VALUATION OF INDIAN IPO'S ALLOTMENT AND CURRENT PRICE ANALYSIS - ARE INDIAN IPO'S OVERVALUED?

Nusrathunnisa[A], Ghousia Khatoon[B], Hussaini Bala[C], Samira Benbelgacem[D], Abubakar Balarabe Karaye[E]

ARTICLE INFO	ABSTRACT
	Purpose: This study was conducted to analyze the IPOs of companies listed between 1st January 2021 to 30th April 2021 with the objective to determine whether the price at which the IPOs were introduced are fair, undervalued or overvalued and whether the performance of these IPOs have a significant relationship with factors such as the size of the IPO, age of the company and the proportion of promoters holding in the company. **Theoretical framework:** Companies registered in India can usually raise funds in two ways: borrowing money using debentures or issuing shares. An initial public offering is a financial arrangement wherein the shares of a private company are offered for sale for the first time to the general public. Based on the theory described in, a semi-theoretical pricing framework is created for the fixed-price and book-building mechanisms. **Design/methodology/approach:** The data were collected from NSE (National Stock Exchange) website and analyzed using the metrics such as Abnormal Returns which is calculated in order to analyze if the IPOs are underpriced, overpriced or fairly priced and Regression has been performed to check if there is any significant relationship among the Age, Size of IPO and promoter' holdings in the company after the IPO with the listing day gains or short-term gains of the IPO. **Findings:** It was found that the Indian IPOs are undervalued and thus leave money on the table for the issuer of these IPOs. From the regression analysis, it is observed that there is no significant relationship between the factors such as age of the company, promoters' holding in the company and the size of the IPO with the listing days returns and the 10-day period return of the IPO. **Research, Practical & Social implications:** Although most researchers believe that IPOs are usually affected by hot and cold periods or bearish-bullish trends, we are trying to determine the effectiveness of book-building method for IPOs following the pandemic in India. The study uses tools such as Abnormal Mean Return (AMR) and Regression to analyze the price of IPO, total returns on and after 10 days of listing of the IPOs, the market return during the same period, and the relationship of these

[A] *PhD. Department of Finance. School of Business. Alliance University. Bangalore, India.*
E-mail: nusrathun@gmail.com Orcid: https://orcid.org/0000-0002-2687-6313
[B] *PhD. Department of Accounting. Banking & Finance. Faculty of Administrative Sciences & Economics. Tishk International University. Iraq. E-mail: ghousia.khatoon@tiu.edu.iq*
Orcid: https://orcid.org/0000-0003-0910-5573
[C] *PhD. Department of Accounting. Banking & Finance. Faculty of Administrative Sciences & Economics. Tishk International University. Iraq. E-mail: hussaini.bala@tiu.edu.iq Orcid: https://orcid.org/0000-0003-1616-7940*
[D] *PhD. College of Business Administration. Princess Nourah Bint Abdulrahman University. Kingdom of Saudi Arabia. Email: benbelgacem@pnu.edu.sa Orcid: https://orcid.org/0000-0002-6619-2784*
[E] *PhD. Department of Accounting. Banking & Finance. Faculty of Administrative Sciences & Economics. Tishk International University. Iraq. E-mail: abubakar.karaye@tiu.edu.iq*
Orcid: https://orcid.org/0000-0002-2129-6897

Intern. Journal of Profess. Bus. Review. |Miami, v. 8 | n. 5| p. 01-12 | e0700 | 2023.

1

returns with other variable like size, ownership and promoter' holdings in the company to determine if they have any significant impact on these returns.

Originality/value: Fair valuation of an IPO could be the reason for its success and over-valuation and under-valuation may lead to its failure and may result in huge monetary losses. The current research on IPO is significant in the sense it contributes by making it clear about the concept of IPO through Literature and about its valuations through analysis which is based on Abnormal Returns and Regression

AVALIAÇÃO DO LOTE DO IPO INDIANO E ANÁLISE DE PREÇO ATUAL - O IPO INDIANO ESTÁ SUPERVALORIZADO?

