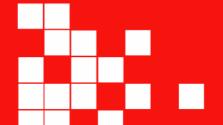
Macquarie Research **Equities**





INDIA

Hindustan Construction

30 April 2007

HCC IN		Neutral
Stock price as of 27 Apr 07 12-month target Upside/downside Valuation - Sum of Parts	Rs Rs % Rs	98.45 93.00 -5.5 93.00
GICS sector Market cap 30-day avg turnover Market cap Number shares on issue	Rs m Rs m US\$m m	capital goods 25,228 59.1 620 256.2

Investment fundamentals

Year end 31 Mar		2006A	2007E	2008E	2009E
Total revenue	m	19,870	24,747	32,171	40,214
EBITDA	m	1,827	2,328	3,056	4,021
EBITDA growth	%	17.2	27.4	31.3	31.6
EBIT	m	1,303	1,565	2,166	3,041
EBIT Growth	%	17.8	20.1	38.4	40.4
Recurring profit	m	975	1,163	1,506	2,221
Reported profit	m	848	306	994	1,466
Adjusted profit	m	840	756	994	1,466
' '					,
EPS rep	Rs	3.59	1.20	3.88	5.72
EPS rep growth	%	0.7	-66.7	224.4	47.5
EPS adi	Rs	3.46	2.95	3.88	5.72
EPS adj growth	%	11.0	-14.8	31.4	47.5
PE adi	Х	28.4	33.4	25.4	17.2
,					
ROA	%	5.9	5.1	6.5	8.2
ROE	%	14.1	8.9	11.1	14.7
EV/EBITDA	X	18.2	14.0	10.9	8.3
Net debt/equity	%	36.2	123.4	106.5	108.3
Price/book	X	3.0	3.0	2.7	2.4
		0.0	0.0		

HCC IN rel SENSEX performance, & rec history



Source: Datastream, Macquarie Research, April 2007 (all figures in INR unless noted)

Analyst

Gopal Ritolia 91 22 6653 3055

gopal.ritolia@macquarie.com

Weakness persists

Event

HCC's 4Q FY3/07 results were even weaker than our below-consensus estimates. Delays in major projects have resulted in anaemic revenue growth and the withdrawal of tax benefits has resulted in a YoY profit decline. With the core construction business outlook remaining weak and still-insufficient clarity on real estate forays, we expect HCC to underperform its peers.

Impact

- Delays in major projects impacts revenue growth. We have been highlighting the weak order book profile for some time. We were concerned about the significant contribution of early-stage hydropower projects in difficult geographies like Jammu & Kashmir. The concentration of road projects in Assam and Uttar Pradesh added to our concerns. The risk of delays in these projects has now manifested. Sluggish implementation of these projects would continue to be a drag on revenue growth.
- Large investments are impacting profit growth. The company has invested ~Rs7bn during FY07 in the construction business for capital expenditure and working capital requirements. This has resulted in interest and depreciation costs increasing by 130bp YoY as a proportion of revenues during FY07. Pressure on this front is unlikely to abate with the company guiding for capex of Rs2bn during FY08.
- Order inflows are sluggish. Since the fresh order intake during FY07 comprised only 86% of revenues booked during the year, the order book declined by 5%. We do not expect a sharp acceleration in order bookings over the next couple of years. The outlook for the two main sectors hydropower and roads remains sedate. Six hydropower projects won during FY06-07 have stretched resources and the company's inexperience in bidding for BOT road projects means accretion to road orders would be modest at best.

Earnings revision

No change.

Price catalyst

- 12-month price target: Rs93.00 based on a Sum of Parts methodology.
- Catalyst: Moderate revenue growth and continuing margin pressure as evidenced from quarterly numbers

Action and recommendation

The weakness is the core construction business is evident. We are cautious on the real estate foray as well. Lack of demand visibility in the Lavasa project and change of plans for the Vikhroli project mean that any gains for the real estate business are some way away. Consequently, we expect the company to continue underperforming its peers. Neutral rating maintained.

Please refer to the important disclosures on inside back cover of this document, or on our website www.macquarie.com.au/research/disclosures.

Delays in major projects impacts revenue growth

We have been highlighting the weak order book profile for some time. We were concerned about the significant contribution of early-stage hydropower projects in difficult geographies like Jammu & Kashmir. The concentration of road projects in Assam and Uttar Pradesh added to our concerns. The risk of delays in these projects has now manifested.

Revenue growth during 4Q FY3/07 was anaemic at 7.8% as adverse climatic conditions in Jammu & Kashmir and land acquisition issues in road projects impacted project implementation. Growth for the full year was sedate as well, with revenues increasing by only 18.7%. Sluggish implementation of these projects would continue to be a drag on revenue growth. Further land acquisition delays in road projects would put our FY08 revenue estimates at risk.

