

Company

27 July 2009 | 11 pages

Ashok Leyland (ASOK.BO)

 Equity
 Target price change
 Estimate change

Sell: 1QFY10 Results – Operationally a Weak Quarter

- Recurring PAT at Rs 88m exceeds estimates** — of Rs 40m. But we note this was buoyed by a tax write-back (Rs53m) & non op. income. Operationally, EBITDA was 86% below forecasts. Sales were ~8% above estimates due to higher realizations (we believe on account of spare parts & engine sales).
- Inventory liquidation?** — EBITDA margins at 1.3% (-670 bps y/y, -610 bps q/q) were 930 bps below our forecasts. While we expected material cost savings to aid profitability this Q, material costs/vehicle increased by 5% q/q. We think this was due to liquidation of high cost inventory. As at end of 4Q, the company had almost 6500 units in the pipeline. Staff costs also rose 16% q/q, which is surprising given 29% fall in volumes sequentially. Other expenses/vehicle have also increased by 10% q/q.
- AL affected by regional concentration** — AL continues to be adversely affected, given concentration of sales in southern India (coupled with loss of market share in the north and eastern markets). Mgmt had also indicated in the recent analyst meet that its sales were affected by consumers shifting to haulage vehicles, rather than speciality vehicles like tractor trailers, tippers.
- Outlook remains modest** — Mgmt. guided to single-digit domestic volume growth in FY10 and expects exports to increase to 9,000 units. It also expects to increase its operating margins by 350 bps y/y in FY10.
- Sell; revise TP to Rs 28**— (From Rs 29 earlier) as we reduce earnings 2-7% over FY10-FY11E. We have marginally adjusted EBITDA margins downwards as we expect some material cost increases in 2HFY10. Also introduce FY12 estimates.

Sell/Medium Risk	3M
Price (27 Jul 09)	Rs34.95
Target price	Rs28.00
	<i>from Rs29.00</i>
Expected share price return	-19.9%
Expected dividend yield	3.1%
Expected total return	-16.7%
Market Cap	Rs46,495M
	US\$967M

Price Performance (RIC: ASOK.BO, BB: AL IN)



Statistical Abstract

Year to	Net Profit	Diluted EPS	EPS growth	P/E	P/B	ROE	Yield
31 Mar	(RsM)	(Rs)	(%)	(x)	(x)	(%)	(%)
2008A	4,787	3.60	4.0	9.7	2.2	23.7	4.3
2009A	1,900	1.43	-60.3	24.5	1.3	6.8	2.9
2010E	2,071	1.56	9.0	22.5	1.3	5.9	3.1
2011E	2,830	2.13	36.6	16.4	1.3	7.9	3.7
2012E	3,174	2.39	12.2	14.7	1.2	8.4	0.0

Source: Powered by dataCentral

Jamshed Dadabhoy

 +91-22-6631-9883
 jamshed.dadabhoy@citi.com

Hitesh Goel

 +91-22-6631-9852
 hitesh.goel@citi.com

See Appendix A-1 for Analyst Certification and important disclosures.

Fiscal year end 31-Mar	2008	2009	2010E	2011E	2012E
Valuation Ratios					
P/E adjusted (x)	9.7	24.5	22.5	16.4	14.7
EV/EBITDA adjusted (x)	5.7	12.0	11.2	8.6	7.7
P/BV (x)	2.2	1.3	1.3	1.3	1.2
Dividend yield (%)	4.3	2.9	3.1	3.7	0.0
Per Share Data (Rs)					
EPS adjusted	3.60	1.43	1.56	2.13	2.39
EPS reported	3.53	1.43	1.56	2.13	2.39
BVPS	16.15	26.11	26.64	27.25	29.63
DPS	1.50	1.00	1.10	1.30	0.00
Profit & Loss (RsM)					
Net sales	77,291	59,586	61,427	73,076	85,402
Operating expenses	-71,025	-56,901	-57,973	-68,099	-79,592
EBIT	6,266	2,685	3,454	4,976	5,810
Net interest expense	-763	-1,603	-1,608	-1,952	-2,284
Non-operating/exceptionals	878	1,003	742	512	705
Pre-tax profit	6,382	2,084	2,589	3,537	4,232
Tax	-1,688	-185	-518	-707	-1,058
Extraord./Min.Int./Pref.div.	0	0	0	0	0
Reported net income	4,693	1,900	2,071	2,830	3,174
Adjusted earnings	4,787	1,900	2,071	2,830	3,174
Adjusted EBITDA	8,040	4,469	5,591	7,308	8,392
Growth Rates (%)					
Sales	7.8	-22.9	3.1	19.0	16.9
EBIT adjusted	13.5	-57.2	28.7	44.1	16.8
EBITDA adjusted	14.4	-44.4	25.1	30.7	14.8
EPS adjusted	4.0	-60.3	9.0	36.6	12.2
Cash Flow (RsM)					
Operating cash flow	8,876	-898	4,208	5,161	5,755
Depreciation/amortization	1,774	1,784	2,137	2,331	2,581
Net working capital	1,403	-6,175	0	0	0
Investing cash flow	-6,672	-24,895	-6,684	-6,183	-6,182
Capital expenditure	-6,876	-25,210	-7,000	-6,500	-6,500
Acquisitions/disposals	0	0	0	0	0
Financing cash flow	328	9,150	1,026	2,159	5,225
Borrowings	2,471	10,706	1,026	2,159	5,225
Dividends paid	-2,337	-1,556	0	0	0
Change in cash	2,532	-16,643	-1,451	1,136	4,798
Balance Sheet (RsM)					
Total assets	55,622	78,363	78,170	82,564	90,859
Cash & cash equivalent	4,514	881	471	717	500
Accounts receivable	3,758	9,580	6,545	5,561	6,507
Net fixed assets	20,548	43,974	48,837	53,006	56,924
Total liabilities	34,133	43,585	42,728	46,318	51,440
Accounts payable	17,351	17,713	15,114	15,839	17,386
Total Debt	8,875	19,581	20,607	22,766	27,991
Shareholders' funds	21,490	34,739	35,441	36,245	39,419
Profitability/Solvency Ratios (%)					
EBITDA margin adjusted	10.4	7.5	9.1	10.0	9.8
ROE adjusted	23.7	6.8	5.9	7.9	8.4
ROIC adjusted	21.3	6.6	5.4	7.8	8.1
Net debt to equity	20.3	53.8	56.8	60.8	69.7
Total debt to capital	29.2	36.0	36.8	38.6	41.5