RESUMO

Propósito: Este estudo foi realizado para analisar os IPOs de empresas listadas entre 1º de janeiro de 2021 a 30 de abril de 2021 com o objetivo de determinar se o preço pelo qual os IPOs foram introduzidos são justos, subavaliados ou supervalorizados e se o desempenho desses IPOs tem uma relação significativa com fatores como o tamanho do IPO, a idade da empresa e a proporção de promotores que detêm a empresa.

Quadro teórico: As empresas registradas na Índia geralmente podem levantar fundos de duas maneiras: tomando dinheiro emprestado usando debêntures ou emitindo ações. Uma oferta pública inicial é um acordo financeiro em que as ações de uma empresa privada são oferecidas para venda pela primeira vez ao público em geral. Com base na teoria descrita em, uma estrutura de precificação semi-teórica é criada para os mecanismos de preço fixo e bookbuilding.

Desenho/metodologia/abordagem: Os dados foram coletados no site da NSE (National Stock Exchange) e analisados usando métricas como Abnormal Returns, que é calculado para analisar se os IPOs estão subvalorizados, superfaturados ou com preços justos e a regressão foi realizada para verificar se há algum relação entre a idade, o tamanho do IPO e as participações do promotor na empresa após o IPO com os ganhos do dia de listagem ou ganhos de curto prazo do IPO.

Descobertas: Verificou-se que os IPOs indianos estão subvalorizados e, portanto, deixam dinheiro na mesa para o emissor desses IPOs. A partir da análise de regressão, observa-se que não há relação significativa entre os fatores como idade da empresa, participação dos promotores na empresa e tamanho do IPO com os retornos em dias de listagem e o retorno no período de 10 dias da IPO.

Pesquisa, implicações práticas e sociais: Embora a maioria dos pesquisadores acredite que os IPOs geralmente são afetados por períodos quentes e frios ou tendências de baixa e alta, estamos tentando determinar a eficácia do método de bookbuilding para IPOs após a pandemia na Índia. O estudo utiliza ferramentas como Abnormal Mean Return (AMR) e Regression para analisar o preço do IPO, o retorno total após 10 dias de listagem dos IPOs, o retorno do mercado durante o mesmo período e a relação desses retornos com outros variável como tamanho, propriedade e participações do promotor na empresa para determinar se eles têm algum impacto significativo sobre esses retornos.

Originalidade/valor: A avaliação justa de um IPO pode ser a razão de seu sucesso e a supervalorização e subavaliação podem levar ao seu fracasso e resultar em enormes perdas monetárias. A pesquisa atual sobre IPO é significativa no sentido em que contribui ao esclarecer sobre o conceito de IPO por meio da literatura e sobre suas avaliações por meio de análises baseadas em retornos anormais e regressão

Palavras-chave: Valuation, IPO's, Retorno de Mercado, Participações Promotoras.

VALORACIÓN DE LA ASIGNACIÓN DE OPI DE LA INDIA Y ANÁLISIS DEL PRECIO ACTUAL: ¿ESTÁN SOBREVALORADAS LAS OPI DE LA INDIA?

RESUMEN

Objetivo: Este estudio se realizó para analizar las OPI de empresas que cotizan entre el 1 de enero de 2021 y el 30 de abril de 2021 con el objetivo de determinar si el precio al que se introdujeron las OPI es justo, infravalorado o sobrevalorado y si el rendimiento de estas OPI tiene una relación significativa. con factores como el tamaño de la oferta pública inicial, la edad de la empresa y la proporción de promotores que participan en la empresa.

Marco teórico: Las empresas registradas en la India generalmente pueden recaudar fondos de dos maneras: tomando dinero prestado usando obligaciones o emitiendo acciones. Una oferta pública inicial es un acuerdo financiero en el que las acciones de una empresa privada se ofrecen a la venta por primera vez al público en

Intern. Journal of Profess. Bus. Review. | Miami, v. 8 | n. 5 | p. 01-12 | e0700 | 2023.

