



Vedanta Resources











NVESTOR PRESENTATION-H1 FY2019

15 November 2018





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H1 FY2019 Review Venkat

Chief Executive Officer

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OIL & G A S | Z I N C & S I L V E R | A L U M I N I U M | P O W E R | I R O N O R E | S T E E L | C O P P E R









Health, Safety, Environment and Sustainability



Safety

 10 fatalities in H1 FY19 - principal focus area for CEO and ExCo to drive ownership by leaders in all businesses

Environment and Sustainability

- HZL 1st in Environment category, DJSI global rankings for metals & mining; Overall ranking improves to #5 from #11
- Fly-ash recycling rate at 107% in H1FY19 (90% in FY18)

Community

- 32,000+ women part of 2,600+ Vedanta promoted selfhelp-groups and related programs such as Sakhi at HZL
- 3,400+ youths trained in different trades through 11 projects like Tamira Muthukkal at Tuticorin



Water Management

Water risk mitigation measures for water self-sufficiency

- Dariba, HZL uses treated water from Sewage
 Treatment plant
- TSPL Onsite storage increase
- Commitment to conserve 4 million m³ of water in FY19
 - Greater than 1 million m³ saved as of H1.







H1 FY2019 Business Highlights



	Zinc India		Zinc International		08	&G	Aluminium	
Production	Refined Zn-Pb: Silver:	425kt 10 moz	BMM: Skorpion:	29kt 25kt	Gross average:	190 kboepd	Aluminium: Alumina:	976 kt 673 kt
Costs	CoP ex. royalty:	\$1,039/t	CoP:	\$2,393/t	RJ blended:	\$7.2/bbl	CoP:	\$1,978/t
EBITDA (Margin %)	\$ 727 mn (50%)		•	5 mn 9%)	\$ 572 mn (58%)		\$ 242 mn (11%)	
Key developments	 Record silver production and MIC production from U/G mines CoP higher y-o-y impacted by high input commodity prices 		end Septem	commenced in aber t 112 extension well ed by lower	 Secured 41 exploration blocks through OALP-1 First exploration well in KG notified as discovery 7 development drilling rigs in Rajasthan; 32 wells drilled till date 		 Strong alumina production, continued bauxite delivery from OMC Costs impacted by volatility in import alumina prices and coal availability Focus on structural cost reduction 	

H1 FY2019 Business Highlights (cont'd)



	Power		and Steel	Copper India	Copper Zambia
		Iron Ore	Electrosteel		
Production	Power sales: 6,830 MU TSPL availability: 93%	Karnataka: 2.6mt	ESL: 527kt	Cathodes: 40kt	Integrated: 48 kt Custom: 47 kt
Costs	TSPL margin: Re1.0/unit	IOK CoS: \$7.0/t	EBITDA/t \$112/t	CoP: -	CoP (ex royalty): 276c/lb
EBITDA (Margin %)	\$ 117 mn (24%)	\$ 45 mn (22%)	\$ 30 mn¹ (14%)	\$ (12) mn (-2%)	\$ (41) mn (-7%)
Key developments	 TSPL delivered 93% PAF in H1 FY19 PLFs of BALCO and Jharsuguda impacted by coal shortages 	 Mining operations of all companies in Goa remain suspended on state-wide directive, engaging with Govt. for resumption Karnataka sales impacted by muted e-auction sales 	 Continued ramp-up towards 1.5mtpa capacity Q2 exit run-rate of 1.3mtpa 	 NGT review in progress Ongoing community and stakeholder engagement CSR projects continuing notwithstanding the plant shutdown 	 Costs impacted by kwacha depreciation Equipment mobilisation, dewatering and development by business partners at Konkola expected to improve in H2

1. Vedanta acquired Electrosteel Steels on 4th June 2018, financial numbers are for the period of four months starting from June 2018

Note:





