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AN EMPIRICAL ANALYSIS OF ARBITRAGE OPPORTUNITIES IN NSE NIFTY FUTURES

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ABSTRACT

A Derivative contract derives its value from the performance of an underlying entity which can be an asset, index, or interest rate. Derivatives can be used for hedging, increasing exposure to price movements for speculation or getting access to otherwise hard to trade assets or markets. In this study we have analysed the relation between "Arbitrage Profit per Contract" and "Number of Contracts traded on a day". "Days to Maturity of the contract" and "Change in Open Interest on a day". The analysis has been based on 90 days Nifty Futures Contracts expiring on 29th Dec 2016; 25th January, 2017 and 23rd February, 2017. Pearson's product-moment correlation has been applied at 95% level of significance and a two-tailed T-test has been administered. The results suggested a significant negative correlation with the number of days till maturity and no significant correlation with change in open interest.

KEYWORDS

arbitrage, correlation, derivatives, hedging, Nifty futures contract.

INTRODUCTION

erivatives can be used for insuring against price movements (hedging), increasing exposure to price movements for speculation or getting access to otherwise hard to trade assets or markets. The most common underlying assets include commodities, stocks, bonds, interest rates and currencies. The underlying asset does not have to be acquired. Derivatives therefore allow the breakup of ownership and participation in the market value of an asset.

In June 2000, the Bombay Stock Exchange (BSE) launched the first exchange-traded index derivatives contract in India, i.e., futures on the capital market benchmark index—the BSE Sensex. BSE commenced trading in index options on Sensex in June 2001. Stock options were introduced on 31 stocks in July 2001 and Single Stock Futures were launched in November 2002. The National Stock Exchange (NSE) commenced trading in derivatives with the launch of index futures in June 2000. In the futures and options segment, trading in CNX Nifty index, CNX IT index, Bank Nifty index, Nifty Midcap 50 index and single stock futures are available. In August 2008, currency derivatives were introduced in India with the launch of currency futures in USD/ INR by NSE. It also added currency futures in Euros, pounds and yen. Only the NSE and the BSE have been permitted to trade in equity derivatives contracts. Derivative instruments were issued in India not only in index product but also at individual stock level. The need of the derivative instruments was felt in India post liberalization because derivatives trading provide various benefits such as risk management, price discovery, operational advantage, market efficiency and opportunity to speculate. Introduction of risk management instruments in India has gained momentum in the last few years, thanks to Reserve Bank of India's efforts in allowing forward contracts, cross currency options, etc. which have developed into a very large market.

Futures contract is one of the variants of derivative contracts. Futures contract is an agreement between two parties to buy or sell an asset at a certain time in the future for certain agreed price. The certain agreed price is called futures price. To make trading possible, the exchange specifies certain standardized features of the contract. As the two parties to the contract do not know each other, the exchange provides a mechanism that gives the two parties confidence that the contract will be honoured.

One of the parties to a futures contract assumes a long position and agrees to buy the underlying asset on a certain specified future date for a certain agreed price. The other party assumes a short position and agrees to sell the asset on the same date for the same price. Long futures give the profit to the trader if the value of the underlying asset on the maturity date is more than the futures price. Short futures give the profit to the trader if the value of the underlying asset on the maturity of the futures contract is less than the futures price. The underlying asset may be individual stock, stock market index, foreign currency, commodities, gold, silver, fixed-income securities. The profit to the trader acquiring long position in the futures price to the underlying asset at expiration minus futures price. The profit to the trader acquiring short position in the futures price minus value of the underlying asset at expiration.

LITERATURE REVIEW

Put/call parity was developed by Stoll (1969) to establish a relationship between the prices of put and call options. While recognizing that "real world" factors like transactions costs and taxes could affect the results, Stoll tested two sets of data and concluded that the theory was reasonably valid. Klemkosky and Resnick (1979) attempted to correct some of the previously noted deficiencies with the put/call parity theory by recognizing changes in the structure of the options markets and incorporating a dividend term in the basic model. Out of 540 long hedges tested, 234 were profitable, and 324 out of 592 short hedges tested were profitable. Transactions costs were then added, but profitable hedges still occurred, the number decreasing as the level of transactions costs increased. The authors nevertheless concluded that their tests were consistent with put/call parity. Brenner and Galai (1986) tested put/call parity by using option price data and calculating the implied interest rate. The authors conclude that implied rates track well with market rates, but they also acknowledge that short positions apparently are not treated the same as long positions and that the probability of early exercise is likely to cause significant deviation of the implied interest rates. Chance (1988) used index call options to minimize the dividend effect and bid-ask market maker quotes to reflect the prices available to the general investing public. The Treasury bill rate was again assumed to be the relevant interest rate. Few violations of put/call parity were noted, and the majority of them were on options deep-in-the-money options with short maturities. Frankfurter and Leung (1991) extended the work of Brenner and Galai by increasing the size of the data set but restricting the data set to calls where the stock price was within 15% of the strike price. They concluded that the implied interest rates are poor proxies for the risk-free rate. They also concluded that time to maturity, the absolute level of Treasury bill rates, the relationship of the exercise price to the underlying stock price, and individual stock characteristics affected the implied interest rates. Misra, Kannan & Misra (2006) tested the validity of put/call parity theorem in NSE Nifty futures taking the data from 2005-06. The results indicated that there is a violation of spot-futures parity relationship for many futures in case of NSE Nifty futures. The average arbitrage profit earned was Rs. 2422 per contract whereas maximum arbitrage profit of Rs. 8069 was possible in one of the futures. Another objective of this paper was to find out the factors behind the violation of spot-futures parity theorem. The different factors considered were: time to maturity; whether violation was

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more in rising markets or in declining markets; whether violation was more when theoretical futures price exceeds actual futures price or when actual futures price exceeds theoretical futures price; number of contracts traded; and change in open interest. The results of estimated regression models indicate that arbitrage profits were more: for far the month futures contracts than for near the month futures contracts; for undervalued futures market (relative to the spot market) than for overvalued futures market (relative to the spot market); for high liquid futures than for less liquid futures; when new contracts are added than when outstanding contracts are settled. **Ghose and Rathi (2016)** analyzed the Pearson's correlation between the Turnover (T/O) of BSE cash segment and derivatives segment, stock futures, index call options and index put options, stock call options and stock put options. The results reveal that derivatives do indeed facilitate transfer of risk and that this segment has gradually overtaken the cash segment in terms of T/O and that there is a correlation between the above mentioned parameters.