Fig 1 4Q FY3/07 results

(Rs m)	FY06	1Q FY07	2Q FY07	3Q FY07	4Q FY07	FY07
Sales	19,870	5,735	4,202	5,361	8,277	23,576
Share of JV sales	412	71	54	45	199	369
Expenditure	18,042	5,282	3,808	4,779	7,555	21,424
Raw Material Consumed	8,631	1,865	1,392	1,570	2,579	7,406
Employee Expenses	1,319	418	422	633	614	2,087
Construction Expenses	7,381	2,817	1,779	2,365	4,003	10,964
Other Expenses	713	181	216	211	359	966
EBITDA	1,827	454	394	583	722	2,153
Interest	414	74	158	175	212	620
Depreciation	524	162	186	206	244	797
Other Income	55	62	10	2	125	199
Profit/Loss on JVs	31	7	1	81	154	244
Profit before tax	975	287	61	285	546	1,179
Tax	135	36	19	65	266	386
Profit After Tax	840	251	42	220	280	793
EPS (Rs)	3.3	1.0	0.2	0.9	1.0	3.1
Yearly Growth (%)						
Revenues	33.6	24.4	39.1	17.7	7.8	18.7
EBITDA	17.2	11.0	52.9	19.9	7.0	17.8
PAT	22.3	14.8	-196.4	-3.0	-36.1	-5.6
Margins (%)						
EBITDA	9.2%	7.9%	9.4%	10.9%	8.7%	9.1%
PAT	4.2%	4.4%	1.0%	4.1%	3.4%	3.4%
Tax rate	13.8%	12.6%	31.5%	22.8%	48.7%	32.7%
Source: Company data, Macqua	arie Research, A	oril 2007				

Profits before tax have declined adjusting for one-off items

4Q FY3/07 profits-before-tax (PBT) increased by 17.9% YoY, helped by other income of Rs125.2m (from foreign exchange gains) and profits from joint ventures of Rs154.3m (claims received from completed projects). Both these items are non-recurring in nature. Adjusting for these items, PBT decreased by 42.5% YoY for the guarter. Adjusted PBT for FY07 decreased by 7.7%.

Other income was mainly on account of foreign exchange gains. The company had issued foreign currency convertible bonds (FCCBs) worth US\$100m last year. Sharp appreciation in the rupee during 4Q FY3/07 resulted in a reduction in rupee liability, which the company booked as other income. In addition to the non-recurring nature, we find the accounting treatment aggressive as well. Though the FCCBs do not have yearly coupons, they carry a YTM of 4.25%. The company does not provide for interest costs according to accrual principles as the management maintains that the FCCBs would eventually convert. With the bonds currently deep out of money, we find booking of exchange gains aggressive especially when the company is not providing for contingent costs.

30 April 2007

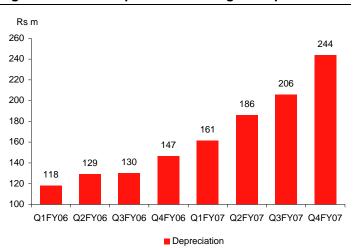
Large investments are impacting profit growth

The company invested ~Rs7bn in the construction business in FY07 for meeting capital expenditure and working capital requirements. As a result, Rs9bn fresh capital raised last year is now substantially invested. The much higher than expected capital infusion in the construction business was necessitated by the six hydropower projects won during FY06-07. This has resulted in interest and depreciation costs increasing by 130bp YoY as proportion of revenues during FY07. Pressure on this front is unlikely to abate with the company guiding for capex of Rs2bn during FY08.

Fig 2 Interest cost is rising as cash balances decline

Rs m 230 212 210 190 175 170 158 150 126 120 130 110 83 90 74 70 Q1FY06 Q2FY06 Q3FY06 Q4FY06 Q1FY07 Q2FY07 Q3FY07 Q4FY07 Interest

Fig 3 Increased capex results in higher depreciation



Source: Macquarie Research, April 2007

Source: Macquarie Research, April 2007

Tax rates have been adjusted as expected

HCC was a late convert to the group of companies claiming tax benefit under Sec 80IA. However, once it was convinced of the applicability of these benefits for construction companies, it wrote back tax provisions for earlier years as well. As a result, the effective tax rate for FY05 and FY06 was 1.3% and 13.8% respectively. For FY07, the company has provided tax at the rate of 32.7%. As a result, net profits have declined by 5.6% YoY to Rs793m.

As the withdrawal is retrospective, the company has provided Rs425m for prior period taxes, against our estimate of Rs450m. Accounting for the prior period taxes, net profits for FY07 declined 43% YoY to Rs367.6m. However, the mitigating factor is that the prior period taxes would not result in an actual cash outflow as the company had already paid taxes as per the full rate and then claimed exemption under the section.