Growth Projects and Business Deep Dive Venkat

Chief Executive Officer

VEDANTA RESOURCES

OIL&GAS | ZINC&SILVER | ALUMINIUM | POWER | IRONORE | STEEL | COPPER



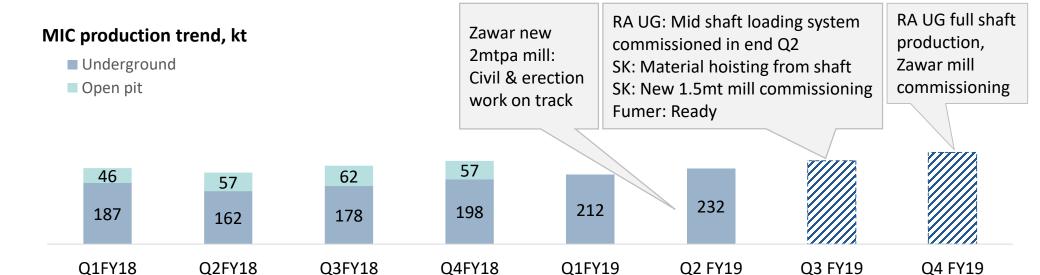






Zinc India: On-track for ramp-up to 1.2mt MIC







M2C Automatic Face drill Machine

Roadmap to Phase - I of 1.35mtpa

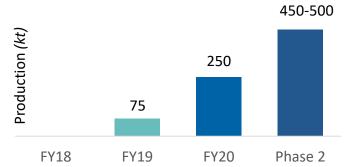
	FY18	FY20	FY21
Rampura Agucha UG (RA)	2.1	4.5	5.0
Sindesar Khurd (SK)	4.5	6.0	6.5
Zawar	2.2	4.5	5.7
Rajpura Dariba	0.9	1.5	2.0
Kayad	1.2	1.2	1.2
Total ore capacity mtpa	10.9	17.7	20.4
MIC capacity mtpa	0.73	1.20	1.35

Zinc International: Gamsberg starts trial production



250kt Gamsberg project

- 100% of pre-stripping completed in July
- Trial production of concentrate commenced in end September
- Crusher commissioned; 750kt of ore stockpile built ahead of plant feed









Crushed ore stock pile

Concentrator Plant

Floatation area

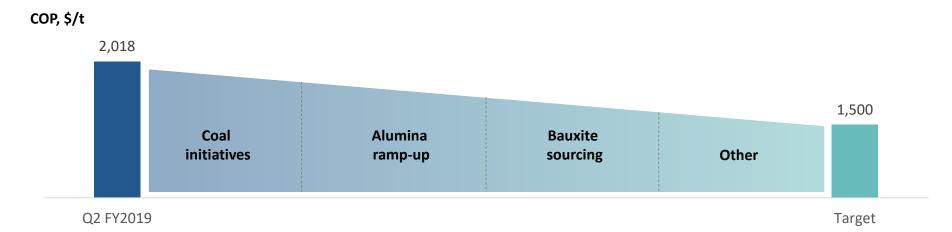
Skorpion Pit 112 extension

- Over 65% of waste stripping completed, full completion by Q4 FY19
- In H2 higher grades expected, with mine fully ramped up



Aluminium: Progress on structural reduction in costs





Steps	H1 FY19 Progress	Mid term plan	
Coal initiatives	√ √	Coal security 49% (Q2 FY19) -> 90%	 3.2mt additional linkage from Tranche IV auction; Tranche V, VI expected in mid term Coal mining at Chotia (first coal delivered end-October) GCV increase with GoI appointed 3rd party sampling
Alumina ramp-up	✓	Captive production 1.5-1.6mt (FY19e) -> 4mt	 Captive alumina run rate from Lanjigarh expected at c.2mt by year end Lanjigarh 4mt (Phase-1) ramp-up - advanced stage of planning
Bauxite sourcing	///	Captive alumina CoP \$358/t (Q2 FY19) - > c. \$240/t	OMC bauxite - targeting 250kt per month exit run rate in Q3 FY2019
Other	✓		 Logistics: Shifting from road to rail Ongoing improvement in power plant operating parameters Carbon: Strategic partnership with key suppliers for long term contracts

