Macquarie Research **Equities**





INDIA

Punj Lloyd

5 February 2007

PUNJ IN		Outperform						
Stock price as of 01 Feb 07 12-month target Upside/downside Valuation - EV/EBITDA	Rs Rs % Rs	1,019.40 1,315.00 +29.0 1,315.00						
GICS sector Market cap 30-day avg turnover Market cap Number shares on issue	Rs m US\$ m US\$m m	capital goods 53,263 9.78 1,210 52.25						
Investment fundamentals								

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Year end 31 Mar		2006A	2007E	2008E	2009E				
Total revenue EBITDA EBITDA growth Recurring profit Reported profit Adjusted profit	m m % m m	16,846 1,909 -9.6 814 555 538	50,001 3,333 74.6 2,029 1,554 1,539	73,257 6,118 83.6 3,682 2,574 2,574	89,816 8,361 36.7 5,445 3,808 3,808				
EPS rep EPS adj EPS adj growth PE adj	Rs Rs % x	17.34 18.56 513.7 54.9	29.76 29.48 58.8 34.6	49.29 49.29 67.2 20.7	72.92 72.92 48.0 14.0				
ROA ROE EV/EBITDA Net debt/equity Price/book	% x % x	6.6 6.6 30.6 39.6 4.7	8.1 12.9 17.5 42.8 4.2	11.2 18.4 9.5 81.1 3.5	12.0 22.3 7.0 84.4 2.8				

PUNJ IN rel SENSEX performance, & rec history



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

Analyst

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Stellar growth ahead

Event

We initiate coverage on Punj Lloyd (PL) with an Outperform rating and 12-month target price of Rs1,315. Our target price is derived from the average of mid-sized peer EV/EBITDA multiple of 10.5x on FY09E. PL is on the cusp of explosive growth driven by strong order inflows and a huge expansion in capability set.

Impact

- Graduating to the big league. PL is consolidating its position as the second largest E&C player in India. The widening gap in revenues with respect to other mid-sized players is only a small part of the story. More importantly, it is increasing the capability gap. The Rs13bn offshore platform contract from ONGC is a case in point where it broke L&T's virtual monopoly in the sector.
- Fastest growth driven by huge order inflows. PL has fully exploited the capex upsurge in the core areas of competence pipeline and petrochemical projects in overseas markets and the uptick in domestic infrastructure spend. Book-to-bill ratio of 3.7x as at end 3QFY07, driven by order intake of Rs125bn over FY06-07 is expected to translate into 61% revenue CAGR over FY06-09E.
- Profits expected to double in two years. Decline in depreciation and interest costs as the proportion of revenues should drive an expansion in net margins, driving 94% CAGR in profits over FY06–09E. Increasing asset utilization efficiency should drive an improvement in profitability ratios.
- Acquisition triggers new growth avenues. Recently acquired SembCorp E&C has significant EPC experience in a large number of high growth sectors like upstream oil & gas, SEZs and airports where PL did not have a presence. This should result in significant expansion in the addressable market for PL.
- Geographic diversification reduces risk. PL has the most diversified order book when compared to domestic E&C peers. Overseas projects account for more than one-third of its order book. This makes the order book resilient to vagaries of the capex cycle in a particular geography.

Price catalyst

- 12-month price target: Rs1,315.00 based on a EV/EBITDA methodology.
- Catalyst: Strong revenue growth driven by recent wins and continued order inflows from new sectors

Action and recommendation

The stock trades at PER of 20.7x on FY08E earnings – a significant discount to L&T trading at an adjusted PER of 28.7x and a slight premium to mid-sized peers at 18.4x. We expect significant acceleration in growth as revenues from recent big ticket wins kick in. We recommend Outperform with a price target of Rs1,315, offering 29% upside from current levels.

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

Company profile

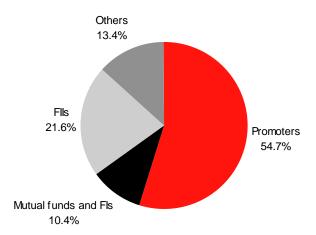
Punj Lloyd (PL) is a Delhi-based engineering construction company. Its main lines of business are offshore and onsite pipelines, oil & gas terminals, process facilities for the oil & gas industry and civil infrastructure construction. The company executes projects mainly in the Middle East, the Caspian Sea, South-East Asia and South Asia. It is gradually increasing its geographic presence and has recently won large orders in Africa.

It was incorporated in 1988 as Punj Lloyd Engineering Private Ltd. It was formed through the transfer of Punj Sons Pvt Ltd's engineering and general construction division, a part of the Punj group of companies, which has been operational since 1954. The name was subsequently changed to Punj Lloyd and the company first went public in 1992. The company was subsequently delisted and again went public in December 2005. Atul Punj is the current chairman & managing director. The promoter group holds a 54.67% stake in the company.

The company is focussed on the energy industry, undertaking projects for Indian and international energy majors across diverse geographies. It has significant expertise in pipeline construction; this segment contributed around half of FY06 consolidated revenues and 37% of the current order book.

To augment its engineering & project management skills and transform itself into a complete EPC player, the company recently acquired Singapore based SembCorp and its UK based subsidiary Simon Carves. SembCorp has significant E&C capabilities ranging from master planning to detailed engineering design to project & construction management across a wide variety of segments including speciality buildings, industrial parks, airports, jetties, mass rapid transport systems and tunnelling. Simon-Carves has significant EPC capabilities in petrochemical and refinery plants.

Fig 1 Shareholding pattern



Source: Company data, Macquarie Research, January 2007

Stellar growth ahead

We initiate coverage on Punj Lloyd (PL) with an Outperform rating and 12-month target price of Rs1,315. Our target price is derived from an EV/EBITDA of 10.5x on FY09E. The target multiple is in line with adjusted EV/EBITDA multiples of mid-sized peers on FY08 and a 12.5% discount to industry leader, L&T.

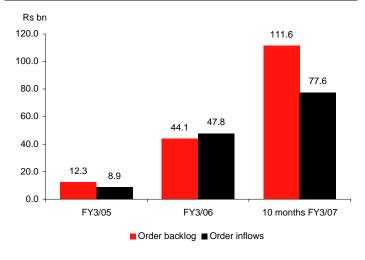
PL is on the cusp of explosive growth, driven by a strong order book position and huge expansion in capability set. The company's growth outlook appears much brighter than those of its peers. We expect PL to enter the big league and pull ahead of mid-sized peers both in size and competencies. Also, lower dependence on domestic order inflows makes the growth momentum more robust. However, we would wait for more evidence of consistent execution at a higher scale before according a valuation premium to account for the superior growth.

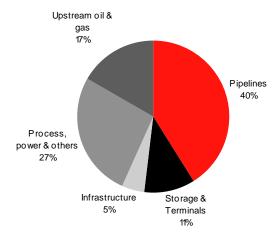
Expect industry leading growth as order inflows are on a roll

Punj Lloyd's order book has swelled over the last seven quarters. Order inflows worth Rs47bn in FY06 and Rs77.6bn in FY07 to date have resulted in a seven-fold increase in order book from Rs12.2bn at the beginning of FY06 to Rs102bn currently. This translates into 4.2x trailing twelve months revenues as at end 3QFY07.

Fig 2 Order inflows and backlog position

Fig 3 Order inflows by sector in FY07





Source: Company data, Macquarie Research, January 2007

Source: Company data, Macquarie Research, January 2007

PL has enjoyed huge order inflows in FY07 on account of:

- Buoyancy in sectors of traditional strength like pipelines and terminals. These sectors have contributed about a half of order inflows during FY07. Expansion into newer geographies like Africa has helped the order intake momentum. During the year, the company has won large pipeline orders worth Rs13.3bn from the Libyan national oil company.
- Entry into new sectors like upstream oil & gas. Helped by SembCorp's significant expertise and prequalification, the company has broken L&T's virtual monopoly in domestic orders in this sector.
- Focus on bidding for large projects. The average size of projects won during FY07 amounts to US\$100m as compared to US\$30m prior to FY07. The company intends to further increase the average size to US\$200m.

The strong order book position and relatively shorter execution cycle of major orders as compared to infrastructure projects should translate into industry leading growth over the next couple of years. **We expect 61% CAGR in revenues over FY06-09E**.

Graduating to the big league

Punj Lloyd intends to become a large global E&C player and has set a target of becoming one of top five global EPC companies in the next five years. The target might be too steep to be realistic but it does underline PL's strategic intent. Together with SembCorp, Punj Lloyd has the widest range of EPC capabilities across sectors among Indian peers. It is increasing the capability gap vis-à-vis midcap peers and fast catching up with industry leader, L&T.

