

Hindalco Industries

Rs133
OUTPERFORMER

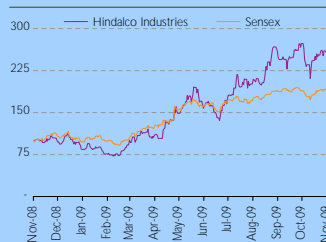
End of tunnel

Mkt Cap: Rs256bn; US\$5.3bn

Stock data

Reuters	HALC.BO
Bloomberg	HNDL IN
1-yr high/low (Rs)	144 / 36.8
1-yr avg daily volumes (m)	14.21
Free Float (%)	63.9

Price performance



Performance (%)

	3-mth	6-mth	1-yr	3-yr
Hindalco	24.1	75.0	160.0	(24.4)
Sensex	9.6	23.4	92.4	25.0

It's time to revisit Hindalco Industries (Hindalco). The wheel is turning for Novelis; demand seems to be returning as key clients emit improving business confidence while the loss-making price ceiling and derivative contracts too are due to expire by December 2009. With improving operational cash flows, Novelis would cease to be a drain on parent balance sheet. In India, large greenfield projects have picked up pace and offer huge volume growth potential with capacity slated to increase ~3.5x by FY14. Though adjusted gearing would remain high, we believe the worst is behind though any hiccup in the ongoing recovery in developed markets is a key risk to Novelis's profitability. Upgrading the stock to Outperformer.

Novelis – the wheel is turning: Key clients of Novelis (Rexam, Crown, Ball, etc) have indicated gradual return of demand. Novelis has also witnessed significant margin expansion of late (US\$228 normalized EBITDA/tonne in H1FY10 vs US\$163 in FY09), led by higher utilization. Going forward, we expect significant improvement in operating cash flows with working capital release and as the loss making price-ceiling and derivative contracts expire by December 2009.

Volume visibility emerges in domestic operations: Large greenfield expansions in India are finally witnessing considerable progress. Around 2/3rd of projected investments at Utkal Alumina and half the investments at Mahan Aluminium projects have already been committed; the projects are expected to be commissioned by FY12. Led by three large greenfield projects, domestic aluminium smelting capacity is slated to increase ~3.5x by FY14. Notably, the capacities are expected to be extremely cost-competitive in view of captive raw material (bauxite and coal) sources.

Though gearing would remain high, stock offers upside: Adjusted gearing is likely to remain high (1.5x as of March 2011). However, we see limited downside risk to valuation multiples in view of an improving business environment and the recent fund raising, which would also dissipate apprehensions on Hindalco's ability to fund its expansion plans. Given the emerging long-term growth visibility and that the worst behind for Novelis, we upgrade the stock to Outperformer with a 12-month price target of Rs156.

Key valuation metrics

Year to 31 March	FY07	FY08	FY09	FY10E	FY11E
Net sales (Rs m)	193,161	600,128	656,252	596,028	567,841
Adj. net profit (Rs m)	26,870	24,032	5,206	25,402	19,552
Shares in issue (m)	1,043	1,226	1,483	1,781	1,925
Reported EPS (Rs)	25.8	19.6	3.5	14.3	10.2
Adj. EPS (Rs)*	25.8	19.6	3.5	12.3	8.3
PE (x)	5.2	6.8	43.5	10.1	13.1
Price/ Book (x)	1.0	0.9	1.3	1.1	1.1
EV/ EBITDA (x)	3.6	6.6	16.3	6.8	7.6
RoE (%)	23.1	14.7	2.9	12.6	8.3
RoCE (%)	17.6	10.5	(0.1)	9.6	7.2

* includes interest cost from AV Minerals

Chirag Shah
chirag@idfcsski.com
91-22-6638 3306

Ritesh Shah
riteshshah@idfcsski.com
91-22-6638 3376

IDFC-SSKI Securities Ltd.
701-702 Tulsiani Chambers,
7th Floor (East Wing),
Nariman Point,
Mumbai 400 021.
Fax: 91-22-2204 0282

INVESTMENT ARGUMENT

We had turned negative on Hindalco post its acquisition of Novelis two years ago due to (i) sub-optimal return on capital invested for acquisition vis-à-vis opportunities in India; (ii) balance sheet stretch undertaken for the acquisition; (iii) valuation premium; and (iv) impact of price-ceiling and loss making derivative contracts on near-term cashflows. However, these concerns are now giving way. The aforesaid contracts expire by Q4FY10, which would offer respite on cash flows. In India, progress on large greenfield projects enhances volume growth visibility in the long term. Also, Hindalco has recently raised US\$600m of equity which, along with an improving business environment, would limit downside risk to multiples and dissipate apprehensions on Hindalco's ability to fund expansion plans. With emerging long-term growth visibility, we believe Hindalco deserves to trade at a premium to peers. We upgrade the stock to Outperformer with a price target of Rs156/share.

NOVELIS: PAIN POINTS EASING

We see demand traction on a large portion of Novelis's product segments on the back of various macroeconomic indicators and improving business confidence at key customers. Also, expiry of loss making price-ceiling and derivative contracts will improve operating cash flows for Novelis.

□ Demand visibility – improving at the margin

Novelis, given its high exposure to developed markets (74% of revenues from USA and Europe in 2007), saw extremely sluggish demand over the last two years led by the drastic slowdown for end-user industries. In the aftermath of demand slowdown, we expect overall shipments for Novelis to drop 12% in FY10, to 2.76m tonnes, from the peak of 2008. However, based on various macroeconomic indicators and outlook/ commentary from end-product users, the worst seems to be over and there appears to be some traction on at least 80% of the company's product segments.

The following exhibit highlights comments from Rexam, one of the largest customers of Novelis (accounting for 16% of overall revenues), and Ball, another can manufacturer. Novelis has also recently stated that demand from beverage and food can shipments, which represent ~50% of its rolled products business, has stabilized and is only moderately below historical levels. We also believe that ~20% of Novelis's total shipments are related to non-cyclical or defensive end-user industries represented by packaging/ foils and lithographic segments. Shipments to foil/ packaging sectors cater primarily to food and pharmaceutical industries – where demand has been steady to increasing. Moreover, 3% of Novelis's shipments cater to lithographic products which find end-use in print shops and printing houses for printing books, magazines, etc.

For Q2FY10, Novelis's shipments grew 7%qoq to 0.69m tonnes with volume growth across geographies. Notably, South American and European geographies registered double-digit growth for the quarter. To account for the improved demand visibility, we have upgraded our FY10 and FY11 shipment estimates for Novelis to 2.76m tonnes and 2.86m tonnes respectively.

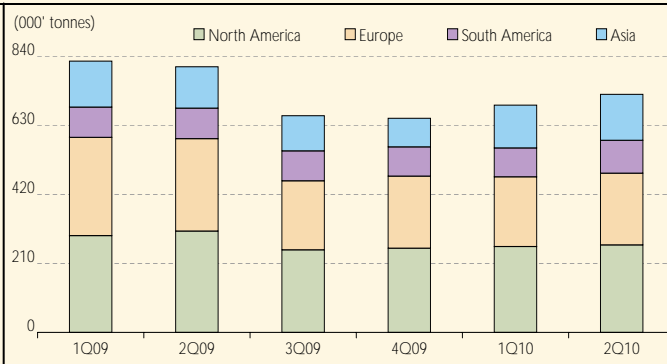
Macroeconomic indicators and commentary from end-users indicate that the worst is over for Novelis

To account for improved demand visibility, we have upgraded our FY10 and FY11 shipment estimates for Novelis

Exhibit 1: Novelis – tonnage distribution

Shipment matrix (%)	America		Europe	Asia	Total
	North	South			
Beverage cans	23.4	8.1	8.1	5.4	45.0
Construction/ Industrials	2.9	1.3	10.4	3.4	18.0
Foil/ Packaging	4.6	0.7	6.8	4.9	17.0
Transport	3.2	1.0	4.5	0.3	9.0
Lithographic	1.5	0.3	1.1	0.2	3.0
Others	2.0	2.0	2.0	2.0	8.0

Novelis – improving demand visibility



Source: Company, IDFC-SSKI Research

□ Beverage Cans

Outlook provided by BALL in 2QCY09 Results

“Seasonal volume trends in our packaging segments are improving, though volumes for the first half of 2009 were below 2008 levels, and we expect continued improvement over the balance of the year”