Oil & Gas Business Strategy



- For the first time, a sustainable and large portfolio mix comprising opportunities across O&G lifecycle
- Acquisition of 41 blocks in OALP establishes Cairn as one of the largest acreage holder in the country
- Capex investment of over \$2.5bn being driven through integrated partnership model with global oil field service companies
- Locked in capex contracts at lower oil prices (project IRR > 20% at \$40/bbl
 brent); poised to benefit from recent surge in oil prices
- Focus on cutting edge technology enabling world class recovery rates

Exploration

41 OALP Blocks
Rajasthan
KG Offshore
Ravva

Appraisal

Rajasthan Tight Oil

Development

MBA ASP
Tight Oil – ABH
Tight Gas – RDG
B&A Polymer

Production

Mangala Infill Liquid handling upgrade

OALP: Provides 6x jump in acreage in India



Presence

- · 41 blocks, mostly in established basins
- Onshore 33 blocks, Offshore 8 blocks

Prospective resource base

- Potential of ~1.4 4.2 bn boe of resources
- Blocks closer to existing infrastructure facilitating ease of cost effective monetization
- ~USD 550m work program commitment
- 150+ exploratory wells to be drilled in the next 2-4 years

Unlocking potential

- Revenue sharing model enables flexible technocommercial construct to execute expeditiously
- · Vendor outreach commenced
- · Key vendors meet (India and Houston) in Q3FY19



Substantial acreage positions across basins with vast untapped potential

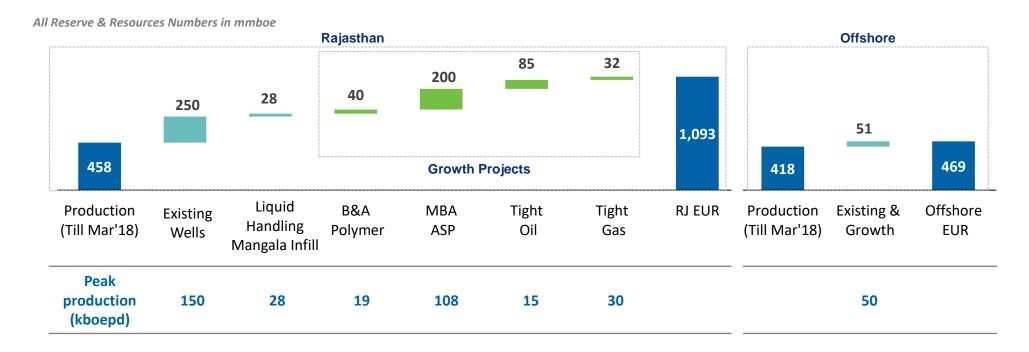
Exploration: High impact prospects across basins



	On	shore	Offsl	nore
	Rajasthan Exploration	Rajasthan Tight Oil Appraisal	KG Offshore	Ravva
Work Program	Wells: 7-18	4 Fields (V&V, MBH, DP & Shakti)	Wells: 2	Wells: 9-16
Resources Target, mmboe	300-600	190	300	Reserves – 17 mmboe Resources – 50 mmboe
Capex, \$m	60	70	50	185
Partner	Schlumberger	Schlumberger	Schlumberger	Under award
Execution	Rig 1 : Q3 FY19 Rig 2 : Q4 FY19	Rig 1 & 2 : Q3FY19 Rig 3 : Q4FY19	Gas discovery in first well; Second well drilling from January 2019	1 Rig program, likely to commence from Q4 FY19

Monetizing resources with best in class technology





- MBA recovery factor ~ 50%, amongst the best globally
- Growth capex adds over 350 mmboe at \$ 5/boe
- RDG gas production pushed ahead of schedule; increase by ~ 90 mmscfd in Q4FY19 through early production facility
- Implementing world's largest ASP project; Wells contract in place, Facilities to be awarded in Q3FY19