Order inflows are sluggish

Since the fresh order intake during FY07 comprised only 86% of revenues booked during the year, the order book declined by 5%. We do not expect a sharp acceleration in order bookings over the next couple of years. The outlook for the two main sectors – hydropower and roads – remains sedate. Six hydropower projects won during FY06-07 have stretched resources and the company's inexperience in bidding for BOT road projects means accretion to road orders would be modest at best.

Fig 4 Order intake has lagged revenues in FY07...

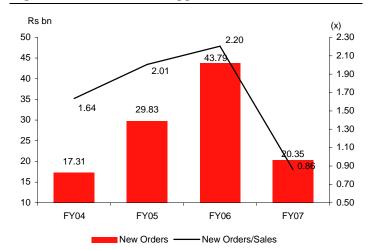
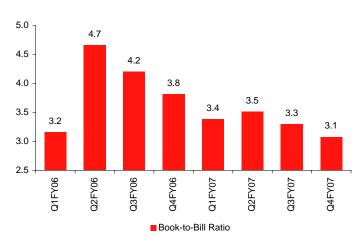


Fig 5 ...as a result, order coverage ratio has declined



*Excluding the Rs19.4bn Sawalkote project under dispute Source: Macquarie Research, April 2007

Source: Macquarie Research, April 2007

We are not enthused by plans for real estate foray

Large pre-launch investment of Rs9bn has been planned for the Lavasa project. Without core economic activity to attract people from existing urban centres to the new township, developing the required network effect remains an uphill task. Increased upfront investment has pushed the breakeven point even further.

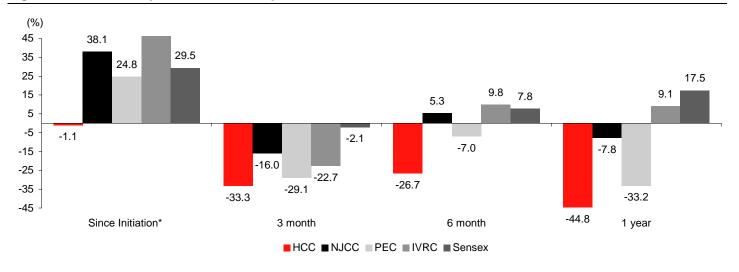
In addition to the large 12,500-acre Lavasa project, the company has indicated that it has significant expansion plans for the real estate business and is in the process of aggregating around 1,500 acres of land in Mumbai and other cities in the state of Maharashtra. The company got a late start in creating an exploitable land bank, and the success of its real estate plans depends on the price paid for the contracted land after a significant run-up in prices. Management has given no details on the acquisition price. We will wait for more details on the land bank before ascribing a value to it.

Change in plans for the Vikhroli (West) IT park project in Mumbai underlines the challenges the company faces in the real estate business. The company had earlier planned to develop 1.7m sq ft of office space for IT companies over 9 acres land in Vikhroli. However, demand from the sector has been weak given that IT parks are no longer attractive for IT companies given the withdrawal of tax benefits for IT parks. Consequently, the company now plans to develop a general corporate park instead. The change in plans would delay the launch of the project. Revenues would be further deferred given that a general corporate park would take longer to fill than an IT park.

Expect HCC to underperform its peers

The weakness is the core construction business is evident. We are cautious on the real estate foray as well. Lack of demand visibility in the Lavasa project and the change of plans for the Vikhroli project mean that any gains for the real estate business are some way away. Consequently, we expect the company to continue underperforming its peers.

