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<u>A RESEARCH PAPER ON UNDERPRICING OF IPO'S IN</u>
INDIA

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ABSTRACT:

Underpricing in Initial Public Offer has existed in so many parts of the world. In India context, the review of literature suggests the same. The objective is to find whether underpricing exist in IPO's in India or not. The performance of IP has been measured of different industries and the conclusion in that the underpricing very well exist in India IPO scenario.

INTRODUCTION:

The initial public offering (IPO) is an important step in a firm's life and a central issue in corporate finance. As such, the topic has received widespread attention in the literature. Enhancing the attention given to IPOs is the fact that IPOs are associated with some interesting empirical patterns.

Initial Public Offerings (IPO)

An "initial public offering" is a company's first sale of stock to the public. This is why it is also referred to as "going public". When a company that has already issued and stock issues more stock it is called a "secondary offering".

It can be used by either small or large companies to raise expansion capital and become publicly traded enterprises. Many companies that undertake an IPO also request the assistance of an

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investment banking firm acting in the capacity of an underwriter to help them correctly assess the value of their shares, that is, the share price (IPO Initial Public Offerings, 2011).

The IPO Pricing Process

Corporate may raise capital in the primary market by way of an initial public offer, rights issue or private placement. An Initial Public Offer (IPO) is the selling of securities to the public in the primary market. This Initial Public Offering can be made through the fixed price method, book building method or a combination of both.

Fixed Price Method: In this method of pricing the investment bank in consultation with the firm fixes the price at which an investor can subscribe to. This price could be at par value or at a premium above the par value.

Book Building Method: In this method of pricing a price band is fixed instead of a fixed price. The lowest price in the price band is called as 'floor price' and the highest price is called as 'cap price'. An investor can subscribe at a price anywhere in the price band. An investor who wants to subscribe at any price can mention the 'cut-off price'. This cut-off price is decided once the bid period is over. Once the issue is closed a book with descending order of prices is prepared. Cut-off price is the price at which the entire issue gets subscribed. This is the most commonly used method. Difference between shares offered through book building and offer of shares through normal public issue:

Features	Fixed Price process	Book Building process
Pricing	Price at which the securities are offered/	Price at which securities will be
	allotted is known in advance to the	offered/ allotted is not known in
	investor.	advance to the investor. Only an
		indicative price range is known.
Demand	Demand for the securities offered is	Demand for the securities offered can
	known only after the closure of the issue	be known everyday as the book is built.
Payment	Payment if made at the time of	Payment is made only after allocation.
	subscription wherein refund is given	
	after allocation.	

REVIEW OF LITERATURE: -

S.M. Solaiman (2009), studied to discover the weaknesses of initial public offering (IPO)

regulation in Bangladesh in the light of the relevant law and practice in Australia. They found

that the IPO regulation in Bangladesh is weaker than that in Australia. The major weaknesses

may be attributed to different factors such as the adoption of the disclosure philosophy

prematurely by discarding the previous merit regulation in 1999 for a pre-emerging securities

market, lack of experienced and well-trained people in the composition of securities regulators.

Bjorn Bartling and Andreas Park (2010), studied the theoretical model and the implications of

this combination of short position and overallotment option on the pricing of the IPO. They

found that either in exacerbated underpricing when favorably informed underwriters lower prices

to secure a signaling benefit or in informational inefficient offer prices when underwriters pool in

offer prices irrespective of their information.

Jingyun Ma, Fengming Song and Zhishu Yang (2010), studied to examine the evolution of

China's securities market regulation from 1980 to 2007 and the dual role of the government in

this process. They found that paper unique evidence of how securities regulation evolves in

response to government direction and supervision if the government is both the owner and the

regulator of the securities market.

Elsevier B.V (2011), studied on underpricing with a demand-supply analytical framework that

captures critical institutional features of China's primary market. They have given major finding

that there are five traits presents in China's market: - 1) government regulation 2) initial return 3)

investment risk 4) privatizations under a more expansive 5)corporate assets.