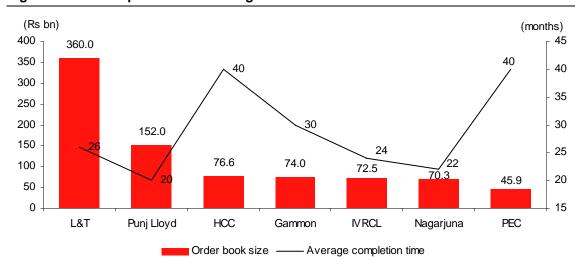
Fig 4 Order book and capability comparision of Indian E&C companies

					Cap	abilities				
	Upstream	Process	Pipelines &		-		Thermal		Int	ternational
Company	oil & gas	plants	terminals	SEZs	MRTS	Airports	power	Hydropower	Civil	orders
Punj Lloyd	Х	х	х	Х	Х	Х	Х		Х	х
L&T	X	x	Х	Х	X	Х	х	X	X	Х
HCC			Х		X		х	Х	Х	
Gammon			Х				х	X	X	X
PEC								Х	Х	
IVRCL									X	
Nagarjuna									Х	X
Source: Macquarie F	Research, Janua	ry 2007								

The recent US\$290m EPC contract from ONGC for an offshore platform is an example of PL's growing stature as a complete E&C player. Prior to this win, L&T had a virtual monopoly on ONGC's offshore platform contracts – it was the only domestic player present in this segment. With this win, the company has broken into a large, high-margin segment with few domestic competitors.

Though FY06 revenues for PL are comparable to that of mid-sized peers, it enjoys a much larger order book position. Also the execution cycle is much shorter as projects in the company's main area of operation – pipelines, tankages and process plants – have a completion time of 15-24 months as compared to 24-30 months for infrastructure projects. This should result in the company pulling way ahead of mid-cap peers over the next couple of years with the revenue gap in line with capability difference.

Fig 5 Order book position and average execution time



Punj Lloyd order book is inclusive of its 100% owned sub Sembawang E&C. HCC's order book excludes the Rs19bn Sawalkote hydropower project.

Source: Company data, Macquarie Research, January 2007

Geographical diversification reduces leverage to domestic capex cycle

Punj Lloyd has the widest geographical footprint amongst Indian E&C companies. Overseas contracts make a significant contribution to PL's revenues and order inflows. International projects accounted for:

- ~40% of revenues during last two fiscal years FY05 and FY06
- 41% to order inflows in FY07
- 37% of the current order book

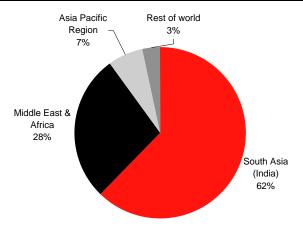
This is by far the largest exposure to overseas markets for an Indian E&C player and is almost double that of next most diversified player, L&T where international projects account for ~20% of the revenues and order inflows.

It has built significant local presence in the oil producing regions of Middle East, Caspian Sea and South East Asia. Recent large order wins in Libya would consolidate its position in Africa. Acquisition of SembCorp E&C would further strengthen its local presence in Southeast Asia and increase PL's coverage to new geographies like China, Iran and the UK.

Fig 6 Geographical break-up of revenues

% 100% 10 90% 19 33 80% 22 70% 10 60% 17 50% 40% 63 20% 10% 0% FY05 FY06 H1FY07 ■ South Asia (India) ■ Middle East ■ Asia Pacific Region ■ Caspian Region

Fig 7 Current order book composition by region



Source: Company data, Macquarie Research, January 2007

Source: Company data, Macquarie Research, January 2007

Wider geographical coverage not only expands the exploitable opportunity set but also decreases the leverage to domestic investment cycle. Any delay in fresh project awards by domestic agencies can be compensated by international order inflows, thereby reducing volatility in order intake. Also, a wider choice of projects allows more headroom in bidding for projects with better profitability.

Order inflow momentum to sustain as addressable market increases

To augment its engineering & project management skills and transform itself into a complete EPC player, PL acquired Singapore based SembCorp E&C (since renamed Sembawang E&C) and its UK based subsidiary Simon Carves for a consideration of Rs1173m.

Sembawang E&C together with its subsidiaries have significant capabilities ranging from master planning to detailed engineering design to project & construction management across a wide variety of segments including:

- Upstream oil & gas
- Petrochemical and refinery process plants
- Speciality buildings, industrial parks and SEZs
- Airports, jetties and seaports
- Mass rapid transport systems

Before this acquisition, PL's main competency lay in pipelines & storage construction for oil & gas sector and civil and infrastructure sectors. This acquisition significantly broadens the spectrum of capabilities for the company. Order inflows over the last two years have been driven by the traditional strongholds of the company. We expect the newer sectors to drive order flow momentum over the medium term. The recent large ONGC contract is a case in point. These sectors are expected to commit fresh investments of Rs2,340bn over the next three years in the domestic market.

Fig 8 New domestic opportunities addressable over next three years

Sector	Investments (Rs bn)	% addressable	Order flows (Rs bn)
ONGC capex	400	40	160
Reliance petrochemical and E&P	200	40	80
Others	250	40	100
Ports	400	50	200
Airports	90	50	45
Urban Infrastructure	750	60	450
SEZs and speciality buildings	250	80	200
Total	2340	360	1235
Source: Macquarie Research, January 2007			

PL can exploit the newly acquired capabilities in the overseas markets as well. For example, Simon-Carves has been selected as the EPC contractor for GBP154m ethanol plant in the UK. Simon-Carves can now farm out a part of construction to PL rather than outsourcing the entire job as was the case earlier.

Enhanced capabilities would also help **Dayim Punj Lloyd Engineering** – the 49% owned JV with Prince Khalid Bin Bandar Bin Sultan of Saudi Arabia – corner a bigger chunk of the US\$33bn investment proposed for the King Abdullah City near Jeddah. Sembawang's skills in speciality buildings, sewerage systems and MRTs would be especially useful. In addition to this mega project, the prince would help the JV identify opportunities in the oil & gas, petrochemical and urban infrastructure sectors as well.

Focus on large projects increases scalability

The company has increased focus on increasing the average ticket size of individual orders. The company had an average ticket size of US\$30m prior to the current fiscal year. FY07 orders have an average ticket size of US\$100m. Large orders have accounted for 87% of the total inflows in FY07. The company intends to increase the average contract size to US\$200m. Increase in size of individual projects reduces scalability issues as management resources required per dollar of revenue decreases.

Fig 9 Pre-dominance of large ticket orders in FY07 inflows

Project	Cost (Rs bn)	Location	Agency	Award date
Heera Redevelopment project	13.0	Mumbai	ONGC	Jan-07
Hydrocracker unit	8.6	Haldia	IOCL	Nov-06
500 MW Chabbra Thermal power plant	8.2	Rajasthan	State PSU	Aug-06
Doha urban pipeline relocation project	8.0	Doha, Qatar	Qatar Petroleum	Nov-06
Tripoli to Melita gas pipeline	6.9	Tripoli, Libya	Sirte Oil Co	Aug-06
El Khoms Tripoli gas pipeline	6.5	Tripoli, Libya	Sirte Oil Co	Aug-06
Pipeline & electrical lines	3.6	Kazakhstan	Agip KCO Kazakhstan	Jun-06
Naphtha cracker storage facilities	3.5	Panipat	IOCL	Sep-06
Offsites and utilities for Yemen LNG	3.2	Yemen	Yemgas	Aug-06
Lalsot to Kota Road in Rajasthan	3.0	Rajasthan	RIDCOR	Jun-06
Hydrogen generation unit	3.0	Haldia	IOCL	Nov-06
Total large projects	67.5		as % of total inflows	87.0
Source: Company data, Macquarie Rese	arch, January 20	07		

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Financials

We estimate revenue CAGR of 61% over FY06-09

PL has witnessed huge order inflows of Rs125bn over the last seven quarters, driven by an uptick in oil & gas investments both in the domestic and global markets. The company has a strong order book position of Rs102bn which translates into 4.2x trailing twelve months revenues as at end 3QFY07.