2

general. Con base en la teoría descrita en , se crea un marco de precios semiteórico para los mecanismos de precio fijo y creación de libros.

Diseño/metodología/enfoque: Los datos se recopilaron del sitio web de la NSE (Bolsa Nacional de Valores) y se analizaron utilizando métricas como los rendimientos anormales, que se calculan para analizar si las OPI están infravaloradas, sobrevaloradas o justamente cotizadas y se realizó una regresión para verificar si hay alguna relación entre la edad, el tamaño de la oferta pública inicial y las participaciones del promotor en la empresa después de la oferta pública inicial con las ganancias del día de cotización o las ganancias a corto plazo de la oferta pública inicial.

Recomendaciones: Se descubrió que las OPI indias están infravaloradas y, por lo tanto, dejan dinero sobre la mesa para el emisor de estas OPI. Del análisis de regresión se observa que no existe una relación significativa entre factores como la antigüedad de la empresa, la participación de los promotores en la empresa y el tamaño de la oferta pública inicial con los rendimientos de los días de cotización y el periodo de 10 días de rendimiento de la empresa. salida a bolsa

Investigación, implicaciones prácticas y sociales: Aunque la mayoría de los investigadores creen que las OPI suelen verse afectadas por períodos cálidos y fríos o tendencias bajistas-alcistas, estamos tratando de determinar la eficacia del método de creación de libros para las OPI después de la pandemia en India. El estudio utiliza herramientas como Anormal Mean Return (AMR) y Regresión para analizar el precio de la OPI, los rendimientos totales a los 10 días de cotización de las OPI y después, el rendimiento del mercado durante el mismo período y la relación de estos rendimientos con otros. variables como el tamaño, la propiedad y la participación del promotor en la empresa para determinar si tienen algún impacto significativo en estos rendimientos.

Originalidad/valor: La valoración justa de una oferta pública inicial podría ser la razón de su éxito y la sobrevaloración y la infravaloración pueden conducir a su fracaso y provocar enormes pérdidas monetarias. La investigación actual sobre IPO es significativa en el sentido de que contribuye a aclarar el concepto de IPO a través de la literatura y sus valoraciones a través del análisis que se basa en rendimientos anormales y regresión.

Palabras clave: Valoración, Salidas a Bolsa, Rentabilidad de Mercado, Participaciones de Promotor.

INTRODUCTION

Initial public offering is a financial arrangement wherein the shares of a private company are offered for sale to the general public for the first time. The price at which the shares are offered to the public for sale is either decided by the investment bank responsible for the IPO, called a Fixed Price issue or the investment bank decides a floor price and ceiling price based on extensive research and valuation methods and ultimately the general public decides the price of the share, known as Book building method. Most of the IPO in India are introduced using the book building method. Correct valuation of an IPO can be the reason for its success while overpricing or underpricing may lead to the failure of an IPO with huge monetary losses. Performance of a stock is determined by the returns generated by it. It can be calculated for a short or a long period depending upon the type of investor. The performance of a stock is not solely determined by the performance of the underlying company but also depends on the overall industry performance, the prevalent rate of inflation, interest rate of loans and government bonds, and many other macro-economic factors. IPO markets saw a boom in the post-Covid period with shares trading for as high as twice their IPO value by the end on their listing day (Indigo Paints +110.00%) while up-till April, 2021 merely 6 companies showed negative listing day gains.

Intern. Journal of Profess. Bus. Review. | Miami, v. 8 | n. 5 | p. 01-12 | e0700 | 2023.

