



NSE

MARKET PULSE



MONTHLY STATISTICS - JULY 2016



May prosperity always bloom

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Key Highlights of the Report

1. The benchmark index NIFTY 50 appreciated by 4.23% in the current month and closed at 8638.5 experiencing a high of 8674.7 and a low of 8287.55
2. During the month the volatility index India VIX depreciated by 6.81% and closed at 14.15 experiencing a high of 16.36 and a low of 12.59.
3. The average equity volume was seen at Rs. 20,367 Cr vs Rs. 16,673 Cr; up by 22.2% on YoY basis.
4. The average equity derivative volume was seen at Rs. 3,34,886 Cr vs Rs. 2,48,068 Cr; up by 35% on YoY basis.
5. Equity derivative segment, observed record turnover of Rs. 1,03,875.36 Cr in stock Futures and Rs 42,843.59 Cr. in stock options.
6. NSE contributed 36.56% in single Index option contracts traded globally.
7. Issuance of tranche IV Sovereign Gold Bonds.

1. OVERVIEW OF EQUITY AND EQUITY DERIVATIVES SEGMENT

a. Index watch

Index Name	Returns (%)			Volatility 1 Yr	Beta 1 Yr	Correlation 1 Yr	R ² 1 Yr	P/E	P/B	Dividend Yield
	1M	3M	1 Yr							
Broad Market Indices										
Nifty 50	4.23	10.05	1.24	16.51	1.00	1.00	1.00	23.62	3.38	1.27
Nifty Next 50	9.37	16.22	7.90	18.20	0.95	0.87	0.75	28.78	3.07	1.54
Nifty 100	5.02	10.99	2.23	16.47	0.99	1.00	0.99	24.32	3.33	1.31
Nifty 200	5.03	10.93	2.41	16.58	1.00	0.99	0.98	25.39	3.16	1.27
Nifty 500	5.00	11.25	3.15	16.46	0.98	0.99	0.97	27.16	3.01	1.24
Nifty Midcap 150	5.26	12.08	7.56	17.54	0.91	0.86	0.74	37.31	2.58	0.88
Nifty Midcap 50	5.45	11.00	6.96	23.79	1.24	0.86	0.74	52.61	1.88	0.99
Nifty Full Midcap 100	5.08	10.39	5.61	19.33	1.01	0.86	0.74	41.85	2.19	0.89
Nifty Smallcap 250	4.18	13.10	4.26	20.49	1.02	0.82	0.67	-	1.56	0.99
Nifty Smallcap 50	4.75	14.99	0.09	24.55	1.21	0.81	0.66	40.11	1.17	1.17
Nifty Full Smallcap 100	4.58	14.42	0.45	22.94	1.14	0.82	0.67	33.47	1.35	1.03
Nifty MidSmallcap 400	4.91	12.41	6.47	18.36	0.95	0.85	0.73	55.15	2.13	0.92
Nifty Free Float Midcap 100	6.92	11.95	7.61	18.31	0.96	0.86	0.75	34.83	2.39	1.38
Nifty Free Float Smallcap 100	4.69	17.00	6.35	23.16	1.14	0.81	0.65	-	1.04	0.85
Thematic Indices										
Nifty Commodities	8.42	16.40	12.29	19.36	1.04	0.89	0.79	18.0	1.73	1.93
Nifty CPSE	7.56	11.59	-11.97	21.87	1.04	0.78	0.61	11.37	1.93	3.64
Nifty Energy	6.97	10.79	6.89	20.40	1.02	0.83	0.69	12.98	1.67	1.55
Nifty India Consumption	4.03	11.34	5.49	15.18	0.82	0.89	0.80	32.87	5.23	1.11
Nifty Infrastructure	4.25	12.44	-10.04	21.36	1.13	0.88	0.77	23.48	2.08	1.16
Nifty MNC	6.67	12.99	-1.44	15.95	0.82	0.85	0.71	34.01	7.04	1.52
Nifty PSE	8.09	15.61	-2.86	19.54	0.99	0.84	0.70	13.34	1.8	2.85
Nifty Services Sector	3.39	8.45	0.00	17.67	1.04	0.97	0.94	21.3	3.0	1.26
Nifty100 Liquid 15	7.26	14.71	-0.13	23.33	1.26	0.89	0.79	26.43	2.06	0.76
Nifty Midcap Liquid 15	5.10	11.88	-2.56	24.91	1.25	0.83	0.68	-	1.72	1.09