IMPORTANCE OF THE STUDY

There exists a deterministic relationship between spot and futures prices, irrespective of the investor demand for the futures. The theoretical spot-futures relationship can be developed to determine a futures price for a given spot price and other relevant information (risk-free rate, dividend yield and time to maturity). If the actual futures price differs from the theoretical price, there exists an arbitrage opportunity and an arbitrageur can set up a risk-less position and earn more than the risk-free rate of return. Speculators use index futures to bet on future movement in the price of the underlying asset. Arbitrageurs use index futures to take advantage of mispricing.

The futures and options (F&O) segment of NSE reported a total turnover of *Rs. 91312417.24 Crores* during 2016-17 as against *Rs.64825834.30 Crores* during 2015-16, as against *Rs.55606453.39 Crores* in 2014-15, and *Rs.38211408.05 Crores* in 2013-14 registering an average annual growth of 46.32% over the past three financial years. Considering the data from the year 2016-17, Index futures registered a turnover of *Rs.4204326.25* Crores, amounting to 4.6% of the total turnover in the F&O market.

This paper has been analysed from the point of view of arbitrageurs. The objective of this paper is to find out whether the spot-futures parity relationship holds in case of index futures in the Indian stock market. In the present market situation it is imperative to understand the above as many investors are considering Futures as a lucrative avenue. Thus this study aims to bring light to such investors the risks and rewards of investing in futures.

OBJECTIVES OF THE STUDY

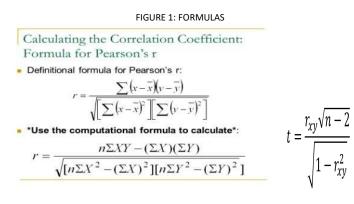
- 1. To investigate the validity of "Put-Call parity theorem" in NSE Nifty Futures and analyse the Arbitrage opportunities arising out of disparity in Nifty futures.
- 2. To analyze the relation between "Arbitrage Profit per Contract" and "Number of Contracts traded on a day".
- 3. To analyze the relation between "Arbitrage Profit per Contract" and "Days to Maturity of the contract".
- 4. To analyze the relation between "Arbitrage Profit per Contract" and "Change in Open Interest on a day".

RESEARCH METHODOLOGY AND DATA COLLECTION

The analysis has been based on 90 days Nifty futures Contracts expiring on 29th Dec 2016; 25th January, 2017 and 23rd February, 2017 which is the sample. The data is secondary and has been collected from www.nseindia.com. The spot-futures parity relationship has been verified using daily data on value of NSE Nifty; time to maturity for different futures contracts available for trading; and number of contracts traded for different futures contracts.

To verify the spot-futures parity relationship, the sample carrying one year time period from 30th September, 2016 to 23rd February, 2017 has been chosen. To analyze the correlation of the arbitrage profits with its possible explanatory parameters, "Karl Pearson's product-moment correlation" has been analyzed at 95% level of significance and using a two-tailed T-test.

Tabular and graphical analysis have been used to demonstrate the cause and effect relationship between: Arbitrage profit per contract and "number of contracts traded", Arbitrage profit per contract and "days to maturity of a contract".



RESULTS AND DISCUSSIONS

ANALYSIS 1: To investigate the validity of put-call parity theorem in NSE nifty futures & to analyze the arbitrage profits arising there off. It has been assumed that the Risk free rate of interest is SBI's Fixed Deposit account interest rate i.e. 5.5% per annum and each contract consists of 100 units of NSE Nifty Futures.

	TABLE 1:	ARBITRAGE	PROFITS
Arbitra	ge Profits (Rs.	per contract-	- per day)
Mean	Maximum	Minimum	Standard Deviation
1334	12754	11	1683

INTERPRETATION 1

In general, the Put-Call parity theorem seems to hold true, the average arbitrage profits per contract-per day are only Rs.1334 which is only 0.16% of the contract value. This small amount of arbitrage profit can be due to the existence of the transaction costs for the trade and occasional mispricing in the markets. The highest arbitrage profit that was possible during the period was Rs. 12754 being about 1.5% of the Contract value, this indicates that there is an occasional mispricing which can be taken advantage of by the arbitrageur. Further, the variation in the arbitrage profits is huge, with an absolute range of Rs. 12743 and a standard deviation of Rs.1683

ANALYSIS 2: To analyze the relation between arbitrage profit per contract and number of contracts traded. H₀: There is no statistically significant correlation between the arbitrage profits and the number of contracts traded in a day. H₁: There is a statistically significant correlation between the arbitrage profits and the number of contracts traded in a day.