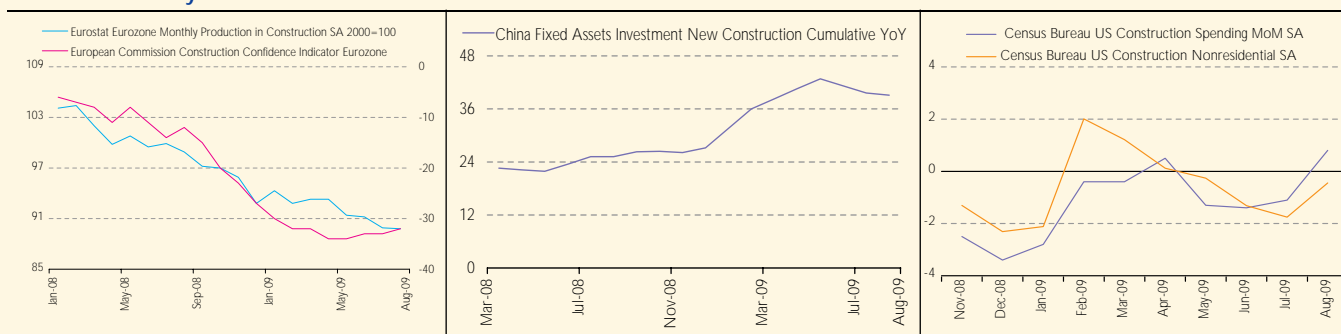
Comments by REXAM in 2QCY09 results

North America - back to long term trend: *“The beverage can market in North America stabilised to a more normal long term trend ...”*

South America - maintains growth trajectory: *“Beverage Can South America delivered strong volume development driven by good growth in Brazil and Chile where consumer behaviour has been largely unaffected by the global economic downturn.”*

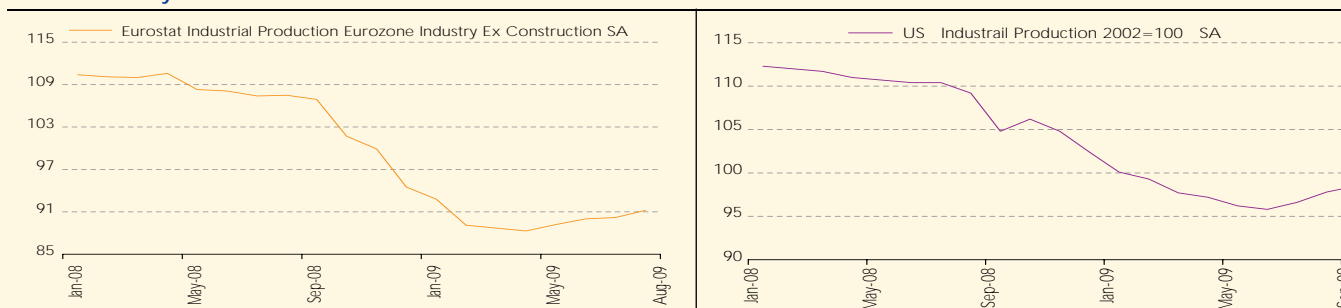
Europe - *“Industry volumes in the beverage can market in Europe were weaker than expected ... with various regions displaying a range of characteristics.”*

Construction – key macro indicators



Source: Bloomberg, IDFC-SSKI Research

Industrials – key macro indicators



Source: Bloomberg, IDFC-SSKI Research

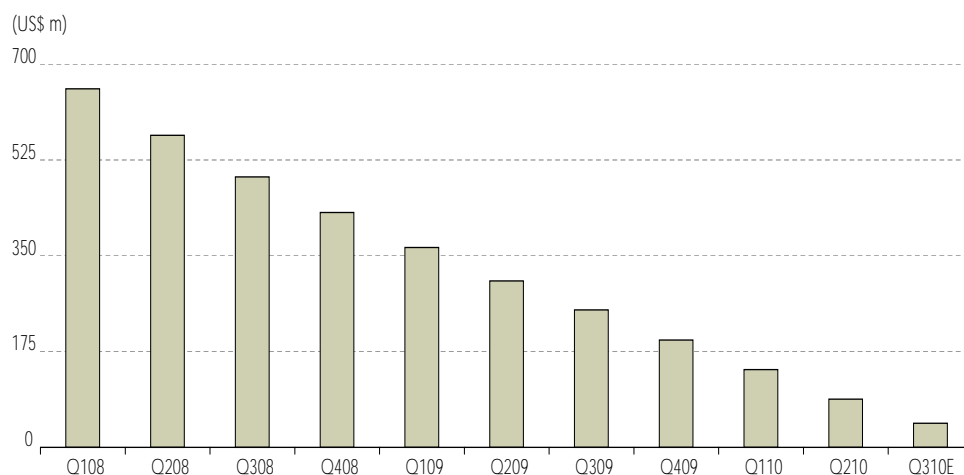
Expiry of price-ceiling contracts a key positive as it will stem negative cash flows for the company

❑ Loss-making price-ceiling & derivative contracts to expire by Q4FY10

'Price ceiling contracts', wherein fixed prices have been offered to customers on future deliveries (irrespective of prevailing LME prices), have been a cash flow strain for Novelis. However, these contracts are due to expire by December 2009. We see expiry of price-ceiling contracts as a key positive for Hindalco as it will stem negative cash flows for the company.

Hindalco recently highlighted that Novelis has already entered into new multi-year arrangements without a price-ceiling clause and that it would continue to service existing clients based on the new agreements effective 1 January 2010. In the context of expected losses on account of the price-ceiling contracts, Hindalco had created a reserve of US\$655m in May 2007 and losses against price-ceiling contracts were netted off against the reserve. Subsequently, with losses corresponding to majority of the price-ceiling contracts (barring one) already booked, the reserve size has gradually reduced to US\$45m as on 30 September 2009. The outstanding portion of the reserve (i.e. US\$45m) would be amortized over Q3FY10, also signifying an end to the legacy price-ceiling contracts.

Exhibit 2: Depletion of reserve indicating end of price ceiling contracts



Source: IDFC-SSKI Research, Company

Novelis had attempted to mitigate the adverse impact of metal price-ceiling contracts by entering into derivative instruments to hedge projected aluminium volume requirement (above the available internal hedge). However, the move backfired due to a sharp correction in aluminium prices; as a result, Hindalco continued to incur cash losses on price-ceiling contracts even when LME prices dropped considerably below the ceiling price. The fair value of the liability associated with these derivative contracts was US\$14m as of September 2009 and the instruments would expire by Q3FY10 – in line with the price ceiling contracts.

❑ Sharp profitability improvement in Q2FY10

Novelis reported EBITDA and net profit of US\$361m (our estimate at US\$234m) and US\$195m (US\$91m) respectively for Q2FY10. However, adjusting for unrealized gains on derivatives, EBITDA for the quarter stood at US\$200m. Adjusted EBITDA/ tonne grew by a sharp US\$99 on qoq basis to US\$290. The sequential improvement in operational EBITDA has accrued on the back of a better price/ product mix, reduction in conversion costs owing to lower energy, labor and alloy costs, and operating leverage from higher shipments.

The outstanding portion of the reserve (i.e. US\$45m) created against price-ceiling contracts to be amortized over Q3FY10

The qoq growth in operational EBITDA led by a better price/ product mix, and operating leverage from higher shipments

Exhibit 3: Novelis – sharp improvement in adjusted EBITDA/ tonne

(US\$ m)	Q1FY08	Q2FY08	Q3FY08	Q4FY08	FY08	Q1FY09	Q2FY09	Q3FY09	Q4FY09	FY09	Q1FY10	Q2FY10
Net income (loss) attributable												
to common shareholder	(142)	(19)	(73)	117	(117)	24	(104)	(1,814)	(16)	(1,910)	143	195
Interest, net	(51)	(56)	(47)	(45)	(199)	(40)	(41)	(44)	(43)	(168)	(40)	(41)
Income tax provision benefit	(31)	(20)	(26)	-	(77)	(35)	168	196	(83)	246	(112)	(87)
Depreciation and amortizations	(81)	(103)	(108)	(111)	(403)	(116)	(107)	(107)	(109)	(439)	(100)	(92)
Non-controlling interest											(18)	(19)
EBITDA	21	160	108	273	562	215	(124)	(1,859)	219	(1,549)	413	434
Unrealized gain (loss) on derivatives	(10)	(87)	(24)	118	(3)	20	(220)	(464)	145	(519)	299	254
Goodwill impairment								(1,340)		(1,340)		
Gain on debt exchange									122	122		
Proportional consolidation	(16)	7	(15)	(19)	(43)	(18)	(18)	(174)	(16)	(226)	(16)	(17)
Restructuring changes	(2)	-	(1)	(4)	(7)	1	-	(15)	(81)	(95)	(3)	(3)
Other costs, net	(31)	11	(4)	(5)	(29)	(6)	25	6	(4)	21	9	
Segment income	80	229	152	183	644	218	89	128	53	488	124	200
Additional acquisition related costs	(51)				(51)							
Adjusted EBITDA	131	229	152	183	695	218	89	128	53	488	124	200
Adjusted EBITDA/ tonne (US\$)	174	307	208	242	233	281	117	202	88	176	191	290