For further data queries on Citi's full coverage universe
please contact CIR Data Services Asia Pacific at
CIRDataServicesAsiaPacific@citi.com or +852-2501-2791



1QFY10 Results – Operationally Very Weak Quarter

Figure 1. Ashok Leyland – 1QFY10 Operational Results

	1QFY09	1QFY10	% chg YoY	CIRA Comments
Volumes (Nos.)				
H / MHCVs	18,180	7,467	(58.9)	Driven by 63% YoY decline in goods sales and 47% YoY decline in passenger sales
LCVs	245	231	(5.7)	
Total CVs	18,425	7,698	(58.2)	
Product mix (%)				
H / MHCVs	98.7	97.0		
LCVs	1.3	3.0		

Source: Citi Investment Research and Analysis, SIAM

Figure 2. Ashok Leyland – 1QFY10 Financial Results

	1QFY09	1QFY10	% chg YoY	CIRA Comments
Net sales	18,839	9,125	(51.6)	8% above estimates due to higher than expected spare parts and engine sales
Decrease/(Increase) in Stocks	-	374		
Raw Materials	14,376	6,252	(56.5)	Higher than forecasts as raw material benefit expected to come in this Q did not materialise
Staff costs	1,626	1,441	(11.4)	Decline attributed to reduction in temporary employees; salary cuts but staff costs increased q/q
Other Expenses	1,326	935	(29.5)	
Total Expenditure	17,328	9,003	(48.0)	
EBITDA	1,511	122	(91.9)	86% below forecasts
Foreign Exchange Gain / Loss	(339)	-		
Interest	107	258	141.3	Declined q/q due to reduction in working capital requirements
Other income	122	606	398.3	Significantly higher than expectations
EBDT	1,186	470	(60.4)	
Depreciation & Amortization	441	435	(1.4)	
PBT	745	35	(95.3)	
Exceptional income	-	-		
Exceptional expenditure	(22)	(10)		Related to VRS expense
Tax	218	(53)		Tax Write Back
PAT	506	78	(84.6)	
PAT (pre exceptionals)	765	88	(88.5)	Better than expectations due to tax write back, operationally results were very weak
Profit Margins (%)				
EBITDA (%) net sales	8.0	1.3		670 bps decline Y/Y, -610 bps q/q, 930 bps below forecasts
Tax / PBT (%)	30.1	-217.1		Tax write Back
Net profit margins (%) Net Sales	4.1	1.0		
Cost ratios (%)				
Raw materials / sales	76.3	72.6		440 bps above estimates
Staff costs / sales	8.6	15.8		340 bps above estimates
Other expenses / sales	7.0	10.2		130 bps above estimates

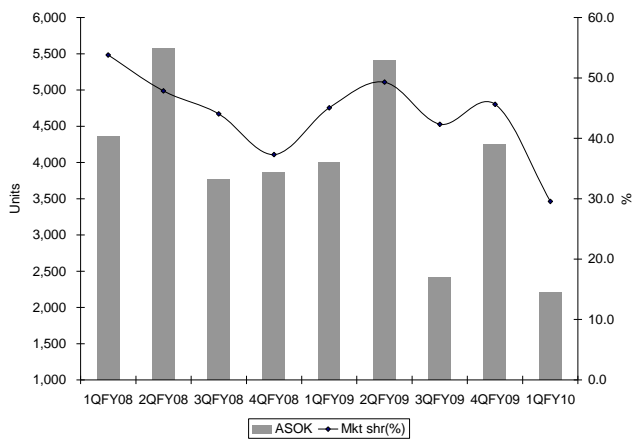
Source: Company

Business Analysis

Key Points:

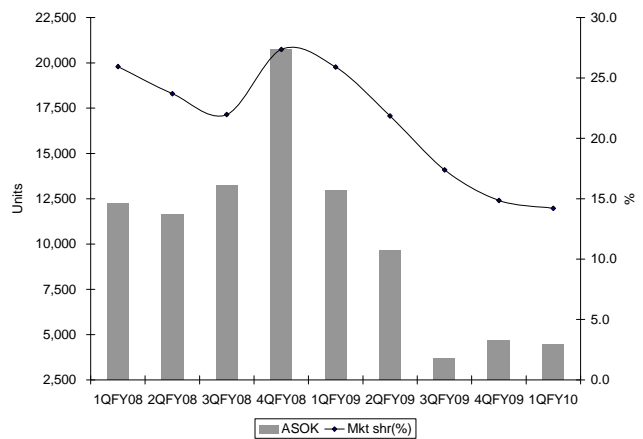
1) Domestic Industry: ALL cedes market share in truck segment – In FY09, truck sales declined 37% y/y while the bus industry declined 10% y/y. Ashok Leyland maintained its leadership position in buses, gaining 70 bps market share, but ceded 380 bps market share in the truck segment. This was on account of 1) a contraction in the southern market in which ALL is the dominant player, and loss of market share in North and Eastern regions (see Figure 6), 2) significant decline of the heavier tonnage trucks, which is a key segment for Ashok Leyland (67% of the total volumes of Ashok Leyland comes from >16T segment) and 3) truck operators preferred haulage vehicles over the speciality vehicles like tractor trailers, tippers and multi activity vehicles, which affected Ashok Leyland’s sales.

