

Company Focus

31 January 2008 | 8 pages

Mahindra & Mahindra (MAHM.BO)

Buy: 3Q Results Above Expectations

- Revise target price to Rs865 from Rs945, as we adjust valuations to reflect lower valuations of Tech Mahindra and incorporate significantly higher value for Mahindra Holidays.
- Q3 results: Recurring PAT +3% YoY Recurring PAT at Rs2.5 bn was 10% above our estimates. Reported PAT was ~Rs4.05bn, including exceptional gains on revaluation of subsidiaries. Variance in recurring PAT attributed to higher EBITDA margins (at 11.3%, 70 bps ahead of estimates) and a low tax rate (reflecting fiscal incentives and tax exemptions on product development expenditure).
- Mounting capex a concern In the conference call, management indicated that overall capital expenditure for the next 3 years will aggregate around Rs90bn - far higher than our current estimates of ~Rs60bn. We await clarity from management on exact details and time lines before incorporating these revised numbers into our estimates. We also await details on Systech (the auto parts business) - where more inorganic initiatives could occur.
- Business outlook mixed— We forecast around 12-13% growth in the UV business over the next 2 years - for the tractor business we forecast more sedate growth of around 7% CAGR.
- Reiterate Buy (1L) Key risk factors are a) Increase in input costs, b) Curtailment of credit to the farming sector, which could affect sales of the highmargin tractor business, and c) mounting capex.

Buy/Low Risk	1L
Price (31 Jan 08)	Rs669.35
Target price	Rs865.00
from Rs945.00	
Expected share price return	29.2%
Expected dividend yield	1.6%
Expected total return	30.9%
Market Cap	Rs164,487M
	US\$4,185M

Price Pe	rtormanc	e (RIC: MA	HM.BU, BB	S: MM IN)
INR				
900 🔨				
800	\	\wedge	٨	\sim
700	$\sqrt{\mathcal{N}}$	M	~~	\cup
600 .	. , .		V	
	30 Mar	29 Jun	28 Sep	31 Dec

Statistica	l Abstract						
Year to	Net Profit	Diluted EPS	EPS growth	P/E	P/B	ROE	Yield
31 Mar	(RsM)	(Rs)	(%)	(x)	(x)	(%)	(%)
2006A	6,688	26.18	-39.5	25.6	5.4	27.2	1.5
2007A	9,872	38.64	47.6	17.3	4.3	29.9	1.7
2008E	10,250	40.12	3.8	16.7	3.6	25.2	1.6
2009E	11,293	44.20	10.2	15.1	3.0	23.4	1.8
2010E	13,133	51.40	16.3	13.0	2.6	23.0	1.9

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

Source: Powered by dataCentral

Jamshed Dadabhoy¹ +91-22-6631-9883 jamshed.dadabhoy@citi.com Hitesh Goel¹ hitesh.goel@citi.com

Citi Investment Research is a division of Citigroup Global Markets Inc. (the "Firm"), which does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the Firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision. 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. ¹Citigroup Global Markets India Private Limited