Fig 6 HCC has underperformed both its peers and the broader market



*Since July 31, 2006

Source: Macquarie Research, April 2007

Hindustan Construction Company (HCC IN, Neutral, Target pri	co: Dc03 00/

Hindustan Construct Quarterly Results	1011 CO	3Q/07A	4Q/07E	1Q/08E	2Q/08E	Profit & Loss		2006A	2007E	2008E	2009E
Revenue	m	5,361	9,448	7,456	5,463	Revenue	m	19,870	24,747	32,171	40,214
Gross Profit	m	793	1,096	895	710	Gross Profit	m	2,540	3,134	3,799	4,808
Cost of Goods Sold	m	4,568	8,352	6,561	4,753	Cost of Goods Sold	m	17,330	21,613	28,372	35,406
EBITDA	m	583	898	708	519	EBITDA	m	1,827	2,328	3,056	4,021
Depreciation	m	206	210	215	220	Depreciation	m	524	763	890	980
Amortisation of Goodwill	m	0	0	0	0	Amortisation of Goodwill	m	0	0	0	0
Other Amortisation	m	0	0	0	0	Other Amortisation	m	0	0	0	0
EBIT	m	377	688	493	299	EBIT	m	1,303	1,565	2,166	3,041
Net Interest Income	m	-175	-176	-170	-180	Net Interest Income	m	-414	-583	-740	-900
Associates	m	81	8	10	10	Associates	m	31	98	40	40
Exceptionals	m	0	0	0	0	Exceptionals	m	0	0	0	0
Forex Gains / Losses	m	0	0	0	0	Forex Gains / Losses	m	0	0	0	0
Other Pre-Tax Income	m	2	10	10	10	Other Pre-Tax Income	m	55	. 84	40	40
Pre-Tax Profit	m	285	530	343	139	Pre-Tax Profit	m	975	1,163	1,506	2,221
Tax Expense	m	-65	-286	-117	-47	Tax Expense	m	-135	-406	-512	-755
Net Profit Minority Interests	m m	220 0	244 0	227 0	92 0	Net Profit Minority Interests	m m	840 0	756 0	994 0	1,466 0
Reported Earnings Adjusted Earnings	m m	220 220	-206 244	227 227	92 92	Reported Earnings Adjusted Earnings	m m	848 840	306 756	994 994	1,466 1,466
	•••										
EPS (rep) EPS (adi)		0.86 0.86	-0.81 0.95	0.88 0.88	0.36 0.36	EPS (rep) EPS (adi)		3.59 3.46	1.20 2.95	3.88 3.88	5.72 5.72
EPS Growth yoy (adj)	%	-13.2	-44.4	-9.8	120.0	EPS Growth (adj)	%	11.0	-14.8	31.4	47.5
2. 3 3.5 min 33y (auj)	70	10.2	-17.7	5.0	120.0	PE (rep)	76 X	29.3	87.9	27.1	18.4
						PE (adj)	x	30.3	35.6	27.1	18.4
EBITDA Margin	%	10.9	9.5	9.5	9.5	Total DPS		0.00	0.00	0.00	0.00
EBIT Margin	%	7.0	7.3	6.6	5.5	Total Div Yield	%	0.0	0.0	0.0	0.0
Earnings Split	%	29.1	32.2	22.8	9.2	Weighted Average Shares	m	236	256	256	256
Revenue Growth	%	17.7	23.0	30.0	30.0	Period End Shares	m	256	256	256	256
EBIT Growth	%	6.0	30.1	68.8	43.7						
Profit and Loss Ratios		2006A	2007E	2008E	2009E	Cashflow Analysis		2006A	2007E	2008E	2009E
Revenue Growth	%	33.6	24.5	30.0	25.0	EBITDA	m	1,827	2,328	3,056	4,021
EBITDA Growth	%	17.2	27.4	31.3	31.6	Tax Paid	m	-135	-406	-512	-755
EBIT Growth	%	17.8	20.1	38.4	40.4	Chgs in Working Cap	m	-3,918	-5,272	883	-1,825
Gross Profit Margin	%	12.8	12.7	11.8	12.0	Net Interest Paid	m	-414	-583	-740	-900
EBITDA Margin	%	9.2	9.4	9.5	10.0	Other	m	0	0	0	0
EBIT Margin	%	6.6	6.3	6.7	7.6	Operating Cashflow	m	-2,640	-3,933	2,687	541
Net Profit Margin	%	4.2	3.1	3.1	3.6	Acquisitions	m	1,090	-1,000	0	0
Payout Ratio	%	0.0	0.0	0.0	0.0	Capex	m	-2,269	-2,099	-1,985	-1,985
EV/EBITDA	Х	19.2	14.7	11.5	8.8	Asset Sales	m	0	0	0	0
EV/EBIT	Х	26.7	21.4	16.1	11.6	Other	m	45 4 43 E	-271	80 4 005	80 -1,905
Palance Shoot Paties						Investing Cashflow	m	-1,135 -205	-3,369	-1,905	
Balance Sheet Ratios ROE	%	14.1	8.9	11.1	14.7	Dividend (Ordinary)	m		-203 0	-203 0	-203 0
ROA	% %	5.9	5.1		8.2	Equity Raised Debt Movements	m	4,325		0	0
ROIC	% %		5.1 8.9	6.5 7.5			m	8,853	0 0	0	0
Net Debt/Equity	% %	16.4 36.2	123.4	7.5 106.5	10.4 108.3	Other	m	0 42.073	- 203	- 203	- 203
Interest Cover	/o X	30.2	2.7	2.9	3.4	Financing Cashflow	m	12,973	-203	-203	-203
Price/Book	X	3.1	3.2	2.9	2.5	Net Chg in Cash/Debt	m	9,199	-7,505	579	-1,567
Book Value per Share		32.8	33.3	36.5	41.4						
						Balance Sheet		2006A	2007E	2008E	2009E
						Cash Receivables	m m	10,111 71	2,621 69	3,214 89	1,661 111
						Inventories	m	11,120	16,440	17,810	22,263
						Investments	m	720	1,720	1,720	1,720
						Fixed Assets	m	6,247	7,582	8,677	9,682
						Intangibles	m	0,2	0	0	0
						Other Assets	m	1,918	3,085	3,564	3,898
						Total Assets	m	30,187	31,516	35,075	39,335
						Payables	m	7,547	8,905	11,577	14,471
						Short Term Debt	m	0	0	0	0
						Long Term Debt	m	13,163	13,163	13,163	13,163
						Provisions	m	380	234	316	405
						Other Liabilities	m	676	674	674	674
						Total Liabilities	m	21,766	22,976	25,729	28,712
						Shareholders' Funds	m	8,417	8,536	9,342	10,620
						Minority Interests	m	5	4	4	4
						Other	m	0	0	0	0
						Total S/H Equity Total Liab & S/H Funds	m m	8,422 30,187	8,540 31,516	9,346 35,075	10,623 39,335
						i otal Elab & O/111 ullus		50,107	31,310	33,073	55,555
All figures in INR unless noted.	April 2007										