3

LITERATURE REVIEW

Loughran and Ritter (2002) observed that the listing day gains for IPOs in USA were very high implying that the IPOs were undervalued leaving as much as twice the money paid to the investment banks as a fee on the table. They also gave an explanation why the IPOs are undervalued and how rising markets after a fall are more prone to this phenomenon than falling markets. Amitosh and Bhaskaran (2004) found that even though most IPOs are undervalued by about 10%, in the sample of IPOs of 2000 companies from the year 1980 to 2000, the median IPOs were significantly overvalued based on industry peer pricing multiples. The magnitude of overvaluation is usually between the range of 14% to as high as 50%. Ajay, Parvinder and Ruchi (2008) studied and reported the effects of phenomena such as a bullish or bearish trend in the markets, and hot or cold periods on the performance of an IPO. Kumar (2008) examined the efficiency of book building method as the means of issuing an IPO considering the total cost the issuers have to borne for raising the funds. Using a sample of Indian IPOs that were issued on the capital markets in 2003–2007, the article seeks to evaluate the effectiveness of IPO issuance procedures while accounting for all costs incurred by issuers, including both direct and indirect costs. It is noted that from a total cost perspective, issuers are neither better nor worse off if they use bookbuilds or fixed price offers under the old system, thus, issuers with fixed price offers are better placed now than they were under the old system, when top managers could make discriminatory allocations. Our results also showed that the expense associated with book construction is higher than the cost associated with fixed price quotations after controlling for issue size and company specifics. They do not lead to higher emissions revenues. Finally, there are the costs for the services of the US senior managers of those of the Indian senior directors. Sabarinathan.G (2010) reported the evolutions in the IPOs markets as a result of regulatory developments and establishment on SEBI. This article is based on the supposition that a better knowledge of the phenomena inside the IPO market may result from knowing the evolution of IPOs since the establishment of SEBI (Securities Exchange Board of India). The study also makes an effort to link changes in issuer profiles to legally binding events that may have an impact on the characteristics of issuers and issuances. Seshadev Sahoo and Prabina Rajib (2010) reported that the listing day performance of an IPO only seems straight forward as to IPOs being underpriced however the post-performance of the IPO is significantly correlated to the measurement of its performance. They observed that the IPOs underperform for one year and then improve their performance in the subsequent years. Giordano M. Cogliati, Stefano Paleari & Silvio Vismara (2011) reversed engineered the value of the shares of a

Intern. Journal of Profess. Bus. Review. | Miami, v. 8 | n. 5 | p. 01-12 | e0700 | 2023.

4

company and the infer growth expectations of going public using discounted Cash Flow modelling since neither sell-side analyst projections nor private information are necessary. Chok and Qian (2013) theorized that the industry background of the senior executives have a significant impact on the amount of capital that can be raised from the capital markets as the executive's industry background influences the expectation from the investors towards the company. They concluded that the investors prefer that the investment strategies of the company should be based on the industry background of the executives. They made an economic model to test the validity of this relationship and observed that there is a positive relationship between the capital raised with the number of executives with a related industry background for which the funds were being acquired and a negative relationship with executives with other industry backgrounds. Sanjay Sehgal and Bhushan Kumar Sinha (2013) examined the fundamental factors associated with IPOs that result in short-run underpricing and the impact mispricing has on the under-writing investment bank. They examined data from 432 new IPOs between April 2001 and December 2011 and found that four other factors—corporation size, investors' sentiment, funding banks' popularity description—as well as five others—the number of times an IPO issue was subscribed, the number of uses IPOs' proceeds, Listing Delay, Industry PE ratio, and dummy for groups representing new economies—are all significantly associated with the IPOs' short-term preliminary returns. Devarajappa and Tamragundi (2014) reported that the returns associated with an IPO are not solely determined by the performance of the company issuing the IPO but also by the speculators and other external forces. Joshy and Sobhesh (2015) documented the efficiency in pricing an IPO considering the grading of the IPOs by some of the certification mechanisms. The research examined the marketplace effect of a completely unique IPO certification currently brought in India - obligatory grading of IPOs through a credit score agency. The grading became predicted to enhance the IPO pricing performance through presenting complete issue associated records to the marketplace, specifically to the retail buyers. The outcomes imply that grading has handiest a restricted impact at the IPO call for of retail and institutional buyers. The low-grade troubles seem to have weaker call for from buyers relative to the ungraded IPOs. But there is no proof to aid IPO pricing development because of the advent of IPO grading. This is opposite to the proof suggested through a few in advance studies. This indicates the failure of grading as an IPO certification. Sweety and Disha (2016) reported that between 2010 and 2015, in a sample of 113 IPOs, on an average the listing day gains of most of the IPO were significantly positive. The mean of these positive gains was reported as 7.19%. Sanjay and Ravinder (2017) examined