Source: IDFC-SSKI Research, Company

Exhibit 4: Novelis – key financials

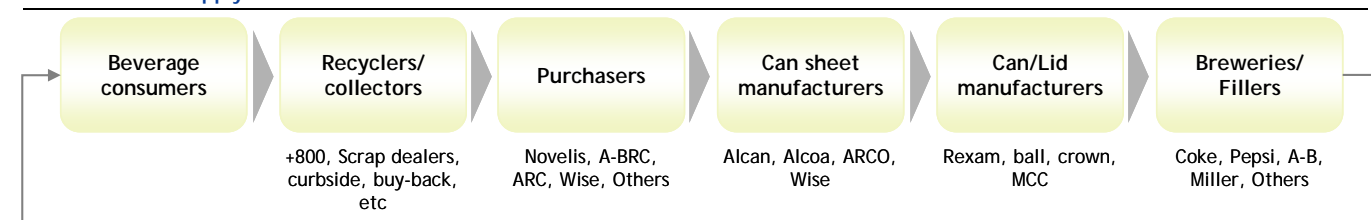
(Rs m)	Q2FY08	Q3FY08	Q4FY08	Q1FY09	Q2FY09	Q3FY09	Q4FY09	Q1FY10	Q2FY10
Net sales	49,597	45,317	50,102	46,475	56,832	41,172	37,717	38,995	49,171
% growth	7	(3)	6	(1)	15	(9)	(25)	(16)	(13)
Operating profit	9,217	8,006	7,967	9,490	9,934	7,793	3,141	7,578	6,092
% growth	(7)	(23)	(24)	7	8	(3)	(61)	(20)	(39)
Other income	1,098	1,143	1,442	2,146	1,768	1,505	947	753	573
Interest	632	622	988	761	855	932	821	682	663
Depreciation	1,446	1,460	1,516	1,568	1,592	1,611	1,682	1,653	1,658
Operational PBT	8,237	7,067	6,905	9,307	9,255	6,755	1,586	5,996	4,344
PBT	8,237	7,067	6,905	9,307	9,255	6,755	1,586	5,996	4,344
Current tax	1,809	1,640	(3,865)	2,340	2,056	1,306	(1,102)	1,190	903
Reported PAT	6,428	5,427	10,770	6,967	7,200	5,449	2,688	4,806	3,441
% growth	8	(16)	49	15	12	0	(75)	(31)	(52)

Source: Company, IDFC-SSKI Research

□ Reimbursement under BCS agreement to further improve cash flows

Novelis has a beverage can sheet umbrella agreement with North American bottlers (BCS agreement), wherein the bottlers direct can fabricators to source a percentage of their requirement for beverage can body, end and tab stock from Novelis. Under the agreement, Novelis enters into derivative contracts to hedge the exposure to price on behalf of the bottlers. As on 30 September 2009, Novelis has settled US\$118m of net derivative losses, for which it is yet to be paid under the BCS agreement. According to the management, receivables on the incurred losses were reasonably assured and cash flows would accrue in subsequent quarters going forward.

Exhibit 5: UBC supply chain



Source: Company, IDFC-SSKI Research

□ Improving operating cash flows; lower net debt by FY11E

The management has recently guided to annualized cost savings of US\$140m by end-FY10

Novelis now maintains inventories on order-to-order basis to eliminate inventory gains/ losses

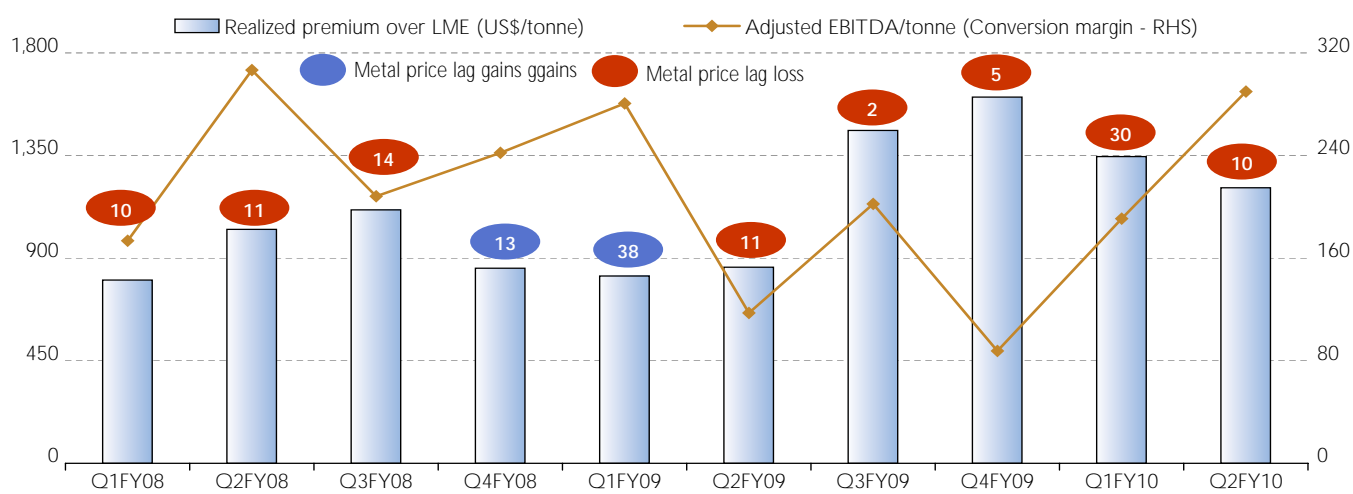
We expect Novelis's conversion and local market premiums to steadily increase in FY11

Novelis's profitability is determined by three variables – price-ceiling contracts, metal price lag and conversion premium. Novelis operates on a conversion model, wherein it passes on any change in LME aluminium costs and charges a conversion premium – governed by the competitive scenario and conversion cost to produce the rolled product. The management has recently guided to annualized cost savings of US\$140m by end-FY10, with US\$100m of savings (annualized) already achieved. We expect steady reduction in Novelis's conversion costs as the management targets a leaner cost structure with firm-wide operational efficiency initiatives under implementation, along with manpower rationalization and closure/ streamlining of high cost European and US facilities.

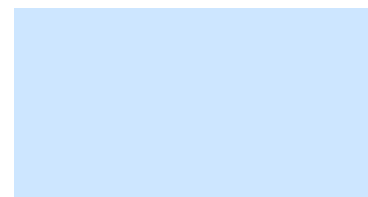
Novelis's profitability, till recently, used to be exposed to 'metal price lag', i.e. gains/ losses arising due to timing difference between the aluminium purchase price and realizations on products when sold. However, Hindalco management indicates that the exposure to 'metal price lag' has been completely done away with and that Novelis now maintains inventories on order-to-order basis, thereby completely eliminating inventory gains/ losses.

We expect Novelis's conversion and local market premiums to steadily increase in FY11 on the back of traction in end-product demand and as the company realizes the benefits of operating leverage, improved price/ product mix and operational cost efficiencies. Overall, we expect Novelis to report EBTIDA/ tonne of US\$269 for FY11 with production volume estimates of 2.9m tonnes. We see expiry of price ceiling contracts and working capital release as the key catalysts for a marked improvement in operating cash flows going forward. This would lead to a reduction of US\$549m in net debt for FY11E over Q2FY10 to ~US\$2bn.

Exhibit 6: Novelis – key operational parameters



Source: IDFC-SSKI Research, Company



DOMESTIC ALUMINIUM BUSINESS: IMPROVING VOLUME GROWTH VISIBILITY

Large greenfield expansions in India are finally witnessing considerable progress. Around 2/3rd of projected investments at Utkal Alumina and half the investment at Mahan Aluminium projects have already been committed. Led by three large greenfield projects, domestic aluminium smelting capacity is slated to increase ~3.5x by FY14. We expect commissioning of Mahan Aluminium and Utkal Alumina project in FY12 to be a key trigger for the stock. Notably, the capacities are expected to be extremely cost-competitive in view of captive raw material (bauxite and coal) sources.