Important disclosures:

Recommendation definitions

Macquarie Australia/New Zealand

Outperform – return >5% in excess of benchmark return (>2.5% in excess for listed property trusts)
Neutral – return within 5% of benchmark return (within 2.5% for listed property trusts)
Underperform – return >5% below benchmark return

(>2.5% below for listed property trusts)

Macquarie Asia

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

Macquarie First South Securities (South Africa)

Outperform – expected return >+5% Neutral – expected return from -5% to +5% Underperform – expected return <-5%

Recommendations - 12 months

Note: Quant recommendations may differ from Fundamental Analyst recommendations

Recommendation proportions

	AU/NZ	Asia	RSA
Outperform	44.37%	58.37%	42.60%
Neutral	44.01%	21.30%	46.80%
Underperform	11.62%	20.33%	10.60%

For quarter ending 31 March 2007

Volatility index definition*

This is calculated from the volatility of historic price movements

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

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

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

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

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

* Applicable to Australian/NZ stocks only

Financial definitions

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

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

EPS = adjusted net profit / efpowa*

ROA = adjusted ebit / average total assets

ROA Banks/Insurance = adjusted net profit /average total assets

ROE = adjusted net profit / average shareholders funds

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

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

Analyst Certification: The views expressed in this research accurately reflect the personal views of the analyst(s) about the subject securities or issuers and no part of the compensation of the analyst(s) was, is, or will be directly or indirectly related to the inclusion of specific recommendations or views in this research. The analyst principally responsible for the preparation of this research receives compensation based on overall revenues, including investment banking revenues, of Macquarie Bank Ltd ABN 46 008 583 542 (AFSL No.237502)("Macquarie") and its related entities ("the Macquarie group") and has taken reasonable care to achieve and maintain independence and objectivity in making any recommendations. Disclaimers: Macquarie Securities (Australia) Ltd: Macquarie Europe Ltd: Macquarie Securities (USA) Inc: Macquarie Securities Ltd: Macquarie Securities (Singapore) Pte Ltd; and Macquarie Securities (New Zealand) Ltd are not authorised deposit-taking institutions for the purposes of the Banking Act 1959 (Commonwealth of Australia), and their obligations do not represent deposits or other liabilities of Macquarie. Macquarie provides a guarantee to the Monetary Authority of Singapore in respect of Macquarie Securities (Singapore) Pte Ltd for up to SGD25m under the Securities and Futures Act (Chapter 289). Macquarie does not otherwise guarantee or provide assurance in respect of the obligations of any of the above mentioned entities. This research has been prepared for the general use of the wholesale clients of the Macquarie group and must not be copied, either in whole or in part, or distributed to any other person. If you are not the intended recipient you must not use or disclose the information in this research in any way. Nothing in this research shall be construed as a solicitation to buy or sell any security or product, or to engage in or refrain from engaging in any transaction. In preparing this research, we did not take into account the investment objectives, financial situation and particular needs of the reader. Before making an investment decision on the basis of this research, the reader needs to consider, with or without the assistance of an adviser, whether the advice is appropriate in light of their particular investment needs, objectives and financial circumstances. There are risks involved in securities trading. The price of securities can and does fluctuate, and an individual security may even become valueless. International investors are reminded of the additional risks inherent in international investments, such as currency fluctuations and international stock market or economic conditions, which may adversely affect the value of the investment. This research is based on information obtained from sources believed to be reliable but we do not make any representation or warranty that it is accurate, complete or up to date. We accept no obligation to correct or update the information or opinions in it. Opinions expressed are subject to change without notice. No member of the Macquarie group accepts any liability whatsoever for any direct, indirect, consequential or other loss arising from any use of this research and/or further communication in relation to this research. Other Disclaimers: Securities research is issued and distributed by Macquarie Securities (Australia) Ltd (AFSL No. 238947) in Australia, a participating organisation of the Australian Stock Exchange; Macquarie Securities (New Zealand) Ltd in New Zealand, a licensed sharebroker and New Zealand Exchange Firm; Macquarie Europe Ltd in the United Kingdom, which is authorised and regulated by the Financial Services Authority (No. 193905); Macquarie Securities Ltd in Hong Kong, which is licensed and regulated by the Securities and Futures Commission; Macquarie Securities (Japan) Limited in Japan, a member of the Tokyo Stock Exchange, Inc. and Osaka Securities Exchange Co., Ltd and in Singapore, Macquarie Securities (Singapore) Pte Ltd (Company Registration Number: 198702912C), a Capital Markets Services licence holder under the Securities and Futures Act to deal in securities and provide custodial services in Singapore. Pursuant to the Financial Advisers (Amendment) Regulations 2005, Macquarie Securities (Singapore) Pte Ltd is exempt from complying with sections 25, 27 and 36 of the Financial Advisers Act. Economic research is issued and distributed in Australia by Macquarie; in New Zealand by Macquarie Securities (New Zealand) Ltd and in the United Kingdom by Macquarie Europe Ltd. Clients should contact analysts at, and execute transactions through, a Macquarie group entity in their home jurisdiction unless governing law permits