Intern. Journal of Profess. Bus. Review. | Miami, v. 8 | n. 5 | p. 01-12 | e0700 | 2023.

5

the impact of quality certification of IPOs due to the company executive's reputation, credit rating provided by credit rating agencies, presence of anchor investors and the reputation of auditors on the level of IPO performance. Narang (2017) examined the macro-economic factors that affect the performance of the IPOs in the short and long run. He explained the correlation between multiple macro-economic factors and returns of an IPO. The research investigated the short and long run equilibrium relationship between the external factors and also the mercantilism for United Kingdom market over the amount of 1996 to 2016, so as to provide: i) however economics conditions influence IPOs activities and ii) how long the results last (shock). The results of the correlation analysis show that the hypothesis that the business cycle, volatility and rate of interest have informative power for the quantity of IPOs is supported by empirical proof. On the opposite hand, we tend to found no evidence that the stock market come back affects the mercantilism activities. Thonse et.al (2018) examined the performance of the IPOs on listing days and the after-market performance in the long run to conclude that Book-built IPOs are more undervalued than fixed price issues. While the cumulative abnormal average return (CAAR) becomes positive for fixed-issue IPOs after a year and half, CAAR for book-built IPOs can remain negative for more than 5 years. Manu and Chhavi Sani (2020) reported that Indian IPOs are usually undervalued in the short term and that the performance of the IPO doesn't depend on the fundamental factors like size of the issue, sector and age of the company or the shareholding of the promoters. Short-term investors struggle to make investment decisions. Due to the VUCA (Volatility, Uncertainty, Complexity, and Ambiguity) in relation to potential changes in security price, investors view investing in securities as a risky option. Performance of various companies after their initial public offerings (IPOs) in 2017 using the Event Study methodology. The study finds a number of variables that affect how these IPOs evolve over the short term and attempts to identify whether these IPOs are below the short-term pricing. The study found that approximately 70 percent of the IPOs selected are below the short-term price and the movement of these short-term IPOs is not influenced by the age of the company, the size of the IPO issue, the real estate industry, and the development of the developer stakes after the problem. Recently, in Varima, Karim and Ahmed (2023) explored the COVID-19 pandemic and oil price model. Their findings demonstrated that the Covid-19 epidemic has an impact on oil prices in addition to those caused by the commodity itself. Furthermore, over the five years period, from 2016 to 2020, Krishnan and Periasamy (2022) investigated the effectiveness of the Indian stock market. They discovered that the stock market

Intern. Journal of Profess. Bus. Review. | Miami, v. 8 | n. 5 | p. 01-12 | e0700 | 2023.

6

was efficient in its somewhat strong form and that investors were unable to earn returns above those announced by the Nifty IT index for dividends.

MATERIAL AND METHODOLOGY

(a) Research Objectives

(i) To study the post IPO performance of a company.

(ii) To evaluate the fairness of the IPO prices of all selected firms

(iii) To analyze the influence of selected variables such as company's age, total issue size of the IPO, and the promoter's holdings after the issue on the total returns on the listing day and 10 days after listing of the selected IPOs.

(iv) To find the difference among mean abnormal returns and the total returns of selected Indian IPOs

(b) Research Hypothesis

H_1: Indian IPOs are overpriced.

H_2: There exists noteworthy impact of selected variables such as company's age, total issue size of the IPO and the promoter's holdings after the issue on the total returns on the listing day and 10 days after listing of the selected IPOs.