Figure 3. Ashok Leyland Domestic Bus Volumes and Market share (%) Trend



Source: SIAM

Figure 4. Ashok Leyland Domestic Truck Volumes and Market share (%) Trend



Source: SIAM

Figure 5. MHCV Domestic -Trucks Segmental Market Share (%)

	FY08	FY09	YoY Chg (%)
7.5-12 MT			
ASOK	1,774	1,271	(28.4)
Industry	41,038	27,497	(33.0)
Mkt shr (%)	4.3	4.6	+30 bps
12-16.2 MT			
ASOK	12,468	9,042	(27.5)
Industry	60,456	42,541	(29.6)
Mkt shr (%)	20.6	21.3	-70 bps
16.2-25 MT			
ASOK	35,633	16,444	(53.9)
Industry	106,385	63,928	(39.9)
Mkt shr (%)	33.5	25.7	-780 bps
>25 MT			
ASOK	-	1,353	
Industry	1,054	3,746	255.4
Mkt shr (%)	-	36.1	
Tractor Trailers			
ASOK	7,971	2,915	(63.4)
Industry	23,438	9,416	(59.8)
Mkt shr (%)	34.0	31.0	-300 bps

Source: SIAM

Ashok Leyland ceded market share in the 16-25 MT segment and the tractor trailer segment, which forms around 43% and 6% of total domestic truck industry volumes

Figure 6. MHCV Trucks – Regional Market Shares (%)

	FY07	FY08	FY09
South Mkt	77,023	87,956	51,437
ASOK mkt shr (%)	48.0	50.0	53.0
Share of Total Mkt (%)	31.3	37.9	35.0
East Mkt	33,668	34,585	33,601
ASOK mkt shr (%)	24.0	11.0	9.0
Share of Total Mkt (%)	13.7	14.9	22.8
North and West Mkt	135,708	109,830	62,090
ASOK mkt shr (%)	14.8	9.2	1.2
Share of Total Mkt (%)	55.1	47.3	42.2

Source: Citi Investment Research and Analysis, Company

Eastern market performed much better than the South and North market. Ashok Leyland lost significant market share in Northern region and Eastern region to Tata Motors while it increased market share in the South region

Exports improved though...- Export volumes declined by only 7% y/y as Ashok Leyland's sales come from developing countries and are not leveraged to developed economies, which faced severe recessionary conditions. Strong growth in Latin America, Bangladesh and Maldives offset the sharp decline in Sri Lanka (due to civil unrest) and Middle East.

Figure 7. Export Performance

Countries	FY08	FY09	YoY Chg (%)
Sri Lanka	2,353	1,076	(54.3)
Middle East	3,015	2,523	(16.3)
Latin America	608	1,533	152.1
Bangladesh, Maldives	1,043	1,491	43.0
Others	266	189	(28.9)
Total	7,285	6,812	(6.5)

Source: Company

2) Capacities / Product planned: Capacity utilization fell sharply to 52% in FY09 from nearly 100% in FY08 due to a sharp fall in volumes. We expect capacity utilization levels to fall further to 36% in FY10 as another 50,000 unit capacity will be added at the Uttarakhand plant. The company invested Rs9.7 bn mainly for addition in capacity in the Uttarakhand plant, manufacture of H series and Neptune engines. The company has indicated that it would continue to invest in product development and some of the new products planned are as follows:

1. **New Unitruck platform** which will be used across 16-49 ton trucks by April 2010 for both domestic and export markets
2. **New Neptune engines:** 4 and 6 cylinder family of inline engines ranging from 160-230 hp in 4 cylinder engines and 270-380 hp in 6 cylinder engines
3. **New products in the truck segment:** 3116 haulage truck, 3518 tractor trailer, 4019 haulage truck (to be launched by 2QFY10) and 2521 tipper (to be launched by 2QFY10)
4. **Two new CNG buses** will also be launched

3) Future Outlook and Fund Raising Plans: In the recent analyst meet, management noted the following:

1. Management guided to a single digit domestic volume growth in FY10 and expects exports to increase to 9000 units as Sri Lanka market recovers
2. Management also expects to increase its operating margins by 350 bps y/y in FY10 driven by material cost benefits (already taken a material cost decline of Rs 25,000 in March09), 2% price increase taken in July, 20% voluntary cut in employee pay and control on other expenses.
3. Management also plans to conserve cash by reducing inventories to <4,000 units by Sep09, reduce working capital by Rs 5bn from March09 levels and reduce factory inventory by Rs 2 bn by Sep09.
4. Management also indicated that it has passed a board resolution to raise funds for its capex plans but did not state clearly what would be the mix of debt/equity for raising funds.

We await more details in tomorrow's conference call to determine if management is on track to meet its targets, especially on inventory reduction.