Gerry Gallery, Natalie Gallery and Angela Linus (2011), studied on jointly assess the impact

of regulatory reform for corporate fundraising in Australia (CLERP Act 1999) and the relaxation

of ASX admission rules in 1999, on the accuracy of management earnings forecasts in initial

public offer (IPO) prospectuses. They found that the new regulatory environment had a positive

impact on management forecasting behavior. In the post-CLERP Act period, the accuracy of

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prospectus forecasts and their revisions significantly improved and, as expected, the results are primarily driven by CTE firms.

Objective of the study

The objectives of the study are:-

To study whether Underpricing exists in Indian IPO's.

Data Base and Research Methodology

Sample of the study

The sample consists of 1200 Indian companies, which issued IPOs during May 1992 to December 2010. Sample selection is based on the following criteria:

- 1) The IPO is made in the free pricing era of SEBI
- 2) The IPO is listed on the BSE and has been traded for two years after listing.
- 3) Data regarding offer price, listing date and date of incorporation are available.

The sample selection is guided by the availability of data. The sample consists of 771 fixed price issues. We have taken list value and offer value of IPO on different companies in order to calculate the underpricing and overpricing.

Sources of Data

The various sources of data inputs for our IPO sample are:

- Prowess Indian corporate database of CMIE
- Website of Capital Market Journal: www.capitalmarket.com
- Regulations frame work from www.sebi.govt.in
- Official Directory of Bombay Stock Exchange

Measurement of Performance of IPOs

The premium available to the initial subscribers of the Indian IPOs has been estimated and compared with other IPOs. The subscribers' return has been measured using the conventional method. The initial return on IPOs is computed as the difference between the closing price on the first day of trading and the offer price, divided by the offer price.

$$R_i = \frac{P_1 - P_0}{P_0} \times 100$$
 ... (1)

Where

Ri = Subscribers' initial return (hereafter raw return)

P1 = Closing price on the first day of trading

P0 = Offer price

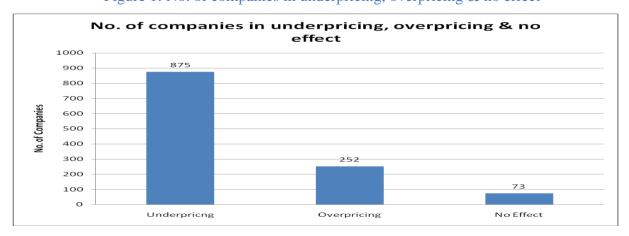
We have done descriptive analysis and comparative analysis. The aim of descriptive analysis is to summarize a data set, rather than use the data to learn about the population that the data are thought to represent. We have calculated maximum, minimum and average by descriptive analysis. The aim of comparative analysis is the item-by-item comparison of two or more comparable alternatives, processes, products, qualifications, sets of data, systems, or the like.

DATA ANALYSIS AND INTERPRETATION: -

Table 1: Underpricing, overpricing and no effect of companies

Underpricing, Overpricing & No effect of Companies										
	No. of Companies	Maximum	Minimum	Average						
Underpricing	875	4900%	1%	77%						
Overpricing	252	100%	1%	43%						
No Effect	73	0%	0%	0%						

Figure 1: No. of companies in underpricing, overpricing & no effect



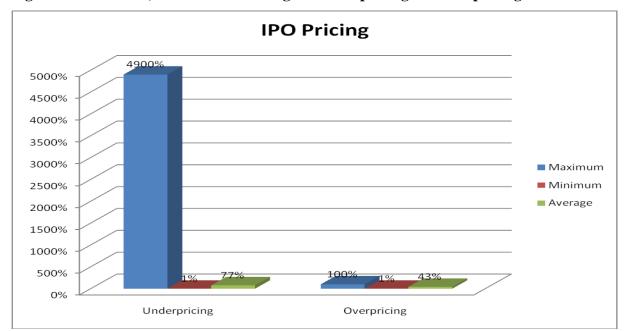


Figure 2: Maximum, minimum & average of underpricing and overpricing

Table 4.1 provides the sample distribution of IPO underpricing by Company. We found that 875 companies were underpriced, 252 companies were overpriced and 73 companies were fairly priced (see figure 4.1). The maximum underpricing is. 4900% of CCS InfoTech ltd. a company of computer hardware industry and minimum is 1% for IPO of Standard Chartered PLC and Andhra Bank and one of this is private and the other is public sector bank industry. The maximum overpricing is i.e.100% (refer table 4.1 above) of Centurion Bank of Punjab Ltd (merged) which is a private sector bank. The extreme inequality of demand and supply of IPOs was thought to be one of the major reasons for the high level of underpricing (Chi and Padgett (2005)).

