Macquarie **Equities Research**





INDIA Underperform HZ IN Rs1,186.45 Price 14 Dec 09 12-month target Rs 1,029.00 -13.3 Upside/Downside % Valuation Rs 1,029.00 GICS sector **Materials**

Rsm

US\$m

US\$m

Investment fundamentals

Number shares on issue

30-day avg turnover

Market cap

Market cap

Year end 31 Mar		2009A	2010E	2011E	2012E
Total revenue	bn	56.8	73.8	86.7	102.4
EBITDA	bn	27.3	41.9	48.8	59.0
EBITDA growth	%	-47.6	53.3	16.3	21.1
Reported profit	bn	27.3	38.5	39.5	44.8
EPS rep	Rs	64.55	91.14	93.56	106.02
EPS rep growth	%	-38.0	41.2	2.7	13.3
PER rep	Х	18.4	13.0	12.7	11.2
	_				
Total DPS	Rs	4.00	4.05	5.00	5.00
Total div yield	%	0.3	0.3	0.4	0.4
ROA	%	16.8	21.8	20.6	20.9
ROE	%	20.8	23.8	19.9	18.8
EV/EBITDA	Х	14.0	9.1	7.8	6.5
Net debt/equity	%	-67.1	-66.0	-66.5	-72.4
P/BV	Х	3.5	2.8	2.3	1.9

Z IN rel BSE Sensex performance, & rec history



Note: Recommendation timeline - if not a continuous line, then there was no Macquarie coverage at the time or there was an embargo period.

Source: FactSet, Macquarie Research, December 2009 (all figures in INR unless noted)

Hindustan Zinc

Book profit

Event

 Peaking out: Our commodities team has upgraded its zinc price forecasts, but believe that current zinc spot price has overshot the fundamentals and has downside risks. We downgrade the stock to Underperform from Outperform, even though we increase our target price to Rs1,029 from Rs996.

Impact

501,313

10,773

422.5

3.1

- Upgrading zinc and lead price forecasts: We have upgraded our FY10 and FY12 zinc price forecasts by 9% and 3% to US\$1,854/t and US\$2,094/t, respectively. We have upgraded FY10, FY11 and FY12 lead price forecasts by 3%, 12% and 25% to US\$1,948/t, US\$2,039/t and US\$2,205/t respectively.
- Government stake sale awaiting clarity: Sterlite, the parent company, already owns a 65% stake and is very keen to exercise its option to buy an additional 30% stake from the government. While this should support a higher value, it is uncertain how the listing requirement of a minimum 10% free float is met. Will the minority shareholders get the same value?
- Too much cash low ROEs: Hindustan Zinc has net cash of more than US\$2bn. This is depressing the ROEs to below 20%, in spite of the healthy operating margin of 60%+. Secondly, with management not very keen to distribute it as dividends, we see it as both risky and suboptimal use of funds.

Earnings and target price revision

We have changed our EPS estimates for FY10, FY11 and FY12 by 10%, 1% and 6%, respectively. We have raised our target price to Rs1,029 from Rs996. We are downgrading Hindustan Zinc to Underperform due to its expensive valuations.

Price catalyst

- 12-month price target: Rs1,029.00 based on a PER methodology.
- Catalyst: Correction in zinc prices leading to downgrades. Uncertainty for minority shareholders following government stake purchase.

Action and recommendation

 Downgrading to Underperform: While we continue to like the low-cost assets, but believe that the risks are to the downside. Also, the uncertainty of the minority shareholders' fate after the government stake purchase demands prudence at high valuations. At peak of commodity price, 13x PER looks very expensive, in our view.

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15 December 2009

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Downgrading on rich valuations and commodity price risk

Fig 1 Hindustan Zinc - 1 Year Forward PER

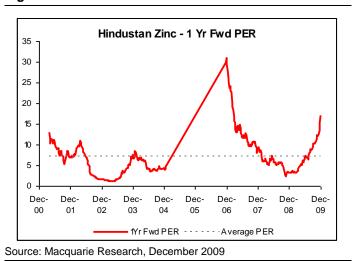
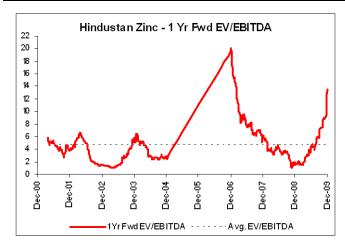