Ashok Leyland

Company description

ALL is owned by the Hinduja Group (which has an equity stake of 50.9%). ALL is the second-largest CV manufacturer in India, with a strong focus on medium and heavy commercial vehicles (MHCVs). The company's core product portfolio comprises MHCVs (goods vehicles and buses), and it also manufactures a range of vehicles suited for defense and special applications. Its recent successes in the export market are indicative of its product quality. Sales of spares and engines add to revenue and earnings, especially during cyclical downturns.

Investment strategy

We maintain our Sell, Medium Risk rating. Growth prospects for ALL are improving, albeit slowly. Over the near term, economic growth is expected to continue to decelerate, and with a slowdown in the investment cycle, demand for commercial vehicles is expected to remain weak. With its focus on medium and heavy trucks, ALL is more vulnerable than its peer Tata Motors to a deceleration in CV sales. Over the long term, the outlook for CV sales remains healthy, key reasons being a sustained pickup in economic activity from FY11E, a focus on infrastructure spending and a strong replacement cycle (15% of the existing fleet in India is more than 15 years old and needs to be replaced both for commercial and environmental reasons). Moreover, growth in the agriculture, infrastructure and manufacturing sectors - all of which have positive linkages to the freight business - should remain positive over the long term. However, in the near to medium term we expect Ashok Leyland sales to be under pressure due to the challenging economic environment.

Valuation

Our price target of Rs28 for ALL is based on an 8x P/CEPS on Sep10e CEPS. We revert to our cash earnings based methodology as we expect earnings volatility to reduce into 2HFY10/ early FY11e as the CV cycle gradually improves. We now base our target price at 8x on Sep10e CEPS (in line with historical average of 8.4x). At present, the stock is trading at 20x P/E on FY10 EPS - which is a 20% premium to its historical average. We believe the stock is expensive at these valuations.

Risks

We rate ALL Medium Risk, lower than the High risk assigned by our quantitative risk-rating system, which tracks 260-day historical share-price volatility. We rate ALL Medium Risk, in line with its other peers - both in India - and also globally. The key risk factors to our target price are movements in economic variables - particularly GDP growth, interest rates and fuel prices, to which sales of commercial vehicles are very sensitive. Input costs are volatile and linked to global commodity prices for metals, plastics, etc. The profitability and viability of the STUs over the long term are an important risk factor, given that the STUs are the largest buyers of ALL buses. Key upside risks to our target price include: 1) Greater-than-expected volume growth on account of the Supreme Court ruling on overloading; 2) Significant reduction in input costs (notably steel and aluminium) would benefit earnings; and 3) Effective integration of the Avia acquisition could enable ALL to penetrate the domestic LCV market successfully..

Appendix A-1

Analyst Certification

Each research analyst(s) principally responsible for the preparation and content of all or any identified portion of this research report hereby certifies that, with respect to each issuer or security or any identified portion of the report with respect to an issuer or security that the research analyst covers in this research report, all of the views expressed in this research report accurately reflect their personal views about those issuer(s) or securities. Each research analyst(s) also certify that no part of their compensation was, is, or will be, directly or indirectly, related to the specific recommendation(s) or view(s) expressed by that research analyst in this research report.

IMPORTANT DISCLOSURES

Ashok Leyland (ASOK.BO)

Ratings and Target Price History

Fundamental Research

Analyst: Jamshed Dadabhoy

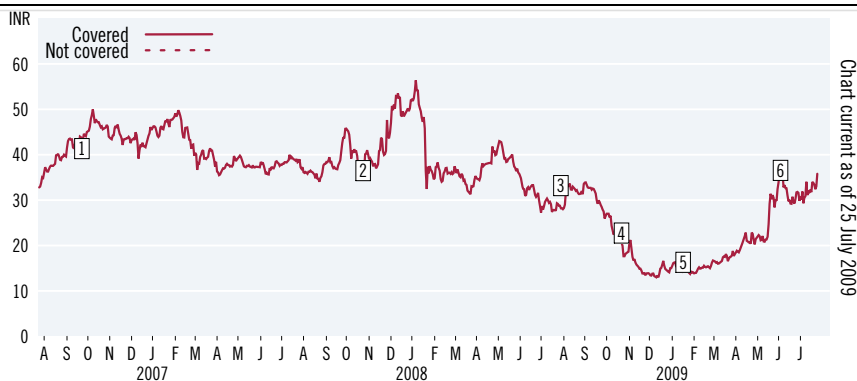


Chart current as of 25 July 2009

	Date	Rating	Target Price	Closing Price
1	22-Sep-06	3L	*39.00	43.30
2	24-Oct-07	3L	*38.00	37.15

	Date	Rating	Target Price	Closing Price
3	29-Jul-08	3L	*26.00	28.20
4	22-Oct-08	*3M	*19.00	20.60

	Date	Rating	Target Price	Closing Price
5	16-Jan-09	3M	*12.00	15.00
6	3-Jun-09	3M	*29.00	36.30

* Indicates change

Rating/target price changes above reflect Eastern Standard Time

Citigroup Global Markets Inc. or an affiliate received compensation for products and services other than investment banking services from Ashok Leyland in the past 12 months.

Citigroup Global Markets Inc. currently has, or had within the past 12 months, the following as clients, and the services provided were non-investment-banking, securities-related: Ashok Leyland.

Citigroup Global Markets Inc. currently has, or had within the past 12 months, the following as clients, and the services provided were non-investment-banking, non-securities-related: Ashok Leyland.