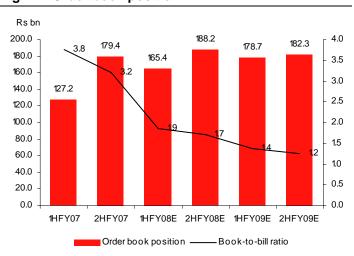
We have assumed an order inflow of Rs116bn over FY08-09 in our model. There exist upsides to our inflow assumptions as we expect the order intake momentum to remain strong over FY08-09 driven by:

- Continued upturn in the domestic capex cycle
- · Strong outlook for oil & gas investments in Middle East and Africa
- Expansion of addressable market for PL as skill sets increase

Fig 10 Order intake over FY07-09E

Rs bn 50.0 45.0 40.0 35.0 3.7 30.0 12.0 12.0 8.0 6.8 25.0 24.6 5.0 20.0 5.0 10.0 4.0 15.0 4.0 10.0 8.0 12.0 5.0 0.0 1HFY07 2HFY07 1HFY09E 1HFY08E 2HFY08E ■ Pipelines ■ Storage & Terminals ■ Infrastructure ■ Process & others

Fig 11 Order book position

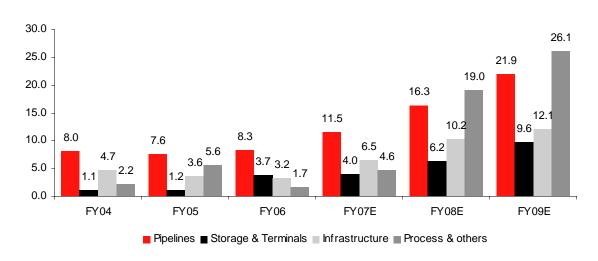


Source: Company data, Macquarie Research, January 2007

Source: Company data, Macquarie Research, January 2007

Driven by strong current order book position, continued robustness in order inflows and shorter execution cycle of 15-20 months in the largest segment of pipeline and oil & gas sector, we expect revenue CAGR (excluding Sembawang E&C revenues) of 61% over FY06-09E.

Fig 12 Revenues by segment



Source: Company data, Macquarie Research, January 2007

EBITDA growth to track revenue growth

We estimate EBITDA margins (excluding Sembawang E&C) to remain stable at FY06 levels. With order inflows driven by pipeline and process plant projects and PL's continued focus on these sectors, we expect revenues from the relatively low margin infrastructure and civil projects to remain below 20% over FY07E-09E. Increasing complexity and ticket size of projects in the core segments are likely to drive an increase in margins. However, expansion into new geographies and segments could potentially put pressure on margins. Hence, we estimate margins to stay stable in the forecast period. Consequently, EBITDA CAGR during FY06-09E at 59.8% should track revenue growth over the period.

Fig 13 Revenue mix

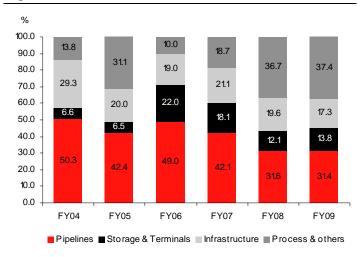
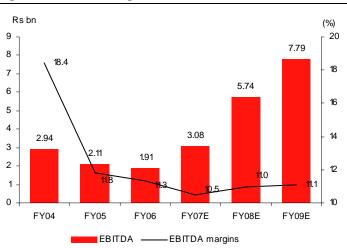


Fig 14 EBITDA margins



Source: Company data, Macquarie Research, January 2007

Source: Company data, Macquarie Research, January 2007

Sembawang E&C profit contribution a while away

PL acquired Sembawang E&C (SEC) in June 2006 for expanding its competency set rather than adding to the bottom line. SEC has a large revenue base but very low profitability as it farms out actual construction contracts and only does the engineering and construction management in-house. Profitability was also hit by the fact that the company was in sell-off mode for a couple of years prior to the acquisition. CY05 revenues at Rs32.2bn were much higher than that of PL but the company had virtually no profits.

We expect margins to improve going forward as the PL streamline operations, progressively shifts engineering and design functions from high cost geographies like Singapore and the UK and bids for projects with better margins. However, this would take a while as the major proportion of revenues in the next couple of years would be driven by the existing Rs41bn low-margin order book. In addition, changes in order intake profile would take some time. This would also have an impact on revenue growth as well with the company potentially eschewing some low-margin projects.

Fig 15 Sembawang E&C revenues and EBITDA

	FY07E (10 months)	FY08E	FY09E
Revenues (Rs m)	20672	20963	19552
Revenue growth (%)		1.4	-6.7
EBITDA	250	374	568
EBITDA margins (%)	1.2	1.8	2.9
Source: Macquarie Research, January 2007			

Net profit growth should lead revenue growth

Net margins (excluding Sembawang E&C) should expand by 210 bp over FY06-09E as interest and depreciation costs decline as proportion of revenues. Depreciation costs as proportion of revenues have been high in the past on account of low asset utilization. We expect this proportion to come down as asset efficiency increases going forward. Repayment of high interest rate bearing debt after recent capital raising would bring down interest costs. Consequently, we estimate net profits CAGR of 94% over FY06-09E driven by 210 bp expansion in net margins.

Fig 16 Consolidated profit & loss account

(Rs m)	FY05	FY06	FY07E	FY08E	FY09E
Revenues Contract revenues ex SEC Other operational revenues	17,900 17,035 584	16,846 15,982 564	50,001 28,714 200	73,257 51,694 200	89,816 69,665 200
Internet Services Sembawang	281	301	415 20,672	399 20,963	399 19,552
Expenses	15,788	14,937	46,668	67,139	81,455
EBITDA EBITDA excl SEC Sembawang EBITDA	2,112 2,112	1,909 1,909	3,333 3,083 250	6,118 5,744 374	8,361 7,793 568
Depreciation & amortization EBIT Other Income Interest	887 1,225 374 1,333	604 1,306 303 794	1,063 2,270 719 960	1,489 4,629 400 1,347	1,729 6,632 400 1,587
PBT Tax	265 194	814 291	2,029 493	3,682 1,105	5,445 1,634
PAT Share of associates profits Minority profits Net profit	71 3 -2 76	523 8 -7 538	1,536 0 -3 1,539	2,578 0 4 2,574	3,812 0 4 3,808
Interest on debt Other extraordinary and non-recurring Reported profit EPS (Rs)	66 864 1,006 3.0	15 2 555 10.3	15 0 1,554 29.5	0 0 2,574 49.3	0 0 3,808 72.9
Margins (%) Overall EBITDA margins (%) EBITDA excl SEC SEC EBITDA PBT margin PAT margin Tax rate	11.8 11.8 1.5 0.4 73.1	11.3 11.3 4.8 3.2 35.8	6.7 10.5 1.2 4.1 3.1 24.3	8.4 11.0 1.8 5.0 3.5 30.0	9.3 11.1 2.9 6.1 4.2 30.0
Growth (%) Revenues PL Revenues Overall EBITDA PL EBITDA SEC EBITDA PAT Source: Company data, Macquarie Resear	12.3 -28.1 -28.1 -92.8	-5.9 -5.9 -9.6 -9.6	196.8 74.1 74.6 61.5	46.5 78.3 83.6 86.3 49.5 67.2	22.6 34.4 36.7 35.7 51.7 48.0
Course. Company data, Macquaire Nescar	511, Juliuary 2007				

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Return ratios should improve as asset efficiency increases

Low asset utilization rates have had a dampening effect on the return ratios in the past. Slower order inflows in the past couple of years resulted in lower order book size as compared to the asset base created by the company. This impacted the turnover and return ratios. Strong order inflows over FY06-07 have corrected that situation and should drive efficiency in asset utilization.

Fig 17 Consolidated balance sheet

(Rs m)	FY05	FY06	FY07E	FY08E	FY09E
Sources of funds					
Shareholders' funds	5,102	11,215	12,710	15,224	18,972
Share Capital	252	522	522	522	522
Reserves & Surplus	4,850	10,693	12,188	14,702	18,450
Share premium account	2,539	7,977	7,977	7,977	7,977
Other reserves	2,310	2,716	4,210	6,725	10,473
Minority Interest	17	9	9	9	9
Total loan Funds	7,187	5,550	12,112	19,112	22,612
FCCB			5,563	5,563	5,563
Deferred tax liability	618	607	607	607	607
Total funds employed	12,924	17,381	25,438	34,952	42,200
Application of funds					
Gross block	7,413	9,070	14,570	17,070	19,570
Less: Depreciation	2,762	3,280	4,343	5,831	7,560
Net Block	4,651	5,790	10,227	11,238	12,010
Capital - Work In Progress	481	1,230	1,230	1,230	1,230
Net Fixed Assets	5,133	7,020	11,457	12,469	13,240
Preoperative Expenditure	98	156	156	156	156
Investments	259	416	1,916	1,916	1,916
Current Assets	11,288	15,464	19,775	34,574	45,974
Inventory	5,510	8,043	9,833	17,704	23,858
Debtors	3,364	4,024	5,900	9,914	13,360
Cash & bank balances	432	1,106	1,110	1,191	1,022
Other Current Assets	54	111	100	100	100
Loans & Advances	1,928	2,179	2,832	5,665	7,635
Current liabilities & provisions	3,855	5,676	7,867	14,163	19,086
Net Current Assets	7,433	9,788	11,908	20,411	26,888
Total funds applied	12,924	17,381	25,438	34,952	42,200
Balance sheet ratios					
Debt:Equity	1.4	0.5	1.0	1.3	1.2
Fixed Asset Turnover	3.8	2.9	2.8	4.6	5.8
Operating Cycle (days)	142.8	188.1	137.3	135.7	135.5
Inventory days	112.4	174.3	125.0	125.0	125.0
Debtor days	68.6	87.2	75.0	70.0	70.0
Loans & advance days	39.3	47.2	36.0	40.0	40.0
Current liabilities days	78.6	123.0	100.0	100.0	100.0
Return ratios					
EBIT/asset employed	8.5	6.9	8.8	12.5	13.7
ROE	2.2	6.6	12.9	18.4	22.3
Source: Company data, Macquarie Re	esearch, January 2	2007			

Valuations

We have arrived at our 12-month price target of Rs1315 based on an EV/EBITDA multiple of 10.5x on FY09E EBITDA. The target multiple is in line with adjusted EV/EBITDA multiples of mid-sized peers on FY08 and a 12.5% discount to industry leader, L&T.