Fiscal year end 31-Mar	2006	2007	2008E	2009E	2010E
Valuation Ratios					
P/E adjusted (x)	25.6	17.3	16.7	15.1	13.0
EV/EBITDA adjusted (x)	20.9	14.5	13.4	11.9	9.9
P/BV (x)	5.4	4.3	3.6	3.0	2.6
Dividend yield (%)	1.5	1.7	1.6	1.8	1.9
Per Share Data (Rs)					
EPS adjusted	26.18	38.64	40.12	44.20	51.40
EPS reported	33.55	41.82	40.12	44.20	51.40
BVPS	124.63	155.35	185.87	219.63	259.98
DPS	10.00	11.50	11.00	12.00	13.00
Profit & Loss (RsM)					
Net sales	79,772	98,076	108,932	122,523	139,873
Operating expenses	-74,431	-89,970	-100,346	-113,515	-129,319
EBIT	5,341	8,106	8,587	9,008	10,553
Net interest expense	-270	-198	-250	-520	-600
Non-operating/exceptionals	3,570	5,249	5,704	6,981	8,037
Pre-tax profit	8,641	13,157	14,041	15,469	17,990
Tax	-2,424	-3,501	-3,791	-4,177	-4,857
Extraord./Min.Int./Pref.div.	2,354	1,028	0	0	0
Reported net income	8,571	10,684	10,250	11,293	13,133
Adjusted earnings	6,688	9,872	10,250	11,293	13,133
Adjusted EBITDA	7,341	10,202	10,859	11,934	13,848
Growth Rates (%)	00.5	00.0	11.1	10.5	140
Sales	22.5	22.9	11.1	12.5	14.2
EBIT adjusted	16.9	51.8	5.9 6.4	4.9	17.2
EBITDA adjusted EPS adjusted	14.5 -39.5	39.0 47.6	3.8	9.9 10.2	16.0 16.3
Cash Flow (RsM)	00.0	17.0	0.0	10.2	10.0
Operating cash flow	10,316	11,321	11,646	13,208	15,182
Depreciation/amortization	2,000	2,096	2,272	2,926	3,295
Net working capital	-255	-1,459	-876	-1,011	-1,245
Investing cash flow	- 7,589	-10,940	-1 9,567	-14,000	-14,000
Capital expenditure	-2,796	-5,261	-5,447	-6,000	-6,000
Acquisitions/disposals	-4,793	-5,679	-14,120	-8,000	-8,000
Financing cash flow	-37	4,731	-1,227	792	-1,182
Borrowings	-1,692	7,526	1,758	4,048	2,345
Dividends paid	-2,782	-3,121	-2,985	-3,256	-3,528
Change in cash	2,691	5,112	-9,148	0	0
Balance Sheet (RsM)					
Total assets	60,030	77,412	88,756	103,834	119,190
Cash & cash equivalent	7,303	11,148	2,000	2,000	2,000
Accounts receivable	6,380	7,905	9,158	10,683	12,629
Net fixed assets	15,544	18,710	21,884	24,958	27,663
Total liabilities	30,941	40,433	44,513	51,555	57,306
Accounts payable	13,707	16,603	18,610	20,983	23,917
Total Debt	8,834	16,360	18,118	22,166	24,512
Shareholders' funds	29,089	36,978	44,243	52,279	61,884
Profitability/Solvency Ratios (%)					
EBITDA margin adjusted	9.2	10.4	10.0	9.7	9.9
ROE adjusted	27.2	29.9	25.2	23.4	23.0
ROIC adjusted	19.6	26.0	21.8	18.5	18.9
Net debt to equity	5.3	14.1	36.4	38.6	36.4
Total debt to capital	23.3	30.7	29.1	29.8	28.4

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



Figure 1. M&M 3	QFY08- Ope	rational Res	sults
	3Q FY07	3Q FY08	% YoY chg CIR Comments
Volumes (Nos.)			
Utility vehicles	33,312	39,282	17.9 Driven by 44% YoY growth in Bolero sales and modest 6% YoY growth in Scorpio sales
Tractors	28,130	26,318	Overall domestic tractor industry declined by 2% whereas (6.4) M&M declined 8% YoY, implying loss of market share
3-wheelers	8,425	8,711	3.4 Impacted by decline in large 2 wheeler sales
Total	69,867	74,311	6.4
Product mix (%)			
Utility vehicles	47.7	52.9	
Tractors	40.3	35.4	
3-wheelers	12.1	11.7	
Domestic Market share (%)			
Utility vehicles	48.4	52.8	
Tractors	31.1	28.9	
3-wheelers	8.2	9.4	

Source: Company, Citi Investment Research

Figure 2.	M&M 3QFYO)8- Financial	Results
-----------	-----------	---------------	---------