Analysts' compensation is determined based upon activities and services intended to benefit the investor clients of Citigroup Global Markets Inc. and its affiliates ("the Firm"). Like all Firm employees, analysts receive compensation that is impacted by overall firm profitability which includes investment banking revenues.

For important disclosures (including copies of historical disclosures) regarding the companies that are the subject of this Citi Investment Research & Analysis product ("the Product"), please contact Citi Investment Research & Analysis, 388 Greenwich Street, 29th Floor, New York, NY, 10013, Attention: Legal/Compliance. In addition, the same important disclosures, with the exception of the Valuation and Risk assessments and historical disclosures, are contained on the Firm's disclosure website at www.citigroupgeo.com. Valuation and Risk assessments can be found in the text of the most recent research note/report regarding the subject company. Historical disclosures (for up to the past three years) will be provided upon request.

Citi Investment Research Ratings Distribution

Data current as of 30 Jun 2009

	Buy	Hold	Sell
Citi Investment Research Global Fundamental Coverage	41%	38%	21%
% of companies in each rating category that are investment banking clients	46%	45%	39%

Guide to Fundamental Research Investment Ratings:

Citi Investment Research's stock recommendations include a risk rating and an investment rating.

Risk ratings, which take into account both price volatility and fundamental criteria, are: Low (L), Medium (M), High (H), and Speculative (S).

Investment ratings are a function of Citi Investment Research's expectation of total return (forecast price appreciation and dividend yield within the next 12 months) and risk rating.

For securities in emerging markets (Asia Pacific, Emerging Europe/Middle East/Africa, and Latin America), investment ratings are: Buy (1) (expected total return of 15% or more for Low-Risk stocks, 20% or more for Medium-Risk stocks, 30% or more for High-Risk stocks, and 40% or more for Speculative stocks); Hold (2) (5%-15% for Low-Risk stocks, 10%-20% for Medium-Risk stocks, 15%-30% for High-Risk stocks, and 20%-40% for Speculative stocks); and Sell (3) (5% or less for Low-Risk stocks, 10% or less for Medium-Risk stocks, 15% or less for High-Risk stocks, and 20% or less for Speculative stocks).

Investment ratings are determined by the ranges described above at the time of initiation of coverage, a change in investment and/or risk rating, or a change in target price (subject to limited management discretion). At other times, the expected total returns may fall outside of these ranges because of market price movements and/or other short-term volatility or trading patterns. Such interim deviations from specified ranges will be permitted but will become subject to review by Research Management. Your decision to buy or sell a security should be based upon your personal investment objectives and should be made only after evaluating the stock's expected

performance and risk.

Guide to Corporate Bond Research Credit Opinions and Investment Ratings: Citi Investment Research's corporate bond research issuer publications include a fundamental credit opinion of Improving, Stable or Deteriorating and a complementary risk rating of Low (L), Medium (M), High (H) or Speculative (S) regarding the credit risk of the company featured in the report. The fundamental credit opinion reflects the CIR analyst's opinion of the direction of credit fundamentals of the issuer without respect to securities market vagaries. The fundamental credit opinion is not geared to, but should be viewed in the context of debt ratings issued by major public debt ratings companies such as Moody's Investors Service, Standard and Poor's, and Fitch Ratings. CBR risk ratings are approximately equivalent to the following matrix: Low Risk Triple A to Low Double A; Low to Medium Risk High Single A through High Triple B; Medium to High Risk Mid Triple B through High Double B; High to Speculative Risk Mid Double B and Below. The risk rating element illustrates the analyst's opinion of the relative likelihood of loss of principal when a fixed income security issued by a company is held to maturity, based upon both fundamental and market risk factors. Certain reports published by Citi Investment Research will also include investment ratings on specific issues of companies under coverage which have been assigned fundamental credit opinions and risk ratings. Investment ratings are a function of Citi Investment Research's expectations for total return, relative return (to publicly available Citigroup bond indices performance), and risk rating. These investment ratings are: Buy/Overweight the bond is expected to outperform the relevant Citigroup bond market sector index (Broad Investment Grade, High Yield Market or Emerging Market), performances of which are updated monthly and can be viewed at <http://sd.ny.ssmb.com/> using the "Indexes" tab; Hold/Neutral Weight the bond is expected to perform in line with the relevant Citigroup bond market sector index; or Sell/Underweight the bond is expected to underperform the relevant sector of the Citigroup indexes.

Non-US research analysts who have prepared this report are not registered/qualified as research analysts with the NYSE and/or NASD. Such research analysts may not be associated persons of the member organization and therefore may not be subject to the NYSE Rule 472 and NASD Rule 2711 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account. The legal entities employing the authors of this report are listed below:

Citigroup Global Markets India Private Limited

Jamshed Dadabhoj, Hitesh Goel

OTHER DISCLOSURES

The subject company's share price set out on the front page of this Product is quoted as at 27 July 2009 04:00 PM on the issuer's primary market.

For securities recommended in the Product in which the Firm is not a market maker, the Firm is a liquidity provider in the issuers' financial instruments and may act as principal in connection with such transactions. The Firm is a regular issuer of traded financial instruments linked to securities that may have been recommended in the Product. The Firm regularly trades in the securities of the issuer(s) discussed in the Product. The Firm may engage in securities transactions in a manner inconsistent with the Product and, with respect to securities covered by the Product, will buy or sell from customers on a principal basis.