Auckland	Bangkok	Hong Kong	Jakarta	Johannesburg	Kuala Lumpur
Tel: (649) 377 6433	Tel: (662) 694 7999	Tel: (852) 2823 3588	Tel: (62 21) 515 1818	Tel: (27 11) 343 2258	Tel: (60 3) 2059 8833
London	Manila	Melbourne	Mumbai	New York	Perth
Tel: (44 20) 7065 2000	Tel: (63 2) 857 0888	Tel: (613) 9635 8139	Tel: (91 22) 6653 3000	Tel: (1 212) 231 2500	Tel: (618) 9224 0888
Seoul	Shanghai	Singapore	Sydney	Taipei	Tokyo
Tel: (82 2) 3705 8500	Tel: (86 21) 6841 3355	Tel: (65) 6231 1111	Tel: (612) 8232 9555	Tel: (886 2) 2734 7500	Tel: (81 3) 3512 7900

otherwise. This research may be distributed in the United States only to major institutional investors and may not be circulated to any other person in the United States. Macquarie Securities (USA) Inc., which is a registered broker-dealer and member of the NASD, accepts responsibility for the content of each research report prepared by one of its non-US affiliates when the research report is distributed in the United States by Macquarie Securities (USA) Inc. All transactions by US investors involving securities discussed in this report must be effected through Macquarie Securities (USA) Inc. The information contained in this email is confidential. If you are not the intended recipient, you must not disclose or use the information in this email in any way. If you received it in error, please tell us immediately by return e-mail and delete the document. We do not guarantee the integrity of any e-mails or attached files and are not responsible for any changes made to them by any other person. Disclosures with respect to the issuers, if any, mentioned in

Available to clients on the world wide web at www.macquarie.com/research and through Thomson Financial, Reuters and Bloomberg.

this research are available at www.macquarie.com/research/disclosures. © Macquarie Group

Macquarie Research **Equities**





Research

Automobiles/Auto Parts				
Kurt Sanger (Japan, Asia)	(813) 3512 7859			
Deepak Jain (India)	(9122) 6653 3157			
Liny Halim (Indonesia)	(6221) 515 7343			
Toshisuke Hayami (Japan)	(813) 3512 7873			
Eunsook Kwak (Korea)	(822) 3705 8644			
Banks and Non-Bank Financials				

Daliks allu Noll-Dalik Fillal	iciais
Ismael Pili (Asia)	(65) 6231 2840
Nick Lord (Asia)	(852) 2823 4774
Christina Fok (China)	(852) 2823 3584
Chris Esson (Hong Kong)	(852) 2823 3567
Seshadri Sen (India)	(9122) 6653 3053
Liny Halim (Indonesia)	(6221) 515 7343
Kentaro Kogi (Japan)	(813) 3512 7865
Hwashin Lee (Korea)	(822) 3705 4994
Mark Barclay (Korea)	(822) 3705 8658
Young Chung Mok (Korea)	(822) 3705 8668
Chin Seng Tay (Malaysia, S'pore)	(65) 6231 2837
Gilbert Lopez (Philippines)	(632) 857 0898
Chris Hunt (Taiwan)	(8862) 2734 7526
Matthew Smith (Taiwan)	(8862) 2734 7514
Alastair Macdonald (Thailand)	(662) 694 7741

Chemicals/Textiles	
Scott Weaver (China, Taiwan)	(8862) 2734 7512
Jal Irani (India)	(9122) 6653 3040
Kitti Nathisuwan (Thailand)	(662) 694 7724
Conglomerates	

Gary Pinge (Asia)	(852) 2823 3557
Gilbert Lopez (Philippines)	(632) 857 0898
Consumer	

