oil & Gas

- Average Gross Volume: 145-155 kboepd
- Opex (2H FY23): \$13-14/boe

## Power

- TSPL plant availability: >85%

## Copper - India

- To be updated on re-start of operations

# Income statement

## ▪ Depreciation & Amortization

- Higher by 14% YoY mainly due to increase in depletion charge in Oil & Gas business and amortization in Zinc India

## ▪ Finance Cost

- Increased 12% YoY due to increase in blended rate of borrowings and one-time expenses.

## ▪ Taxes

- The normalised ETR is 42% (including special items) as compared to 34% (including special items) in 1H FY22

In \$ Mn	(In \$mn)	
	1H FY23	1H FY22
Revenue from operations	9,523	7,870
<b>EBITDA</b>	<b>2,487</b>	<b>2,868</b>
Depreciation & Amortisation	(648)	(567)
Exploration wells written off	(13)	-
<b>EBIT</b>	<b>1,826</b>	<b>2,301</b>
Finance Cost	(749)	(670)
Investment Revenue	99	88
Other Gains/ (Loss)	(80)	(22)
Special Items- credit/ (expense)	33	(44)
Profit before Special Items and Tax	1,096	1,697
<b>Profit before Tax</b>	<b>1,129</b>	<b>1,653</b>
Tax - before special items- credit/(expense)	(491)	(575)
Tax charge- Special Items- credit/(expense)	20	15
<b>Profit After Tax (PAT) from Continuing Operation</b>	<b>658</b>	<b>1,093</b>
Profit before Special Items	605	1,122
Attributable profit/(loss)	154	374
Attributable profit (before Special Items)	117	390

## Project capex

Capex in Progress (In \$ mn)	Status	Approved Capex <sup>2</sup>	Spent up to FY22 <sup>3</sup>	Spent in 1HFY23	Unspent <sup>4</sup> as on 30 <sup>th</sup> Sep 2022
<b>Cairn India</b> <sup>1</sup> – Mangala infill, Bhagyam & Aishwariya Polymer, Liquid handling , ASP , OALP, Tight oil & gas etc.		3,070	1,178	204	1,688
<b>Aluminium Sector</b>					
Jharsuguda 1.25mtpa smelter, 550ktpa VAP capacity expansion	In progress	3,280	3,035	69	176
Lanjigarh Refinery – 5mtpa	In Progress	1,563	964	85	513
Balco smelter and Rolled product capacity expansion	In Progress	935	70	24	841
<b>Zinc India</b>					
Mine expansion		2,077	1,809	23	245
Others		630	156	7	467
<b>Zinc International</b>					
Gamsberg Phase II Project	In Progress	466	-	20	446
Iron Ore Project	In Progress	37	9	11	17
<b>ESL</b>					
1.5 to 3 MTPA hot metal		349	24	31	294
<b>Avanstrate</b>					
Furnace Expansion and Cold Line Repair		189	80	28	81
<b>Capex Flexibility</b>					
<b>Metals and Mining</b>					
Tuticorin Smelter 400ktpa	Project is under Force Majeure	717	198	1	518
Skorpion Refinery Conversion	Currently deferred till Pit 112 extension	156	17	-	139



## Entity-wise Cash and Debt

Company	Sep 30, 2022			Mar 31, 2022		
	Debt	Cash & Cash Eq	Net Debt	Debt	Cash & Cash Eq	Net Debt
Vedanta Limited Standalone	5,557	485	5,072	4,855	934	3,921
Cairn India Holdings Limited <sup>1</sup>	118	242	(124)	212	184	28
Zinc India	259	2,185	(1,926)	373	2,750	(2,377)
Zinc International	-	155	(155)	6	79	(73)
BALCO	127	48	79	149	98	51
Talwandi Sabo	841	18	823	928	12	916
ESL	305	47	258	358	114	244
Others <sup>2</sup>	(18)	66	(84)	143	79	64
<b>Vedanta Limited Consolidated</b>	<b>7,189</b>	<b>3,246</b>	<b>3,943</b>	<b>7,025</b>	<b>4,251</b>	<b>2,774</b>
<b>Vedanta Resources Ltd<sup>3,4</sup></b>	<b>8,088</b>	<b>224</b>	<b>7,864</b>	<b>9,058</b>	<b>145</b>	<b>8,913</b>
<b>Total consolidated (\$ Mn)</b>	<b>15,277</b>	<b>3,470</b>	<b>11,808</b>	<b>16,082</b>	<b>4,396</b>	<b>11,686</b>

