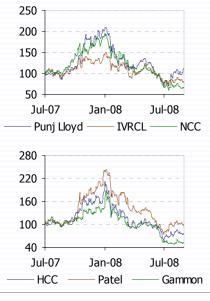


#### **Relative Performance**



Source: ENAM Research, Bloomberg

# Infrastructure Sector

Already at stress case values?

Sector summary							Stress	Case	Values (	RS/Sna	are)				
Company	Price	Mkt cap_	EPS (	Rs.)	P/E(x)	Tgt Price	(%)	Rel To	P/E	P/B	EV/	Core	VOI*	Stress	52w
(%)	(Rs.)	(USD mn)	FY09E	FY10E	FY09E	(Rs.)	upside	to Sec			Backlog	Avg.		Value	Low
Punj Lloyd	305	2,112	16	22	18	345	13	N	227	172	181	194	17	210	183
IVRCL	310	945	19	26	10	423	36	OP	248	220	307	258	86	344	250
Nagarjuna	132	692	9	12	12	160	21	OP	104	114	98	105	25	131	107
HCC	102	596	4	6	11	113	11	N	49	49	34	44	54	98	68
Patel Engg	408	556	23	30	11	509	25	OP	297	269	296	288	135	423	286
Gammon	227	448	14	16	9	250	10	N	122	137	152	137	86	223	199

Source: ENAM Research Note: Standalone financials except for Patel Engg and Punj Lloyd \* Stress case VoI differs from target VoI ( Ref slide 8 for details)

Analyst: Shreya Doshi shreya@enam.com (+91 22 6754 7646) Analyst: Bhavin Vithlani bhavin@enam.com (+91 22 6754 7634) **Akshen Thakkar** akshen.thakkar@enam.com



### **Executive Summary**

We have attempted an exercise, using a range of methodologies to arrive at high-comfort zone entry-points for stocks, for both trading opportunities & long term investments

#### **Infrastructure sector outlook : Short term hiccups; long term intact**

- Impact of slowing GDP growth on construction visible spend on it has slipped to < 8% of GDP</li>
- Pre-electoral uncertainties and regulatory hurdles (eg NHAI road orders) are adding to short term woes
- However, USD 500bn infra target is intact with order flows continuing to be strong in segments like power & water
- Order backlogs at 2-3x sales provide ~2-year visibility

#### RoE has trended lower due to various rounds of fund raising

- Equity capital has been deployed for funding BOT and real estate subsidiaries which have a longer gestation period
- RoE could improve in the long term as growth outweighs impact of dilution as in the past
- While the sector continues to be in a secular growth phase, the cyclical slowdown is largely discounted by the 50-70% decline in stock prices from peak levels
- The implied earnings growth for a 50% upside over 3 years from current prices is 15-50% p.a. which is likely for most companies; however, a 100% upside over the same period requires a 25-64% earnings CAGR which is unlikely

### Finding cyclical trough prices: What's the appropriate methodology?

- We believe, P/E (based on a sustainable RoE), P/BV (based on LT growth and cost of equity) and EV/ order backlog (based on historical mean adj. for quality of backlog) are suitable metrics for EPC companies.
- We have applied an appropriate discount for value of investments in real estate and BOT projects.

#### Based on our stress value calculations:

- Stocks above stress value Punj Lloyd
- Stocks near/below stress value IVRCL, Nagarjuna Construction, Patel Engg, HCC and Gammon

# **Outlook: Short term hiccups; long term intact**

### Infra spend: to mirror GDP slowdown?

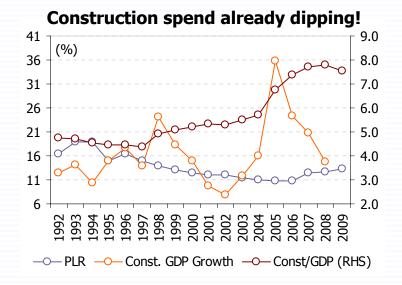
- Infra spending so far has played catch up to a rise in GDP going up from ~5% of GDP in 2002 to ~8% in FY08
- GDP growth now slowing dramatically i.e. ~200 bps to ~8% in 2009E from 9.6% in 2007
- Impact of slowing growth on construction already visible spend on it has slipped < 8% of GDP as effective interest rates have gone up >500 bps