Securities recommended, offered, or sold by the Firm: (i) are not insured by the Federal Deposit Insurance Corporation; (ii) are not deposits or other obligations of any insured depository institution (including Citibank); and (iii) are subject to investment risks, including the possible loss of the principal amount invested. Although information has been obtained from and is based upon sources that the Firm believes to be reliable, we do not guarantee its accuracy and it may be incomplete and condensed. Note, however, that the Firm has taken all reasonable steps to determine the accuracy and completeness of the disclosures made in the Important Disclosures section of the Product. The Firm's research department has received assistance from the subject company(ies) referred to in this Product including, but not limited to, discussions with management of the subject company(ies). Firm policy prohibits research analysts from sending draft research to subject companies. However, it should be presumed that the author of the Product has had discussions with the subject company to ensure factual accuracy prior to publication. All opinions, projections and estimates constitute the judgment of the author as of the date of the Product and these, plus any other information contained in the Product, are subject to change without notice. Prices and availability of financial instruments also are subject to change without notice. Notwithstanding other departments within the Firm advising the companies discussed in this Product, information obtained in such role is not used in the preparation of the Product. Although Citi Investment Research does not set a predetermined frequency for publication, if the Product is a fundamental research report, it is the intention of Citi Investment Research to provide research coverage of the/those issuer(s) mentioned therein, including in response to news affecting this issuer, subject to applicable quiet periods and capacity constraints. The Product is for informational purposes only and is not intended as an offer or solicitation for the purchase or sale of a security. Any decision to purchase securities mentioned in the Product must take into account existing public information on such security or any registered prospectus.

Investing in non-U.S. securities, including ADRs, may entail certain risks. The securities of non-U.S. issuers may not be registered with, nor be subject to the reporting requirements of the U.S. Securities and Exchange Commission. There may be limited information available on foreign securities. Foreign companies are generally not subject to uniform audit and reporting standards, practices and requirements comparable to those in the U.S. Securities of some foreign companies may be less liquid and their prices more volatile than securities of comparable U.S. companies. In addition, exchange rate movements may have an adverse effect on the value of an investment in a foreign stock and its corresponding dividend payment for U.S. investors. Net dividends to ADR investors are estimated, using withholding tax rates conventions, deemed accurate, but investors are urged to consult their tax advisor for exact dividend computations. Investors who have received the Product from the Firm may be prohibited in certain states or other jurisdictions from purchasing securities mentioned in the Product from the Firm. Please ask your Financial Consultant for additional details. Citigroup Global Markets Inc. takes responsibility for the Product in the United States. Any orders by US investors resulting from the information contained in the Product may be placed only through Citigroup Global Markets Inc.

Important Disclosures for Morgan Stanley Smith Barney LLC Customers: Morgan Stanley & Co. Incorporated (Morgan Stanley) research reports may be available about the companies that are the subject of this Citi Investment Research & Analysis (CIRA) research report. Ask your Financial Advisor or use smithbarney.com to view any available Morgan Stanley research reports in addition to CIRA research reports. In addition to the disclosures on this research report and on the CIRA disclosure website (https://www.citigroupgeo.com/geopublic/Disclosures/index_a.html), important disclosures regarding the relationship between the companies that are the subject of this report and Morgan Stanley Smith Barney LLC, Morgan Stanley or any of its affiliates, are available at www.morganstanley.com/researchdisclosures. This CIRA research report has been reviewed and approved on behalf of Morgan Stanley Smith Barney LLC. This review and approval was conducted by the same person who reviewed this research report on behalf of CIRA. This could create a conflict of interest.

The Citigroup legal entity that takes responsibility for the production of the Product is the legal entity which the first named author is employed by. The Product is made available in Australia through Citigroup Global Markets Australia Pty Ltd. (ABN 64 003 114 832 and AFSL No. 240992), participant of the ASX Group and regulated by the Australian Securities & Investments Commission. Citigroup Centre, 2 Park Street, Sydney, NSW 2000. The Product is made available in Australia to Private Banking wholesale clients through Citigroup Pty Limited (ABN 88 004 325 080 and AFSL 238098). Citigroup Pty Limited provides all financial product advice to Australian Private Banking wholesale clients through bankers and relationship managers. If there is any doubt about the suitability of investments held in Citigroup Private Bank accounts, investors should contact the Citigroup Private Bank in Australia. Citigroup companies may compensate affiliates and their representatives for providing products and services to clients. The Product is made available in Brazil by Citigroup Global Markets Brasil - CCTVM SA, which is regulated by CVM - Comissão de Valores Mobiliários, BACEN - Brazilian Central Bank, APIMEC - Associação dos Analistas e Profissionais de Investimento do Mercado de Capitais and ANBID - Associação Nacional dos Bancos de Investimento. Av. Paulista, 1111 - 11º andar - CEP. 01311920 - São Paulo - SP. If the Product is being made available in certain provinces of Canada by