Notes: Debt numbers exclude all 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

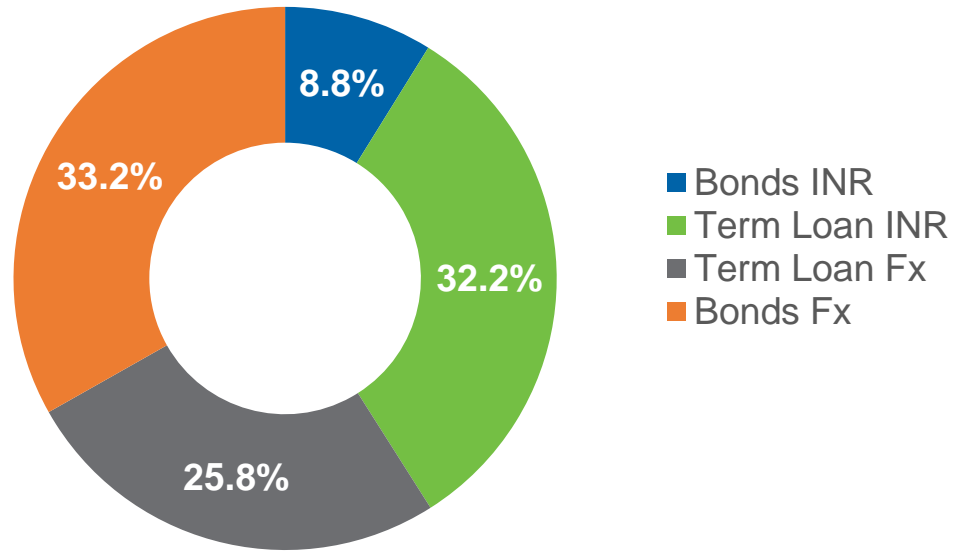
2. Others includes MALCO Energy, CMT, VGCB, Fujairah Gold, FACOR, Vedanta Limited's investment companies and ASI

3. Includes Investment companies.

4. During 1HFY23, VRL addressed \$2.55 bn maturities through dividend, brand fee and \$1.20 bn new financing. It achieved \$1.35 bn deleveraging including \$0.30 bn ICL repayment. VRL's net debt, after including \$0.45 bn ICL, has come down to \$8.31 bn.

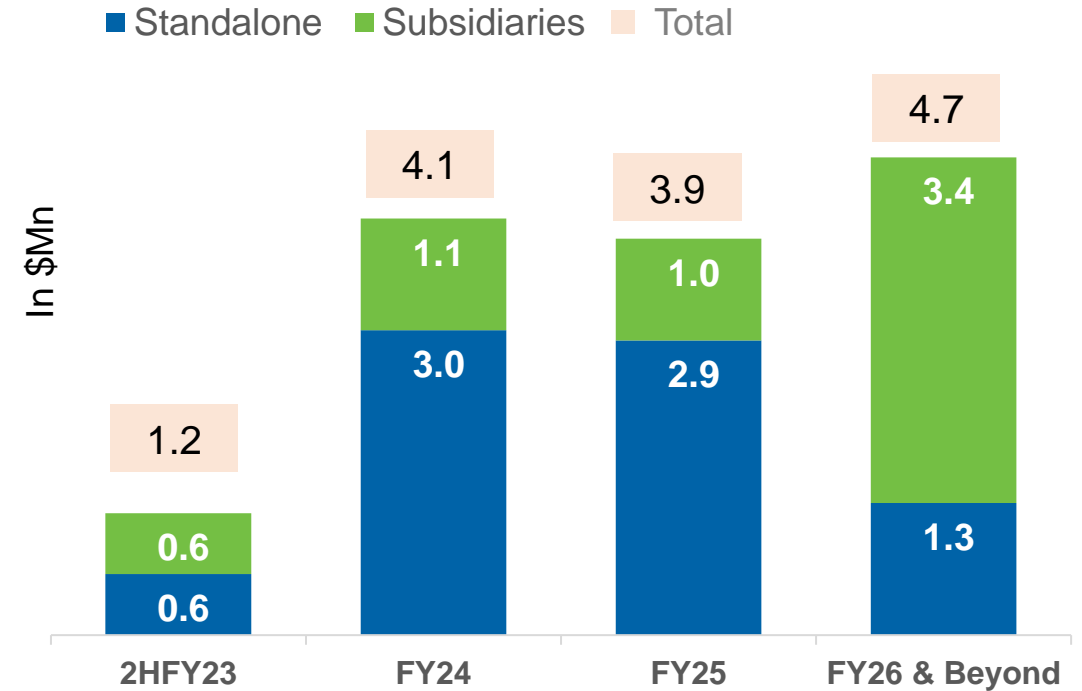
# Funding sources and term debt maturities