Ramiz Chelat (Asia)	(852) 2823 3587
Xiaopo Wei (China)	(852) 2823 4741
Nicolas Wang (Hong Kong)	(852) 2823 4625
Unmesh Sharma (India)	(9122) 6653 3042
Sarina Lesmina (Indonesia)	(6221) 515 7339
Duane Sandberg (Japan)	(813) 3512 7867
Christina Lee (Korea)	(822) 3705 8670
Paul Hwang (Korea)	(822) 3705 8678
Woochang Chung (Korea)	(822) 3705 8667
Edward Ong (Malaysia)	(603) 2059 8982
Nadine Javellana (Philippines)	(632) 857 0890

Emerging Leaders	
Paul Quah (Hong Kong)	(852) 2823 4627
Saurabh Jain (India)	(9122) 6653 3046
Oliver Cox (Japan)	(813) 3512 7871
Robert Burghart (Japan)	(813) 3512 7853
Paul Hwang (Korea)	(822) 3705 8678
Woochang Chung (Korea)	(822) 3705 8667
Nadine Javellana (Philippines)	(632) 857 0890
Jeremy Chen (Taiwan)	(8862) 2734 7521
Scott Weaver (Taiwan)	(8862) 2734 7512
Insurance	

Chris Esson (China, Taiwan)	(852) 2823 3567

Media

Ramiz Chelat (Asia)

Nicholas Teo (Taiwan)

Prem Jearajasingam (Malaysia)	(603) 2059 8989
Metals and Mining	
Simon Francis (Asia)	(852) 2823 3590
Pakach Arara (India)	(0122) 6652 2054

(852) 2823 3587

Oil and Cas	
Amornrat Cheevavichawalkul (Thai)	(662) 694 7829
Christina Lee (Korea)	(822) 3705 8670
Adam Worthington (Indonesia)	(6221) 515 7338
Rakesh Arora (India)	(9122) 6653 3054
SILLIOLI FLALICIS (ASIA)	(652) 2623 3590

Oil and Gas	
David Johnson (Asia)	(852) 2823 4691
Scott Weaver (China, Taiwan)	(8862) 2734 7512
Jal Irani (India)	(9122) 6653 3040
Mark Barclay (Korea)	(822) 3705 8658
Edward Ong (Malaysia)	(603) 2059 8982
LCHE NI-Hallander /The allands	(000) 004 7704

Jai Irani (India)	(9122) 6653 3040
Mark Barclay (Korea)	(822) 3705 8658
Edward Ong (Malaysia)	(603) 2059 8982
Kitti Nathisuwan (Thailand)	(662) 694 7724
Pharmaceuticals	
Shubham Majumder (India)	(9122) 6653 3049

Property	
Matt Nacard (Asia)	(852) 2823 4731
Eva Lee (Hong Kong, China)	(852) 2823 3573
Siddhartha Gupta (India)	(9122) 6653 3048
Chang Han Joo (Japan)	(813) 3512 7885
Gilbert Lopez (Philippines)	(632) 857 0898
Tuck Yin Soong (Singapore)	(65) 6231 2838
Corinne Jian (Taiwan)	(8862) 2734 7529
Monchai Jaturanpinyo (Thailand)	(662) 694 7727

rechnology	
Warren Lau (Asia)	(852) 2823 3592
Suveer Chainani (India)	(9122) 6653 3045
Damian Thong (Japan)	(813) 3512 7877
David Gibson (Japan)	(813) 3512 7880
George Chang (Japan)	(813) 3512 7854
Yoshihiro Shimada (Japan)	(813) 3512 7862
Do Hoon Lee (Korea)	(822) 3705 8641
Michael Bang (Korea)	(822) 3705 8659
Patrick Yau (Singapore)	(65) 6231 2835
Cheryl Hsu (Taiwan)	(8862) 2734 7522
Daniel Chang (Taiwan)	(8862) 2734 7516
Dominic Grant (Taiwan)	(8862) 2734 7528
Jessica Chang (Taiwan)	(8862) 2734 7518

Telecoms	
Tim Smart (Asia)	(852) 2823 3565
Jake Lynch (China, Hong Kong)	(852) 2823 3583
Shubham Majumder (India)	(9122) 6653 3049
Richard Moe (Indonesia)	(662) 694 7753
Nathan Ramler (Japan)	(813) 3512 7875
Joel Kim (Korea)	(822) 3705 8677
Prem Jearajasingam (Malaysia)	(603) 2059 8989
Ramakrishna Maruvada	

(8862) 2734 7523

(65) 6231 2842 (Philippines, Singapore) Dominic Grant (Taiwan) (8862) 2734 7528 Richard Moe (Thailand) (662) 694 7753

Transport & Logistics

Paul Huxford (Asia)	(65) 6231 2841
Michael Chan (Asia)	(852) 2823 3595
Anderson Chow (China, Hong Kong)	(852) 2823 4773
Bin Liu (China)	(852) 2823 4761
Eunsook Kwak (Korea)	(822) 3705 8644
Utilities	