World class recovery factors at best in class capex

Growth Projects: Wells hook up to add volumes



Butter	Deller	Capex			D'a	Timeline			
Project	Partner	(\$ Million)	Wells	EUR	Rigs	Jun 18	Sep 18	Dec 18	Mar 19
Mangala Infill	Halliburton	100	45	18	1	3	10 2	22 11	45 21
Bhagyam & Aishwariya Polymer	Halliburton	140	42	40	2	10 2	19 6	33 13	42 23
MBA ASP	BH-GE Facilities: Under Award	905	143 – 286	200	3			5	25 6
Tight Oil	Schlumberger	170	39	32	3		2	9 2	15 6
Tight Gas	Schlumberger, Petrofac, Megha Engg	550	42	85	2		1	(1) 3	5
Liquid Handling	L&T, Kalpatru	210	-	10	-	A		A	

Increasing wells in Rajasthan from 500+ to 900+





Cumulative count of wells drilled



Cumulative count of wells hooked up



Facilities execution commenced





Financial Update Arun Kumar

Chief Financial Officer

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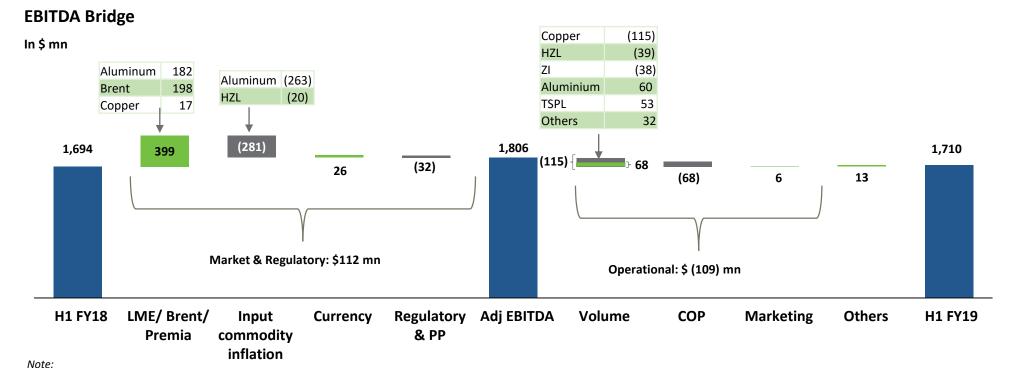




H1 FY2019 Financial Snapshot



EBITDA	ROCE ¹	Net Debt
\$ 1,710 mn	13.8%	\$ 10,195 mn
Up 1% y-o-y	Robust return	Up 13% y-o-y

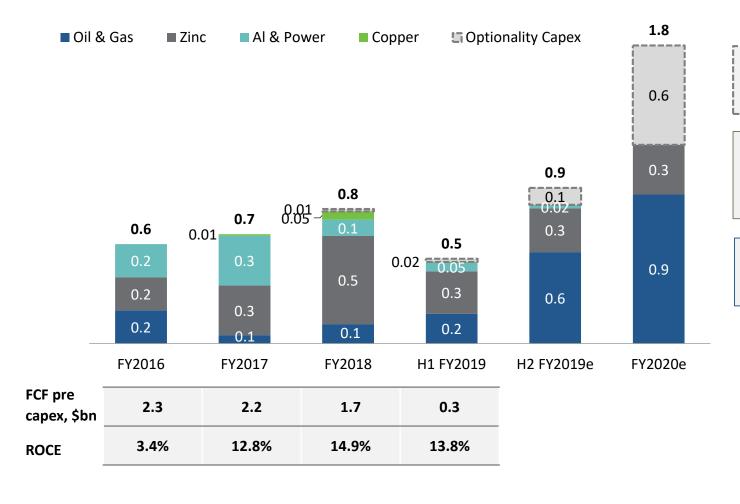


1. ROCE is calculated as EBIT net of tax outflow divided by average capital employed

Growth Delivering Superior Returns



Growth Capex Profile, \$bn



Lanjigarh 4mt refinery expansion (Phase 1) ESL 2.5mt expansion

Towards Zinc India expansion to 1.2mt MIC Outstanding capex at Gamsberg to be spent in H2 FY19