H_3: There is a significant difference among the mean abnormal returns and total returns on listing day and on +10 day of selected Indian IPOs.

(c) Model Specification

The study analyzes the data using the following metrics:

(i) **Abnormal Returns**: Abnormal Returns is calculated in order to analyze if the IPOs are underpriced, overpriced or fairly priced.

Total Return on First Day = (First Day's Closing Price − Issue Price) /Issue Price × 100

10th Day Return = (10th day's closing price- Issue Price) / Issue Price × 100

10th Day Market Return= (10th day's market's closing value − closing value of the market on the last listing day) / Issue Price × 100

Abnormal Return = (10th Day Return of IPO – 10th Day Market Return)

"Abnormal Return positive": IPO is underpriced
"Abnormal Return zero": IPO is fairly priced
"Abnormal Return negative"   : IPO is overpriced

Intern. Journal of Profess. Bus. Review. | Miami, v. 8 | n. 5 | p. 01-12 | e0700 | 2023.

7

(ii) **Regression:** Regression has been performed to check if there is any significant relationship among the Age, Size of IPO and promoter holdings in the company after the IPO with the listing day gains or short-term gains of the IPO.

RESULTS AND DISCUSSION

Table 1: Table showing Analysis of Abnormal Mean Returns

Name of the company	Listing Day Gains	10 Day Return	10th Day Market Return	Abnormal Returns	Analysis
Indian Railway Finance Corporation Limited	-4.23%	-2%	4%	-6%	Overpriced
Indigo Paints Limited	75.00%	75%	7%	69%	Underpriced
Home First Finance Company India Ltd.	19.46%	-2%	8%	-10%	Overpriced
Brookfield India Real Estate Trust	2.44%	-10%	-1%	-9%	Overpriced
Nureca Limited	53.75%	58%	0%	58%	Underpriced
MTAR Technologies Limited	82.61%	77%	-3%	80%	Underpriced
Easy Trip Planners Limited	13.50%	6%	-4%	10%	Underpriced
Craftsman Automation Limited	-8.79%	-3%	1%	-4%	Overpriced
Laxmi Organic Industries Limited	19.62%	49%	1%	48%	Underpriced
Nazara Technologies Limited	80.74%	49%	-2%	51%	Underpriced
Barbeque Nation Hospitality Limited	-2.03%	27%	-1%	28%	Underpriced
Macrotech Developers Limited	-10.29%	23%	-3%	26%	Underpriced
MEAN	**26.81%**	**28.91%**	**0.53%**	**28.39%**	

Source: National Stock Exchange Website

A total of twelve new IPOs were issued during the period under observation. Eight of the IPOs of 8 IPOs was positive and the average return was 28.91%. Eight out of twelve IPOs in the period showed had positive listing day gains with the mean return being 26.81%. The 10 days return of a total positive abnormal return implying they were underpriced while only 4 were overpriced and zero IPOs were fairly valued. A portfolio of only the IPOs issued during the period under observation with each share being held for only 10 days from its listing day would have a generated a return far superior to the shares of market index NSE Nifty-50 held for the same duration as the mean market return was a nominal 0.53% as compared to 28.91% in case of the new IPOs.

The companies that gave positive listing day gains did not necessarily had positive returns after 10 days thus it can be concluded that just because the listing day gains are high it doesn't guarantee positive short term gains.

Intern. Journal of Profess. Bus. Review. | Miami, v. 8 | n. 5 | p. 01-12 | e0700 | 2023.