Table 2: Underpricing and overpricing of industries

Underpricing & Overpricing in Industries												
Industries			Und	Underpricing				Overpricing				
	No.	of	No	of	Max	Mini	Ave	No	of	Max	Mini	Ave
	Comp	oan	Com	pan	imu	mu	rag	Comp	oan	imu	mu	rag
	ies		ies		m	m	e	ies		m	m	e
Agrochemicals/pestic	2		1		45%	45%	45	1		45%	45%	45

ides					%				%
Aluminum and					16				20
Aluminum Products	2	1	16%	0%	%	1	20%	20%	%
Aquaculture/marine			138		55				
products	10	10	%	10%	%	-	-	-	-
					10				
Auto ancillaries	5	5	18%	1%	%	-	-	-	-
Automobile			250		76				
components	7	7	%	25%	%	-	-	-	-
			100		46				21
Banking/term lending	11	5	%	14%	%	6	40%	6%	%
					19		100	100	100
Banks - private sector	8	7	44%	1%	%	1	%	%	%
					21				
Banks - public sector	21	20	52%	1%	%	1	5%	5%	5%
Breweries &					23				20
distilleries	4	2	35%	10%	%	2	35%	4%	%
Cables/wires/conduct			127		45				
ors	9	8	%	8%	%	1	4%	4%	4%
			380		75				
Castings & forgings	11	11	%	6%	%	-	-	-	-
Cement &									
construction			125		52				13
materials	7	6	%	5%	%	1	13%	13%	%
Ceramics/marble/gra			100		34				
nite/sanitary ware	9	8	%	2%	%	1	8%	8%	8%
			950		107				17
Chemicals	46	39	%	3%	%	7	57%	3%	%
			110	110	110				
Cigarettes/tobacco	1	1	%	%	%	-	-	-	-

Computers –			355		122		100		67
education	7	4	%	10%	%	3	%	2%	%
Computers -			4900		835		100		63
hardware	10	6	%	1%	%	4	%	27%	%
Computers - software			780		74		100		91
- medium / small	142	74	%	2%	%	68	%	3%	%
			260		35		100		16
Construction	44	33	%	2%	%	11	%	3%	%
Diamond cutting /			150		41				
jewellery	9	7	%	3%	%	2	7%	4%	5%
					18				
Domestic appliances	3	3	42%	4%	%	-	-	-	-
			183		69				11
Dyes and pigments	17	9	%	1%	%	5	15%	7%	%
Electric/electronic			450		63				16
equipments	22	18	%	3%	%	4	40%	5%	%
Electronics-consumer			135		65		100		55
& media	4	3	%	20%	%	1	%	10%	%
			250		113				
Electronics-general	5	5	%	20%	%	-	-	-	-
Engineering -					35				
turnkey services	28	25	75%	2%	%	3	4%	3%	4%
Entertainment /									
electronic media			983		50		100		21
software	51	10	%	1%	%	41	%	3%	%
			200		82				
Fertilizers	4	3	%	15%	%	1	8%	8%	8%
Finance - term-					18				
lending institutions	3	3	22%	13%	%	-	-	-	-
Finance &	17	14	75%	5%	33	3	100	14%	71