Fig 2 Hindustan Zinc - 1 Year Forward EV/EBITDA



Source: Macquarie Research, December 2009

Even as we upgrade earnings

Fig 3 Changes in forecasts

	S	ales (Rs ı	m)	EB	ITDA (Rs	m)	P	AT (Rs m)		EPS (Rs)	
	Old	New	%chg	Old	New	%chg	Old	New	%chg	Old	New	%chg
FY3/10E	69,198	73,769	7%	37,630	41,922	11%	35,077	38,511	10%	83.0	91.1	10%
FY3/11E	86,270	86,727	1%	48,363	48,765	1%	39,237	39,534	1%	92.9	93.6	1%
FY3/12E	98,097	102,371	4%	55,103	59,048	7 %	42,115	44,798	6%	99.7	106.0	6%

Driven by upgrades to commodity price forecasts

Fig 4 Zinc price forecast changes

(US\$/ton)	FY08	FY09A	FY10E	FY11E	FY12E	Long term
Zinc - previous	2,993	1,562	1,706	1,929	2,039	1,543
Zinc - new	2,993	1,562	1,854	1,929	2,094	1,543
% Change from last forecast	0%	0%	9%	0%	3%	0%
% increase (YoY)	-16.3%	-47.8%	18.7%	4.0%	8.6%	N.A.
Source: Macquarie Research, D	ecember 2009					

Fig 5 Lead forecast changes

(US\$/ton)	FY08	FY09A	FY10E	FY11E	FY12E	Long term		
Lead - previous	2,858	1,658	1,890	1,819	1,764	1,323		
Lead - new	2,858	1,658	1,948	2,039	2,205	1,323		
% Change from last forecast	0%	0%	3%	12%	25%	0%		
% increase (YoY)	100.6%	-42.0%	17.5%	4.7%	8.1%	N.A.		
Source: Macquarie Research, December 2009								

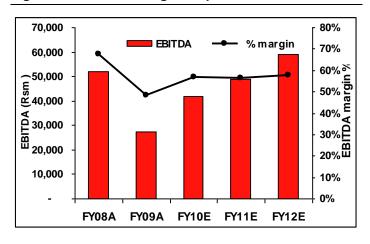
^{...}and following changes to our assumptions

Fig 6 Changes in key assumptions

	Zinc	volume (m t	ons)	Manufact	uring costs	(RS m)	Rea	alisation (R	s/t)
	Old	New	%chg	Old	New	%chg	Old	New	%chg
FY3/10E	602,100	602,100	0%	24,683	24,992	1%	88,470	95,612	8%
FY3/11E	773,520	773,520	0%	30,054	30,111	0%	91,700	90,457	-1%
FY3/12E	817,470	817,470	0%	34,351	34,682	1%	93,245	94,467	1%
Source: Macquarie	Research, Dec	ember 2009		,	,		,	ŕ	

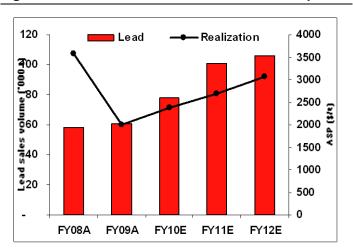
Company snapshot

Fig 7 EBITDA and margins expected to increase



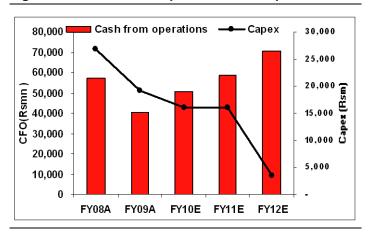
Source: Company data, Macquarie Research, December 2009

Fig 9 Lead sales volume and realisation assumptions



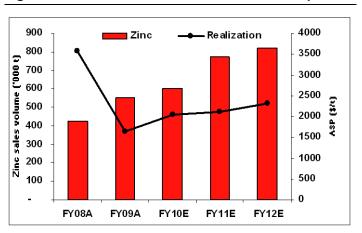
Source: Company data, Macquarie Research, December 2009

Fig 11 Cash flow from operations and capex



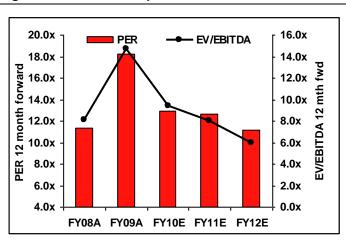
Source: Company data, Macquarie Research, December 2009