Diversified funding sources for long term debt of \$13.9 bn  
(as of 30<sup>th</sup> Sep 2022)



Long term debt of \$7.8 bn at Standalone and \$6.1 bn at Subsidiaries, and \$13.9 bn at consolidated level

Long term debt maturities: \$13.9 bn  
(as on 30<sup>th</sup> Sep'22)



## Segment-wise Summary

Oil & Gas	1H FY23	1H FY22
<b>Average Daily Gross Operated</b>		
<b>Production (boepd)</b>	<b>144,267</b>	<b>165,114</b>
Rajasthan	124,291	140,787
Ravva	10,468	14,471
Cambay	9,434	9,856
OALP	73	-
<b>Average Daily Working Interest</b>		
<b>Production (boepd)</b>	<b>93,676</b>	<b>106,288</b>
Rajasthan	87,004	98,551
Ravva	2,355	3,256
Cambay	3,774	3,942
KG-ONN 2003/1	470	538
OALP	73	-
Average Brent (\$/bbl)	107.3	71.2
Average realizations Oil & gas (\$/boe)	102.5	69.1
<b>EBITDA (\$mn)</b>	<b>525</b>	<b>334</b>

Zinc-India	1H FY23	1H FY22
<b>Mined Metal Content (kt)</b>	<b>507</b>	<b>470</b>
Refined Zinc – Integrated (kt)	395	350
Refined Lead – Integrated (kt) <sup>1</sup>	110	95
Saleable Silver – Integrated (in tonnes) <sup>2</sup>	371	313
Average Zinc LME (\$/t)	3,580	2,955
Zinc CoP (\$/t) <sup>3</sup>	1,260	1,096
<b>EBITDA (\$mn)</b>	<b>1,221</b>	<b>919</b>

Zinc-International	1H FY23	1H FY22
Mined Metal –Skorpion (kt)	-	-
Mined Metal – BMM (kt)	33	31
Refined Zinc – Gamsberg (kt)	108	85
<b>Total Zinc-Lead Metal (kt)</b>	<b>141</b>	<b>116</b>
CoP (\$/t)	1,582	1,321
<b>EBITDA (\$mn)</b>	<b>150</b>	<b>95</b>





## Segment-wise Summary (cont'd)

Aluminium	1H FY23	1H FY22
<b>Aluminium Production (kt)</b>	<b>1,149</b>	<b>1,118</b>
Jharsuguda	866	828
Korba	283	291
Average Aluminium LME (\$/t)	2,604	2,528
Aluminium COP (\$/t)	2,541	1,588
Jharsuguda	2,509	1,550
Balco	2,641	1,696
<b>Alumina Production (kt)</b>	<b>939</b>	<b>993</b>
Alumina COP (\$/t)	387	270
<b>EBITDA (\$mn)</b>	<b>367</b>	<b>1,133</b>