8

Table 2: Table showing the details of selected variables, listing and normal gains

Sl. No.	Name of the company	Age of the Company (years)	Size of IPO (in crores)	Promoters Holdings	Listing day gains	10 Days Normal Gain
1	Indian Railway Finance Corporation Limited	34	3100	86.36	-4.23%	-2%
2	Indigo Paints Limited	21	1176	54	75.00%	75%
3	Home First Finance Company India Ltd.	11	265	20.26	19.46%	-2%
4	Brookfield India Real Estate Trust	1	3800	54.37	2.44%	-10%
5	Nureca Limited	5	100	70	53.75%	58%
6	MTAR Technologies Limited	51	596.41	50.25	82.61%	77%
7	Easy Trip Planners Limited	13	510	74.9	13.50%	6%
8	Craftsman Automation Limited	35	150	59.76	-8.79%	-3%
9	Laxmi Organic Industries Limited	32	600	72.92	19.62%	49%
10	Nazara Technologies Limited	22	568.91	20.7	80.74%	49%
11	Barbeque Nation Hospitality Limited	15	180	35.7	-2.03%	27%
12	Macrotech Developers Limited	41	2500	88.5	-10.29%	23%

Source: National Stock Exchange Website

Of all the companies that launched an IPO in the observed period, Brookfield India Real Estate Trust is the youngest company, with one year of age, has the least 10-day gain while MTAR technologies is the oldest company with the age of 51 years has rewarded investors with the most listing day gains as well as 10 days normal gains. In case of size of an IPO, Nureca had the smallest IPO and gave more than 50% return as listing day gains as well as 10-day normal gain while Brookfield India with the largest IPO had given only 2.44% as listing days return and a negative 10% return as 10 days normal gains. Companies with more than 50% of the shareholding with promoters gave a mean listing day return of 24.84% and mean 10-day normal return of 30% whereas companies with less than 50% promoter's holdings gave mean return of 32.72% and 25% for listing day and 10 days normal gains respectively. Therefore, it may be concluded from the data observed in the above that older companies with a small IPO size and less than 50% share as promoter's shareholding will outperform IPOs of companies that are new, have a large IPO size and majority proportion of shares in the form of promoter's holdings.

Intern. Journal of Profess. Bus. Review. | Miami, v. 8 | n. 5 | p. 01-12 | e0700 | 2023.

9

Table 3: Table showing the regression results

SUMMARY OUTPUT								
Regression Statistics								
Multiple R	0.488							
R Square	0.238							
Adjusted R Square	-0.047							
Standard Error	0.370							
Observations	12							
ANOVA								
	df	*SS*	*MS*	*F*	*Significance F*			
Regression	3	0.343	0.114	0.835	0.511			
Residual	8	1.096	0.137					
Total	11	1.439						
	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.573	0.312	1.838	0.103	-0.146	1.293	-0.146	1.293
Age of the Company (years)	0.004	0.008	0.557	0.592	-0.014	0.022	-0.014	0.022
Size of IPO (in crores)	0.000	0.000	-0.583	0.576	0.000	0.000	0.000	0.000
Promoters Holdings	-0.006	0.006	-1.050	0.324	-0.019	0.007	-0.019	0.007
# No significant relationship between Age, Size and promoter holdings with listing day gains								

The statistical model for listing days gains made using regression has 0.24 as the R-square value and P-values of more than 0.05 for all the factors selected. This implies that the factor selected do not have a significant relationship with the listing day gains. Out of the three selected fundamental factors, Promoter's shareholding after the IPO has the most significant relationship with the listing day gains. The statistical model for 10-day normal gains made using regression has 0.23 as the R-square value and P-values of more than 0.05 for all the factors selected.

CONCLUSION

It has been observed from the calculations that most of the IPO offered in the period under observation have positive short-term gains implying they are underpriced. Therefore, it can be concluded that Indian IPOs are undervalued and thus leave money on the table for the issuer of these IPOs. From the regression analysis it is observed that there is no significant relationship between the factors such as age of the company, promoters holding in the company and the size of the IPO with the listing day's returns and the 10-day period return of the IPO. From the factors considered, 'Share of promoter's holdings' have the most significant effect on the gains among the other factors. However, the data is limited to the period under observations and thus may yield different result for different periods. Also, the analysis is mainly based on monetary information only and some non-monetary information is ignored.