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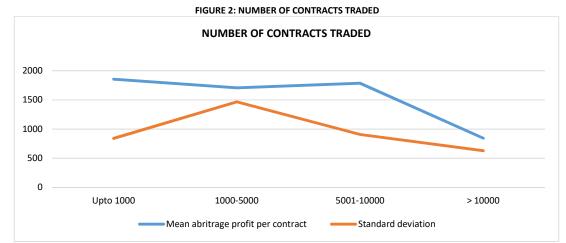
TABLE 2: CORRELATION ANALYSIS								
Particulars	Value							
Correlation coefficient:	-0.242							
Significant correlation coefficient:	-0.144							
T-Value:	-3.386							
Significant T Value:	-1.973							

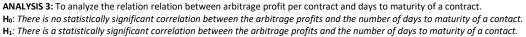
INTERPRETATION 2

As the test statistic exceeds the required t-value, we have sufficient evidence to reject H₀, thus there is a significant negative correlation between the number of contracts traded and the arbitrage profit per contract. So, we can conclude that the arbitrage profit per contract decreases when more number of contracts is traded in a day. This is because, as the volume of trade increases, the market efficiency also increases, so the opportunities for arbitrage diminish. The table and graph also show expected results, as the number of contracts traded per day increase, the arbitrage profit per contract reduces. Also, there is a decreasing trend in the standard deviation; this can be interpreted as enhanced market efficiency due to increased volume of trade.

TABLE 3: NUMBER OF CONTRACTS BASED ANALYSIS

NUMBER OF CONTRACTS TRADED		Arbitrage Profits Per Contract (Rupees)						
Mean	Mean	Maximum	Minimum	Standard Deviation				
Up to 1000	1854	9739	426	839				
1000-5000	1706	12754	66	1468				
5001-10000	1784	10347	142	908				
> 10000	842	3069	11	629				
Overall	1334	12754	11	1683				





Particulars	Value
Correlation coefficient:	0.304
Significant correlation coefficient:	0.144
T-Value:	4.322
Significant T Value:	1.973

TABLE 4: CORRELATION ANALYSIS

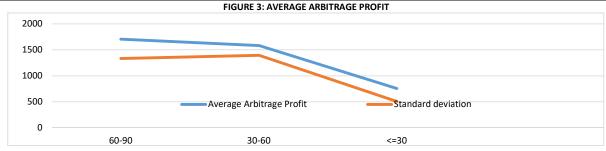
INTERPRETATION 3

As the test statistic exceeds the required t-value, we have sufficient evidence to reject H₀. Thus, there is a significant positive correlation between the number of days to maturity of a contract and the arbitrage profit per contract. So, we can conclude that the arbitrage profit per contract decreases when fewer days to maturity are remaining. This is because, as the contract gets nearer to its maturity, volume of trade increases, the market efficiency also increases, so the opportunities for arbitrage diminish. There might be other possible reasons for this relationship. The table and graph also show expected results, as the number of days to maturity reduces, the arbitrage profit per contract reduces. Also, there is a decreasing trend in the standard deviation, which can be interpreted as enhanced market efficiency due to increased volume of trade as contract gets closer to its maturity date.

TABLE 5: NOWBER OF DAYS TO MATURITY BASED ANALYSIS												
Number of Days to Maturity	Arbitrage Profits Per Contract (Rupees)											
	Mean	Maximum	Minimum	Standard Deviation								
60-90	1707	11706	66	1335								
30-60	1584	12755	84	1394								
<=30	756	2968	11	507								

TABLE 5: NUMBER OF DAYS TO MATURITY BASED ANALYSIS

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ANALYSIS 4: To analyze the relation between arbitrage profit per contract and open interest in the market. H₀: There is no statistically significant correlation between the arbitrage profits and open interest in the market. H₁: There is a statistically significant correlation between the arbitrage profits and open interest in the market.

TABLE 6: CORRELATION ANALY	'SIS	
Particulars	Value	
Correlation coefficient:	0.004	
Significant correlation coefficient:	0.144	
T-Value:	0.063	
Significant T Value:	1.973	

INTERPRETATION 4

As the test statistic does not exceed the required t-value, we do not have sufficient evidence to reject H₀. Thus, there is no significant correlation between the open interest in the market and the arbitrage profit per contract.

FINDINGS AND CONCLUSION

The results indicate that, in general, the put-call parity theorem seems to hold true, the average arbitrage profits per contract-per day is only Rs.1334 which is only 0.16% of the contract value. This small amount of arbitrage profit can be accounted for by the transaction costs for the trade and occasional mispricing in the markets. The highest arbitrage profit that was possible during the period was Rs.12754 being about 1.5% of the Contract value, indicating that there is an occasional mispricing which can be taken advantage of by the arbitrageur. Further, the variation in the arbitrage profits is huge, with an absolute range of Rs.12743 and a standard deviation of Rs.1683. The results suggested a significant negative correlation with the number of contracts traded, a significant positive correlation with the number of days till maturity and no significant correlation with change in open interest. Thus arbitrage opportunities have diminished over the years, as volume has increased, and market efficiency has improved.

FURTHER SCOPE OF RESEARCH

To analyze the various sources of arbitrage profits and their effects, a regression can be performed. There are various other factors responsible for the variation in arbitrage profits, than those considered by the study. This indicates that there is a further scope of research in this area, to find out the various other factors that affect the arbitrage profits per contract. Also the sample can be extended beyond the time period and types of futures.