(INR m) Net sales Decrease/(Increase) in Stocks	3Q FY07 25,761 433	3QFY08 29,402 (977)	% YoY chg CIR Comments 14.1 In line with estimates
Raw Materials	17,150	20,745	21.0 Cost control through aggressive cost cutting actions, some synergies accrue from Punjab Tractors
Staff costs	1,778	2,161	21.6 Reflects employee ramp up in conjunction with capex plans
Other Expenses	3,304	4,109	24.4 Reflects increase in marketing, product development and fuel & power expenses
Provision for contingencies	-	49	
Total Expenditure	22,664	26,087	15.1
Operating profit	3,096	3,315	7.1 7% above expectations
Interest	(168)	72	(143.1)
Other income	412	401	(2.8) Below expectations due to use of cash for expansion plan
EBDT	3,676	3,643	(0.9)
Depreciation	522	590	13.1 In line with estimates
PBT	3,154	3,053	(3.2)
Exceptionals		1,548	Includes gain of Rs 1570 million as M&M received additional shares due to merger of 3 subsidiaries in Mahindra Forgings
Tax	731	550	(24.8)
PAT	2,423	4,052	67.2
PAT (pre exceptionals)	2,423	2,503	3.3 10% above expectations
Profit Margins (%)			
EBITDA (%)	12.0	11.3	Declined 70 bps YoY, 70 bps above expectations
Tax / PBT (%)	23.2	18.0	Tax rate lower due to tax incentives, deductions applicable to R&D
Net profit margins (%)	8.4	7.5	
Raw materials / sales	68.3	67.2	70 bps above expectations
Staff costs / sales	6.9	7.3	50 bps below expectations
Other expenses / sales	12.8	14.0	80 bps below expectations
Source: Company, Citi I	nvestment R	esearch	

Mahindra & Mahindra

Company description

Mahindra and Mahindra manufactures utility vehicles, light commercial vehicles and tractors. It has recently entered the three-wheeler segment. M&M is the market leader in both the utility vehicle and tractor segments.

Investment strategy

We rate M&M shares Buy / Low Risk (1L) with a target price of Rs865. Tractor sales are benefiting from relatively low penetration levels and the government's emphasis on increasing credit to the agriculture sector. Apart from dominance of the lower end of the market, where competition has been limited, M&M's utility vehicle business is also benefiting from product initiatives, particularly the launch of the Scorpio and Bolero models and variants of these, which have enabled M&M to tap into the urban markets for passenger vehicles. Moreover, we also recognize management's efforts to retain market share within segments like three-wheelers, given the stiff competition in this segment. We remain positive on management's efforts to de-risk from the local market by pursuing sales in select international markets. The target is to raise international sales from around 10% at present to 20% over the next three years. Their efforts have met with substantial success particularly in the tractor segment, wherein they are currently ranked No. 4 (in terms of unit sales) globally. The substantial value of the company's real estate and investment holdings (particularly in the information technology business through Tech Mahindra and in the financial services business through M&M Financial Services) should provide downside support (especially with increasing dividends from key subsidiaries). Given recent initiatives to unlock value in subsidiaries - MMFSL and Tech Mahindra being the primary examples – we incorporate the value of key subsidiaries within our sum-of-parts valuation.

Valuation

Our target price of Rs865 is based on a sum-of-parts methodology. We value M&M's core business at Rs468 (9x FY09E core CEPS). We also incorporate value for M&M's listed subsidiaries (Rs222/share), its auto component business (Rs57/share) and M&M's investments in other subsidiaries (including Mahindra Holidays at Rs102/share). Our core multiple of 9x, is supported by an 14% CAGR in core cash earnings (excluding dividends from group companies) for M&M over FY07-09E. We value the key subsidiaries / associates / auto component initiatives at Rs397/share. At our core target price (of Rs468) the stock would trade at around 10.2x FY08E core EPS (excluding dividends from subsidiaries) and should be supported by 11% CAGR in earnings over FY07-09E. We have chosen to use P/CEPS as our primary valuation metric to ensure proper comparison with historical trading bands the company is undertaking a significant product development and capital expenditure program, and also undertook a restructuring of the balance sheet in FYO2. We believe valuations will also be supported by: a) management's continued efforts to unleash value from investments in group concerns (we

believe that the listing of the group's hotel / resorts venture is next on the anvil); and b) new initiatives announced in the passenger cars, commercial vehicles and auto components segments, which should fructify over the next 2-3 years.