Fig 8 Zinc sales volume and realisation assumptions



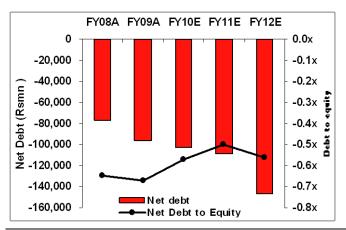
Source: Company data, Macquarie Research, December 2009

Fig 10 Valuation multiples



Source: Company data, Macquarie Research, December 2009

Fig 12 Net debt assumptions and debt-to-equity



Source: Company data, Macquarie Research, December 2009

Hindustan Zinc (HZ IN, Underperform, Target Price: Rs1,029.00)

Hindustan Zinc (HZ IN	N, Under		Target P	rice: Rs1	,029.00)						
Quarterly Results		2Q/10A	3Q/10E	4Q/10E	1Q/11E	Profit & Loss		2009A	2010E	2011E	2012E
Revenue	bn	15	19	23	20	Revenue	bn	57	74	87	102
Gross Profit	bn	10	13	15	13	Gross Profit	bn	34	49	57	68
Cost of Goods Sold	bn	5	6	8	7	Cost of Goods Sold	bn	23	25	30	35
EBITDA	bn	8	11	13	11	EBITDA	bn	27	42	49	59
Depreciation	bn	1	1	1	1	Depreciation	bn	3	3	4	5
Amortisation of Goodwill	bn	0	0	0	0	Amortisation of Goodwill	bn	0	0	0	0
Other Amortisation	bn	0	0	0	0	Other Amortisation	bn	0	0	0	0
EBIT	bn	8	10	12	10	EBIT	bn	24	39	45	54
Net Interest Income	bn	-0	-0	-0	-0	Net Interest Income	bn	-0	-0	-0	-0
Associates	bn bn	0 0	0	0	0 0	Associates	bn bn	0 0	0	0 0	0
Exceptionals Forex Gains / Losses	bn	0	0	0	0	Exceptionals Forex Gains / Losses	bn	0	0	0	0
Other Pre-Tax Income	bn	2	3	3	2	Other Pre-Tax Income	bn	9	10	9	12
Pre-Tax Profit	bn	10	13	15	12	Pre-Tax Profit	bn	34	48	53	66
Tax Expense	bn	-2	-3	-3	-3	Tax Expense	bn	-6	-10	-14	-21
Net Profit	bn	8	10	12	9	Net Profit	bn	27	39	40	45
Minority Interests	bn	0	0	0	0	Minority Interests	bn	0	0	0	0
Reported Earnings Adjusted Earnings	bn bn	8 8	10 10	12 12	9 9	Reported Earnings Adjusted Earnings	bn bn	27 27	39 39	40 40	45 45
EPS (rep)		18.23	23.70	28.25	21.96	EPS (rep)		64.55	91.14	93.56	106.02
EPS (adj)		18.23	23.70	28.25	21.96	EPS (adj)		64.55	91.14	93.56	106.02
EPS Growth yoy (adj)	%	-19.7	171.5	116.5	4.7	EPS Growth (adj)	%	-38.0	41.2	2.7	13.3
						PE (rep)	X	18.4	13.0	12.7	11.2
						PE (adj)	Х	18.4	13.0	12.7	11.2
EBITDA Margin	%	56.8 52.5	56.8 52.5	56.8 52.5	56.2 51.5	Total DPS Total Div Yield	%	4.00	4.05	5.00	5.00 0.4
EBIT Margin	% %	20.0	26.0	31.0	23.5			0.3 423	0.3 423	0.4 423	423
Earnings Split Revenue Growth	% %	-15.4	86.0	81.3	23.5 17.6	Weighted Average Shares Period End Shares	m m	423	423	423	423
EBIT Growth	%	-10.4	414.0	151.0	15.1	T CHOOLENG CHAICS		425	423	423	420
Profit and Loss Ratios		2009A	2010E	2011E	2012E	Cashflow Analysis		2009A	2010E	2011E	2012E
Revenue Growth	%	-26.4	29.9	17.6	18.0	EBITDA	bn	27	42	49	59
EBITDA Growth	%	-47.6	53.3	16.3	21.1	Tax Paid	bn	-6	-10	-14	-21
EBIT Growth	%	-51.0	58.3	15.1	20.7	Chgs in Working Cap	bn	4	-1	0	-1
Gross Profit Margin	%	60.0	66.1	65.3	66.1	Net Interest Paid	bn	-0	-0	-0	-0
EBITDA Margin	%	48.1	56.8	56.2	57.7	Other	bn	9	10	9	12
EBIT Margin	%	43.1	52.5	51.5	52.6	Operating Cashflow	bn	34	40	44	49
Net Profit Margin	%	48.0	52.2	45.6	43.8	Acquisitions	bn	0	0	0	0
Payout Ratio	%	6.2	4.4	5.3	4.7	Capex	bn	-13	-16	-16	-4
EV/EBITDA	х	14.0	9.1	7.8	6.5	Asset Sales	bn	0	0	0	0
EV/EBIT	x	15.6	9.9	8.6	7.1	Other	bn	-6	0	0	0
Delever Object Berlie						Investing Cashflow	bn	-19	-16	-16	-4
Balance Sheet Ratios ROE	0/	20.8	22.0	10.0	10.0	Dividend (Ordinary)	bn	-2 0	-2 0	-2 0	-2
ROA	% %	20.8 16.8	23.8 21.8	19.9 20.6	18.8 20.9	Equity Raised Debt Movements	bn	0	0	0	0 0
ROIC	% %	47.9	65.7	53.9	50.4	Other	bn bn	0	0	0	0
Net Debt/Equity	% %	-67.1	-66.0	-66.5	-72.4	Financing Cashflow	bn bn	- 2	- 2	- 2	- 2
Interest Cover	/o X	111.9	92.6	106.5	128.6	Financing Casinow	DII	-2	-2	-2	-2
Price/Book	x	3.5	2.8	2.3	1.9	Net Chg in Cash/Debt	bn	13	22	26	43
Book Value per Share		339.8	426.2	513.9	614.1	Free Cashflow	bn	21	24	28	46
-						Balance Sheet		2009A	2010E	2011E	2012E
						Cash	bn	96	119	145	188
						Receivables	bn	2	4	5	6
						Inventories	bn	5	5	5	6
						Investments	bn	Ō	Ō	Ō	Ö
						Fixed Assets	bn	52	65	77	75
						Intangibles	bn	0	0	0	0
						Other Assets	bn	4	4	4	5
						Total Assets	bn	159	197	236	280
						Payables	bn	0	0	0	0
						Short Term Debt	bn	0	0	0	0
						Long Term Debt	bn	0	0	0	0
						Provisions	bn	2	1	1	2
						Other Liabilities	bn hn	14	15	17	19
						Total Liabilities	bn	16	17	19	21
						Shareholders' Funds	bn bn	144	180	217	259
						Minority Interests	bn bn	0 0	0	0	0
						Other Total S/H Equity	bn bn	1 44	180	217	259
						Total Liab & S/H Funds	bn	159	197	236	280
All figures in INR unless noted.	od a B	L D	. 0000								
Source: Company data, Macqua	arie Keseard	n, December	∠009								