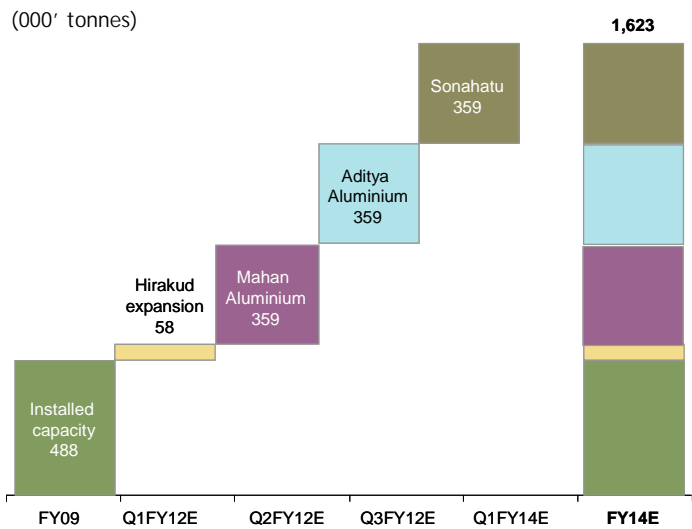
Emerging visibility on large expansions

Large greenfield expansions at Hindalco are finally witnessing considerable progress. According to the management, 66% and 49% of the projected investment at Utkal Alumina and Mahan Aluminium projects respectively has already been committed. The management also reiterates that all the domestic expansion plans are on track and any of the brownfield/ greenfield expansion plans are unlikely to be postponed or scaled down. We believe the progress achieved on securing key raw materials (coal and bauxite) is also impressive. We understand that significant progress has already been achieved at (a) the 8.5m tpa bauxite mines at Baphimali, Orissa which would feed the upcoming Utkal Alumina refinery; and (b) the 3.6m tpa Mahan coal block, Madhya Pradesh. Having said so, we believe the key challenge for Hindalco would be to ramp-up bauxite mining to 4.5m tpa from a single mine as there exist significant logistic challenges. We have built in a 6-9 months delay in commissioning of the bauxite mines, and consequently aluminium production.

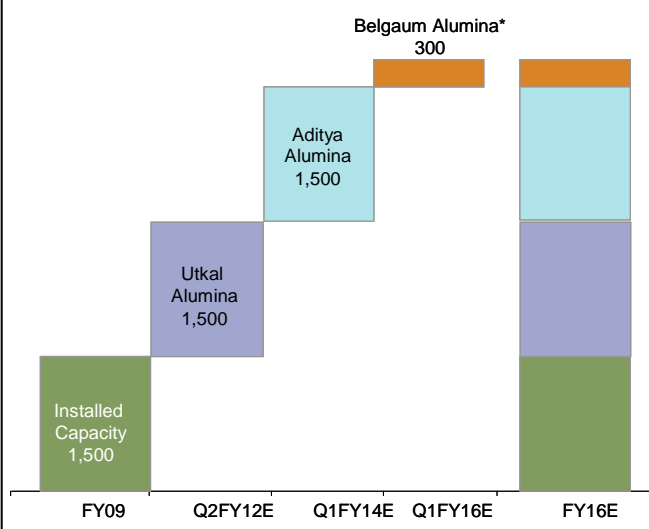
Post expansion, Hindalco's refining and smelting capacity is slated to increase 3.2x and 3.5x to 4.8m tonnes and 1.6m tonnes respectively over the next 3-4 years. We expect Hindalco's refining and smelting capacity to increase to 3m tpa (from 1.5m tpa) and 1.3m tpa (from 0.48m tpa) by FY12.

Smelting capacity slated to increase 3.5x by FY14

Exhibit 7: Hindalco's smelting capacity to grow >3x...



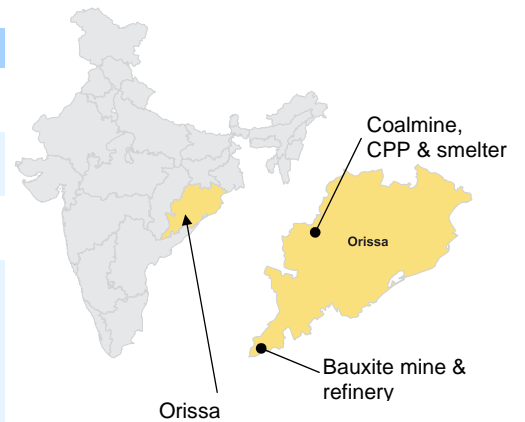
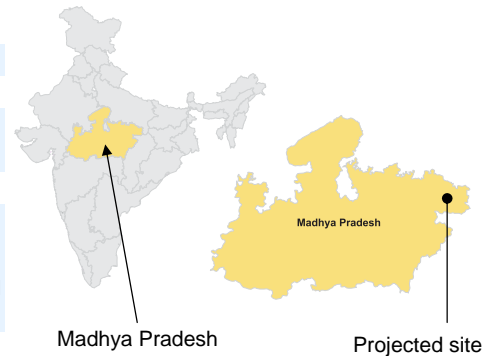
...and refining capacity 3.5x over the next three years



Source: IDFC-SSKI Research, Company; * Proposed

Exhibit 8: Details of Hindalco's greenfield expansion plans

Particulars	
Mahan Aluminium, Madhya Pradesh	
Aluminium smelter	359,000 tonnes
Power plant	900 MW
Commissioning schedule	First metal expected by July 2011
Regulatory clearances	Received all material regulatory and environmental clearances
Cost of project	Rs82bn; 57% of capital already committed
Progress on project	Basic engineering 100% complete and progressing ahead of schedule Major turnkey packages and equipment orders finalized 58% of the total project cost has been committed
Technology provider	Pechiney
Linkages	
Details (coal)	Mahan coal block allotted in JV with Essar Power; Hindalco's share in Mahan coal block at 3.6m tpa
Commissioning schedule	Production from coal block indicated by FY10 (earlier guidance was October 2009)
Aditya Aluminium & Alumina, Orissa	
Aluminium smelter	359,000 tonnes
Alumina refinery	1,500,000 tonnes
Power	900MW + 90MW
Commissioning schedule	First metal expected by Oct 2011 and refinery to be mechanically complete by June 2013
Regulatory clearances	Land acquisition in advanced stage – 1,500 acres acquired; application for 295 acres of forest land forwarded from state to Centre Water agreements already in place Railways - rail layout plans approved by East Coast Railways. 51%of total project cost for Smelter & Power Plant has been committed
Cost of project	Rs82bn for smelting facility (47% already committed); Rs53bn for refining capacity
Progress on project	Basic engineering 100% complete and progressing ahead of schedule Major turnkey packages and equipment orders finalized
Technology provider	Smelting technology from Pechiney, refining technology from ALCAN
Linkages	
Details (coal)	JV with Nevyeli Lignite and Mahanadi coal fields 20m tpa JV coalmine at Ib valley, Talabir II & III, Orissa; 3m tpa of coal linkages in place (CHK)
Commissioning schedule	All environmental and forest clearances in place, mining expected to begin during Q3FY10
Details (bauxite)	4.2m tpa bauxite mining capacity



Source: IDFC-SSKI Research

Details of Hindalco's greenfield expansion plans

Particulars	
Sonahatu, Jharkhand	
Aluminium smelter	359,000 tonnes
Power	900MW + 90MW
Commissioning schedule	First metal expected by June 2013 (earlier guidance Sept' 2013)
Regulatory clearance	Land acquisition under progress; 7,000 acres of land earmarked till now Clearances received for 55MCM water; awaiting further clearances for 70MCM water form Gujarat state government from Subernrekha basin
Cost of project	Rs82bn
Technology provider	Pechiney
Linkages	
Details	4.6m tpa of tubed coal block of Auranga coal fields allotted in JV with Tata Power



Utkal Alumina, Orissa	
Alumina refinery	1,500,000 tonnes Can increase capacity to 2m tpa via debottlenecking within three years of start-up
Power (MW)	90
Commissioning schedule	First metal from refinery expected by July 2011
Regulatory clearance	Land and all statutory clearances required for the project have been obtained
Cost of project	Rs55.6bn; 66% of capital already committed
Progress on project	Engineering work for the project nearing completion; all major orders placed 75% of project cost already committed
Technology provider	ALCAN
Linkages	
Details (bauxite)	8.5m tpa bauxite mining capacity at Baphimali mines; bauxite mining expected to begin by mid 2010