Copper	1H FY23	1H FY22
<b>Copper Cathodes– India (kt)</b>	80	58
Average Copper LME (\$/t)	8,594	9,531
<b>EBITDA (\$mn)</b>	<b>(4)</b>	<b>(19)</b>

FACOR	1H FY23	1H FY22
<b>Total Production (kt)</b>	174	147
Ore Production (kt)	29	38
Margin (\$/t)	194	537
<b>EBITDA (\$mn)</b>	<b>10</b>	<b>21</b>

## Segment-wise Summary (cont'd)

Power Sales (mn)	1H FY23	1H FY22
Jharsuguda	1,471	1,305
TSPL	5,433	3,418
BALCO	14	608
HZL Wind power	274	289
<b>Total sales</b>	<b>7,192</b>	<b>5,620</b>
<b>Power Realisations (INR/kWh)</b>		
Jharsuguda 600 MW	2.82	2.63
TSPL <sup>1</sup>	4.53	3.76
Balco	2.64	3.87
HZL Wind power	4.02	4.03
<b>Average Realisations<sup>2</sup></b>	<b>3.01</b>	<b>3.16</b>
<b>Power Costs (INR/kWh)</b>		
Jharsuguda 600 MW	2.61	2.54
TSPL <sup>1</sup>	3.84	2.92
Balco	2.37	2.33
HZL Wind power	0.82	0.73
<b>Average costs<sup>1</sup></b>	<b>2.33</b>	<b>2.24</b>
<b>EBITDA (\$mn)</b>	<b>28</b>	<b>33</b>

Iron Ore	1H FY23	1H FY22
<b>Sales (dmt)</b>	<b>2.6</b>	<b>3.0</b>
Goa	0.4	0.5
Karnataka	2.2	2.5
<b>Production (mt)</b>	<b>2.3</b>	<b>2.7</b>
Goa	-	-
Karnataka	2.3	2.7
Average Net Sales Realizations (\$/t)	32.6	47.9
Pig iron - Production (kt)	309	410
<b>EBITDA (\$mn)</b>	<b>74</b>	<b>179</b>

Steel	1H FY23	1H FY22
<b>Total Production</b>	<b>593</b>	<b>582</b>
Pig Iron	80	90
Billet	9	84
TMT Bar	224	155
Wire Rod	188	183
Ductile Iron Pipes	92	72
<b>EBITDA (\$/t)</b>	<b>19</b>	<b>71</b>
<b>EBITDA (\$mn)</b>	<b>10</b>	<b>40</b>

# Sales summary

Sales volume	1H FY23	1H FY22
<b>Zinc-India Sales</b>		
Refined Zinc (kt)	395	352
Refined Lead (kt)	110	95
<b>Total Zinc-Lead (kt)</b>	<b>506</b>	<b>447</b>
Silver (tonnes)	371	312
<b>Zinc-International Sales</b>		
Zinc Refined (kt)	-	-
Zinc Concentrate (kt) (MIC)	119	98
<b>Total Zinc (kt) (Refined+Conc)</b>	<b>119</b>	<b>98</b>
Lead Concentrate (kt) (MIC)	22	16
<b>Total Zinc-Lead (kt)</b>	<b>141</b>	<b>114</b>
<b>Aluminium Sales</b>		
Sales - Wire rods (kt)	201	146
Sales - Rolled products (kt)	13	16
Sales - Busbar and Billets (kt)	143	186
Sales- Profoundry Alloys (kt)	54	55
Sales- Others (kt)	22	21
<b>Total Value-added products (kt)</b>	<b>434</b>	<b>424</b>
Sales - Ingots (kt)	703	687
<b>Total Aluminium sales (kt)</b>	<b>1,136</b>	<b>1,110</b>

Sales volume	1H FY23	1H FY22
<b>Iron ore sales</b>		
Goa (mn dmt)	0.4	0.5
Karnataka (mn dmt)	2.2	2.5
<b>Total (mn dmt)</b>	<b>2.6</b>	<b>3.0</b>
Pig Iron (kt)	295	404
<b>Steel sales (kt)</b>	<b>569</b>	<b>566</b>
Pig Iron	81	90
Billet	4	85
TMT Bar	220	150
Wire Rod	184	173
Ductile Iron Pipes	81	68
<b>Facor sales<sup>3</sup></b>		
Ferrochrome (kt)	29	39
<b>Copper-India sales</b>		
Copper Cathodes (kt)	6	6
Copper Rods (kt)	73	55