Fig 18 Peer Valuations

					EV / EBIT	TDA (x)	Adj EV /EB	ITDA (x)	PER	(x)	Adj PE	R (x)
Company	Ticker P	rice (Rs)	Rating	Target (Rs)	FY07E	FY08E	FY07E	FY08E	FY07E	FY08E	FY07E	FY08E
Larsen & Toubro	LT IN	1600	UP	1252	32.6	25.3	25.4	19.7	45.5	37.4	34.9	28.7
IVRCL	IVRC IN	427	OP	480	26.5	17.0	13.7	8.8	41.5	25.9	21.9	13.6
Nagarjuna Const	NJCC IN	215	OP	205	17.7	13.1	14.9	11.1	26.3	19.3	22.0	16.1
Hindustan Const	HCC IN	143	UP	111	19.7	15.1	18.4	14.1	44.8	32.7	41.1	30.0
Patel Engineering	PEC IN	464	OP	500	17.3	12.6	12.9	9.3	26.3	19.2	19.2	14.0
Average ex L&T					20.3	14.5	15.0	10.8	34.7	24.2	26.0	18.4
Punj Lloyd	PUNJ IN	1019	OP	1315	19.4	10.6	19.4	10.6	34.2	20.7	34.2	20.7

Prices as on February 1, 2007

UP : Underperform; OP : Outperform

Adjusted EV / EBITDA and PER calculated by stripping out subsidiary, BOT and real estate valuations

Source: Macquarie Research, January 2007

PL is on the cusp of explosive growth driven by strong order book position and huge expansion in capability set. Growth outlook for the company is much brighter as compared to peers. We expect the company to enter the big league and pull ahead of mid-sized peers both in size and competencies. Also, lower dependence on domestic order inflows makes the growth momentum more robust. However, we would wait for more evidence of consistent execution at a higher scale before according a valuation premium to account for superior growth.

Fig 19 Valuation summary

	(Rs m)
FY09E EBITDA	8,361
EV/EBITDA (x)	10.5
EV/EBITDA (x)	87,790
Debt as at end FY08E	19,112
Equity value	68,678
No. of shares (m)	52.2
Price (Rs)	1315
Source: Macquarie Research, January 2007	

At our 12-month target price of Rs1,315, the stock would trade at a PER of 18.0x on FY09E.

Fig 20 PL's valuation metrics at our target price

=				
	FY06	FY07E	FY08E	FY09E
EBITDA (Rs m)	1909	3333	6118	8361
PAT (Rs m)	523	1536	2578	3812
EPS (Rs m)	10.30	29.48	49.29	72.92
EV/EBITDA (x)	46.0	26.3	14.3	10.5
PER (x)	127.7	44.6	26.7	18.0
Source: Macquarie Research, January 2007				

Key risks

Slower-than-expected ramp-up in road projects

PL has a large exposure to NHAI road projects in the states of Assam and Rajasthan with projects won before FY06 in these geographies totalling Rs21.2bn. Implementation was tardy in these projects due to right-of-way issues and as result revenue booking from these projects were low during 1HFY07. The management has indicated that these issues have since been resolved and we expect revenues from these projects to ramp up.

Slower-than-expected ramp up in these projects can impinge on performance over the next couple of quarters. However, the proportion of these orders in the total order book has reduced considerably as the company has won large orders in the oil & gas sector. Hence, leverage of these projects on revenue growth has also reduced. Also, increased emphasis by the planning authorities to complete the awarded projects rather than awarding new projects should help resolve any residual right-of-way issues.

Legacy issues in the balance sheet

Debtors on the balance sheet include an amount of Rs378m due from Spie Capag-Petrofac (SCPIL). PL had executed a pipeline project for SCPIL in Georgia. The company had raised variation orders of Rs1.49bn against SPCIL. SPCIL had raised counterclaims of Rs477m and served a notice to the company for terminating the contract. The company has initiated arbitration proceedings against the notice. The auditors have reserved an opinion on the outcome of the dispute.

The company had executed projects for IOCL on back-to-back subcontract from Petrofac International Limited (PIL). IOCL has withheld payment to PIL, which in turn has withheld payment of Rs297.7m to PL. The company has initiated arbitration proceedings against PIL. The company has taken a credit for interest on the outstanding amount of Rs14.6m in FY06 and Rs65.7m during FY05. The credit of interest is not in accordance with AS-9 on revenue recognition. The auditors have qualified the balance sheet with respect to these matters.

In addition to these qualifications, amounts withheld by customers and disputed by the company aggregating Rs766.3m are also included as part of debtors. As a result of these disputes, amounts totaling Rs1442m out of total debtors of Rs4,024m as per FY06 balance sheet are under arbitration proceedings. Any adverse rulings in these cases could result in write-off charges going forward. However, these charges would not have an impact on future cash flows or recurring profits.

Business segments

PL has four main construction divisions: 1) oil & gas pipelines, 2) Storage tanks & terminals, 3) process plants, and 4) infrastructure and civil works. The company has made an entry into the upstream oil & gas sector with a recent large contract win from ONGC. The company also has a small broadband business.

Pipelines are the largest segment, accounting for around half of FY06 revenues and 37% of 1HFY07 order backlog. Driven by strong order inflows from the road sector during FY05 and FY06, infrastructure & civil works has the second largest share in the order book at 30%. With right-of-way issue resolved for projects in the segment, we expect a pick-up in segment revenues from 2HFY07 onwards.

To augment its engineering & project management skills and transform itself into a complete EPC player, the company acquired Singapore based SembCorp E&C (since renamed Sembawang E&C) and its UK based subsidiary Simon Carves in June 2006.

Sembawang E&C has significant capabilities ranging from master planning to detailed engineering design to project & construction management across a wide variety of segments including speciality buildings, industrial parks, airports, jetties, mass rapid transport systems and tunnelling. Simon-Carves has significant EPC capabilities in petrochemical and refinery plants. This acquisition would result in significant expansion in addressable market for the company and help maintain the strong order intake momentum.

Pipelines - Best-in-class capabilities

PL has extensive execution experience in pipeline construction, having laid around 7,730km of cross-country pipelines in various regions across the world. It has capabilities to execute EPC projects in difficult terrains and adverse climatic conditions. It is one of the few companies anywhere in the world with expertise in laying large-diameter gas pipelines and operational experience in shallow water and swampy terrain.

Given the capital intensity of the business, the company has increased focus on larger length and larger diameter pipelines. Margins in this segment are significantly higher on account of the lower competition and the company's extensive experience in executing such projects.

Fia 21	Major pipeline	orders intake	in FY07 -	· focusina on	larger r	roiects

Project Name	Cost	Location	Agency
Doha urban pipeline relocation project	8037	Doha, Qatar	Qatar Petroleum
Tripoli to Melita gas pipeline	6854	Tripoli, Libya	Sirte Oil Co
El Khoms Tripoli gas pipeline	6486	Tripoli, Libya	Sirte Oil Co
Pipeline from onshore facility	3573	Kazakhstan	Agip KCO - Agip Kazakhstan
Offsites and utilities for Yemen LNG project	3218	Yemen	Yemen LNG Co Ltd
Dabhol-Panvel pipeline	1642	Maharashtra	GAIL
Dahej Uran pipeline project	1383	Gujarat	GAIL

Pipelines are the largest segment, contributing around half of FY06 revenues. We expect pipelines to remain the most important segment for the company accounting for around two-fifths of revenues over the next couple of years. The segment contributed 41% to FY07 order inflows and 37% to 1HFY07 order backlog.