Important disclosures:

Recommendation definitions

Macquarie - Australia/New Zealand

Outperform - return >5% in excess of benchmark return Neutral - return within 5% of benchmark return Underperform - return >5% below benchmark return

Macquarie - Asia/Europe

Outperform – expected return >+10% Neutral - expected return from -10% to +10% Underperform – expected return <-10%

Macquarie First South - South Africa

Outperform – expected return >+10% Neutral - expected return from -10% to +10% Underperform - expected return <-10%

Macquarie - Canada

Outperform – return >5% in excess of benchmark return Neutral - return within 5% of benchmark return Underperform - return >5% below benchmark return

Macquarie - USA

Outperform (Buy) - return >5% in excess of Russell 3000 index return

Neutral (Hold) - return within 5% of Russell 3000 index

Underperform (Sell)- return >5% below Russell 3000 index return

Recommendations - 12 months

Note: Quant recommendations may differ from Fundamental Analyst recommendations

Volatility index definition*

This is calculated from the volatility of historical price movements.

Very high-highest risk - Stock should be expected to move up or down 60-100% in a year - investors should be aware this stock is highly speculative.

High - stock should be expected to move up or down at least 40-60% in a year - investors should be aware this stock could be speculative.

Medium - stock should be expected to move up or down at least 30-40% in a year.