## Currency and commodity sensitivities

Foreign Currency - Impact of ₹ 1 depreciation in FX Rate		
Currency	Increase in EBITDA	
INR/USD	~\$50-52 mn /year	

Commodity prices – Impact of a 10% increase in Commodity Prices		
Commodity	1H FY23 Average price	FY Impact on EBITDA (\$mn)
Oil (\$/bbl)	107	88
Zinc (\$/t)	3,580	328
Aluminium (\$/t)	2,604	484
Lead (\$/t)	2,083	48
Silver (\$/oz)	21	53



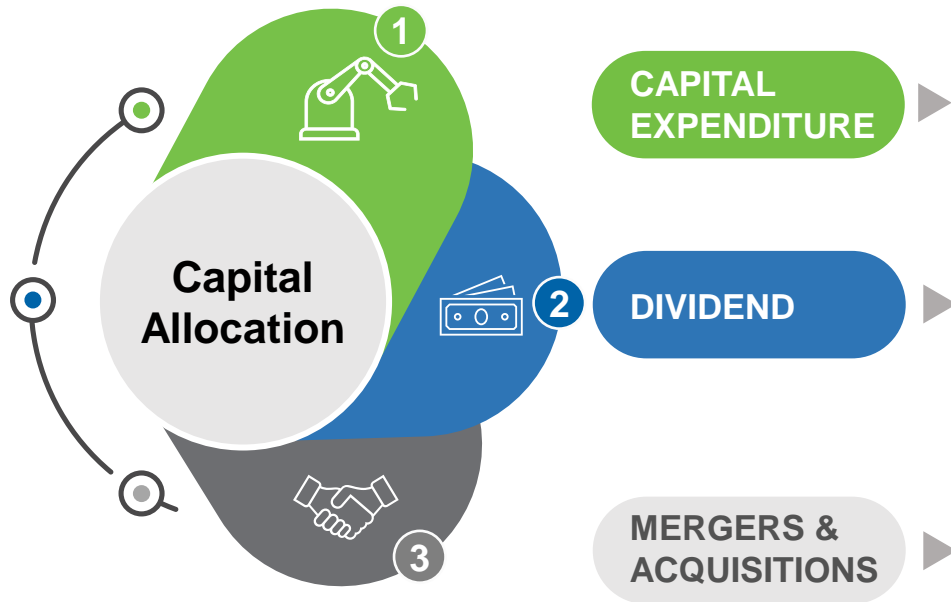
# Disciplined capital allocation framework

## Key Strategic Priority



### Optimize Leverage Ratio

- Intend to deleverage at group level
- Leverage ratio at Vedanta Limited should not be more than 1.5x.



### Project Capex

- Volume augmentation, cost reduction or creating value added products are key guiding principles for all projects
- Growth projects to ensure minimum guidelines for IRR ~18%

### Sustaining Capex

- All sustaining capital expenditure to be a part of Business Plan
- Sustaining capex to be defined and tracked in \$/ton

Minimum 30% of Attributable Profit after tax (before exceptional items) of Company (excluding profits of HZL)

Dividend income received from HZL will be pass through within 6 months

Intent to enhance value via acquiring accretive assets/business that have synergies with existing line of core businesses