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ANNEXURE

						TABLE 1: NUM	MBER OF CONTRAC	CTS					
Date	Expiry	Settle	Turnover	Open	Change	Average	Theoretical Fu-	Arbitrage	No. of con-	<1000	1000-	5000-	10000
		Price	in Lacs	Int	in Ol	Spot Rate	tures Price	Profit	tracts		5000	10000	+
30- Sep-16	29- Dec-16	8728.3 5	11035.1	69825	69825	8611.15	8725.586689	276.3311	1688	0	276.33 1132	0	0
3-Oct- 16	29- Dec-16	8874.0 5	12070.45	14670 0	76875	8738.1	8850.328231	2372.177	1822	0	2372.1 7691	0	0
4-Oct- 16	29- Dec-16	8896.7 5	7204.03	17812 5	31425	8769.15	8880.474277	1627.572	1081	0	1627.5 7228	0	0
5-Oct- 16	29- Dec-16	8872.9 5	10303.81	21667 5	38550	8743.95	8853.655552	1929.445	1548	0	1929.4 4483	0	0
6-Oct- 16	29- Dec-16	8828.3 5	8270.94	22792 5	11250	8709.55	8817.530442	1081.956	1244	0	1081.9 5585	0	0
7-Oct- 16	29- Dec-16	8819.0 5	5446.33	23550 0	7575	8697.6	8804.140738	1490.926	824	1490.9 2618	0	0	0
10- Oct-16	29- Dec-16	8835.4	2837.89	23482 5	-675	8708.8	8811.599436	2380.056	428	2380.0 5635	0	0	0
13- Oct-16	29- Dec-16	8678.8	17538.84	33082 5	96000	8573.35	8670.73408	806.592	2687	0	806.59 196	0	0
14- Oct-16	29- Dec-16	8699.5	7435.66	33907 5	8250	8583.4	8679.624956	1987.504	1141	0	1987.5 0442	0	0

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16- Nov- Dec 16 29- Dec 16 8167.6 87271.13 17233 50 1500 8111.6 8162.925961 467.4039 14177 0 0 0 467.4 039 17- Nov- Dec 16 29- Dec 16 8141.1 87535.86 17796 56250 8079.95 819.883061 1121.694 14296 0 0 0 1121. 694 694 16 29- 16 8121.2 109433.3 21486 369000 8074.1 8122.805311 1555.51 17933 0 0 0 372.89 16 7977.1 390080 49140 276540 7929.1 7973.421064 372.8936 64886 0 0 0 372.89 16 7 8004.7 5275.9 91873 24958 8033.3 8075.8392 1113.392 86545 0 0 0 1113.392 16 9 100 10 15015 528210 7965.5 8006.500403 659.9577 184219 0 0 0	Nov-			111851.3		328875	8108.45	8160.953048	3069.695	18108	0	0	0	
17- Nov- 16 29- Dec-16 814.1.1 8733.86 1776 00 5620 00 8079.95 8129.883061 1121.694 14296 0 0 0 1521. 164 18- 00 29- C 812.2 109433.3 21486 369000 8074.1 8122.805311 155.5311 1793 0 0 0 311 16 0 0 275.40 797.1 390080 49140 276540 7929.1 7973.421064 372.8936 6486 0 0 0 372.8936 22. 29- 6 804.9 410078.2 66915 177750 8002.3 8045.84992 89.99177 68215 0 0 0 89.999 76 - 8064.7 522755.9 918.73 24958 8006.500403 659.9597 18219 0 0 0 659.9597 24- 75 29- 810.4 8126.4 659.9597 18219 0 0 0 659.9597 76 - 53 <t< td=""><td>16- Nov-</td><td></td><td>8167.6</td><td>87271.13</td><td></td><td>15000</td><td>8111.6</td><td>8162.925961</td><td>467.4039</td><td>14177</td><td>0</td><td>0</td><td>0</td><td></td></t<>	16- Nov-		8167.6	87271.13		15000	8111.6	8162.925961	467.4039	14177	0	0	0	
18- Nov- bc 29- bc 8121.2 5 109433.3 (16) 21486 (0) 36900 (0) 8074.1 8122.805311 155.5311 17933 0 0 0 155.5 311 21- bc 29- c 7977.1 39080 49140 276540 7929.1 7973.421064 372.8936 64886 0 0 0 872.8936 22- bc-16 5 41007.2 66915 177750 8002.3 8045.84992 89.9917 68215 0 0 0 873.99 23- bc 29- bc-16 8064.7 522755.9 91873 249585 8033.3 8075.83392 1113.392 86545 0 0 0 859.9 24- bc 29- bc 8013.1 1108297 15015 582810 7965.5 8006.500403 659.9597 184219 0 0 0 2852.00 25- bc 29- bc 8150.6 73322.5 14752 64950 8163.939587 1333.959 120167 0 0 0 2852.00	17- Nov-		8141.1	87535.86		56250	8079.95	8129.883061	1121.694	14296	0	0	0	
21- Nov- bec-16 29- bec-16 7977.1 5 39080 49140 0 276540 0 7929.1 0 7973.421064 372.8936 64886 0 0 0 372.8 936 22- Nov- bec-16 29- 6 804.9 410078.2 66915 177750 00 8002.3 8045.84992 89.9917 68215 0 0 0 89.99 197 23- Nov- bec-16 29- 6 8064.7 522755.9 91873 249585 8033.3 8075.83392 1113.392 86545 0 0 0 659.9 24- bf 29- 800-16 801.1 1108297 15015 58210 7965.5 8006.500403 659.9597 184219 0 0 0 659.9 25- bf 29- 8126.3 8126.3 98320.8 14147 -867825 8114.3 8154.87013 2852.001 162248 0 0 0 2852. 16 29- 8106.4 8172.0 8337.2.5 1475 604950 8163.939587 1333.959 120167 0 0 <td>18- Nov-</td> <td></td> <td></td> <td>109433.3</td> <td></td> <td>369000</td> <td>8074.1</td> <td>8122.805311</td> <td>155.5311</td> <td>17933</td> <td>0</td> <td>0</td> <td>0</td> <td></td>	18- Nov-			109433.3		369000	8074.1	8122.805311	155.5311	17933	0	0	0	
16 $ -$ <td>21-</td> <td></td> <td></td> <td>390080</td> <td></td> <td></td> <td>7929.1</td> <td>7973.421064</td> <td>372.8936</td> <td>64886</td> <td>0</td> <td>0</td> <td>0</td> <td></td>	21-			390080			7929.1	7973.421064	372.8936	64886	0	0	0	
Nov-16 Dec-16 5 Image: Constraint of the const	16													
Nov- 16 Dec-16 Res Sec.	Nov-			410078.2			8002.3	8045.84992	89.99197	68215	0	0	0	
24- Nov- 16 29- Dec-16 8013.1 1108297 15015 450 582810 0 7965.5 8006.500403 659.9597 184219 0 0 0 659.9 597 25- Nov- 16 29- 28- 28- 28- 29- 816- 8126.3 983208.8 14147 625 -867825 8114.3 8154.870013 2852.001 162248 0 0 0 2852. 001 28- 16 29- 16 8150.6 733722.5 14752 604950 8126.9 8163.939587 1333.959 120167 0 0 0 959 29- 16 8172.0 823352.8 15091 339375 8142.15 8178.059388 600.9388 134021 0 0 0 600.9388 30- 16 29- 16 8260.3 872663.4 1560 508200 8224.5 8259.560918 78.90821 141525 0 0 0 78.90 30- 16 29- 16 82102 505394.8 16102 501975 8192.9 8226.619381 1461.938 105075 0	Nov-		8064.7	522755.9			8033.3	8075.83392	1113.392	86545	0	0	0	
25- 29- 8126.3 983208.8 14147 -867825 8114.3 8154.870013 2852.001 162248 0 0 0 2852.001 16 5 733722.5 14752 604950 8126.9 8163.939587 1333.959 120167 0 0 0 0 950 950 29- 8172.0 823352.8 15091 339375 8142.15 8178.059388 600.9388 134021 0 0 0 0 600.9 29- 8172.0 823352.8 15091 339375 8142.15 8178.059388 600.9388 134021 0 0 0 600.9 388 30- 29- 8260.3 872663.4 15600 508200 8224.5 8259.560918 78.90821 141525 0 0 0 78.90 821 16 Dec-16 5 16102 501975 8192.9 8226.619381 1461.938 105795 0 0 0 78.90	24- Nov-		8013.1	1108297			7965.5	8006.500403	659.9597	184219	0	0	0	
28- Nov- 16 29- Dec-16 8150.6 733722.5 14752 575 604950 575 8126.9 8163.939587 1333.959 120167 0 0 0 0 1333.959 29- Nov- 16 29- Nov- 16 8172.0 823352.8 15091 339375 8142.15 8178.059388 600.9388 134021 0 0 0 600.9 388 30- 16 29- 16 8260.3 872663.4 15600 508200 8224.5 8259.560918 78.90821 141525 0 0 0 78.90 1-Dec-16 5 150 150 508200 8224.5 8259.560918 78.90821 141525 0 0 0 78.90 1-Dec-16 5 150 150 50175 8192.9 8226.619381 1461.938 105795 0 0 0 938 2-Dec-16 653494.8 16102 50175 8192.9 8226.619381 1461.938 105795 0 0 938 2-Dec-16<	25- Nov-			983208.8		-867825	8114.3	8154.870013	2852.001	162248	0	0	0	
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			8164.9	765064.8		-212850	8128.75	8157.417606	748.2394	125464	0	0	0	