Hindalco's brownfield projects

Particulars	
Hirakud smelter	
Existing capacity	155,000 tonnes
Current expansion	By 58,000 tonnes to 213,000 tonnes
Commissioning schedule	Part of expansion to be commissioned by July 2010, full commissioning by FY12
Cost of project	Rs8.9bn
Progress on project	Procurement of additional land required for pot lines in advanced stages of finalization Contract with GAMI already signed
Belgaum refinery	
Existing capacity	350,000 tonnes
Planned expansion	to 300,000 tonnes to 650,000 tonnes
Commissioning schedule	On hold; awaiting government approvals relating to bauxite mines

Source: IDFC-SSKI Research

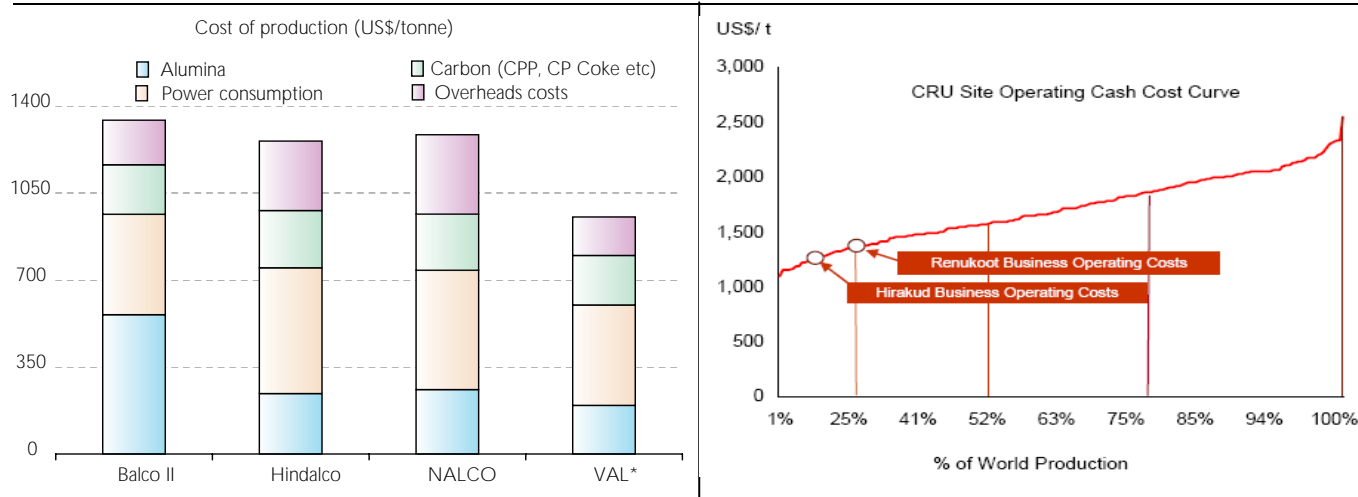
Incremental capacities to enjoy further cost efficiencies.

Cost structure to improve on scale and captive raw material linkages

Hindalco’s aluminium operations have a globally cost-competitive cost structure on the back of cost-effective access to quality raw materials. According to CRU, Hindalco’s Renukoot plant, which accounts for 85% of aluminium production, is among the top 15% of the lowest cost producers globally. We expect Hindalco’s cost structure to improve on incremental capacities as the company (a) continues to enjoy benefits of captive raw material, i.e. coal and bauxite; and (b) logistic cost savings on the back of pithead based power plant operations and proximity of operating facilities to end-user markets. Importantly, we expect further improvement in cost structure at existing operations, primarily with benefits of scale accruing on the commissioning of brownfield expansion at Hirakud and Belgaum (proposed).

In the near term, we expect cost of production at Renukoot smelter, which procures 70% of its coal through linkages (from Coal India) and the remaining from e-auction, to increase led by a recent price revision implemented by Coal India.

Exhibit 9: Hindalco’s smelting operations – amongst the lowest cost producers globally



Source: IDFC-SSKI Research, Industry, CRU

We do not expect an immediate rebound in TC/ RC margins

COPPER BUSINESS: TC/ RC MARGINS UNLIKELY TO IMPROVE IN NEAR TERM

TC/ RC margins have been trending down for the past few quarters due to short supply of copper concentrate. The trend is likely to continue for two more quarters. The recent run-up in LME copper prices (up 40% in six months) has led to high concentrate demand from smelters and a deficit in copper concentrate markets in turn. This is despite consensus being achieved at Chilean Escondida Copper mines over wage increases; closure of the mines was seen as a key risk to concentrate supply.

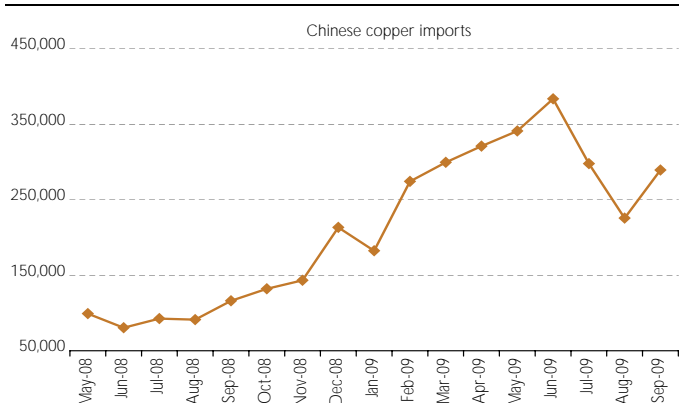
More importantly, stable warehouse inventories (ex-Asia) and trends observed for Chinese copper imports point to improved demand. We do not expect an immediate rebound in TC/ RC margins as these margins typically have an inverse correlation to copper demand. Our view is supported by an improving macroeconomic environment, particularly in China; Chinese copper imports have stayed resilient and have put to rest the argument that higher imports are only on the back of arbitrage opportunities (between LME and SHFE) and physical metal hoarding by Chinese and Korean State Reserve Bureaus. Hindalco procures ~60% of its concentrate feed through annual contracts, 15% through spot purchase and the remaining from Mt. Nifty and Mt. Gordon – Aditya Birla Minerals’ mines in Australia.

Exhibit 10: Trend in annual contract TC/ RC margins

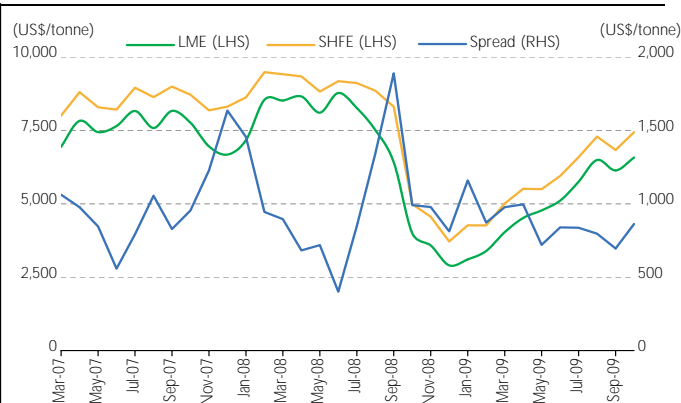
Particulars	2007	2008	2009	2010E
Treatment charges (US\$/t)	47	45	76.5	60
Refining charges (c / lb)	4.7	4.5	7.65	6
Total TC/ RC charges (Us c/lb)	11.1	10.6	18.1	14.2

Source: IDFC-SSKI Research

Exhibit 11: Chinese copper imports inching up...