Fig 22 Pipeline revenues

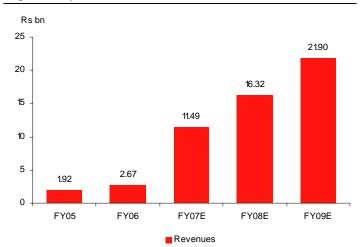
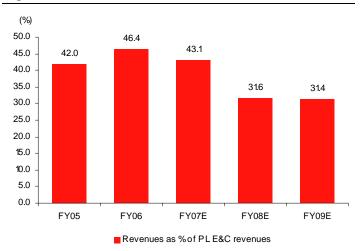


Fig 23 Contribution to P&L overall E&C revenues



Source: Company data, Macquarie Research, January 2007

Source: Company data, Macquarie Research, January 2007

Storage tanks & terminals

In addition to best-in-class capabilities in pipeline laying, the company significant expertise in construction of storage & terminals. This enables it to offer a complete oil & gas transportation solution to clients. PL has constructed tankage and terminals with cumulative storage capacity of 6m cubic metres. The company has expertise to execute EPC contracts for various types of tanks and terminals used in the hydrocarbon sector, including cryogenic tanks for LNG and floating-roof storage tanks. The segment contributed to 22% to FY06. We expect this proportion to go down progressively as revenues from other segments grow faster. However, the segment would remain a key component of PL's capability in oil & gas sector.

Fig 24 Storage tank & terminals won during FY07

Project Name	Cost (Rs m)	Location	Agency		
Naphtha cracker project storage facilities	3497	Panipat	IOCL		
Dabhol LNG Terminal in JV with Whessoe UK	2093	Maharashtra	Ratnagiri Gas & Power		
Bulk Liquid storage terminal	1638	Singapore	Horizon Terminal Ltd, UAE		
Bulk Liquid storage	1170	Singapore	Helios Terminal Corporation		
Source: Company data, Macquarie Research, January 2007					

Process and power plants – thermal capacity addition plans augur well

EPC and turnkey execution capabilities in construction of process plants complete PL's expertise in oil & gas sector. The company has experience in executing contracts in a wide variety of application including gas compressor & process facilities, specialized process facilities for refineries like sulphur recovery, crude distillation, hydrocrackers and vacuum distillation units. The company can undertake the entire gamut of activities like fabrication of steel structures, erection of heavy equipment, piping, instrumentation, insulation and fireproofing services and civil works required for construction of process plants.

The company also has significant capabilities in thermal power plant construction. In this segment, it undertakes balance-of-work type of contracts where it can execute the entire construction contract except boilers and turbines. Contracts for new thermal power capacity totalling 40,000 MW are expected to be awarded over the next three years. Consequently, we expect robust order inflows from this segment.

The company has won large ticket size projects from this segment in FY07. The Rajasthan thermal power plant contract would help build pre-qualifications for much larger projects on the anvil.

Fig 25 Big ticket process and power plant contract wins in FY07

Project Name	Cost (Rs m)	Location	Agency		
Hydrocracker unit (1.7 mmtpa)	8640	Haldia	IOCL		
Hydrogen generation unit (70,000 tpa)	2990	Haldia	IOCL		
2X250 MW Chabbra thermal plant	8230	Rajasthan	Vidyut Utpadan Nigam Ltd		
Source: Company data, Macquarie Research, January 2007					

Infrastructure - revenues should pick up as implementation ramps up

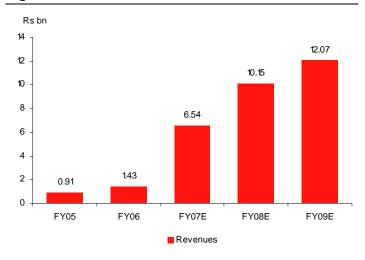
Infrastructure projects had the second largest share of the end-1HFY07 order book contributing 30% of the total order backlog. Highway projects in the state of Assam and Rajasthan accounted for bulk of the infrastructure order book. In addition to rich execution experience in NHAI road projects, it has also executed projects for the Delhi metro system. Sembawang's wide range of expertise in infrastructure and speciality building projects should help expand PL's span of activities in this sector.

Fig 26 Major ongoing infrastructure projects

Project Name	Cost (Rs m)	Location	Agency
Assam road projects			
Guwahati-Nalbari NH-31 (AS-4)	1950	Assam	NHAI
Guwahati-Nalbari NH-31 (AS-5)	1750	Assam	NHAI
Nalbari-Bijni NH-31 (AS-8)	1420	Assam	NHAI
Nalbari-Bijni NH-31 (AS-9)	2000	Assam	NHAI
Lanka-Daboka NH-54 (AS-16)	2150	Assam	NHAI
Rajasthan road projects			
Kota-Chittorgarh (RJ-8) NH-76	4464	Rajasthan	NHAI
Hanumangarh to Ratangarh	2711	Rajasthan	RIDCOR
Ratangarh to Kishangarh	2275	Rajasthan	RIDCOR
Baran to Jhalawar	950	Rajasthan	RIDCOR
Lalsot to Kota Road in Rajasthan (LJ-1)	3020	Rajasthan	RIDCOR
Building structure for Medicity	860	Delhi	Global Health Pvt Ltd
Elevated via-duct in JV with Persys	710	Delhi	DMRC
Source: Company data, Macquarie Research, January	2007		

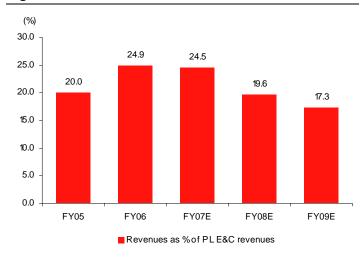
Revenues from the sector were sluggish during 1HFY07 due to right-of-way issues in the Assam and Rajasthan highway projects. The management has indicated that these issues have been resolved and implementation should ramp-up in quarters ahead. We expect the company to concentrate on implementation in this sector and hence, order inflows are likely to remain sedate over the next three-four quarters before picking up. As a result, contribution of infrastructure revenues to total revenues is expected to decline over the next couple of years.

Fig 27 Infrastructure revenues



Source: Company data, Macquarie Research, January 2007

Fig 28 Contribution to P&L overall E&C revenue



Source: Company data, Macquarie Research, January 2007

Broadband services

The company has a small broadband division and owns around 15,000 km of optical fibre network near the National Capital Region. The division provides internet bandwidth, data centre and managed network solutions to both corporate and household sectors. The division is not performing well – it made losses of Rs74m on revenues of Rs310m in FY06. Performance has improved in FY07 – revenues have grown 39% YoY to Rs216m and losses have reduced to Rs29m during the 1HFY07. The company is exploring opportunities to hive-off this business.