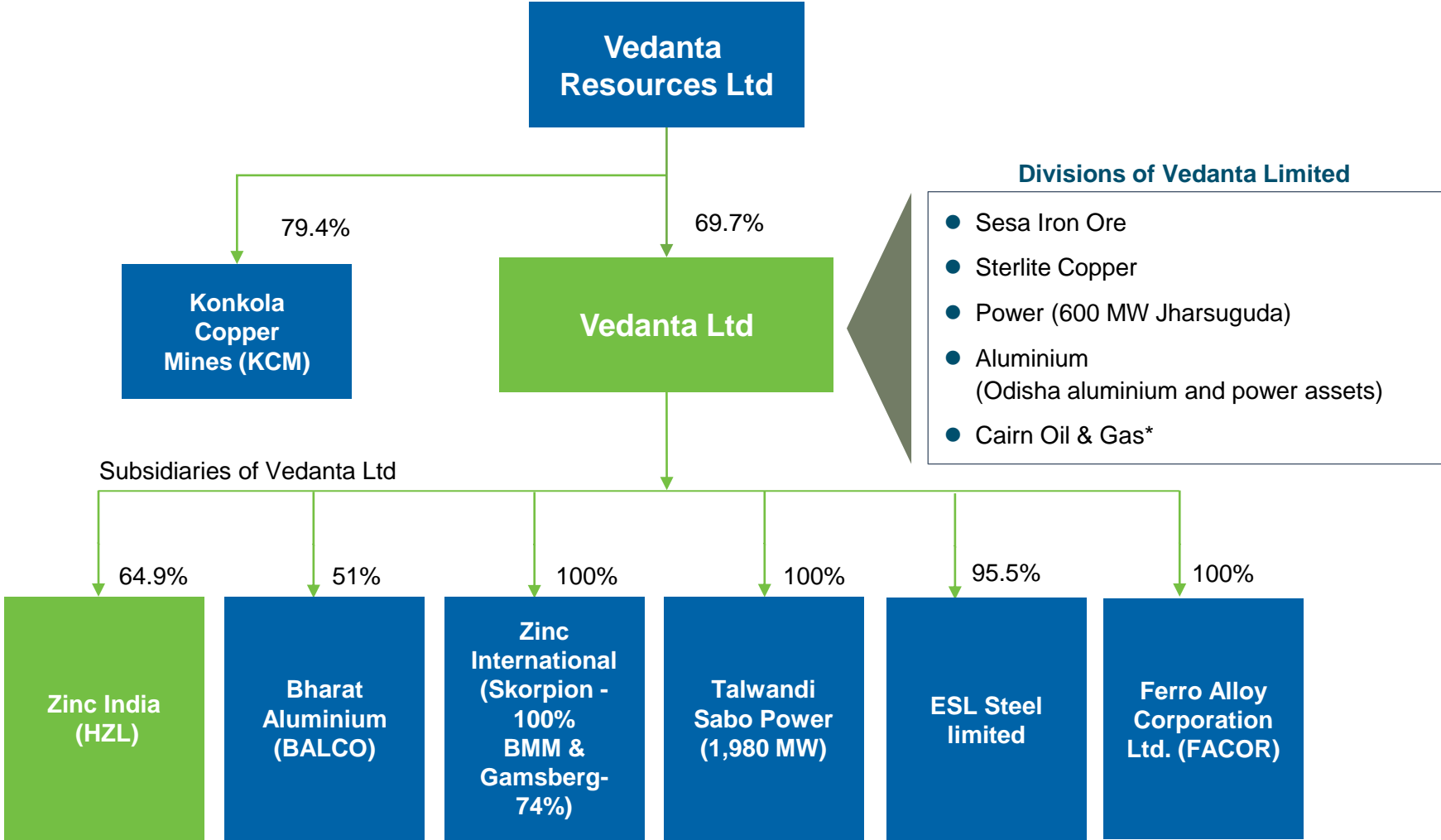
## Maximize Total Shareholder's Return (TSR)

# Group structure

As of 30-Sep-22

Listed entities

Unlisted entities



Note: Shareholding as on Sep 30, 2022  
\*50% of the share in the RJ Block is held by a subsidiary of Vedanta Ltd;

# Awards and Recognition – 1HFY23

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



## Sustainability development & CSR

Balco awarded with 'CEE Environment excellence award' for Excellence in Environmental Sustainability - Fly Ash Utilization

HZL awarded with 'GreenCo Gold award' for Dariba Smelting Complex at GreenCo Summit 2022 - CII

Cairn awarded with ETHR World Future Skills Awards for best Learning Culture in an Organization