### Political uncertainties/ regulatory hurdles add to short term woes

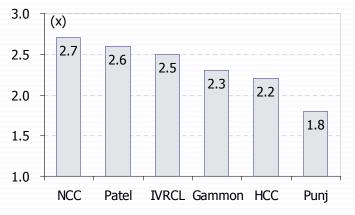
- Infra project announcements getting affected by regulatory hurdles (eg NHAI road orders)
- Impending Gen elections & formation of a new govt. (~6-8 mths) may further delay order flows

### However, USD 500bn infra target intact

- Order inflows in water and power segment strong
- Order backlogs are healthy at 2-3x sales and provide sufficient medium term visibility
- Any cooling off of commodity prices could arrest margin erosion

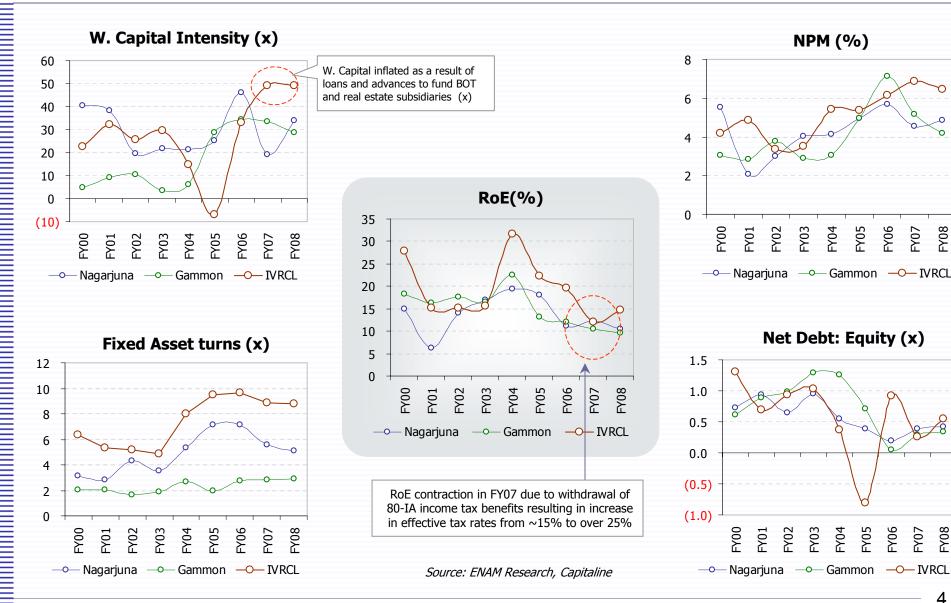


### Backlog/sales healthy at 2-3x sales



#### Source: ENAM Research, Business Beacon

### **RoE trending lower due to fund raising**



# **RoE decomposition reflects impact of dilution**

	EVOO	EVO 4	EVOQ		EVOO	EVO 4	
TVDCI	FY00	FY04	FY08	1166	FY00	FY04	
IVRCL				нсс			
PAT Margins	4.2	5.4	6.5	PAT Margins	4.8	3.4	
Total Asset Turns	2.5	2.5	1.4	Total Asset Turns	1.1	1.8	
Asset/Equity	2.7	2.3	1.7	Asset/Equity	4.1	3.6	
RoE	28	32	15	RoE	23	22	
NCC				PEC			
PAT Margins	5.5	4.1	4.8	PAT Margins *	12.7	3.8	
Total Asset Turns	1.4	2.4	1.1	Total Asset Turns	3.3	1.8	
Asset/Equity	1.9	1.9	1.9	Asset/Equity	1.7	4.0	
RoE	15	19	10	RoE	70	27	
GMON				PUNJ			
PAT Margins	3.1	3.0	4.2	PAT Margins	5.5	2.2	
Total Asset Turns	2.1	2.5	1.6	Total Asset Turns	1.0	1.0	
Asset/Equity	2.9	2.9	1.4	Asset/Equity	2.5	4.9	
RoE	18	22	10	RoE	14	11	

Source: ENAM Research, Bloomberg Note: Standalone financials except for Patel Engg and Punj Lloyd. \* Patel Engg pays tax at MAT rate