REFERENCES

Amiyatosh K. Purnanandam, Bhaskaran Swaminathan (2004). Are IPOs Really Underpriced? *The Review of Financial Studies*, 17(3):811–848, https://doi.org/10.1093/rfs/hhg055

Chok J, Qian J (2013). Do Executives' Backgrounds Matter to IPO Investors? *Evidence from the Life Science Industry,* 8(5), https://doi.org/10.1371/journal.pone.0060911

Cogliati, G.M., Paleari, S. & Vismara, S (2011). IPO pricing: Growth Rates Implied in Offer Prices, *Ann Finance*, 7: 53–82, https://doi.org/10.1007/s10436-010-0170-6

Devarajappa, S., Tamragundi, D (2014). Post issue performance of IPOs in India: An empirical study, *ERPA International Journal of Economic and Business Review,* 2(8):65–70, http://epratrust.com/articles/upload/10.Devarajappa.pdf?

Dhamija S, Arora RK(2017). Impact of Quality Certification on IPO Underpricing: Evidence from India*, Global Business Review,* 18(2):428-444, https://dio.org/10.1177/0972150916668611

Disha M., Sweety (2016). Initial Performances of IPOs in India: Evidence from 2010-14, https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2708995

Garg, Ajay and Arora, Parvinder Kumar and Singla, Ruchi(2008) IPO Underpricing in India, *Icfai Journal of Applied Finance,* Volume 14(3):33-42, https://ssrn.com/abstract=1097398

Hawaldar, T., Naveen Kumar, K. R., Mallikarjunappa, T(2018). Pricing and performance of IPOs: Evidence from Indian stock market, *Cogent Economics & Finance,* 6:1–20, https://doi.org/10.1080/23322039.2017.1420350

Jacob J, Agarwalla SK(2015). Mandatory IPO Grading: Does it Help Pricing Efficiency? *Vikalpa.* 40(2):132-144, https://doi.org/10.1177/0256090915592104

Karim, A. J. M., & Ahmed, N. M. (2023). Vector Autoregressive Integrating Moving Average (Varima) Model of COVID-19 Pandemic and Oil Price. *International Journal of Professional Business Review*, *8*(1), 13.

Intern. Journal of Profess. Bus. Review. | Miami, v. 8 | n. 5 | p. 01-12 | e0700 | 2023.

11

Krishnan, P., & Periasamy, M. N. (2022). Testing of Semi–Strong Form of Efficiency: an Empirical Study on Stock Market Reaction Around Dividend Announcement. *International Journal of Professional Business Review*, *7*(2), e0483-e0483.

Kumar, S.(2008). Is Book building an Efficient IPO Pricing Mechanism? - The Indian Evidence, *21st Australasian Finance and Banking Conference Paper*, https://ssrn.com/abstract=1252982 or http://dx.doi.org/10.2139/ssrn.1252982

Tim Loughran & Jay R. Ritter (2002). "Why Don't Issuers Get Upset About Leaving Money on the Table in IPOs?," Review of Financial Studies, Society for Financial Studies, 15(2):413-444, http://dx.doi.org/10.2139/ssrn.331780

Manu ,K.S., Saini, Chhavi(2020). Valuation Analysis of Initial Public Offer (IPO): The Case of India, https://doi.org/10.1177/0971890720914100

Narang, S(2017). A model of relationship between IPOs activity and GDP growth rate, *International Journal of Commerce and Management Research,* 3(6):65–68, http://aeconf.com/Articles/May2018/aef190114.pdf

S, Seshadev., R. Prabina(2010). After Market Pricing Performance of Initial Public Offerings (IPOs): Indian IPO Market 2002–2006, https://doi.org/10.1177/0256090920100403

Sabarinathan, G (2010). Attributes of companies making IPOs in India-some Observations, *IIM Bangalore Research Paper No. 323*, http://dx.doi.org/10.2139/ssrn.2122354

Sehgal, Sanjay., Sinha, Bushan Kumar (2013), Valuation of IPOs in India-An Empirical study, http://dx.doi.org/10.5296/ber.v3i2.4585