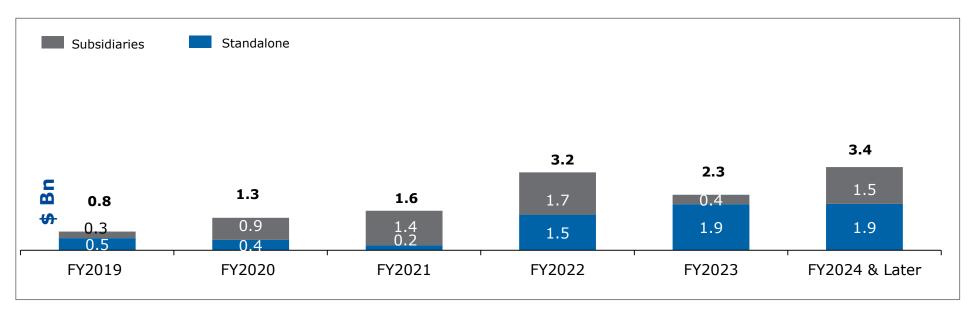
Towards \$2.5bn capex for ongoing growth projects in Rajasthan + Exploration capex

Note: ROCE is calculated as EBIT net of tax outflow divided by average capital employed

Well spread-out maturities support Balance Sheet



Maturity Profile of Term Debt: \$12.6 bn (as of 30th September 2018)



Term debt of \$12.6 Bn (\$6.4 Bn at Standalone and \$6.2 Bn at Subsidiaries)

Maturity profile excludes working capital and short term borrowing to \$2.7 Bn; and preference share of \$0.4 Bn

Continued focus on balance sheet management

- Refinanced large part of FY19 maturity in H1 FY19, minimal residual maturities in H2
- Maturity extension of standalone debt increased to 3.6 years on rolling basis at Sep 2018 from 2.8 years at Dec 2016
- > Marginal increase in interest costs despite rising benchmarks
- Strong liquidity: Cash and liquid investments of \$ 5.5 Bn and undrawn fund based line of credit of \$1.1 Bn

Delivering on our Strategic Priorities





Operational Excellence

- Volume growth and asset optimisation
- Optimise costs
- Adopt digitalisation and technology solutions
- Improved realisations
- Reduce working capital



Preserve our License to Operate

- Operate as a responsible business
- Continue to focus on Zero Harm, Zero Discharge and Zero Wastage
- Ensure social inclusion of the community to promote inclusive growth



Optimise Capital Allocation & Maintain Strong Balance Sheet

- Improving cash flows
- Strict Capital discipline
 - Invest in high IRR projects
 - Deleveraging the balance sheet



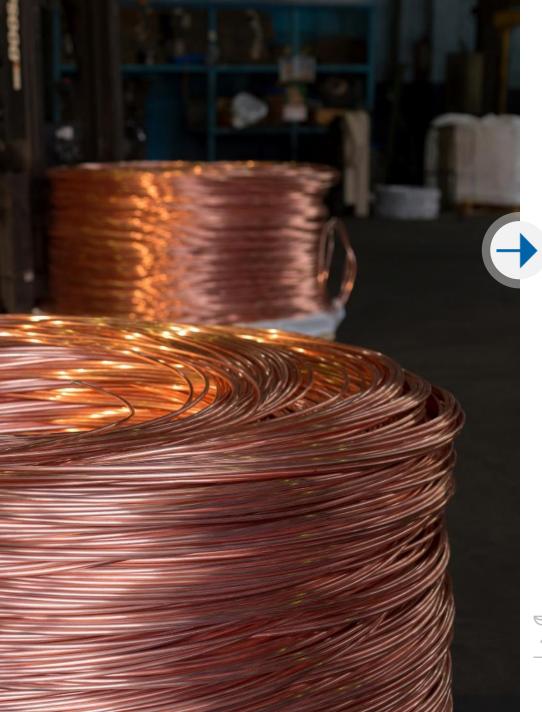
Delivering on Growth Opportunities

- Develop brownfield growth opportunities
- Acquisition of attractive, complementary assets, but only for value