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9-Dec- 16 29- Dec-16 8277 565814.4 17151 285975 8261.75 8286.02342 902.342 91161 0 0 0 12- Dec-16 29- Dec-16 8183.4 719832.2 16502 -648300 8170.8 8191.200783 780.0783 116984 0	0 0 0 0	0	902.3 42 780.0 783
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15- 29- 8173.0 1157661 15584 -996750 8153.6 8170.361589 268.8411 188405 0 0 0 Dec-16 Dec-16 5 400 -709500 8139.45 8154.986181 848.6181 107524 0 0 0 16- 29- 8146.5 657362.1 14874 -709500 8139.45 8154.986181 848.6181 107524 0 0 0 19- 29- 8124.1 390143.4 14570 -304275 8104.35 8116.246754 790.3246 63952 0<			282.3 711
16- 29- 8146.5 657362.1 14874 -709500 8139.45 8154.986181 848.6181 107524 0 0 0 19- 29- 8124.1 390143.4 14570 -304275 8104.35 8116.246754 790.3246 63952 0<		0	268.8
19- Dec-16 29- Dec-16 8124.1 5 390143.4 5 14570 625 -304275 625 8104.35 8116.246754 790.3246 63952 0 0 20- Dec-16 29- Dec-16 8099.9 634488.2 14405 925 -164700 8082.4 8093.077296 682.2704 104439 0 0 0 21- Dec-16 29- Dec-16 8080.6 471045.5 14274 -131700 8061.3 8070.765458 988.4542 77520 0 0 0	0	0	411 848.6
20- 29- 8099.9 634488.2 14405 -164700 8082.4 8093.077296 682.2704 104439 0 0 0 Dec-16 Dec-16 29- 8080.6 471045.5 14274 -131700 8061.3 8070.765458 988.4542 77520 0 0 0 Dec-16 Dec-16 5 225 - 0 <t< td=""><td>0</td><td>0</td><td>181 790.3</td></t<>	0	0	181 790.3
21- 29- 8080.6 471045.5 14274 -131700 8061.3 8070.765458 988.4542 77520 0 0	0	0	246 682.2
Dec-16 Dec-16 5 225	0	0	704 988.4
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Dec-16 Dec-16 5 600 137662	0	0	955.2 779
23- 29- 7995 836572.2 13605 707925 7985.75 7992.78153 221.847 139593 0 0	0	0	221.8
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	0	0	467.8 695
	0	0	0
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	1307.8 0662	0	0
2-Nov- 25- 8635.2 5558.34 11220 24525 8625.7 8732.640875 9739.087 857 9739.0	0	0	0
	11706.	0	0
4-Nov- 25- 8549.1 13848.74 22642 83325 8433.75 8535.806539 1329.346 2156 0	0003 1329.3	0	0
	4608 1301.1	0	0
	1063 1353.6	0	0
16 Jan-17 0 0 5	8594 2562.1	0	0
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Nov- Jan-17 5 5	2447.1 3345	0	0
16 -	3552.4	0	0
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	3841.0 9998	0	0
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Nov- Jan-17 5 5	1108.0 2571	0	U
16 -	1535.4	0	0
Nov- Jan-17 5 5	2852		
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21- 25- 8012.4 25281.24 71040 52200 7929.1 8005.062814 738.7186 4189 0 7	738.71 8598	0	0
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22- 1 25- 1 8076 1 17526 68 1 74047 1 30075 1 8002 3 1 8077 770006 1 177 0006 1 2004 1 0	9646	5	U
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24- Nov- 16	25-	0044.0											
	Jan-17	8044.9 5	24806.75	91192 5	93600	7965.5	8038.273425	667.6575	4107	0	667.65 745	0	0
25- Nov-	25- Jan-17	8154.3 5	23798.31	10074 75	95550	8114.3	8187.231825	3288.183	3912	0	3288.1 825	0	0
16 28- Nov-	25- Jan-17	8176.9	23353.32	10818 00	74325	8126.9	8196.337392	1943.739	3813	0	1943.7 3916	0	0
16 29- Nov-	25- Jan-17	8202.2	34478.91	10445 25	-37275	8142.15	8210.513226	831.3226	5592	0	0	831.322 6	0
16 30- Nov-	25- Jan-17	8294.6	24421.14	10873 50	42825	8224.5	8292.338186	226.1814	3948	0	226.18 1395	0	0
16 1-Dec- 16	25- Jan-17	8247.3	17911.75	11138 25	26475	8192.9	8259.265924	1196.592	2888	0	1196.5 9235	0	0