Sylvia Chan (Asia) (852) 2823 3579 Gopal Ritolia (India) (9122) 6653 3055 Adam Worthington (Indonesia) (6221) 515 7338 Prem Jearajasingam (Malaysia) Dante Tinga (Philippines) (603) 2059 8989 (632) 857 0815

Commodities

Data Services	
Henry Liu	(4420) 7065 2014
Bonnie Liu	(4420) 7065 2014
Max Layton	(4420) 7065 2000
Adam Rowley	(4420) 7065 2013
Jim Lennon	(4420) 7065 2014

(852) 2823 4762
(813) 3512 7852

Economics	
Roland Randall (Asean)	(852) 2823 3572
Bill Belchere (Asia)	(852) 2823 4636
Eli Polatinsky (Asia)	(852) 2823 4074
Richard Gibbs (Australia)	(612) 8232 3935
Paul Cavey (China)	(852) 2823 3570
Richard Jerram (Japan)	(813) 3512 7855

Quantitative	
Martin Emery (Asia)	(852) 2823 3582
Viking Kwok (Asia)	(852) 2823 4735

George Platt (Australia)	(612) 8232 6539
Strategy/Country	
Tim Rocks (Asia)	(852) 2823 3585
Daniel McCormack (Asia)	(852) 2823 4073
Desh Peramunetilleke (Asia)	(852) 2823 3564
Jake Lynch (China)	(852) 2823 3583

Seshadri Sen (India) (9122) 6653 3053 Peter Eadon-Clarke (Japan) (813) 3512 7850 Eugene Ha (Korea) (822) 3705 8643 Uday Jayaram (Malaysia) (603) 2059 8988 Gilbert Lopez (Philippines) (632) 857 0898 Tuck Yin Soong (Singapore) (65) 6231 2838 (8862) 2734 7526 Chris Hunt (Taiwan) Kitti Nathisuwan (Thailand) (662) 694 7724

Find our research at

Macquarie: www.macquarie.com.au/research Thomson: www.thomson.com/financial Reuters: www.rbr.reuters.com Bloomberg: MAC GO

Email macresearch@macquarie.com for access

Sales

Regional Heads of Sales

Greg Gordon (Asia)	(852) 2823 3509
Peter Slater (Boston)	(1 617) 217 2103
Michelle Paisley (China, Hong Kong)	(852) 2823 3516
Ulrike Pollak-Tsutsumi (Frankfurt)	(49) 69 7593 8747
Daniel Fust (Geneva)	(41) 22 818 7710
Thomas Renz (Geneva)	(41) 22 818 7712
Ajay Bhatia (India)	(9122) 6653 3200
Stuart Smythe (India)	(9122) 6653 3200
Eugene Ha (Korea)	(822) 3705 8643
K.Y. Nam (Korea)	(822) 3705 8607
Derek Wilson (London)(N Asia)	(44) 20 7065 5856
Julien Roux (London)	(44) 20 7065 5887
Lena Yong (Malaysia)	(603) 2059 8888
Ismael Pili (Philippines)	(65) 6231 2840
Greg Norton-Kidd (New York)	(1 212) 231 2527

Regional Heads of Sales cont'd

_	
Luke Sullivan (New York)	(1 212) 231 2507
Mark Lawrence (New York)	(1 212) 231 2516
Sheila Schroeder (San Francisco)	(1 415) 835 1235
Giles Heyring (Singapore)	(65) 6231 2888
Mark Duncan (Taiwan)	(8862) 2734 7510
Angus Kent (Thailand)	(662) 694 7601
Dominic Henderson (Tokyo)	(813) 3512 7820
Nick Cant (Tokyo)	(813) 3512 7821
Charles Nelson (UK/Europe)	(44) 20 7065 2032
Rob Fabbro (UK/Europe)	(44) 20 7065 2031

Sales Trading

Anthony Wilson (Asia)	(852) 2823 3511
Mona Lee (Hong Kong)	(852) 2823 3519
Stuart Goddard (Europe)	(44) 20 7065 2033
Brendan Rake (India)	(9122) 6653 3204

Sales Trading cont'd

(822) 3705 8601
(44) 20 7065 5883
(1 212) 231 2555
(8862) 2734 7582
(813) 3512 7830

Index Sales

Margaret Hartmann (612) 8232 9834

Alternative Strategies

/ iitor nati vo oti atogioo	
Convertibles - Roland Sharman	(852) 2823 4628
Depository Receipts - Robert Ansell	(852) 2823 4688
Derivatives - Vipul Shah	(852) 2823 3523
Futures - Tim Smith	(852) 2823 4637
Hedge Fund Sales - Darin Lester	(852) 2823 4736
Structured Products - Andrew Terlich	(852) 2249 3225