Figure 3. M&M Sum of Parts Valuation				
Parts	Remark	Value	Per M&N Share	
Core Auto and UV Businesses	9x FY09 Price / Cash EPS	119,687	468	
Principal Listed Subsidiaries	At 25% discount to CMP		222	
Systech (auto component initiatives)	12x FY08E EPS	14,563	57	
Mahindra Holidays and Resorts	Valued at pre - IPO placement - adjusted for holding company discount, dilution post - IPO	6,682	102	
Other unlisted subsidiaries	At Book Value	3,929	15	
Total Value / share			865	

Risks

We rate M&M shares Low Risk, in line with our quantitative model which tracks 260-day historical share price volatility. Key Risk factors to our investment thesis which could prevent the shares from reaching our target price include: Any substantial rise in interest rates that could curb demand for farm equipment and utility vehicles. Given M&M's strong dependence on the rural economy (a substantial part of the demand for their products emanates herein), any weak trend in the prices of agricultural commodities could also impact demand and sales. Escalating competition within the UV segment, which might lead to an increase in discounts and result in margin pressure.

Appendix A-1

Analyst Certification

Each research analyst(s), strategist(s) or research associate(s) 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, strategist or research associate covers in this research report, all of the views expressed by that research analyst, strategist or research associate in this research report accurately reflect their personal views about those issuer(s) or securities. Each research analyst(s), strategist(s) or research associate(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, strategist or research associate in this research report.

IMPORTANT DISCLOSURES

Covered Not covered

Mahindra & Mahindra (MAHM.BO)



Rating/target price changes above reflect Eastern Standard Time

Citigroup Global Markets Inc. or its affiliates beneficially owns 1% or more of any class of common equity securities of Mahindra & Mahindra. This position reflects information available as of the prior business day.

Within the past 12 months, Citigroup Global Markets Inc. or its affiliates has acted as manager or co-manager of an offering of securities of Mahindra.

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

Citigroup Global Markets Inc. currently has, or had within the past 12 months, the following company(ies) as clients, and the services provided were non-investment-banking, securities-related: Mahindra & Mahindra.

Citigroup Global Markets Inc. currently has, or had within the past 12 months, the following company(ies) as clients, and the services provided were non-investment-banking, non-securities-related: Mahindra & Mahindra.

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 revenues from, among other business units, the Private Client Division, Institutional Sales and Trading, and Investment Banking.

For important disclosures (including copies of historical disclosures) regarding the companies that are the subject of this Citi Investment Research product ("the Product"), please contact Citi Investment Research, 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. Private Client Division clients should refer to www.smithbarney.com/research. 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 DistributionData current as of 31 December 2007BuyHoldSellCiti Investment Research Global Fundamental Coverage (3421)50%37%12%% of companies in each rating category that are investment banking clients52%53%40%

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 (relative to the performance of relevant Citi bond indices), and risk rating. These investment ratings are: Buy/Overweight -- the bond is expected to outperform the relevant Citigroup bond market sector index; or Sell/Underweight -- the bond is expected to underperform the relevant Citigroup bond market sector index; or Sell/Underweight -- the bond is expected to underperform the relevant Citigroup bond market sector index. Performance data for Citi bond i

OTHER DISCLOSURES

The subject company's share price set out on the front page of this Product is quoted as at 31 January 2008 04:00 PM on the issuer's primary market.

Citigroup Global Markets Inc. and/or its affiliates has a significant financial interest in relation to Mahindra & Mahindra. (For an explanation of the determination of significant financial interest, please refer to the policy for managing conflicts of interest which can be found at www.citigroupgeo.com.)

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 subject company(ies) 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

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.

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 to wholesale clients through Citigroup Global Markets Australia Pty Ltd. (ABN 64 003 114 832 and AFSL No. 240992) and to retail clients through Citi Smith Barney Pty Ltd. (ABN 19 009 145 555 and AFSL No. 240813), Participants 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 Associação dos Analistas e Profissionais de Investimento do Mercado de Capitais and ANBID - Associação Nacional dos Bancos de Investimento. Av. Paulista, 1111 - 11° 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 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 Kay. 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. 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. it is being so distributed 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, which 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 Poland by Dom Maklerski Banku Handlowego SA an indirect subsidiary of Citigroup Inc., which is regulated by Komisja Papierów Wartosciowych i Gield. Bank Handlowy w Warszawie S.A. ul. Senatorska 16, 00-923 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 Gasheka 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 Taiwan through Citigroup Global Markets Inc. (Taipei Branch), 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, Bangrak, Bangkok 10500, Thailand. 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. If 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

© 2008 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. 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, 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