Revenue	Revenue m 14,333 15,771 18,618 18,621 Gross Profit m 3,647 4,034 4,374 4,389 Gross Profit m 5,679 12,813 1 Cost of Goods Sold m 10,686 11,736 14,244 14,232 Cost of Goods Sold m 10,687 37,188 5 EBITDA m 831 1,203 1,528 1,528 EBITDA m 831 1,203 1,528 1,528 EBITDA m 1,090 3,333 Gross Goodwill m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,257 89,816 7,593 20,076 6,664 69,740 6,118 8,361 1,489 1,729 0 0 0 0 4,629 6,632 1,347 -1,587 0 0 0 400 400 3,682 5,445 1,105 -1,634 2,574 3,808 2,574 3,808 49.29 72.92 67.2 48.0 20.7 14.0 20.7 14.0 0.00 0.00 0.00 0.00 0.52 52 52 52 008E 2009E	73,257 17,593 55,664 6,118 1,489 0 4,629 -1,347 0 0 400 3,682 -1,105 2,578 2,574 2,574 49.29 49.29 49.29 67.2 20.7 20.7	50,001 12,813 37,188 3,333 1,063 0 0 2,270 -960 0 0 719 2,029 -493 1,536 4 1,554 1,539	5 50 129 129 129 129 129 129 129 129 129 129	16,846 5,979 10,867 1,909 604 0 0 1,306 -794 0 0 303 814 -291 523 15	m m m m m m m m m m m m m m m m m m m	Revenue Gross Profit Cost of Goods Sold EBITDA Depreciation Amortisation of Goodwill Other Amortisation EBIT Net Interest Income Associates Exceptionals Forex Gains / Losses Other Pre-Tax Income Pre-Tax Profit Tax Expense	18,621 4,389 14,232 1,528 365 0 0 1,164 -329 0 0	18,618 4,374 14,244 1,528 350 0 0 1,178 -314	15,771 4,034 11,736 1,203 330 0 0	14,333 3,647 10,686 831 296	m m m m	Revenue Gross Profit Cost of Goods Sold
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Card of Cooks Sold m 10,686 a 11,736 1 12,44 14,232 EBITDA m 291 1,236 11,528 1,528	Cost of Goods Sold	5,664 69,740 5,118 8,361 1,489 1,729 0 0 0 4,629 6,632 1,347 -1,587 0 0 0 0 0 400 400 400 400 3,682 5,445 1,105 -1,634 2,574 3,808 49.29 72.92 48.0 20.7 14.0 20.7 14.0 0.00 0.00 0.0 0.00 52 52 52 52 008E 2009E	55,664 6,118 1,489 0 0 4,629 -1,347 0 0 400 3,682 -1,105 2,578 -4 2,574 49.29 49.29 49.29 67.2 20.7 20.7	37,188 3,333 1,063 0 0 2,270 -960 0 719 2,029 -493 1,536 4 1,554 1,539	7 37 9 34 4 10 00 00 00 00 00 00 00 00 00 00 00 00 0	10,867 1,909 604 0 0 0 1,306 -794 0 0 0 303 814 -291 523 15	m m m m m m m m m m	Cost of Goods Sold EBITDA Depreciation Amortisation of Goodwill Other Amortisation EBIT Net Interest Income Associates Exceptionals Forex Gains / Losses Other Pre-Tax Income Pre-Tax Profit Tax Expense	14,232 1,528 365 0 0 1,164 -329 0 0	14,244 1,528 350 0 0 1,178 -314	11,736 1,203 330 0 0	10,686 831 296 0	m m m	Cost of Goods Sold
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Pre-Tax Profit m 554 673 964 934 Pre-Tax Profit m 814 2,029 3,682 5,445 Tax Expense m 480 202 2-89 -280 Tax Expense m 250 1-453 -1.05 -1.034 Net Profit m 627 1-453 -1.05 -1.034 Net Profit m 752 1-453 Net Profit m 752	Pre-Tax Profit	3,682 5,445 1,105 -1,634 2,578 3,812 -4 -4 2,574 3,808 49.29 72.92 67.2 48.0 20.7 14.0 0.00 0.00 0.00 0.00 0.00 52 52 52 52 52 52 52 52 52 52 52 52 52	3,682 -1,105 2,578 -4 2,574 2,574 49.29 49.29 67.2 20.7 20.7	2,029 -493 1,536 4 1,554 1,539 29.76 29.48 58.8	4 2 1 3 1 5 1 5 1	814 -291 523 15	m m m m	Pre-Tax Profit Tax Expense						
Tax Expense m 40 -202 -289 -280 Tax Expense m -291 -493 -1,105 -1,634 Minority interests m 6 -1 -1 -1 -1 -1 Minority interests m 5 -1,105 -1,634 Minority interests m 5 -1,105 -1,634 Minority interests m 5 -1,105	Tax Expense m -80 -202 -289 -280 Tax Expense m -291 -493 -Net Profit m -291 -493 -180 -180 Net Profit m -291 -493 -180 -180 Net Profit m -291 -493 -4 -180 Net Profit m -523 1,536 Adjusted Earnings m -555 1,554 Adjusted Earnings m -558 1,558 29.76 EPS (rep) 17.34 29.76 29.76 EPS (rep) 17.34 29.76 29.76 EPS (rep) 17.34 29.76 29.76 29.76 <	1,105 -1,634 -1,	-1,105 2,578 -4 2,574 2,574 49.29 67.2 20.7 20.7 0.00	-493 1,536 4 1,554 1,539 29.76 29.48 58.8	1 3 1 5 1 3 1	-291 523 15 555	m m m	Tax Expense						
Net Profit m 474 471 675 654 Net Profit m 523 1,536 2,578 3,312 Minorly Interests m 6 1 - 1 - 1 Reported Earnings m 433 474 674 653 Reported Earnings m 555 1,554 2,574 3,808 Adjusted Earnings m 479 674 674 653 Reported Earnings m 555 1,554 2,574 3,808 Adjusted Earnings m 555 1,554	Net Profit	2,578 3,812 -4 2,574 3,808 2,574 3,808 49.29 72.92 67.2 48.0 20.7 14.0 0.00 0.00 0.00 0.00 52 52 52 52 52 52 52 52 52 52 52 52 52	2,578 -4 2,574 2,574 49.29 49.29 67.2 20.7 20.7	1,536 4 1,554 1,539 29.76 29.48 58.8	3 1 5 1 3 1	523 15 555	m m							
Minority Interests m 6	Minority Interests m 6	-4 -4 3,808 2,574 3,808 49.29 72.92 48.0 20.7 14.0 20.7 14.0 0.00 0.0 0.0 52 52 52 52 0008E 2009E	-4 2,574 2,574 49.29 49.29 67.2 20.7 20.7	1,554 1,539 29.76 29.48 58.8	5 1 5 1	15 555	m	INELFICIL						
Adjusted Earnings m 479 470 674 653 Adjusted Earnings m 538 1,539 2,574 3,808 EPS (pp) 0 25 0.08 12.50	Adjusted Earnings m 479 470 674 653 Adjusted Earnings m 538 1,539	2,574 3,808 49.29 72.92 49.29 72.92 67.2 48.0 20.7 14.0 20.7 14.0 0.00 0.00 0.0 0.0 52 52 52 52 008E 2009E	2,574 49.29 49.29 67.2 20.7 20.7	1,539 29.76 29.48 58.8	3 1			Minority Interests						
EPS (aij) 9,18 9.01 12.90 12.51 EPS (aij) 18,66 29.48 49.29 72.29 EPS (rowth yoy (ad)) % 72.2 249.9 159.4 97.9 EPS (arowth ada) % 513.7 6.88 67.2 249.9 EPS (arowth ada) % 513.7 6.88 67.2 249.0 EPS (arowth ada) % 513.7 6.88 67.2 25.2 52.2 52.2 52.2 52.2 52.2 52.2 5	EPS (adj)	49.29 72.92 67.2 48.0 20.7 14.0 20.7 14.0 0.00 0.00 0.0 52 52 52 52 52 008E 2009E	49.29 67.2 20.7 20.7	29.48 58.8	1 1	538								
EPS (aij) 9,18 9.01 12.90 12.51 EPS (aij) 18,66 29.48 49.29 72.29 EPS (rowth yoy (ad)) % 72.2 249.9 159.4 97.9 EPS (arowth ada) % 513.7 6.88 67.2 249.9 EPS (arowth ada) % 513.7 6.88 67.2 249.0 EPS (arowth ada) % 513.7 6.88 67.2 25.2 52.2 52.2 52.2 52.2 52.2 52.2 5	EPS (adj) 9.18 9.01 12.90 12.51 EPS (adj) 18.56 29.48 EPS Growth yoy (adj) % 72.2 249.9 159.4 97.9 EPS Growth (adj) % 513.7 58.8 34.3 34.6 EBITDA Margin % 5.8 7.6 8.2 8.2 Total DPS PE (adj) x 54.9 34.6 EBITDA Margin % 3.7 5.5 6.3 6.2 Total DPS 0.00 0.00 0.00 Earnings Split % 31.1 30.6 26.2 25.4 Weighted Average Shares m 32 52 EBIT Growth % 240.3 274.5 131.2 57.2 Period End Shares m 52 52 EBIT Growth % 63.8 167.4 267.3 114.7 EBIT Growth % -9.6 74.6 83.6 36.7 Tax Paid m -291 -493 -493 EBIT Growth % 66.6 73.9 103.9 43.3 Chgs in Working Cap m -1,681 -2,117 -40 -20 -	49.29 72.92 67.2 48.0 20.7 14.0 20.7 14.0 0.00 0.00 0.0 52 52 52 52 52 008E 2009E	49.29 67.2 20.7 20.7	29.48 58.8		17 34		EPS (ren)	12 51	12 90	9.08	9.25		EPS (ren)