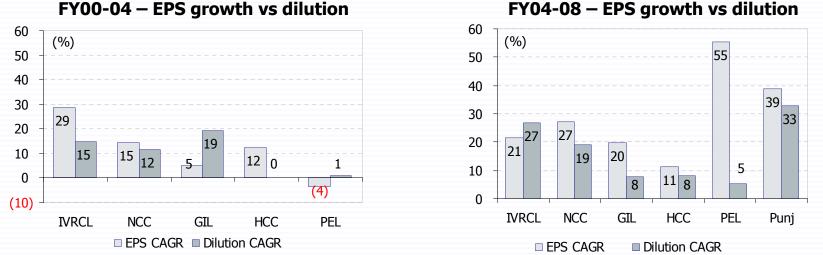
### RoE has contracted over FY04-08 largely due to fund raising by companies

- Overall PAT Margins have improved but asset turns have been lower since equity capital has been deployed for funding BOT and real estate subsidiaries which have longer gestation period
- Low gearing levels give scope for increasing in borrowings to fund increased working capital requirements; albeit at high interest rates – to hurt earnings growth in FY09-10E
- RoE could improve as growth outweighs impact of dilution in the long term

## **Can growth outweigh impact of dilution?**

#### 0 Rate of dilution vs earnings growth in the past shows that dilution has paid off

- In the steady growth phase from FY00-04, dilution has paid off in case of IVRCL and NCC
- In the high growth phase from FY04-08, earnings growth has outweighed the impact of dilution for all companies except IVRCL



#### FY00-04 – EPS growth vs dilution

Source: ENAM Research, Capitaline

Going forward, companies in our infra universe are expected to post earnings CAGR of 19-0 55% over FY08-10E without any further dilution. However, they may need infusion for maintaining growth beyond FY10.

### Is the expected growth in the price?

- Our "required growth" exercise suggests that a 50% upside over 3 years from current prices is likely in case of Punj Lloyd, IVRCL, Nagarjuna Construction and Patel Engg
- However, for a 100% upside over 3 years, the required earnings CAGR is 26-64% which is unlikely in all cases

Required EPS CAGR for 50% and 100% upside from current prices over the next 3 years

Company	M.Cap* (Rs bn)	PE (x) FY09E	Tgt PE (x) FY11E	Regd EPS CA 50% Case	GR FY08-11E 100% Case	Likely/ Unlikely	Comments
Punj Lloyd	93	18	14	49	64	Likely	Mgmt target of Rs200bn topline and 10% PBT margin by 2012 implies a ~50% earnings CAGR over FY08-12E. Current backlog of Rs200bn to support ~55% earnings CAGR till FY10E
IVRCL	31	12	13	15	26	Likely	Mgmt target of 35-40% CAGR in topline and marginal dip in profitability implies ~30% earnings CAGR over FY08-10E. Current backlog of Rs140bn to support ~30% earnings CAGR till FY10E
Nagarjuna	26	13	12	23	36	Likely	Current backlog of Rs125bn to support ~30% earnings CAGR till FY10E
Patel #	16	12	13	14	25	Likely	Current backlog of Rs 60bn to support ~20% earnings CAGR till FY10E
Gammon	16	10	9	29	42	Unlikely	Current backlog of Rs 100bn to support ~20% earnings CAGR till FY10E
нсс	14	11	11	34	47	Unlikely	Current backlog of Rs 83bn to support ~30% earnings CAGR till FY10E but non-conversion of FCCB could impact FY11E earnings

Note: # For calculating EPS CAGR , FY08 PAT has been adjusted for full tax. \* Mcap adjusted for Value of Investments

ENAN

# Finding cyclical trough prices: Methodology

#### P/E and sustainable RoE

- Historically, infrastructure stocks have traded in a band of 0.4-1.5x RoE
- We have valued EPC companies at 0.6 0.8x LT sustainable RoE based on resilience of their business models

### P/B and cost of Equity

- We have considered long-term sustainable growth of companies (7-12%), cost of equity (14-16%) and sustainable RoE and valued the companies at 1-2x FY09E book
  - Target P/B = (Sustainable RoE- LT growth)/(Cost of Equity LT growth)