Augment our Reserves & Resources base

- Well developed exploration programs
- Zinc India R&R of 411mt with 25+ years of mine life
- Karnataka iron-ore R&R of 100mt with 20 years of mine life
- Focus on greenfield and brownfield exploration





Appendix

VEDANTA RESOURCES

OIL & G A S | Z I N C & S I L V E R | A L U M I N I U M | P O W E R | I R O N O R E | S T E E L | C O P P E R









FY 2019 Guidance



Segment	FY19 Production and CoP
Zinc India	Zinc-Lead Integrated > FY18 production; Silver: 650 - 700 tonnes (21 – 23 moz) H2 COP: \$950-975/t excluding royalty
Zinc International	Skorpion and BMM: 150kt Gamsberg: 75kt COP: ZI (excl Gamsberg): \$1,850 – 1,950, Gamsberg: \$800 - \$1,000/t
Oil & Gas	H2 Gross Volume: c. 200-220 kboepd Opex: sub c. \$7/boe
Aluminium	Alumina: 1.5-1.6mt; Aluminium: c2.0mt FY19 COP: \$1,950 – 2,000/t
Power	TSPL plant availability: 80%
Iron Ore	Goa: Nil and Karnataka: 4.5mtpa
Copper - India	Cathode Production – 100kt per quarter, once the plant restarts
Copper - Zambia	Integrated production: 100 - 110 kt, Custom production: 100-110 kt H2 Integrated C1 cost: 220 – 240 c/lb

Entity Wise Cash and Debt



Net Debt Summary (\$ mn)

•	30 Sep 2018			31 Mar 2018			30 Sep 2017		
Company	Debt	Cash & LI	Net Debt	Debt	Cash & LI	Net Debt	Debt	Cash & LI	Net Debt
Vedanta Plc ¹	6,270	52	6,218	5,877	122	5,755	6,116	15	6,101
KCM	268	4	264	376	1	375	467	9	458
Vedanta Limited Standalone	6,169	1,110	5,059	6,259	1,096	5,163	5,850	1,891	3,959
Cairn India Holdings Limited ²	401	901	(500)	426	791	(365)	544	934	(391)
Zinc India	-	3,214	(3,214)	-	3,411	(3,411)	91	3,058	(2,967)
Zinc International	-	63	(63)	-	96	(96)	-	108	(108)
BALCO	734	3	731	756	8	748	711	12	699
Talwandi Sabo	1,170	1	1,169	1,330	4	1,326	1,232	45	1,188
Others ³	675	144	531	171	77	93	110	31	79
Vedanta Limited Consolidated	9,149	5,436	3,713	8,941	5,483	3,458	8,538	6,079	2,459
Total (\$ mn)	15,687	5,492	10,195	15,194	5,606	9,588	15,121	6,103	9,018

Debt numbers at Book Values. Since the table above shows only external debt, it excludes any inter-company loans

^{1.} Includes Investment Companies

^{2.} Cairn India Holdings limited is a 100% subsidiary of Vedanta Limited which holds 50% of the share in the RJ block

^{3.} Others include: CMT, Fujairah Gold, MEL, VGCB, Sesa Resources Ltd, other Iron Ore companies, Vedanta Ltd. Investment companies, TSMHL, ASI and ESL