EPS Growth yoy (adj) ***P72.** ***P84.** ***P85.** ***P16.**	EPS Growth yoy (adj) % 72.2 249.9 159.4 97.9 EPS Growth (adj) % 513.7 58.8 EBITDA Margin % 5.8 7.6 8.2 8.2 Total DPS 0.00 0.00 EBIT Margin % 3.7 5.5 6.3 6.2 Total Div Yield % 0.0 0.0 Earnings Split % 31.1 30.6 26.2 25.4 Weighted Average Shares m 32 52 Revenue Growth % 240.3 274.5 131.2 57.2 Period End Shares m 52 52 EBIT Growth % 63.8 167.4 267.3 114.7 Total Div Yield % 0.0 0.0 0.0 Profit and Loss Ratios 2006A 2007E 2008E 209E Cashflow Analysis 2006A 2007E 2 Profit and Loss Ratios 2006A 46.5 22.6 EBITDA m 1,909 3,333 EBIT Growth <td>67.2 48.0 20.7 14.0 20.7 14.0 0.00 0.00 0.0 0.0 52 52 52 52 008E 2009E</td> <td>67.2 20.7 20.7 0.00</td> <td>58.8</td> <td></td>	67.2 48.0 20.7 14.0 20.7 14.0 0.00 0.00 0.0 0.0 52 52 52 52 008E 2009E	67.2 20.7 20.7 0.00	58.8										
PE (rep)	PE (rep)	20.7 14.0 20.7 14.0 0.00 0.00 0.0 0.0 52 52 52 52 008E 2009E	20.7 20.7 0.00				%						0/2	
PF (adj)	EBITDA Margin	20.7 14.0 0.00 0.00 0.0 0.0 52 52 52 52 008E 2009E	20.7 0.00	34.3					31.3	155.4	243.3	12.2	70	Li 3 Glowili yoy (auj)
EBIT Margin	EBIT Margin	0.0 0.0 52 52 52 52 008E 2009E		34.6										
EBIT Margin	EBIT Margin % 3.7 5.5 6.3 6.2 Total Div Yield % 0.0 0.0 Earnings Split % 31.1 30.6 26.2 25.4 Weighted Average Shares m 32 52 Revenue Growth % 240.3 274.5 131.2 57.2 Period End Shares m 52 52 EBIT Growth % 63.8 167.4 267.3 114.7 Profit and Loss Ratios 2006A 2007E 2008E 2009E Cashflow Analysis 2006A 2007E 2008E 2009E EBIT Growth % -5.9 196.8 46.5 22.6 EBIT DA m 1,909 3,333 EBIT DA Growth % -9.6 74.6 83.6 36.7 Tax Paid m -291 -493 -EBIT Growth % 6.6 73.9 103.9 43.3 Chgs in Working Cap m -1,661 -2,117 -67 (50.5 Profit Margin % 35.5 25.6 24.0 22.4 Net Interest Paid m -794 -960 -1 EBIT DA Margin % 11.3 6.7 8.4 9.3 Other m 303 719 EBIT Margin % 7.8 4.5 6.3 7.4 Operating Cashflow m -554 482 -1 Net Profit Margin % 3.1 3.1 3.5 4.2 Acquisitions m -157 -1,500 Payout EAITDA X 30.6 17.5 9.5 7.0 Asset Sales m 0 0 0	0.0 0.0 52 52 52 52 008E 2009E		0.00)	0.00		Total DPS	8.2	8.2	7.6	5.8	%	EBITDA Margin
Earnings Split Revenue Growth \$ 240.3 274.5 131.2 57.2 Period Enrollegs Split Revenue Growth \$ 240.3 274.5 131.2 57.2 Period Enrollegs Split Revenue Growth \$ 260.3 274.5 131.2 57.2 Period Enrollegs Split Revenue Growth \$ 63.8 167.4 267.3 114.7 Period Enrollegs Split Revenue Growth \$ 63.8 167.4 267.3 114.7 Period Enrollegs Split Revenue Growth \$ 5.9 196.8 485 2.20 EBITOA Growth \$ 6.9 196.8 485 36.7 Tax Pad Working Cap In 1.900 3.333 6.118 3.81 1.83 1.83 1.83 1.83 1.83 1.83	Earnings Split % 31.1 30.6 26.2 25.4 Revenue Growth % 240.3 274.5 131.2 57.2 Period End Shares m 52 52 EBIT Growth % 63.8 167.4 267.3 114.7	52 52 008E 2009E		0.0)	0.0	%	Total Div Yield	6.2	6.3	5.5	3.7	%	
Revenue Growth % 240.3 274.5 131.2 577.2 Period End Shares m 52 52 52 52 52 52 52	Revenue Growth EBIT Growth % 240.3 63.8 274.5 167.4 131.2 267.3 57.2 114.7 Period End Shares m 52 52 Profit and Loss Ratios 2006A 2007E 2008E 2009E Cashflow Analysis 2006A 2007E 2 Revenue Growth % -5.9 196.8 46.5 22.6 EBITDA m 1,909 3,333 EBITDA Growth % -9.6 74.6 83.6 36.7 Tax Paid m -291 -493 - Gross Profit Margin % 35.5 25.6 24.0 22.4 Net Interest Paid m -1,681 -2,117 - EBITDA Margin % 35.5 25.6 24.0 22.4 Net Interest Paid m -794 -960 <	52 52 008E 2009E	52	52	2	32		Weighted Average Shares	25.4	26.2	30.6	31.1	%	
Profit and Loss Ratios 2006A 2007E 2008E 2009E Cashflow Analysis 2006A 2007E 2008E 2009E 2009E	Profit and Loss Ratios 2006A 2007E 2008E 2009E Cashflow Analysis 2006A 2007E 2 Revenue Growth % -5.9 196.8 46.5 22.6 EBITDA m 1,909 3,333 EBITDA Growth % -9.6 74.6 83.6 36.7 Tax Paid m -29.1 -493 - EBIT Growth % 6.6 73.9 103.9 43.3 Chgs in Working Cap m -1,681 -2,117 - Gross Profit Margin % 35.5 25.6 24.0 22.4 Net Interest Paid m -794 -960 - EBITDA Margin % 11.3 6.7 8.4 9.3 Other m 303 719 EBIT Margin % 7.8 4.5 6.3 7.4 Operating Cashflow m -554 482 - Net Profit Margin % 3.1 3.1 3.5 4.2 Acquisitions m -157 <td></td>													
Revenue Growth	Revenue Growth % -5.9 196.8 46.5 22.6 EBITDA m 1,909 3,333 EBITDA Growth % -9.6 74.6 83.6 36.7 Tax Paid m -291 -493 - EBIT Growth % 6.6 73.9 103.9 43.3 Chgs in Working Cap m -1,681 -2,117 - Gross Profit Margin % 35.5 25.6 24.0 22.4 Net Interest Paid m -794 -960 - EBITDA Margin % 11.3 6.7 8.4 9.3 Other m 303 719 EBIT Margin % 7.8 4.5 6.3 7.4 Operating Cashflow m -554 482 - Net Profit Margin % 3.1 3.1 3.5 4.2 Acquisitions m -157 -1,500 Payout Ratio % 0.0 0.0 0.0 0.0 Capex m -2,491 -5,500 - EV/EBITDA x 30.6 17.5 9.5 7.0 Asset Sales m 0								114.7	267.3		63.8	%	EBIT Growth
EBIT Growth % 9,6 6 74,6 83,5 83,6 7 Tax Paid m -291 493 1,105 1,634 EBIT Growth % 6,6 73,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,0 103,	EBITDA Growth % -9.6 74.6 83.6 36.7 Tax Paid m -291 -493 -493 -493 -493 -2117		2008E	2007E	A 2	2006A		Cashflow Analysis	2009E	2008E	2007E	2006A		Profit and Loss Ratios
EBIT Growth % 9,6 6 74,6 83,5 83,6 7 Tax Paid m -291 493 1,105 1,634 EBIT Growth % 6,6 73,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,9 103,0 103,	EBITDA Growth % -9.6 74.6 83.6 36.7 Tax Paid m -291 -493 -493 -493 -493 -2117 -493 -2117 -493 -2117 -493 -2117 -493 -2117 -493 -2117 -493 -2117 -493 -2117 -493 -2117 -493 -2117 -493 -2117 -493 -2117	118 8361	6 118	3 333	a 1	1 909	m	FRITDA	22.6	46.5	196.8	-5.0	%	Revenue Growth
EBIT Growth % 6.6 73.9 103.9 43.3 Chgs in Working Cap m 1.688 1.2.117 8.421 -6.647 cross Profit Margin % 35.5 25.6 24.0 22.4 Net Interest Paid m 7.794 -960 1.347 -1.647 EBIT Margin % 11.3 6.7 8.4 9.3 Other m 303 719 400 400 EBIT Margin % 3.1 3.1 3.5 4.2 Operating Cashflow m 5.55 482 -4.355 -1.1500 0 0 1.00 Payout Ratio % 0.0 0.0 0.0 0.0 0.0 Capex m 2.491 -5.500 0 0 2.500 EV/EBITOA x 30.6 17.5 9.5 7.0 EV/EBITOA x 30.6 17.5 9.5 7.0 EV/EBITOA x 44.7 25.7 12.6 8.8 Other m 1.28 18 4 4 4 EV/EV/EV/EV/EV/EV/EV/EV/EV/EV/EV/EV/EV/E	EBIT Growth % 6.6 73.9 103.9 43.3 Chgs in Working Cap m -1,681 -2,117 -2,117 -2,117 -2,117 -2,000 -2,117 -2,000 -2,117 -2,000<													
Gross Profit Margin % 35.5 25.6 24.0 22.4 Net Interest Paid m 7-94 9-960 1.347 -1.587	Gross Profit Margin % 35.5 25.6 24.0 22.4 Net Interest Paid m -794 -960 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>													