### EV/Backlog

- Captures visibility for near-to-medium revenue growth
- We have valued EPC companies at 0.2 0.4x backlog depending on the average age of execution and proportion of variable contracts

#### **Stress case Value of Investments**

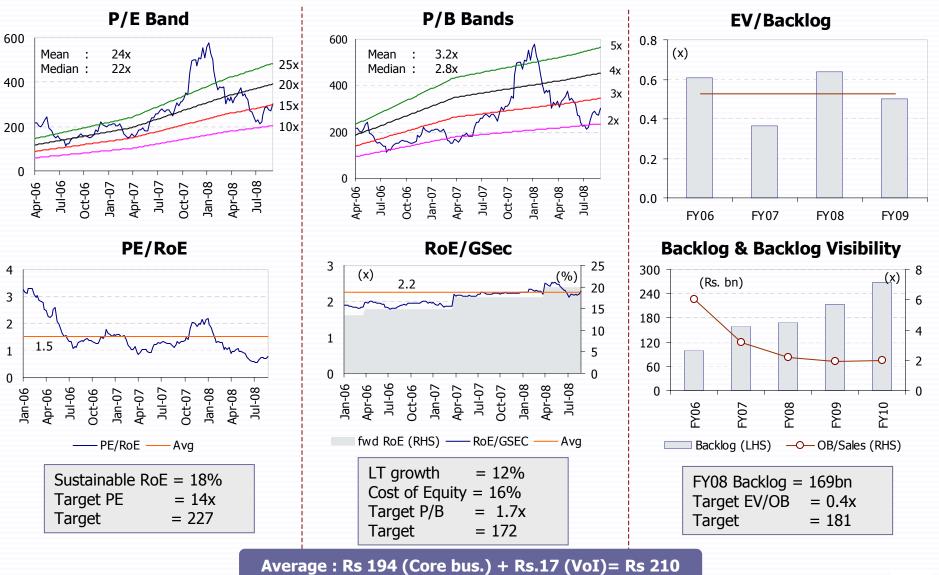
	Base case	Stress case	Of which			
	VoI	VoI	BOT	Realty	Others	Comments *
PUNJ	17	17	0	6	11	Investments in Ramprastha JV and Pipavav Shipyard at 1x P/BV
IVRC	110	86	30	43	13	BOT projects at 1.6x P/BV , 62% stake in IVR PUDL at CMP of Rs167, 52.8% stake in Hind Dorr at CMP of Rs 105 ( both with holdco dicsount of 10%)
NCC	28	25	18	8	0	BOT projects at 1.3x P/BV , real estate -DCF using 16% CoE and factoring in delays in various projects
HCC	54	54	2	52	0	BOT projects at 1x P/BV , real estate - DCF using 16% CoE - Lavasa( Rs 36/share), Vikhroli (Rs 16/share)
PEC	164	135	23	112	0	BOT projects at $1 \times \text{P/BV}$ , real estate- value of Jogeshwari, B'lore and Hyd land which have high visibility or are city centric
GMON	100	86	66	0	19	BOT projects at 2x P/BV ; treasury stock (5.85mn shares at Rs 220); $\sim$ 51% stake in Gammon & Billimoria at FY10 P/E of 6x; Inv. in Sadbhav Engg at CMP of Rs 800 ( after 10% holdco discount)

Note: \* For BOT projects, only operational /under construction projects have been valued.