Project Capex



Capex in Progress	Status	Capex³ (\$mn)	Spent up to Mar 2018 ⁵	Spent in H1 FY2019 ⁵	Unspent as at 30 Sept 18 ⁶
Cairn India ¹ – Mangala Infill, Liquid handling, Bhagyam & Aishwariya EOR, ASP, Tight Oil & Gas etc		1,991	183	179	1,629
Aluminium Sector					
Jharsuguda 1.25mtpa smelter	Line 3: Fully capitalised Line 4: Fully Capitalised Line 5: Six sections capitalised, two pending	2,920	2,846	50	25
Zinc India					
1.2mtpa mine expansion	Phase-wise by FY2020	1,893 ⁴	1,265	147	481
Others		139	63	25	51
Zinc International					
Gamsberg Mining Project ²	First ore was fed through the concentrator plant in September 2018	400	241	85	73
Copper India					
Tuticorin Smelter 400ktpa	Project is under Force Majeure	717	189	6	522
ASI	Furnaces to be operational by March 2019 Cold Repair to be completed by next month	50	3	18	30
Capex Flexibility					
Metals and Mining					
Lanjigarh Refinery (Phase II) – 5.0 mtpa	Under evaluation, subject to bauxite availability	1,570	836	2	732
Skorpion Refinery	Currently deferred until Pit 112 extension	156	14	-	142
Zinc India (1.2-1.35mtpa mine expansion)	In principle board approval	698	-	-	698

Note:

- 1. Capex approved for Cairn represents Net capex , however Gross Capex is \$2.5 bn
- 2. Capex Approved US\$400 Mn excludes Interest during construction
- 3. Is based on exchange rate at the time of approval
- 4. Capex approved restated on the basis of historical exchange rate
- 5. Is based on exchange rate at the time of incurrence
- 6.Unspent capex represents the difference between total Projected capex and cumulative spend as on 30th September 2018

Currency and Commodity Sensitivities



Foreign Currency - Impact of a 1 Rs depreciation in FX Rate

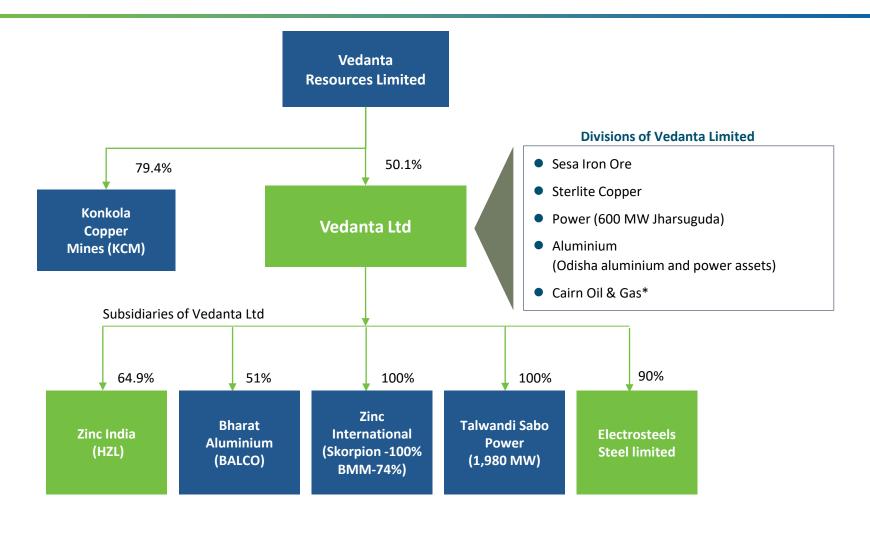
Currency	Increase in EBITDA
INR/USD	~ \$35 mn / year

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

Commodity	H1 FY19 Average price	H1 FY19 EBITDA (\$mn)
Oil (\$/bbl)	75	62
Zinc (\$/t)	2,820	94
Aluminium (\$/t)	2,156	143
Copper (\$/t)	6,483	31
Lead (\$/t)	2,244	21
Silver (\$/oz)	16	16

Group Structure





Note: Shareholding as on September 30, 2018

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