2-Dec- 16	25- Jan-17	8144.5 5	30632.87	11686 50	54825	8086.8	8151.110719	656.0719	4995	0	656.07 1913	0	0
5-Dec- 16	25- Jan-17	8195.0 5	29417.53	12566 25	87975	8128.75	8189.789528	526.0472	4807	0	526.04 7208	0	0
6-Dec- 16	25- Jan-17	8202.2 5	21559.91	12634 50	6825	8143.15	8203.094283	84.4283	3498	0	84.428 302	0	0
7-Dec- 16	25- Jan-17	8152.2	42961.35	14289 75	165525	8102.05	8160.494606	829.4606	6990	0	0	829.460 6	0
8-Dec- 16	25- Jan-17	8287.5	41892.9	15214 50	92475	8246.85	8305.120787	1762.079	6749	0	0	1762.07 9	0
9-Dec- 16	25- Jan-17	8311.1 5	28696.95	15853 50	63900	8261.75	8318.905702	775.5702	4605	0	775.57 0245	0	0
12- Dec-16	25- Jan-17	8217.7	41881.32	16340 25	48675	8170.8	8223.70677	600.677	6778	0	0	600.677	0
13- Dec-16	25- Jan-17	8263.4	30674.45	16841 25	50100	8221.8	8273.823249	1042.325	4965	0	1042.3 2491	0	0
14- Dec-16	25- Jan-17	8231.6	33826.66	17733 75	89250	8182.45	8233.016498	141.6498	5476	0	0	141.649 8	0
15- Dec-16	25- Jan-17	8207.9 5	58277.87	19049 25	131550	8153.6	8202.784878	516.5122	9444	0	0	516.512 2	0
16- Dec-16	25- Jan-17	8181.7	44538.42	21410 25	236100	8139.45	8187.348455	564.8455	7255	0	0	564.845 5	0
19- Dec-16	25- Jan-17	8159.5 5	41836.87	23901 00	249075	8104.35	8148.455294	1109.471	6828	0	0	1109.47 1	0
20- Dec-16	25- Jan-17	8133.1	70722.27	26781 00	288000	8082.4	8125.19389	790.611	11592	0	0	0	790.6 11
21- Dec-16	25- Jan-17	8115.2	72946.1	31409 25	462825	8061.3	8102.79351	1240.649	11958	0	0	0	1240. 649
22- Dec-16	25- Jan-17	8030	233861.8	48763 50	173542 5	7979.1	8018.994037	1100.596	38804	0	0	0	1100. 596
23- Dec-16	25- Jan-17	8027.9 5	260302.2	70311 00	215475 0	7985.75	8024.50011	344.989	43251	0	0	0	344.9 89
26- Dec-16	25- Jan-17	7942.6	331976.1	96748 50	264375	7908.25	7943.127817	52.78174	55666	0	0	0	52.78 174
27- Dec-16	25- Jan-17	8060	444160.4	11568 600	189375 0	8032.85	8067.093917	709.3917	74078	0	0	0	709.3 917
28- Dec-16	25- Jan-17	8056.2 5	602587.5	12744 375	117577 5	8034.85	8067.918897	1166.89	99365	0	0	0	1166. 89
29- Dec-16	25- Jan-17	8117.3	748493.7	16142 550	339817 5	8103.6	8135.758352	1845.835	123349	0	0	0	1845. 835
30- Dec-16	25- Jan-17	8187.4	705568.5	17107 050	964500	8185.8	8217.079128	2967.913	114999	0	0	0	2967. 913
2-Jan- 17	25- Jan-17	8192.1	684469.4	17031 150	-75900	8179.5	8207.142616	1504.262	111530	0	0	0	1504. 262
3-Jan- 17	25- Jan-17	8196.5	698025.3	17229 825	198675	8192.25	8218.730035	2223.003	113527	0	0	0	2223. 003
4-Jan- 17	25- Jan-17	8204.0 5	557851.5	17529 225	299400	8190.5	8215.769143	1171.914	90638	0	0	0	1171. 914
5-Jan- 17	25- Jan-17	8288.2	892673.5	18773 775	124455 0	8273.8	8298.108824	990.8824	143845	0	0	0	990.8 824
6-Jan- 17	25- Jan-17	8267.6 5	693892.7	18727 275	-46500	8243.8	8266.80796	84.204	111583	0	0	0	84.20 4
9-Jan- 17	25- Jan-17	8249.9	387847.7	18707 775	-19500	8236.05	8255.402649	550.2649	62644	0	0	0	550.2 649
10- Jan-17	25- Jan-17	8293.8 5	493580.7	18709 950	2175	8288.6	8306.857531	1300.753	79420	0	0	0	1300. 753
11-	25- Jan-17	8387.2	726184.2	19355 850	645900	8380.65	8397.878342	1067.834	115758	0	0	0	1067. 834
Jan-17 12-	25- Jan-17	8418	682495.3	20646 300	129045 0	8407.2	8423.24725	524.725	108255	0	0	0	524.7 25
lan_17	25-	8417.7	630803.3	19916	-729750	8400.35	8415.149691	255.0309	99975	0	0	0	25 255.0 309
Jan-17 13-													
	Jan-17 25- Jan-17	8431.7	517084.4	550 20138 625	222075	8412.8	8423.913773	778.6227	81879	0	0	0	778.6