# **Stress Case Values**

### **Punj Lloyd**

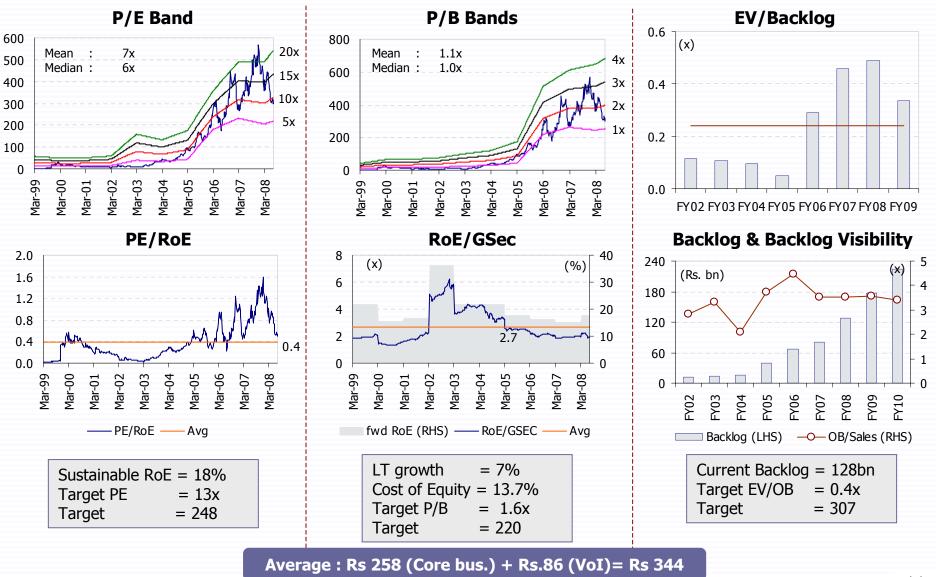
CMP : Rs 305 Target Price : Rs 345 52-wk H/L : Rs 589/183



Note: P/E and P/B bands have been adjusted for the Value of Investments

**IVRCL** 

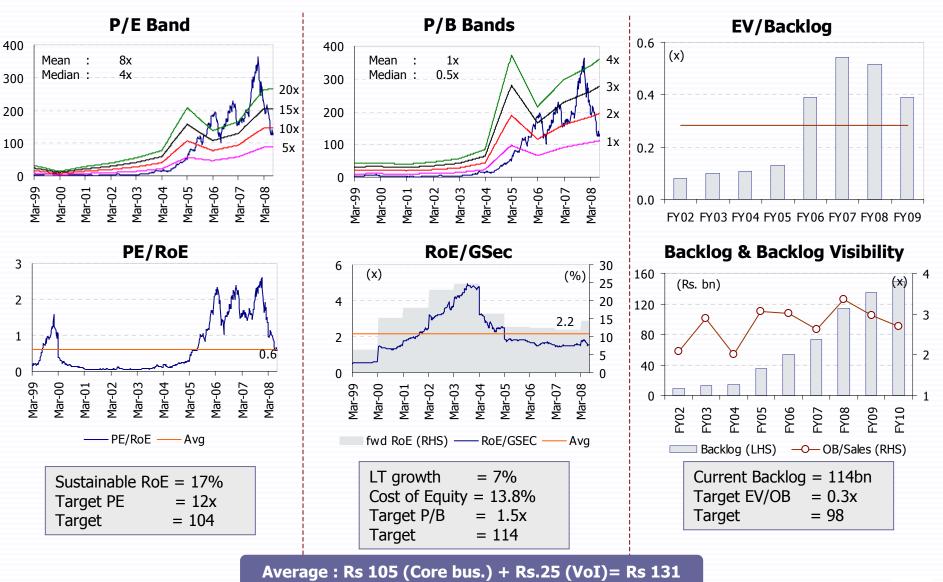
CMP : Rs 310 Target Price : Rs 423 52-wk H/L : Rs 575/250