Sterlite Copper awarded with 'Silver Award' at the 43rd CII national Kaizen Competition in the "Restorative Category" for the Kaizen "RM Effectiveness in SOD Reduction from CCR"

Cairn awarded the 'India Sustainability Award' under 'social performance' category by the 'India CSR Forum'



## Finance and Operational

VAL – Jharsuguda awarded with 'CII 23rd National Award for Energy Excellence'

Hindustan Zinc's awardee with 'Intellectual Property India award' for Enterprise Risk Management System

Cairn awarded with 'Golden Peacock National Quality Award' for Excellence in Quality Management category 31st World Congress on 'Leadership for Business excellence & Innovation'

VAL-J and BALCO awarded with 'Excellence in Fly-ash Utilization' awards for efficient management of fly-ash by both Thermal Power Plant and Captive Power Plant



## Health, Safety & HR

Balco awarded with 'Happiest workplaces Award 2022' presented by Happy+ with Business world

HZL awarded with 'People First HR excellence awards 2022' for Leading Practices in Diversity & Inclusion Initiatives

Cairn's RJ Oil SBU awarded with 'Platinum Award for Grow Care India Occupational Health and Safety Award 2022'

IOB awarded with 'W.E. Global Employees' Choice Award 2022 in Large Size Category'



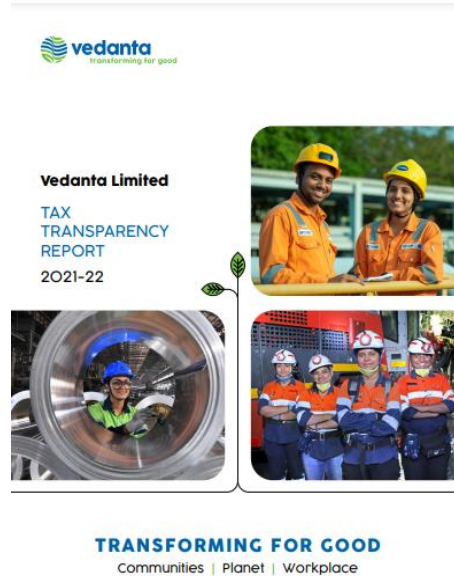
# Disclosures & publications

## Integrated Annual Report<sup>1</sup>



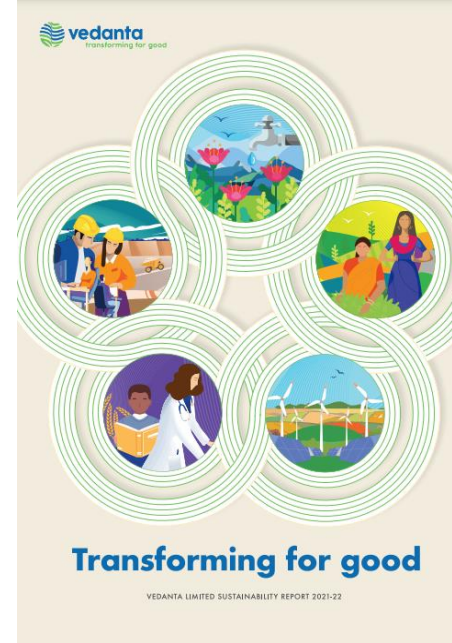
[https://www.vedantaresources.com/InvestorReports/Vedanta Resource\\_AR2022.pdf](https://www.vedantaresources.com/InvestorReports/Vedanta Resource_AR2022.pdf)

## Tax Transparency Report<sup>2</sup>



<https://www.vedantalimited.com/uploads/investor-overview/annual-report/Tax-Transparency-Report-FY-2022.pdf>

## Sustainability Report<sup>2</sup>



<https://www.vedantalimited.com/uploads/investor-overview/annual-report/Sustainability-Report-2022.pdf>

## TCFD Report<sup>2</sup>



<https://www.vedantalimited.com/uploads/investor-overview/annual-report/TCFD-Report-2022-AR.pdf>



United Nations  
Global Compact



Dow Jones  
Sustainability Indexes