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VOLUM	1E NO. '	7 (2017)	, ISSUE N	0. 06 (J	UNE)						I	SSN 223	1-5756
18-	25-	8429.3	743563	20561	875925	8417	8425.647092	370.2908	117493	0	0	0	370.2
Jan-17 19- Jan-17	Jan-17 25- Jan-17	5 8442.9 5	503319.5	025 20198 775	-362250	8435.1	8442.527187	42.28133	79581	0	0	0	908 42.28 133
20- Jan-17	25- Jan-17	8362.6 5	896103.7	17989 575	- 220920	8349.35	8355.475953	717.4047	142458	0	0	0	717.4 047
23- Jan-17	25- Jan-17	8402.4	977189.9	15481 950	0 - 250762	8391.5	8393.96221	843.779	155352	0	0	0	843.7 79
24- Jan-17	25- Jan-17	8480.5	1132809	10783 050	5 - 469890	8475.8	8477.043381	345.6619	178727	0	0	0	345.6 619
25- Nov-	23- Feb-17	8193.4	3849.97	27450	0 27450	8114.3	8222.133869	2873.387	631	2873.3 8692	0	0	0
16 28- Nov-	23- Feb-17	8210.7	5553.87	53700	26250	8126.9	8231.278253	2057.825	903	2057.8 2527	0	0	0
16 29- Nov-	23- Feb-17	8232.0 5	4189.66	64050	10350	8142.15	8245.514518	1346.452	677	1346.4 5181	0	0	0
16 30- Nov-	23- Feb-17	8326.8	6306.54	98400	34350	8224.5	8327.688297	88.82971	1015	0	88.829 7081	0	0
16 1-Dec-	23-	8278.0	4388.73	11700	18600	8192.9	8294.475048	1642.505	705	1642.5	0	0	0
16 2-Dec- 16	Feb-17 23- Feb-17	5 8178.2	8585.88	0 14227 5	25275	8086.8	8185.85878	765.878	1394	048	765.87 7962	0	0
5-Dec- 16	23- Feb-17	8233.0 5	4422.96	15367 5	11400	8128.75	8224.702476	834.7524	719	834.75 2442	0	0	0
6-Dec- 16	23- Feb-17	8233.8	2852.49	15705 0	3375	8143.15	8238.063949	426.3949	461	426.39 4865	0	0	0
7-Dec- 16	23- Feb-17	8188.9	4892.57	16912 5	12075	8102.05	8195.28267	638.267	793	638.26 7034	0	0	0
8-Dec- 16	23- Feb-17	8316.2	6283.97	18907 5	19950	8246.85	8340.52539	2432.539	1009	0	2432.5 3898	0	0
9-Dec- 16	23- Feb-17	8336.5 5	3944.99	20445 0	15375	8261.75	8354.36907	1781.907	631	1781.9 0704	0	0	0
12- Dec-16	23- Feb-17	8244.8	4803.77	20047 5	-3975	8170.8	8258.764307	1396.431	774	1396.4 3068	0	0	0
13- Dec-16	23- Feb-17	8294.6 5	3490.07	21427 5	13800	8221.8	8309.094431	1444.443	563	1444.4 4312	0	0	0
14- Dec-16	23- Feb-17 23-	8262.2	7185.77	24705 0 25402	32775	8182.45	8268.113721	591.3721	1159	0	591.37 2111	0	0
15- Dec-16 16-	23- Feb-17 23-	8240.3 8214.9	10962.85 3697.95	25402 5 26377	6975 9750	8153.6 8139.45	8237.753224 8222.250996	254.6776 735.0996	1769 600	735.09	254.67 7557 0	0	0
Dec-16	Feb-17 23-	8194.6	5395.62	5 28725	23475	8104.35	8183.192034	1140.797	877	9636 1140.7	0	0	0
Dec-16 20-	Feb-17 23-	8170.3	9080.36	0 31140	24150	8082.4	8159.831467	1046.853	1481	9659 0	1046.8	0	0
Dec-16 21-	Feb-17 23-	8148.4	5024.67	0 32407	12675	8061.3	8137.335595	1106.441	820	1106.4	5326 0	0	0
Dec-16 22-	Feb-17 23-	8062.7	13105.78	5 35235	28275	7979.1	8053.178886	957.1114	2164	4052 0	957.11	0	0
Dec-16 23-	Feb-17 23-	5 8061.4	10367.36	0 36682	14475	7985.75	8058.708431	274.1569	1716	0	1357 274.15	0	0
Dec-16 26-	Feb-17 23-	5 7973.9	13062.38	5 39195	25125	7908.25	7976.98925	308.925	2181	0	6893 308.92	0	0
Dec-16 27-	Feb-17 23- Feb-17	8084.9	17408.39	0 46192	69975	8032.85	8101.483815	1658.382	2893	0	4991 1658.3	0	0
Dec-16 28- Dec-16	23- Feb-17	8081.4	23855.14	5 56602 5	104100	8034.85	8102.312312	2091.231	3922	0	815 2091.2 312	0	0
29- Dec-16	23- Feb-17	8138.8	24487.14	70605 0	140025	8103.6	8170.440966	3164.097	4027	0	3164.0 966	0	0
30- Dec-16	23- Feb-17	8208.4 5	31334.24	80077 5	94725	8185.8	8252.108411	4365.841	5094	0	0	4365.84 1	0
2-Jan- 17	23- Feb-17	8216.4 5	23463.59	83640 0	35625	8179.5	8242.129539	2567.954	3811	0	2567.9 5392	0	0
3-Jan- 17	23- Feb-17	8222.6	32822.31	98235 0	145950	8192.25	8253.766355	3116.636	5321	0	0	3116.63 6	0
4-Jan- 17	23- Feb-17	8229.7	21968.55	10542 00	71850	8190.5	8250.792841	2109.284	3558	0	2109.2 8412	0	0
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9-Jan- 17	23- Feb-17	8277.0 5	25476.02	13077 75	85050	8236.05	8290.595305	1354.53	4102	0	1354.5 3045	0	0
10- Jan-17	23- Feb-17	8318.8 5	20551.41	13075 50	-225	8288.6	8342.269538	2341.954	3297	0	2341.9 5376	0	0