Note: P/E and P/B bands have been adjusted for the Value of Investments

### Nagarjuna

CMP : Rs 132 Target Price : Rs 160 52-wk H/L : Rs 373/107

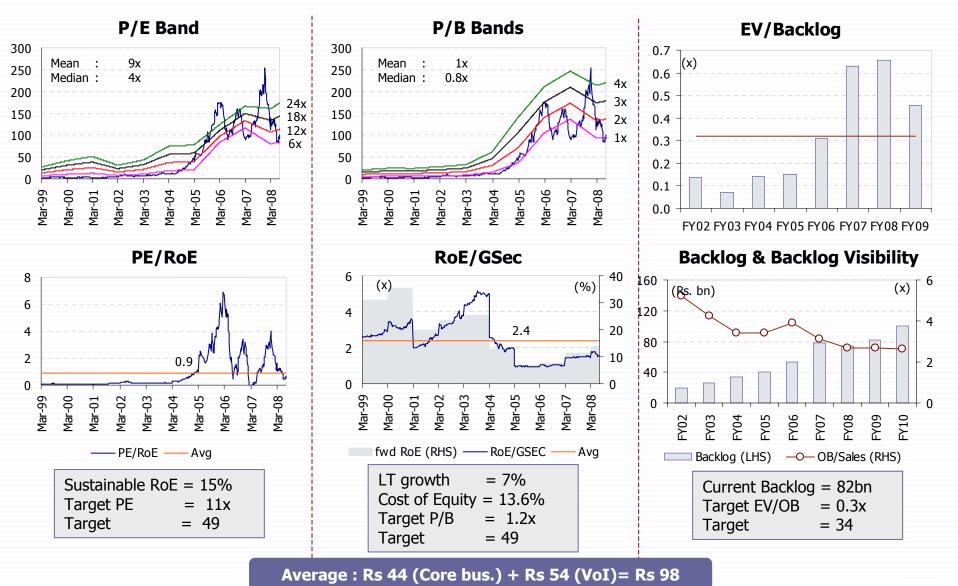


*Note: P/E and P/B bands have been adjusted for the Value of Investments* 

HCC

CMP : Rs 102 Target Price : Rs 113 52-wk H/L : Rs 279/68

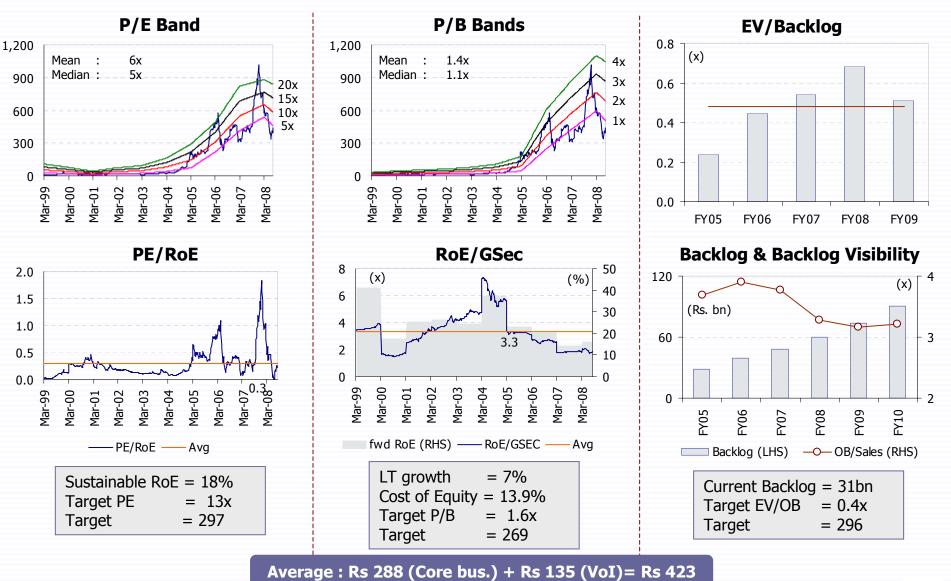




Note: P/E and P/B bands have been adjusted for the Value of Investments

### Patel Engg.

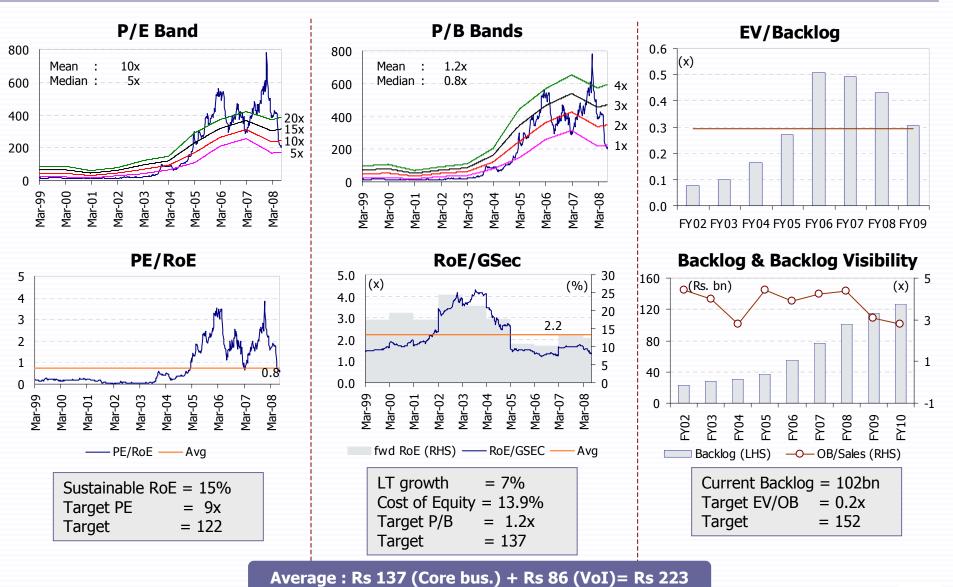
CMP : Rs 408 Target Price : Rs 509 52-wk H/L : Rs 1,070/286