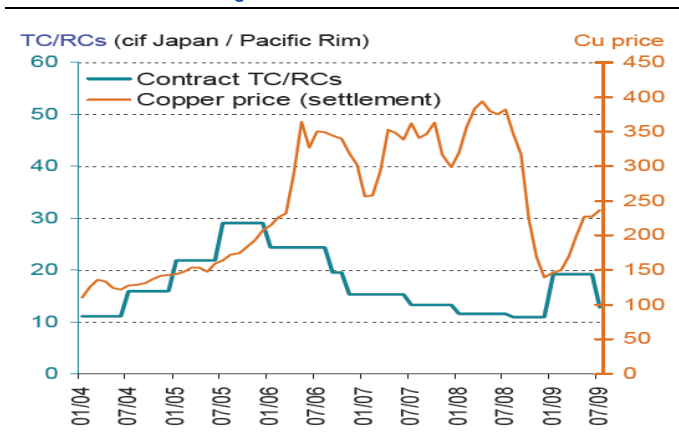


...despite sharp contraction in arbitrage spread (LME & SHFE)

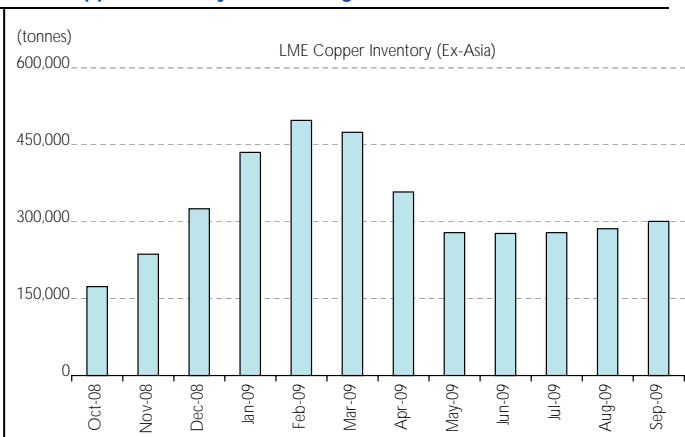


Source: IDFC-SSKI Research

Exhibit 12: TC/ RC margins on a decline



LME copper inventory – stabilizing



Source: IDFC-SSKI Research, Industry, Bloomberg

Post our interaction with key industry personnel, we expect a sharp 18-25% fall in annual benchmark copper TC/ RC rates for 2010. To factor in subdued spot TC-RC rates in the interim and Hindalco's contractual agreements, we downgrade our TC/ RC assumptions for H2FY10 to US c13.5/ lb. We expect Hindalco's copper smelting operations to be a drag on consolidated return ratios due to lower TC/ RC margins and depressed realizations for byproducts (sulphuric and phosphoric acid). Based on our revised estimates, we expect copper business to contribute 63% to Hindalco's revenues (standalone) and 25% to EBITDA in FY10.

FINANCIAL ANALYSIS & VALUATIONS

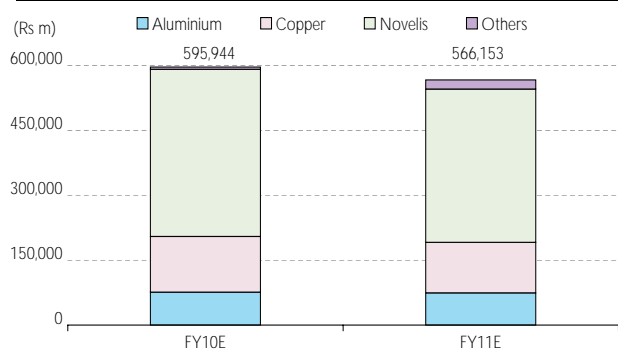
We have upgraded our EPS estimates for Hindalco and now expect adjusted consolidated EPS at Rs12.3 for FY10 and Rs8.3 for FY11. Reported EPS numbers are, however, expected to be higher as we expect interest cost on SPV level debt to be adjusted through the business reconstruction reserve. Overall, we believe that most of our earlier concerns on Hindalco are now dissipating. We upgrade the stock to Outperformer with a price target of Rs156 per share.

□ We upgrade our FY10E and FY11E earnings

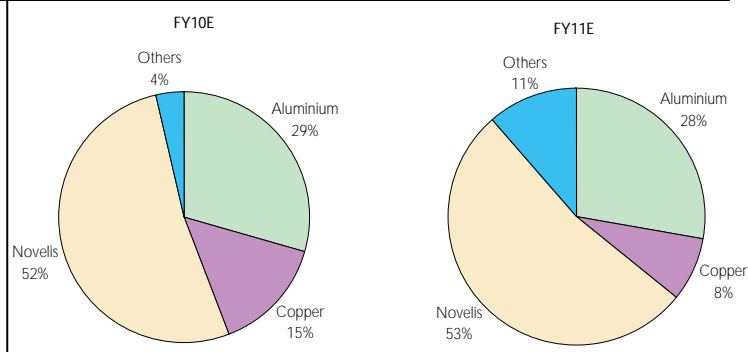
We introduce our revised EPS estimates for FY10 and FY11 to factor in (a) increase in our base aluminium price estimates to US\$1,699 and US\$1,650/ tonne respectively (US\$1530 and US\$1500/ tonne earlier); (b) increased cost of power for standalone operations due to higher linkage prices; (c) lower profitability in the copper business to factor in lower TC/ RC margins (at US c13.5/ lb for FY11E); and (d) upgrade in volume and conversion premium for Novelis. Our revised numbers assume a US\$/ INR conversion rate of 46 for FY11. We expect Hindalco to report an EPS of Rs14.3 and Rs10.2 for FY10 and FY11 respectively. Novelis is expected to contribute 53% of consolidated EBITDA in FY11.

We revise our estimates to factor in higher LME prices and coal costs in India, and better conversion premium for Novelis

Exhibit 13: Hindalco – consolidated revenue mix...



...consolidated EBITDA mix



Source: IDFC-SSKI Research

However, we expect adjusted consolidated EPS, at Rs12.3 for FY10 and Rs8.3 for FY11, to be substantially lower than the reported EPS. The adjustment is on account of interest cost at the SPV (AV Minerals, Netherlands) level. This entity, in turn, holds equity in Novelis and has acquisition-related debt on its books. Hindalco had earlier created a Business Reconstruction Reserve (BRR) to formulate a scheme of financial restructuring to deal with costs associated with organic and inorganic growth plans. The reserve was created by transferring Rs86.5bn from the 'securities premium' account. Post that, the reserve was used against the following in FY09:

We expect adjusted consolidated EPS to be substantially lower than reported EPS

- Impairment of goodwill on account of consolidation of Novelis – Rs36bn;
- Impairment of fixed assets totaling Rs1.1bn (net of deferred tax of Rs344m);
- Interest and finance charges worth Rs5.44bn on loan taken by AV Minerals (Netherlands) BV; and
- Other costs totaling Rs3.6bn associated with existing business operations and implementation of the restructuring exercise.

We expect interest and finance charges at the SPV level to continue being adjusted against the BRR. Hence, after accounting for the aforesaid interest costs, we expect Hindalco's adjusted consolidated EPS at Rs12.3 for FY10 and Rs8.3 for FY11.

We expect consolidated operations to generate operating cash flows of US\$1.9bn over FY10-11

We believe net debt levels have peaked in FY09

Exhibit 14: Profitability estimates adjusted for SPV interest cost

(Rs m)	FY09	FY10E	FY11E
Net Income After Exceptional Items	5,206	25,402	19,552
Less: Interest capitalized in Netherlands SPV against BRR	5,445	3,500	3,500
Adjusted Net Income		21,902	16,052
Reported EPS (Rs/share)	3.5	14.3	10.2
Adjusted EPS (Rs)	3.5	12.3	8.3

Source: IDFC-SSKI Research

Adj. gearing remains high; free cash to be used to repay debt

Post Novelis acquisition, Hindalco's consolidated gearing increased from ~0.3x in FY07 to ~1.3x in FY09. We expect Hindalco's consolidated operations to generate operating cash flows in excess of US\$1.9bn over FY10-11. We expect reported gearing to steadily drop below 1x on consolidated basis by FY11 on the back of robust operating cash flows. However, adjusted gearing is likely to remain high, at 1.5x even by Mar'11 (refer exhibit below).