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17- Jan-17	23- Feb-17	8430.9	46529.45	23393 25	176700	8398	8443.703388	1280.339	7353	0	0	1280.33 9	0
18- Jan-17	23- Feb-17	8454.8 5	59619.64	24442 50	104925	8417	8461.565497	671.5497	9390	0	0	671.549 7	0
19- Jan-17	23- Feb-17	8466.7 5	73506	28806 00	436350	8435.1	8478.517551	1176.755	11588	0	0	0	1176. 755
20- Jan-17	23- Feb-17	8387.2	178396.3	38633 25	982725	8349.35	8391.095219	389.5219	28281	0	0	0	389.5 219
23- Jan-17	23- Feb-17	8424.7 5	379564.2	66969 75	283365 0	8391.5	8429.745542	499.5542	60177	0	0	0	499.5 542
24- Jan-17	23- Feb-17	8509.6	751137.5	12670 725	597375 0	8475.8	8513.180888	358.0888	118150	0	0	0	358.0 888
25- Jan-17	23- Feb-17	8614.8 5	1120284	18169 050	549832 5	8602.75	8639.423392	2457.339	174164	0	0	0	2457. 339
27- Jan-17	23- Feb-17	8671.1	812299.8	19389 450	122040 0	8641.25	8675.541964	444.1964	124832	0	0	0	444.1 964
30- Jan-17	23- Feb-17	8655.3 5	592176.2	19939 950	550500	8632.75	8663.195059	784.5059	91222	0	0	0	784.5 059
31- Jan-17	23- Feb-17	8584.3	975710.7	19447 125	-492825	8561.3	8590.232908	593.2908	151198	0	0	0	593.2 908
1-Feb-	23-	8737.9	1662725	20860	141360 0	8716.4	8744.574259	667.4259	256338	0	0	0	667.4
17 2-Feb-	Feb-17 23-	8743.9	899984.2	725 21658	798075	8734.25	8761.196708	1724.671	137422	0	0	0	259 1724.
17 3-Feb-	Feb-17 23-	5 8754.3	595124.7	800 21486	-172800	8740.95	8766.631333	1228.133	90734	0	0	0	671 1228.
17 6-Feb-	Feb-17 23-	5 8816.6	728035.1	000 21854	368325	8801.05	8823.024386	642.4386	110169	0	0	0	133 642.4
17 7-Feb-	Feb-17 23-	8785.5	560425.7	325 21568	-285900	8768.3	8788.903303	335.3303	85012	0	0	0	386 335.3
17 8-Feb-	Feb-17 23-	5 8796.3	765412.5	425 21768	199800	8769.05	8788.365831	798.4169	116252	0	0	0	303 798.4
17 9-Feb-	Feb-17 23-	5 8796.8	1024704	225 21760	-7275	8778.4	8796.446008	40.39923	155576	0	0	0	169 40.39
17 10-	Feb-17 23-	5 8809.3	578911.5	950 21685	-75525	8793.55	8810.334695	98.46954	87575	0	0	0	923 98.46
Feb-17 13-	Feb-17 23-	5 8815.3	782547.4	425 22318	632850	8805.05	8817.975344	262.5344	118500	0	0	0	954 262.5
Feb-17 14-	Feb-17 23-	5 8814.8	591555.6	275 23350	103267	8792.3	8803.915113	1093.489	89528	0	0	0	344 1093.
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Feb-17 20-	Feb-17 23-	8873.8	763958.9	650 21694	-	8879.2	8883.10825	925.825	115075	0	0	0	592 925.8
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21- Feb-17	23- Feb-17	8910.3 5	1163092	16272 450	- 542220 0	8907.85	8910.463716	11.37155	174589	0	0	0	11.37 155
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