Note: P/E and P/B bands have been adjusted for the Value of Investments

### Gammon

CMP : Rs 227 Target Price : Rs 250 52-wk H/L : Rs 845/199



Note: P/E and P/B bands have been adjusted for the Value of Investments

# Appendix



## **Rising rates impacting project IRR's**

### Adoption of PPP models but IRR's impacted

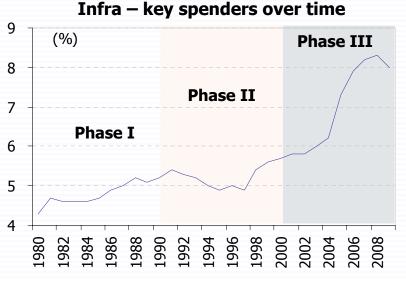
- Infra spend , largely govt financed until now
- Public private partnership model adopted recently
- However, equity IRR's have been hit due to rising rates
  => inadequate incentive for private players

### Funding pressure on balance sheet

- Tight monetary situation coupled with pressure to fund existing BOT and real estate projects=> pressure on balance sheets
- Option of raising finances through capital markets not available currently!

### Expect a year or two of consolidation

- High Interest costs coupled with escalating raw material prices to impact profitability
- Players with stronger execution capabilities and relatively stronger balance sheets are better off



Source: ENAM Research, Prowess

- Phase I: Govt as not viable for pvt enterprise
- Phase II: Privatization picks up; Govt still large, spending has demand pull
- Phase III: IRR attractive enough for pvt sector, larger participation to ease govt funding pressure and faster execution



## How players stack up...l

#### Extent of pass through in backlog

(% of Total Backlog)	IVRCL	NJCC	GIL*	PEL	HCC	Punj
Star rated (full pass thru)	65	25	15-20	50-60	5-10	-
Index/WPI linked	25	45	65-70	10-15	85	60-70
Material provided by clients	3	0	-	-	-	-
Fixed Price contracts	7	30	10	20-25	5-10	30-40

Source: Company , ENAM Research, \* incl ATSL

#### FY09 Intake capacity and achievement

	IVRCL	NCC	Gammon	PEL	нсс	Punj
Net Worth	16	16	10	9	10	27
Net intake capacity status	119	81	60	52	66	184
FY09 Intake Assumed	99	67	52	36	55	158
Q1FY09 % achieved	29	27	21	15	16	17

Source: Company, ENAM Research, Note: Intake capacity = Net worth x Applicable multiplier factor (8-12) + FY09E revenues – current backlog



## How players stack up...2

#### Working capital breakup

	Punj Lloyd	Gammon	Patel Engg	IVRCL	HCC	NCC
Inventory	97	113	160	19	254	59
Receivables	98	83	91	66	1	94
Loans and Advances	31	80	92	78	35	161
Other Current Assets	4	1	0	107	0	1
Current Assets	230	278	344	270	290	314
Current Liabilities	184	195	212	104	150	162
Net Current Assets - FY08	76	106	180	179	169	176
Without L&A to subsidiaries	76	86	155	135	153	151

#### Total investments in BOT and real estate subsidiaries

FY08	Inv in	Loans	Total –	Est equity investme	Bal to be	
Rs mn	Subs/JV	& Adv	Iotal —	for BOT projects	for Realty	funded
NCC	5,648	2,298	7,946	6,502	2,250	806
IVRCL	3,409	4,379	7,788	2,573	4,000	(200)
HCC	2,520	1,322	3,842	590	2,500	(752)
Gammon	1,208	1,275	2,483	4,605		2,123
PEC #	1,101	1,287	2,388	4,440		2,052

Note: \* Only near term equity requirements for real estate are considered above

# Estimated requirement in the near term incl that for proposed thermal power plant (Rs 3bn) where land acquisition is in progress (not included in valuations); no immediate requirement for real estate since land is already paid for.