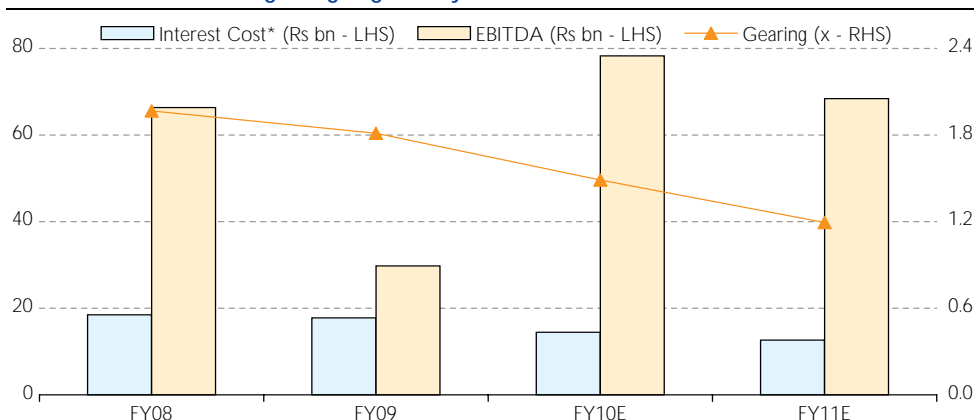
Exhibit 15: Adjusted gearing likely to remain high at 1.5x as of March 2011

(Rs m)	FY09	FY10E	FY11E
Net worth	163,981	211,472	224,062
Less: Miscellaneous expenditure	5	5	5
Less: Goodwill	42,907	42,907	40,265
Less: Other intangibles	41,142	41,142	41,142
Less: Interest capitalized to BRR	5,445	3,500	3,500
Adjusted net worth	74,482	123,918	139,150
Consolidated net debt	218,746	220,383	210,644
Debt-equity ratio (x)	1.33	1.04	0.94
Adjusted debt-equity ratio (x)	2.9	1.8	1.5
Reported book value (Rs/ share)	96	110	116
Adjusted book value (Rs/ share)	44	64	72

Source: IDFC-SSKI Research

With the recent fund raising, covenant reset as also improving cash flow visibility, Hindalco is unlikely to attract any breach of debt covenants (at ~3.5x Debt/EBITDA for Hindalco's standalone balance sheet). Further, with 90% of the principal debt repayment at Novelis (US\$2.6bn) due only after 2014, overseas operations do not need further support from the parent's balance sheet. We expect Hindalco's consolidated (net) debt to reduce by US\$169m to US\$4.4bn by FY11 even as we factor in a capital expenditure of ~US\$1bn over FY09-11.

Exhibit 16: Consolidated gearing to gradually reduce



Source: IDFC-SSKI Research, * includes interest cost from AV Minerals

With most concerns dissipating and given emerging long-term growth visibility, we upgrade the stock to Outperformer

Our 12-month price target of Rs156 is based on 8x and 5x FY11E EV/ EBITDA for aluminum and copper businesses respectively

□ Upgrading the stock to Outperformer

Our negative bias on Hindalco stemmed from: (a) sub-optimal return on capital invested for acquisition compared to opportunities back in India; (b) balance sheet stretch that Hindalco undertook for the acquisition; (c) the significant valuation premium paid for the acquisition; and (d) issues pertaining to near-term profitability on account of price-ceiling and loss making derivative contracts. Most of these concerns are now dissipating. An improving business environment and the fund raising, we believe, would limit downside risk to multiples in the near term as also address apprehensions on the company's ability to fund near-term expansion plans. Given the emerging long-term growth visibility, Hindalco now deserves to trade at a premium. We upgrade the stock to Outperformer with a price target of Rs156/share.

We have valued Hindalco's consolidated operations based on the sum-of-parts method, primarily using EV/ EBITDA as we believe that earnings multiple does not adequately capture the business dynamics and impact of a leveraged buyout.

Based on sum-of-parts, we have arrived at a near-term value of Rs156per share for Hindalco. Our sum-of-parts valuation assumes the following:

- EV/ EBITDA of 8x on Hindalco's standalone FY11E EBITDA in the aluminium business, assuming aluminium LME price of US\$1,650/tonne.
- EV/ EBITDA of 5x on FY10E EBITDA for copper smelting business and similar multiple for copper mining business in Australia held through the 51% owned subsidiary – Aditya Birla Minerals (ABML).
- We value Novelis operations at 8x EV/EBITDA, against our earlier assigned multiple of 5x on the back of increased cash flow visibility led by higher volume visibility, improved price/ product mix, benefits of operational efficiencies and expiry of metal price ceiling contracts.
- We have assigned a 20% discount to the quoted investment value and reduced net debt expected as of FY11 (adjusted for cash and liquid investments).

Exhibit 17: Hindalco – Sum-of-parts valuation

Particulars	EBITDA (Rs m)	Justified multiple (x)	(Rs m)
Hindalco standalone aluminium business EBITDA FY11E	18,603	8	148,827
Add Novelis EBITDA (FY11E)	35,412	8	283,296
Add Copper business EBITDA (FY11E)	5,515	5	27,575
Add 51% stake in Aditya Birla Minerals (listed on Australian SE)	6,738	5	17,182
Add quoted value of investments at 20% discount			23,074
Add unquoted investments in subsidiaries/ group companies			11,371
Add quoted bonds			-
Less Hindalco consolidated net debt as of FY11E			(210,644)
Justified market capitalization			300,681
No. of shares (m)			1,925
Justified price per share (Rs)			156
CMP (Rs)			133
Potential upside from CMP (%)			17

Source: IDFC-SSKI Research

Income statement

Year to 31 Mar (Rs m)	FY07	FY08	FY09	FY10E	FY11E
Net sales	193,161	600,128	656,252	596,028	567,841
<i>% growth</i>	59.4	210.7	9.4	(9.2)	(4.7)
Operating expenses	148,855	533,778	626,478	517,734	499,406
EBITDA	44,306	66,351	29,774	78,294	68,435
<i>% change</i>	55.7	49.8	(55.1)	163.0	(12.6)
Other income	4,090	6,560	6,878	856	1,317
Net interest	(3,134)	(18,491)	(12,323)	(10,941)	(9,150)
Depreciation	8,646	24,565	30,378	27,656	28,531
Pre-tax profit	36,616	29,855	(6,049)	40,553	32,071
Current tax	9,585	3,617	(9,538)	13,326	7,913
Profit after tax	27,031	26,238	3,488	27,227	24,158
Minorities	(161)	(2,206)	1,718	(1,825)	(4,606)
PAT after MI	26,870	24,032	5,206	25,402	19,552
Adj PAT	26,870	24,032	5,206	18,389	12,539

Balance sheet

As on 31 Mar (Rs m)	FY07	FY08	FY09	FY10E	FY11E
Paid-up capital	1,043	1,226	1,705	1,925	1,925
Reserves & surplus	128,179	172,244	156,832	209,547	222,137
Total shareholders' equity	137,789	189,636	171,402	230,524	242,815
Total current liabilities	44,013	172,037	162,597	139,558	132,679
Total debt	96,238	373,038	310,670	343,149	289,987
Total liabilities	140,250	545,074	473,266	482,708	422,666
Total equity & liabilities	278,040	734,711	644,668	713,232	665,481
Net fixed assets	108,234	254,539	227,629	266,537	273,942
Investments	4,963	42,234	61,873	60,710	61,020
Total current assets	160,469	311,430	235,144	257,340	206,061
Other non-current assets	4,373	126,508	120,023	128,645	124,458
Working capital	116,457	139,394	72,547	117,782	73,383
Total assets	278,040	734,711	644,668	713,232	665,481

Cash flow statement

Year to 31 Mar (Rs m)	FY07	FY08	FY09	FY10E	FY11E
Pre-tax profit	36,616	29,855	(6,049)	40,553	32,071
Depreciation	8,646	24,565	30,378	27,656	28,531
Chg in working capital	(3,035)	6,823	17,352	(31,234)	2,769
Total tax paid	(9,585)	(3,617)	9,538	(13,326)	(7,913)
Operating cash inflow	32,642	57,626	51,219	23,649	55,458
Capital expenditure	(13,587)	(146,304)	26,910	(38,908)	(7,406)
Free cash flow (a+b)	19,055	(88,678)	78,129	(15,259)	48,053
Chg in investments	(1,299)	(37,272)	(19,639)	1,163	(310)
Debt raised/ (repaid)	21,166	276,800	(62,368)	32,480	(53,162)
Capital raised/ (repaid)	6,653	23,060	(35,920)	28,800	-
Dividend (incl. tax)	(2,044)	(2,676)	(2,708)	(3,513)	(3,513)
Misc	7,110	5,393	(1,582)	4,363	(4,905)
Net chg in cash	50,642	176,626	(44,088)	48,033	(13,838)

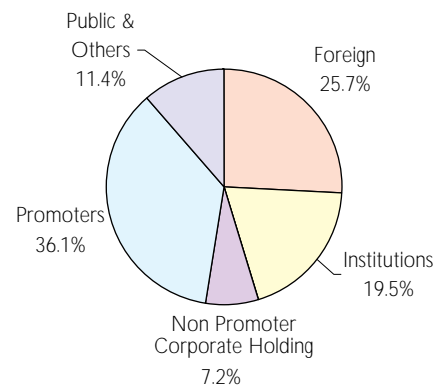
Key ratios

Year to 31 Mar	FY07	FY08	FY09	FY10E	FY11E
EBITDA margin (%)	22.9	11.1	4.5	13.1	12.1
EBIT margin (%)	18.5	7.0	(0.1)	8.5	7.0
PAT margin (%)	13.9	4.0	0.8	4.3	3.4
RoE (%)	23.1	14.7	2.9	12.6	8.3
RoCE (%)	17.6	10.5	(0.1)	9.6	7.2
Gearing (x)	0.7	2.0	1.8	1.5	1.2