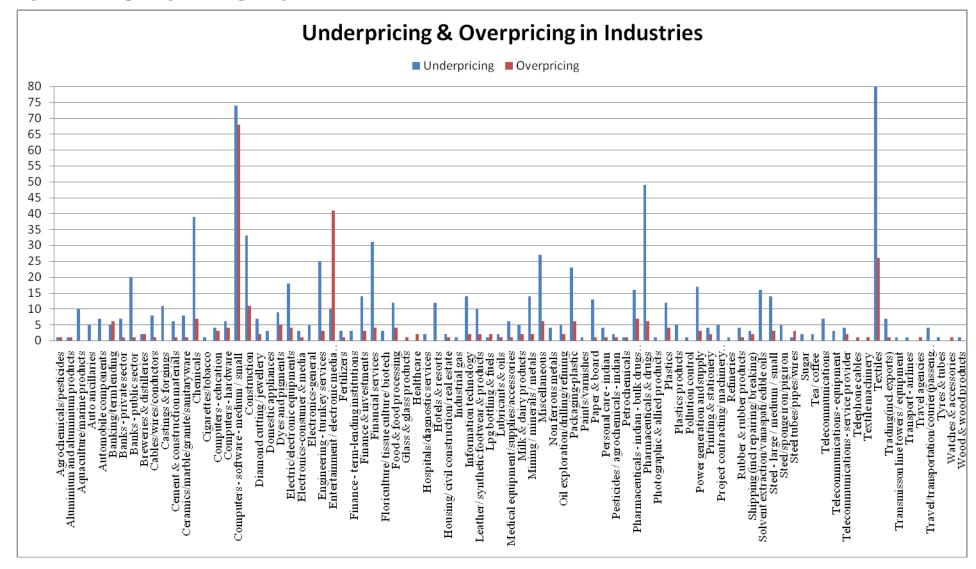
investments					%		%		%
			350		88				20
Financial services	35	31	%	7%	%	4	36%	3%	%
Floriculture/ tissue					53				
culture/ biotech	3	3	70%	40%	%	-	-	-	-
Food & food			475		87				17
processing	21	12	%	1%	%	4	35%	3%	%
Glass & glass					80				
products	1	-	80%	80%	%	1	4%	4%	4%
Healthcare	2	-	-	-	-	2	8%	3%	5%
Hospitals/diagnostic					52				
services	2	2	70%	33%	%	-	-	-	-
			390		92				
Hotels & resorts	12	12	%	5%	%	-		-	-
Housing/ civil									
construction/ real					42				20
estate	3	2	52%	32%	%	1	20%	20%	%
					60				
Industrial gas	1	1	60%	60%	%	-	-	-	-
Information			238		96				
technology	16	14	%	7%	%	2	10%	5%	8%
Leather/ synthetic			500		101				20
footwear & products	12	10	%	9%	%	2	39%	1%	%
			820	820	820				10
LPG bottling & fuels	3	1	%	%	%	2	11%	8%	%
			100		65				10
Lubricants & oils	3	2	%	30%	%	1	10%	10%	%
Medical									
equipment/supplies/a			350		169				49
ccessories	7	6	%	50%	%	1	49%	49%	%

Milk & dairy			200		72				11
products	7	5	%	10%	%	2	17%	5%	%
Mining / minerals /			431		59				
metals	16	14	%	1%	%	2	9%	1%	5%
			200		50		100		41
Miscellaneous	33	27	%	1%	%	6	%	3%	%
			425		123				
Non ferrous metals	4	4	%	7%	%	-	-	-	-
Oil									
exploration/drilling/r			125		58				
efining	7	5	%	11%	%	2	13%	3%	8%
			322		69				15
Packaging-plastic	29	23	%	1%	%	6	47%	4%	%
					30				
Paints/varnishes	1	1	30%	30%	%	-	-	-	-
			250		58				20
Paper & board	14	13	%	6%	%	1	20%	20%	%
Personal care -					25				20
Indian	5	4	79%	4%	%	1	20%	20%	%
Pesticides /									
agrochemicals -					40				
Indian	3	2	75%	4%	%	1	9%	9%	9%
					17				34
Petrochemicals	2	1	17%	17%	%	1	34%	34%	%
Pharmaceuticals -			175		40		100		30
Indian - bulk drugs	23	16	%	1%	%	7	%	2%	%
Pharmaceuticals &			950		103				22
drugs	55	49	%	6%	%	6	50%	10%	%
Photographic &					50				
allied products	1	1	50%	50%	%	-	-		-