Citigroup Global Markets (Canada) Inc. ("CGM Canada"), CGM Canada has approved the Product. Citigroup Place, 123 Front Street West, Suite 1100, Toronto, Ontario M5J 2M3. The Product is made available in France by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. 1-5 Rue Paul Cézanne, 8ème, Paris, France. The Product may not be distributed to private clients in Germany. The Product is distributed in Germany by Citigroup Global Markets Deutschland AG & Co. KGaA, which is regulated by Bundesanstalt fuer Finanzdienstleistungsaufsicht (BaFin). Frankfurt am Main, Reuterweg 16, 60323 Frankfurt am Main. If the Product is made available in Hong Kong by, or on behalf of, Citigroup Global Markets Asia Ltd., it is attributable to Citigroup Global Markets Asia Ltd., Citibank Tower, Citibank Plaza, 3 Garden Road, Hong Kong. Citigroup Global Markets Asia Ltd. is regulated by Hong Kong Securities and Futures Commission. If the Product is made available in Hong Kong by The Citigroup Private Bank to its clients, it is attributable to Citibank N.A., Citibank Tower, Citibank Plaza, 3 Garden Road, Hong Kong. The Citigroup Private Bank and Citibank N.A. is regulated by the Hong Kong Monetary Authority. The Product is made available in India by Citigroup Global Markets India Private Limited, which is regulated by Securities and Exchange Board of India. Bakhtawar, Nariman Point, Mumbai 400-021. The Product is made available in Indonesia through PT Citigroup Securities Indonesia. 5/F, Citibank Tower, Bapindo Plaza, Jl. Jend. Sudirman Kav. 54-55, Jakarta 12190. Neither this Product nor any copy hereof may be distributed in Indonesia or to any Indonesian citizens wherever they are domiciled or to Indonesian residents except in compliance with applicable capital market laws and regulations. This Product is not an offer of securities in Indonesia. The securities referred to in this Product have not been registered with the Capital Market and Financial Institutions Supervisory Agency (BAPEPAM-LK) pursuant to relevant capital market laws and regulations, and may not be offered or sold within the territory of the Republic of Indonesia or to Indonesian citizens through a public offering or in circumstances which constitute an offer within the meaning of the Indonesian capital market laws and regulations. The Product is made available in Italy by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. Foro Buonaparte 16, Milan, 20121, Italy. If the Product was prepared by Citi Investment Research and distributed in Japan by Nikko Citigroup Limited ("NCL"), it is being so distributed under license. If the Product was prepared by NCL and distributed by Nikko Cordial Securities Inc. or Citigroup Global Markets Inc. or Citigroup Global Markets under license. NCL is regulated by Financial Services Agency, Securities and Exchange Surveillance Commission, Japan Securities Dealers Association, Tokyo Stock Exchange and Osaka Securities Exchange. Shin-Marunouchi Building, 1-5-1 Marunouchi, Chiyoda-ku, Tokyo 100-6520 Japan. In the event that an error is found in an NCL research report, a revised version will be posted on Citi Investment Research's Global Equities Online (GEO) website. If you have questions regarding GEO, please call (81 3) 6270-3019 for help. The Product is made available in Korea by Citigroup Global Markets Korea Securities Ltd., which is regulated by Financial Supervisory Commission and the Financial Supervisory Service. Hungkuk Life Insurance Building, 226 Shinmunno 1-GA, Jongno-Gu, Seoul, 110-061. The Product is made available in Malaysia by Citigroup Global Markets Malaysia Sdn Bhd, which is regulated by Malaysia Securities Commission. Menara Citibank, 165 Jalan Ampang, Kuala Lumpur, 50450. The Product is made available in Mexico by Acciones y Valores Banamex, S.A. De C. V., Casa de Bolsa, Integrante del Grupo Financiero Banamex ("Accival") which is a wholly owned subsidiary of Citigroup Inc. and is regulated by Comision Nacional Bancaria y de Valores. Reforma 398, Col. Juarez, 06600 Mexico, D.F. In New Zealand the Product is made available through Citigroup Global Markets New Zealand Ltd. (Company Number 604457), a Participant of the New Zealand Exchange Limited and regulated by the New Zealand Securities Commission. Level 19, Mobile on the Park, 157 Lambton Quay, Wellington. The Product is made available in Pakistan by Citibank N.A. Pakistan branch, which is regulated by the State Bank of Pakistan and Securities Exchange Commission, Pakistan. AWT Plaza, 1.1. Chundrigar Road, P.O. Box 4889, Karachi-74200. The Product is made available in Poland by Dom Maklerski Banku Handlowego SA an indirect subsidiary of Citigroup Inc., which is regulated by Komisja Nadzoru Finansowego. Dom Maklerski Banku Handlowego S.A. ul. Chalubinskiego 8, 00-630 Warszawa. The Product is made available in the Russian Federation through ZAO Citibank, which is licensed to carry out banking activities in the Russian Federation in accordance with the general banking license issued by the Central Bank of the Russian Federation and brokerage activities in accordance with the license issued by the Federal Service for Financial Markets. Neither the Product nor any information contained in the Product shall be considered as advertising the securities mentioned in this report within the territory of the Russian Federation or outside the Russian Federation. The Product does not constitute an appraisal within the meaning of the Federal Law of the Russian Federation of 29 July 1998 No. 135-FZ (as amended) On Appraisal Activities in the Russian Federation. 8-10 Gashka Street, 125047 Moscow. The Product is made available in Singapore through Citigroup Global Markets Singapore Pte. Ltd., a Capital Markets Services Licence holder, and regulated by Monetary Authority of Singapore. 1 Temasek Avenue, #39-02 Millenia Tower, Singapore 039192. The Product is made available by The Citigroup Private Bank in Singapore through Citibank, N.A., Singapore branch, a licensed bank in Singapore that is regulated by Monetary Authority of Singapore. Citigroup Global Markets (Pty) Ltd. is incorporated in the Republic of South Africa (company registration number 2000/025866/07) and its registered office is at 145 West Street, Sandton, 2196, Saxonwold. Citigroup Global Markets (Pty) Ltd. is regulated by JSE Securities Exchange South Africa, South African Reserve Bank and the Financial Services Board. The investments and services contained herein are not available to private customers in South Africa. The Product is made available in Spain by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. 29 Jose Ortega Y Gasset, 4th Floor, Madrid, 28006, Spain. The Product is made available in Taiwan through Citigroup Global Markets Taiwan Securities Company Ltd., which is regulated by Securities & Futures Bureau. No portion of the report may be reproduced or quoted in Taiwan by the press or any other person. No. 8 Manhattan Building, Hsin Yi Road, Section 5, Taipei 100, Taiwan. The Product is made available in Thailand through Citicorp Securities (Thailand) Ltd., which is regulated by the Securities and Exchange Commission of Thailand. 18/F, 22/F and 29/F, 82 North Sathorn Road, Silom, Bangkok 10500, Thailand. The Product is made available in Turkey through Citibank AS which is regulated by Capital Markets Board. Tekfen Tower, Eski Buyukdere Caddesi # 209 Kat 2B, 23294 Levent, Istanbul, Turkey. In the U.A.E, these materials (the "Materials") are communicated by Citigroup Global Markets Limited, DIFC branch ("CGML"), an entity registered in the Dubai International Financial Center ("DIFC") and licensed and regulated by the Dubai Financial Services Authority ("DFSA") to Professional Clients and Market Counterparties only and should not be relied upon or distributed to Retail Clients. A distribution of the different CIRA ratings distribution, in percentage terms for Investments in each sector covered is made available on request. Financial products and/or services to which the Materials relate will only be made available to Professional Clients and Market Counterparties. The Product is made available in United Kingdom by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. This material may relate to investments or services of a person outside of the UK or to other matters which are not regulated by the FSA and further details as to where this may be the case are available upon request in respect of this material. Citigroup Centre, Canada Square, Canary Wharf, London, E14 5LB. The Product is made available in United States by Citigroup Global Markets Inc, which is regulated by NASD, NYSE and the US Securities and Exchange Commission. 388 Greenwich Street, New York, NY 10013. Unless specified to the contrary, within EU Member States, the Product is made available by Citigroup Global Markets Limited, which is regulated by Financial Services Authority. Many European regulators require that a firm must establish, implement and make available a policy for managing conflicts of interest arising as a result of publication or distribution of investment research. The policy applicable to Citi Investment Research's Products can be found at www.citigroupgeo.com. Compensation of equity research analysts is determined by equity research management and Citigroup's senior management and is not linked to specific transactions or recommendations. The Product may have been distributed simultaneously, in multiple formats, to the Firm's worldwide institutional and retail customers. The Product is not to be construed as providing investment services in any jurisdiction where the provision of such services would not be permitted. Subject to the nature and contents of the Product, the investments described therein are subject to fluctuations in price and/or value and investors may get back less than originally invested. Certain high-volatility investments can be subject to sudden and large falls in value that could equal or exceed the amount invested. Certain investments contained in the Product may have tax implications for private customers whereby levels and basis of taxation may be subject to change. In doubt, investors should seek advice from a tax adviser. The Product does not purport to identify the nature of the specific market or other risks associated with a particular transaction. Advice in the Product is general and should not be construed as personal advice given it has been prepared without taking account of the objectives, financial situation or needs of any particular investor. Accordingly, investors should, before acting on the advice, consider the appropriateness of the advice, having regard to their objectives, financial situation and needs. Prior