EBITD Margin	EBITDA Margin % 11.3 6.7 8.4 9.3 Other m 303 719 EBIT Margin % 7.8 4.5 6.3 7.4 Operating Cashflow m -554 482 - Net Profit Margin % 3.1 3.5 4.2 Acquisitions m -1,500 - Payout Ratio % 0.0 0.0 0.0 Capex m -2,491 -5,500 - EV/EBITDA x 30.6 17.5 9.5 7.0 Asset Sales m 0 0													
EBIT Margin	EBIT Margin % 7.8 4.5 6.3 7.4 Operating Cashflow m -554 482 - Net Profit Margin % 3.1 3.1 3.5 4.2 Acquisitions m -157 -1,500 Payout Ratio % 0.0 0.0 0.0 Capex m -2,491 -5,500 - EV/EBITDA x 30.6 17.5 9.5 7.0 Asset Sales m 0 0													
Net Profit Margin	Net Profit Margin % 3.1 3.5 4.2 Acquisitions m -157 -1,500 Payout Ratio % 0.0 0.0 0.0 Capex m -2,491 -5,500 - EV/EBITDA x 30.6 17.5 9.5 7.0 Asset Sales m 0 0													
Payout Ratio	Payout Ratio % 0.0 0.0 0.0 0.0 Capex m -2,491 -5,500 -5,500 -EV/EBITDA x 30.6 17.5 9.5 7.0 Asset Sales m 0 0													
EV/EBITOA X 30.6 17.5 9.5 7.0 Asset Sales m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EV/EBITDA x 30.6 17.5 9.5 7.0 Asset Sales m 0 0													
EV/EBIT X 44.7 25.7 12.6 8.8 Other mm -1.28 18 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4						0	m		7.0	9.5	17.5	30.6	Х	
Balance Sheet Ratios ROE	EV/EBIT X 44.7 25.7 12.6 8.8 I Other M -128 18			18										
ROE % 6.6 12.9 18.4 22.3 Equity Raised m 5,701 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,504 -2,504	-2,504											
ROA % 6.6 8.1 11.2 12.0 Debt Movements m -1,637 6,563 7,000 3,500 ROIC % 7.1 11.0 17.8 16.8 Holder m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Balance Sheet Ratios Dividend (Ordinary) m -60 -60	-60 -60	-60	-60)	-60	m	Dividend (Ordinary)						Balance Sheet Ratios
ROA % 6.6 8.1 11.2 12.0 Debt Movements m -1,637 6,563 7,000 3,500 ROIC % 7.1 11.0 17.8 16.8 Holder m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0	0	1	5,701			22.3	18.4	12.9	6.6	%	ROE
ROIC % 7.1 11.0 17.8 16.8 Net Debt/Equity % 39.6 42.8 81.1 84.4 Price/Book x 1.6 2.4 3.4 4.2 Price/Book x 1.6 2.4 3.4 4.2 Book Value per Share 214.8 243.4 291.5 363.3 24.8 Receivables m 4.004 6.503 6.940 3.440 Net Chg in Cash/Debt m 674 3 82 -170 Receivables m 4.004 6.503 6.940 3.440 Net Chg in Cash/Debt m 674 3 82 -170 Receivables m 4.004 6.503 6.940 3.440 Net Chg in Cash/Debt m 674 3 82 -170 Receivables m 4.004 6.503 6.940 3.440 Net Chg in Cash/Debt m 674 3 82 -170 Receivables m 4.004 6.503 6.940 3.440 Net Chg in Cash/Debt m 674 3 82 -170 Receivables m 4.004 6.503 6.940 3.440 Net Chg in Cash/Debt m 674 3 82 -170 Receivables m 4.004 6.503 6.940 3.440 Net Chg in Cash/Debt m 674 3 82 -170 Receivables m 4.004 6.503 6.940 3.440 Net Chg in Cash/Debt m 674 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 674 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 674 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 674 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.104 6.503 6.940 3.440 Net Chg in Cash/Debt m 7.004 6.1		7,000 3,500	7,000	6,563						11.2	8.1			ROA
Net Debt/Equity								Other	16.8	17.8	11.0	7.1	%	ROIC
Interest Cover		6,940 3,440	6,940	6,503	4 6	4,004		Financing Cashflow	84.4	81.1	42.8	39.6		Net Debt/Equity
Balance Sheet 2006A 2007E 2008E 2009E	Interest Cover x 1.6 2.4 3.4 4.2		•			•	-	Not Cha in Cook/Dokt	4.2		2.4		х	
Cash m 1,106 1,110 1,191 1,022 Receivables m 4,024 5,900 9,914 13,360 Inventories m 8,043 9,833 17,704 23,858 Investments m 2,595 4,748 7,581 9,550 Fixed Assets m 7,020 11,457 12,469 13,240 Intangibles m 0 0 0 0 0 Other Assets m 268 257 257 257 257 Total Assets m 23,056 33,305 49,115 61,286 Payables m 5,387 7,348 13,230 17,829 Short Term Debt m 0 0 0 0 0 Provisions m 288 518 933 1,257 Other Liabilities m 607 6,169 6,169 6,169 Total Liabilities m 11,832 20,585		02 -170	02	3	•	074	""	Net City iii Casii/Debt					χ.	
Receivables m 4,024 5,900 9,914 13,360 Inventories m 8,043 9,833 17,704 23,858 Investments m 2,595 4,748 7,581 9,550 Fixed Assets m 7,020 11,467 12,469 13,240 Intangibles m 0 0 0 0 Other Assets m 268 257 257 257 Total Assets m 23,056 33,305 49,115 61,286 Payables m 5,387 7,348 13,230 17,829 Short Term Debt m 0 0 0 0 Provisions m 288 518 933 1,257 Other Liabilities m 607 6,169 6,169 6,169 Total Liabilities m 607 6,169 6,169 6,169 6,169 Shareholders' Funds m 11,215 12,710 15,224 18,972 Minority Interests m 0 0 0	Balance Sheet 2006A 2007E 2	008E 2009E	2008E	2007E	A 2	2006A		Balance Sheet						
Receivables m 4,024 5,900 9,914 13,360 Inventories m 8,043 9,833 17,704 23,858 Investments m 2,595 4,748 7,581 9,550 Fixed Assets m 7,020 11,467 12,469 13,240 Intangibles m 0 0 0 0 Other Assets m 268 257 257 257 Total Assets m 23,056 33,305 49,115 61,286 Payables m 5,387 7,348 13,230 17,829 Short Term Debt m 0 0 0 0 Provisions m 288 518 933 1,257 Other Liabilities m 607 6,169 6,169 6,169 Total Liabilities m 607 6,169 6,169 6,169 6,169 Shareholders' Funds m 11,215 12,710 15,224 18,972 Minority Interests m 0 0 0	Cash m 1 106 1 110	1.191 1.022	1 191	1,110	s 1	1 106	m	Cash						
Inventories														
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Fixed Assets m 7,020 11,457 12,469 13,240 Intangibles m 0 0 0 0 Other Assets m 268 257 257 257 Total Assets m 23,056 33,305 49,115 61,286 Payables m 5,387 7,348 13,230 17,829 Short Term Debt m 0														
Intangibles														
Other Assets m 268 257 257 257 Total Assets m 23,056 33,305 49,115 61,286 Payables m 5,387 7,348 13,230 17,829 Short Term Debt m 0 0 0 0 Long Term Debt m 5,550 6,550 13,550 17,050 Provisions m 288 518 933 1,257 Other Liabilities m 607 6,169 6,169 6,169 Total Liabilities m 11,832 20,585 33,881 42,305 Shareholders' Funds m 11,215 12,710 15,224 18,972 Minority Interests m 9 9 9 9 Other m 0 0 0 0 Total S/H Equity m 11,225 12,719 15,233 18,981 Total Liab & S/H Funds m 23,056 33,305 49,115 <														
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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 - return > 5% in excess of benchmark return

Neutral – return within 5% of benchmark return Underperform – return >5% below benchmark return

Recommendations - 12 months

Note: Quant recommendations may differ from Fundamental Analyst recommendations

Recommendation proportions

	AU/NZ	Asia	RSA	
Outperform	43.12%	58.91%	42.20%	
Neutral	44.98%	22.92%	46.80%	
Underperform	11.90%	18.17%	11.00%	
For quarter ending 31 December 2006				

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).

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