Low-medium – stock should be expected to move up or down at least 25-30% in a year.

Low - stock should be expected to move up or down at least 15–25% in a year.

* Applicable to Australian/NZ/Canada stocks only

Financial definitions

All "Adjusted" data items have had the following adjustments made:

Added back: goodwill amortisation, provision for catastrophe reserves, IFRS derivatives & hedging, IFRS impairments & IFRS interest expense Excluded: non recurring items, asset revals, property revals, appraisal value uplift, preference dividends & minority interests

EPS = adjusted net profit / efpowa* ROA = adjusted ebit / average total assets ROA Banks/Insurance = adjusted net profit /average

ROE = adjusted net profit / average shareholders funds Gross cashflow = adjusted net profit + depreciation *equivalent fully paid ordinary weighted average number of shares

All Reported numbers for Australian/NZ listed stocks are modelled under IFRS (International Financial Reporting Standards).

Recommendation proportions - For quarter ending 30 September 2009

	AU/NZ	Asia	RSA	USA	CA	EUR	
Outperform	45.08%	54.02%	40.00%	42.31%	62.86%	43.61%	(for US coverage by MCUSA, 0.35% of stocks covered are investment banking clients)
Neutral	39.77%	19.10%	45.00%	43.36%	31.90%	39.85%	(for US coverage by MCUSA, 0.35% of stocks covered are investment banking clients)
Underperform	15.15%	26.88%	15.00%	14.34%	5.24%	16.54%	(for US coverage by MCUSA, 0.00% of stocks covered are investment banking clients)

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5 15 December 2009

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Nadine Javellana (Philippines)	(632) 857 0890
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Chemicals/Textiles

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Elaine Cheong (Singapore)	(65) 6231 2839
Corinne Jian (Taiwan)	(8862) 2734 7522
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David Gibson (Japan)	(813) 3512 7880
George Chang (Japan)	(813) 3512 7854
Michiko Kakiya (Japan)	(813) 3512 7868
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(612) 8232 3935 (852) 3922 3570

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Edward Ong (Malaysia)	(603) 2059 8982
Alex Pomento (Philippines)	(632) 857 0899
Tuck Yin Soong (ASEAN, Singapore)	(65) 6231 2838
Daniel Chang (Taiwan)	(8862) 2734 7516
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Sales

Regional Heads of Sales

•	
Chris Gray (ASEAN)	(65) 6231 2888
Peter Slater (Boston)	(1 617) 598 2502
Thomas Renz (Geneva)	(41) 22 818 7712
Andrew Mouat (India)	(9122) 6653 3200
Stanley Dunda (Indonesia)	(6221) 515 1555
Kenneth Yap (Indonesia)	(6221) 515 1555
JJ Kim (Korea)	(822) 3705 8799
Jason Lee (Malaysia)	(603) 2059 8888
Gino C Rojas (Philippines)	(632) 857 0761
Greg Norton-Kidd (New York)	(1 212) 231 2527
Luke Sullivan (New York)	(1 212) 231 2507
Scot Mackie (New York)	(1 212) 231 2848
Sheila Schroeder (San Francisco)	(1 415) 835 1235

Regional Heads of Sales cont'd

Angus Kent (Thailand)	(662) 694 7601
Michael Newman (Tokyo)	(813) 3512 7920
Charles Nelson (UK/Europe)	(44) 20 3037 4832
Rob Fabbro (UK/Europe)	(44) 20 3037 4865
Nick Ainsworth (Generalist)	(852) 3922 2010

Sales Trading

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Adam Zaki (Asia)	(852) 3922 2002
Mike Keen (Europe)	(44) 20 3037 4905
Yat Quan Tan (Hong Kong)	(852) 3922 2028
Stanley Dunda (Indonesia)	(6221) 515 1555
Michael Santos (Philippines)	(632) 857 0813
Dominic Shore (Thailand)	(662) 694 7707

Sales Trading cont'd

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Edward Robinson (London)	(44) 20 3037 4902
Matthew Ryan (Singapore)	(65) 6231 2888
Isaac Huang (Taiwan)	(8862) 2734 7582
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Depository Receipts - Robert Ansell	(852)3922 2094
Derivatives - Wayne Edelist	(852) 3922 2134
Futures - Tim Smith	(852) 3922 2113
Structured Products - Andrew Terlich	(852) 3922 2013