#### **ENAM Securities Pvt. Ltd.**

#### 7, Tulsiani Chambers, Free Press Journal Marg, Nariman Point, Mumbai – 400 021, India.. **Tel:- Board** +91-22 6754 7600; **Dealing** +91-22 2280 0167; **Fax:- Research** +91-22 6754 7679; **Dealing** +91-22 6754 7575

#### CONFLICT OF INTEREST DISCLOSURE

We, at ENAM, are committed to providing the most honest and transparent advice to our clients. However, given the nature of the capital markets, from time to time we are faced with situations that could give rise to potential conflict of interest. In order to provide complete transparency to our clients, before we make any recommendations, we are committed to making a disclosure of our interest and any potential conflict IN ADVANCE so that the interests of our clients are safe- guarded at all times. In light of this policy, we have instituted what we believe to be the most comprehensive disclosure policy among leading investment banks/brokerages in the world so that our clients may make an informed judgment about our recommendations. The following disclosures are intended to keep you informed before you make any decision- in addition, we will be happy to provide information in response to specific queries that our clients may seek from us.

Disclosure of interest statement (As of September 5, 2008)	Punj Lloyd	IVRCL	Nagarjuna	Gammon	НСС	Patel Engg.
1. Analyst ownership of the stock	Yes	No	No	No	No	Yes
2. Firm ownership of the stock	No	No	No	No	No	No
3. Directors ownership of the stock	No	No	No	No	Yes	Yes
4. Investment Banking mandate	No	No	No	No	No	No
5. Broking relationship	No	No	No	No	No	No

#### We are committed to providing completely independent and transparent recommendations to help our clients reach a better decision.

This document is provided for assistance only and is not intended to be and must not alone be taken as the basis for an investment decision. Nothing in this document should be construed as investment or financial advice, and nothing in this document should be construed as an advice to buy or sell or solicitation to buy or sell the securities of companies referred to in this document. The intent of this document is not in recommendary nature

Each recipient of this document should make such investigations as it deems necessary to arrive at an independent evaluation of an investment in the securities of companies referred to in this document (including the merits and risks involved), and should consult its own advisors to determine the merits and risks of such an investment. The investment discussed or views expressed may not be suitable for all investors

Enam Securities Private Limited has not independently verified all the information given in this document. Accordingly, no representation or warranty, express or implied, is made as to the accuracy, completeness or fairness of the information and opinions contained in this document

The Disclosures of Interest Statement incorporated in this document is provided solely to enhance the transparency and should not be treated as endorsement of the views expressed in the report. This information is subject to change without any prior notice. The Company reserves the right to make modifications and alternations to this statement as may be required from time to time without any prior approval

Enam securities Private Limited, its affiliates, their directors and the employees may from time to time, effect or have effected an own account transaction in, or deal as principal or agent in or for the securities mentioned in this document. They may perform or seek to perform investment banking or other services for, or solicit investment banking or other business from, any company referred to in this report. Each of these entities functions as a separate, distinct and independent of each other. The recipient should take this into account before interpreting the document

This report has been prepared on the basis of information, which is already available in publicly accessible media or developed through analysis of ENAM Securities Private Limited. The views expressed are those of analyst and the Company may or may not subscribe to all the views expressed therein

This document is being supplied to you solely for your information and may not be reproduced, redistributed or passed on, directly or indirectly, to any other person or published, copied, in whole or in part, for any purpose. Neither this document nor any copy of it may be taken or transmitted into the United State (to U.S.Persons), Canada, or Japan or distributed, directly or indirectly, in the United States or Canada or distributed or redistributed in Japan or to any resident thereof. The distribution of this document in other jurisdictions may be restricted by law, and persons into whose possession this document comes should inform themselves about, and observe, any such restrictions

Neither the Firm, not its directors, employees, agents or representatives shall be liable for any damages whether direct or indirect, incidental, special or consequential including lost revenue or lost profits that may arise from or in connection with the use of the information.

Copyright in this document vests exclusively with ENAM Securities Private Limited.