to acquiring any financial product, it is the client's responsibility to obtain the relevant offer document for the product and consider it before making a decision as to whether to purchase the product.

© 2009 Citigroup Global Markets Inc. (© Nikko Citigroup Limited, if this Product was prepared by it). Citi Investment Research is a division and service mark of Citigroup Global Markets Inc. and its affiliates and is used and registered throughout the world. Citi and Citi with Arc Design are trademarks and service marks of Citigroup Inc and its affiliates and are used and registered throughout the world. Nikko is a registered trademark of Nikko Cordial Corporation. All rights reserved. Any unauthorized use, duplication, redistribution or disclosure is prohibited by law and will result in prosecution. Where included in this report, MSCI sourced information is the exclusive property of Morgan Stanley Capital International Inc. (MSCI). Without prior written permission of MSCI, this information and any other MSCI intellectual property may not be reproduced, disseminated or used to create any financial products, including any indices. This information is provided on an "as is" basis. The user assumes the entire risk of any use made of this information. MSCI, its affiliates and any third party involved in, or related to, computing or compiling the information hereby expressly disclaim all warranties of originality, accuracy, completeness, merchantability or fitness for a particular purpose with respect to any of this information. Without limiting any of the foregoing, in no event shall MSCI, 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. MSCI, Morgan Stanley Capital International and the MSCI indexes are services marks of MSCI and its affiliates. The information contained in the Product is intended solely for the recipient and may not be further distributed by the recipient. The Firm accepts no liability whatsoever for the actions of third parties. The Product may provide the addresses of, or contain hyperlinks to, websites. Except to the extent to which the Product refers to website material of the Firm, the Firm has not reviewed the linked site. Equally, except to the extent to which the Product refers to website material of the Firm, the Firm takes no responsibility for, and makes no representations or warranties whatsoever as to, the data and information contained therein. Such address or hyperlink (including addresses or hyperlinks to website material of the Firm) is provided solely for your convenience and information and the content of the linked site does not in anyway form part of this document. Accessing such website or following such link through the Product or the website of the Firm shall be at your own risk and the Firm shall have no liability arising out of, or in connection with, any such referenced website.

ADDITIONAL INFORMATION IS AVAILABLE UPON REQUEST