			388		104				18
Plastics	16	12	%	4%	%	4	36%	7%	%
					21				
Plastics products	5	5	45%	7%	%	-	-	-	-
			425	425	425				
Pollution control	1	1	%	%	%	-	-	-	-
Power generation and			150		26				
supply	20	17	%	1%	%	3	8%	1%	4%
			175		64				18
Printing & stationery	6	4	%	4%	%	2	25%	10%	%
Project contracting/									
machinery			400		103				
manufacture	5	5	%	6%	%	-	-	-	_
					70				
Refineries	1	1	70%	0%	%	-	-	_	-
Rubber & rubber			169		60				10
products	5	4	%	5%	%	1	10%	10%	%
Shipping (incl.			150		93		100		51
repairing/ breaking)	5	3	%	40%	%	2	%	2%	%
Solvent									
extraction/vanaspati/			160		52				
edible oils	16	16	%	4%	%	-	-	-	_
Steel - large /					24		100		46
medium / small	17	14	75%	3%	%	3	%	13%	%
Steel/sponge iron/pig			661		138		100		52
iron	8	5	%	3%	%		%	2%	%
Steel					20				25
tubes/pipes/wires	2	1	20%	20%	%	3	25%	25%	%
					27				
Sugar	2	2	54%	9%	%	-	-	-	-

			100		93				
Tea/ coffee	2	2	%	87%	%	-	-	-	-
			400		100				
Telecommunications	7	7	%	7%	%	-	-	-	-
Telecommunications					22				
- equipment	3	3	43%	5%	%	-	-	-	-
Telecommunications					29				
- service provider	6	4	50%	21%	%	2	4%	4%	4%
									20
Telephone cables	1	-	-	-	-	1	20%	20%	%
Textile machinery	1	-	-	-	-	1	8%	8%	8%
			800		87		100		18
Textiles	106	80	%	2%	%	26	%	1%	%
Trading(incl.			450		103		100	100	100
exports)	8	7	%	22%	%	1	%	%	%
Transmission line									
towers / equipment	1	1	1%	1%	1%	-	-	-	-
					10				
Transport – airlines	1	1	10%	10%	%	-	-	-	-
Travel agencies	1	-	-	-	-	1	8%	8%	8%
Travel/transportation/			325		166				
courier(passenger)	4	4	%	40%	%	-	-	-	-
					65				
Tyres & tubes	1	1	65%	0%	%	-	-	-	-
Watches &									10
accessories	1	-	-	-	-	1	10%	10%	%
Wood & wood					50				
products	1	1	50%	50%	%	-	-	-	-

Figure 3: Underpricing and overpricing of industries



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The Industry-wise IPO underpricing and overpricing. The maximum underpricing was found in

computer hardware industry and minimum has been in Banks - Private Sector. The IPOs of some

companies in this Industry was also found to be overpriced to the extent of 100%.

Computers Software (Large / Medium / Small) industries is having 74 companies underpriced

and 68 companies overpriced. The underpricing of this industry is maximum 780% and

minimum 2% and the overpricing is maximum100% and minimum 3%.

The Entertainment / Electronic Media Software has shown opposite results with only 10

companies IPOs underpriced and IPOs of 41 companies were overpriced. The maximum and

minimum underpricing was found to be 983% and 1% respectively and the maximum and

minimum overpricing had been 100% and 3% respectively in this sector.

Textile industry is having maximum number of underpriced and overpriced companies i.e. 80

companies were underpriced and 26 companies were overpriced. The maximum and minimum

underpricing is 800% and 2% resp. and the maximum and minimum overpricing is 100% and 1%

resp. IPOs are generally underpriced in all industries. This is consistent with the stylized fact of

initial underpricing of IPOs in many industries as summarized by Charles Shi and Kuntara

Pukthuanthong and Thomas Walker (2006).

CONCLUSION

The results concluded that IPOs are underpriced in Indian market. In India, there is average 77%

underpricing and average 43% overpricing which can be obtained by descriptive analysis

method. It occurs because underpricing is based on information production and ownership

dispersion which will benefit the issuing firms. If issuing firms want to have a more dispersed

ownership, they need to underprice their IPOs so that more investors will be induced to produce

information about the issue and subsequently buy the shares. Underpricing is also effected by

media attention and publicity.

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The result also suggested that after change the regulatory framework, the book building IPOs show less underpricing than fixed price issues. The average underpricing value is achieved 101% by fixed price and 27% by book building method which can be obtained by descriptive analysis method. It occurs because the issuer sets a price range within which the investor is allowed to bid for shares. The range is based on where competitive companies are trading and an estimate of the value of the company that the market will bear.

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