Valuations

Year to 31 Mar	FY07	FY08	FY09	FY10E	FY11E
Reported EPS (Rs)	25.8	19.6	3.5	14.3	10.2
Adj. EPS (Rs)	25.8	19.6	3.5	12.3	8.3
PE (x)	5.2	6.8	43.5	10.1	13.1
Price/ Book (x)	1.0	0.9	1.3	1.1	1.1
EV/ Net sales (x)	0.8	0.7	0.7	0.9	0.9
EV/ EBITDA (x)	3.6	6.6	16.3	6.8	7.6
EV/ CE (x)	0.7	0.8	1.0	0.9	1.0

Shareholding pattern



As of September 2009

IDFC - SSKI INDIA

Analyst	Sector/Industry/Coverage	E-mail	Tel. +91-22-6638 3300
Pathik Gandotra	Head of Research; Financials, Strategy	pathik@idfcsski.com	91-22-6638 3304
Shirish Rane	Construction, Power, Cement	shirish@idfcsski.com	91-22-6638 3313
Nikhil Vora	FMCG, Media, Mid Caps, Education, Exchanges	nikhilvora@idfcsski.com	91-22-6638 3308
Rammath S	Automobiles, Auto ancillaries, Real Estate, Oil & Gas	rammaths@idfcsski.com	91-22-6638 3380
Nitin Agarwal	Pharmaceuticals	nitinagarwal@idfcsski.com	91-22-6638 3395
Chirag Shah	Metals & Mining, Telecom, Pipes, Textiles	chirag@idfcsski.com	91-22-6638 3306
Bhoomika Nair	Logistics, Engineering	bhoomika@idfcsski.com	91-22-6638 3337
Hitesh Shah	IT Services	hitesh.shah@idfcsski.com	91-22-6638 3358
Bhushan Gajaria	Retailing, FMCG, Media, Mid Caps	bhushangajaria@idfcsski.com	91-22-6638 3367
Salil Desai	Construction, Power, Cement	salil@idfcsski.com	91-22-6638 3373
Ashish Shah	Construction, Power, Cement, Telecom	ashishshah@idfcsski.com	91-22-6638 3371
Probal Sen	Oil & Gas	probal@idfcsski.com	91-22-6638 3238
Chinmaya Garg	Financials	chinmaya@idfcsski.com	91-22-6638 3325
Aniket Mhatre	Automobiles, Auto ancillaries	aniket@idfcsski.com	91-22-6638 3311
Ritesh Shah	Pharmaceuticals, IT Services	riteshshah@idfcsski.com	91-22-6638 3376
Saumil Mehta	Metals, Pipes	saumil.mehta@idfcsski.com	91-22-6638 3344
Vineet Chandak	Real Estate	Vineet.chandak@idfcsski.com	91-22-6638 3231
Swati Nangalia	Mid Caps, Media, Exchanges	swati@idfcsski.com	91-22-6638 3260
Sameer Bhise	Strategy, Financials	sameer@idfcsski.com	91-22-6638 3390
Nikhil Salvi	Construction, Power, Cement	nikhil.salvi@idfcsski.com	91-22-6638 3239
Shweta Dewan	Mid Caps, Education, FMCG	shweta.dewan@idfcsski.com	91-22-6638 3290
Rupesh Sonawale	Database Analyst	rupesh@idfcsski.com	91-22-6638 3382
Dharmesh Bhatt	Technical Analyst	dharmesh@idfcsski.com	91-22-6638 3392
Equity Sales/Dealing	Designation	E-mail	Tel. +91-22-6638 3300
Naishadh Paleja	MD, CEO	naishadh@idfcsski.com	91-22-6638 3211
Paresh Shah	MD, Dealing	paresh@idfcsski.com	91-22-6638 3341
Vishal Purohit	MD, Sales	vishal@idfcsski.com	91-22-6638 3212
Nikhil Gholani	MD, Sales	nikhil@idfcsski.com	91-22-6638 3363
Sanjay Panicker	Director, Sales	sanjay@idfcsski.com	91-22-6638 3368
V Navin Roy	Director, Sales	navin@idfcsski.com	91-22-6638 3370
Suchit Sehgal	AVP, Sales	suchit@idfcsski.com	91-22-6638 3247
Pawan Sharma	MD, Derivatives	pawan.sharma@idfcsski.com	91-22-6638 3213
Jignesh Shah	AVP, Derivatives	jignesh@idfcsski.com	91 22 6638 3321
Sunil Pandit	Director, Sales trading	sunil@idfcsski.com	91-22-6638 3299
Mukesh Chaturvedi	SVP, Sales trading	mukesh@idfcsski.com	91-22-6638 3298
Viren Sompura	VP, Sales trading	viren@idfcsski.com	91-22-6638 3277
Rajashekhar Hiremath	VP, Sales trading	rajashekhar@idfcsski.com	91-22-6638 3243

Disclaimer

This document has been prepared by IDFC - SSKI Securities Limited (IDFC-SSKI). IDFC-SSKI and its subsidiaries and associated companies are full-service, integrated investment banking, investment management and brokerage group. Our research analysts and sales persons provide important input into our investment banking activities.

This document does not constitute an offer or solicitation for the purchase or sale of any financial instrument or as an official confirmation of any transaction.

The information contained herein is from publicly available data or other sources believed to be reliable. While we would endeavor to update the information herein on reasonable basis, IDFC-SSKI, its subsidiaries and associated companies, their directors and employees ("IDFC-SSKI and affiliates") are under no obligation to update or keep the information current. Also, there may be regulatory, compliance, or other reasons that may prevent IDFC-SSKI and affiliates from doing so.

We do not represent that information contained herein is accurate or complete and it should not be relied upon as such. This document is prepared for assistance only and is not intended to be and must not alone be taken as the basis for an investment decision. The user assumes the entire risk of any use made of this information. Each recipient of this document should make such investigations as it deems necessary to arrive at an independent evaluation of an investment in the securities of companies referred to in this document (including the merits and risks involved). The investment discussed or views expressed may not be suitable for all investors.

Affiliates of IDFC-SSKI may have issued other reports that are inconsistent with and reach different conclusion from the information presented in this report.

This report is not directed or intended for distribution to, or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject IDFC-SSKI and affiliates to any registration or licensing requirement within such jurisdiction. The securities described herein may or may not be eligible for sale in all jurisdictions or to certain category of investors. Persons in whose possession this document may come are required to inform themselves of and to observe such restriction.

Reports based on technical analysis centers on studying charts of a stock's price movement and trading volume, as opposed to focusing on a company's fundamentals and as such, may not match with a report on a company's fundamentals.

IDFC-SSKI and affiliates may have used the information set forth herein before publication and may have positions in, may from time to time purchase or sell or may be materially interested in any of the securities mentioned or related securities. IDFC-SSKI and affiliates may from time to time solicit from, or perform investment banking, or other services for, any company mentioned herein. Without limiting any of the foregoing, in no event shall IDFC-SSKI, any of its affiliates or any third party involved in, or related to, computing or compiling the information have any liability for any damages of any kind. Any comments or statements made herein are those of the analyst and do not necessarily reflect those of IDFC-SSKI and affiliates.

This Document is subject to changes without prior notice and is intended only for the person or entity to which it is addressed to and may contain confidential and/or privileged material and is not for any type of circulation. Any review, retransmission, or any other use is prohibited.

Though disseminated to all the customers simultaneously, not all customers may receive this report at the same time. IDFC-SSKI will not treat recipients as customers by virtue of their receiving this report.

Explanation of Ratings:

1. Outperformer: More than 10% to Index
2. Neutral: Within 0-10% to Index
3. Underperformer: Less than 10% to Index

Disclosure of interest:

1. IDFC - SSKI and its affiliates may have received compensation from the company covered herein in the past twelve months for Issue Management, Capital Structure, Mergers & Acquisitions, Buyback of shares and Other corporate advisory services.
2. Affiliates of IDFC - SSKI may have mandate from the subject company.
3. IDFC - SSKI and its affiliates may hold paid up capital of the company.
4. IDFC - SSKI and its affiliates, their directors and employees may from time to time have positions in or options in the company and buy or sell the securities of the company(ies) mentioned herein.