Nifty Aditya Birla Group	5.79	12.73	2.89	20.26	0.90	0.74	0.54	36.84	2.45	0.38
Nifty Mahindra Group	0.39	6.48	3.34	20.37	0.93	0.75	0.56	23.09	3.71	1.32
Nifty Tata Group	4.17	7.88	11.36	19.24	0.92	0.79	0.62	26.82	4.38	1.28
Nifty Tata Group 25% Cap	6.34	12.01	19.68	22.70	1.16	0.84	0.71	27.9	2.45	0.98
Nifty Shariah 25	3.78	8.34	-0.09	14.89	0.82	0.91	0.83	26.34	4.23	1.02
Nifty50 Shariah	4.53	7.65	0.91	15.27	0.85	0.92	0.85	20.49	2.87	1.25
Nifty500 Shariah	4.96	9.12	3.10	15.13	0.85	0.93	0.86	23.22	3.51	1.09
Strategy Indices										
Nifty100 Equal Weight	7.12	13.18	5.24	17.56	1.00	0.94	0.89	28.85	2.51	1.57
Nifty Alpha 50	7.56	6.30	-2.60	20.88	1.02	0.81	0.65	27.31	3.42	0.58
Nifty Dividend Opportunities 50	6.09	12.21	1.54	16.91	0.95	0.93	0.86	21.42	2.6	2.37
Nifty High Beta 50	7.74	14.39	1.89	31.30	1.62	0.85	0.73	51.23	1.08	1.07
Nifty Low Volatility 50	4.34	12.16	9.14	13.87	0.79	0.94	0.89	24.69	4.16	1.7
Nifty100 Low Volatility 30	4.04	12.22	8.17	13.98	0.81	0.95	0.91	25.57	4.53	1.72
Nifty Quality 30	3.50	8.58	3.48	14.67	0.82	0.93	0.86	28.65	6.82	1.5
Nifty50 Value 20	2.15	4.92	-2.79	17.97	1.04	0.96	0.92	16.93	2.29	1.73
Nifty Growth Sectors 15	2.01	6.48	3.66	14.69	0.78	0.88	0.77	25.54	7.37	1.53
Nifty50 PR 1x Inverse	-3.64	-8.04	2.85	16.51	-1.00	-1.00	1.00	-	-	-
Nifty50 TR 1x Inverse	-3.84	-8.74	1.57	16.52	-1.00	-1.00	1.00	-	-	-
Nifty50 PR 2x Leverage	8.03	18.77	-6.69	33.03	2.00	1.00	1.00	-	-	-
Nifty50 TR 2x Leverage	8.46	20.60	-4.29	33.03	2.00	1.00	1.00	-	-	-
Sectoral Indices										
Nifty Auto	6.85	14.26	10.84	21.12	1.10	0.86	0.74	36.37	6.28	0.73
Nifty Bank	5.67	12.85	1.19	22.21	1.20	0.89	0.80	26.82	2.39	0.81
Nifty Financial Services	7.06	16.55	2.02	20.92	1.16	0.92	0.84	21.5	2.97	1.01
Nifty FMCG	2.87	12.62	6.25	17.60	0.73	0.69	0.47	37.26	12.03	1.66
Nifty IT	-1.86	-2.53	-5.87	17.30	0.74	0.71	0.50	18.15	4.9	2.38
Nifty Media	6.88	16.17	14.81	24.29	1.11	0.75	0.57	49.11	6.5	0.63
Nifty Metal	11.03	18.42	13.81	30.73	1.37	0.74	0.54	28.06	1.02	3.39
Nifty Pharma	4.98	3.58	-5.31	19.25	0.74	0.63	0.40	45.2	5.9	0.51
Nifty Private Bank	5.67	12.74	4.72	21.79	1.18	0.89	0.80	20.89	2.75	0.86
Nifty PSU Bank	5.06	17.14	-16.09	37.42	1.60	0.70	0.49	-	0.88	0.77
Nifty Realty	3.57	18.65	17.47	33.64	1.60	0.79	0.62	40.6	0.95	0.62
Fixed Income Indices										
Nifty 8-13 yr G-Sec	3.02	4.52	12.61	2.30	-	-	-	-	-	-
Nifty 10 yr Benchmark G-Sec	2.53	3.70	11.69	2.32	-	-	-	-	-	-
Nifty 10 yr Benchmark G-Sec (Clean Price)	1.93	1.84	3.68	2.36	-	-	-	-	-	-
Nifty 4-8 yr G-Sec Index	2.48	4.18	12.35	1.79	-	-	-	-	-	-
Nifty 11-15 yr G-Sec Index	3.63	5.51	14.05	2.79	-	-	-	-	-	-
Nifty 15 yr and above G-Sec Index	4.63	7.22	15.57	3.10	-	-	-	-	-	-
Nifty Composite G-Sec Index	2.76	4.40	12.46	2.24	-	-	-	-	-	-

-Volatility (Average daily standard deviation annualized), Beta, Correlation & R 2 for 1 year period.

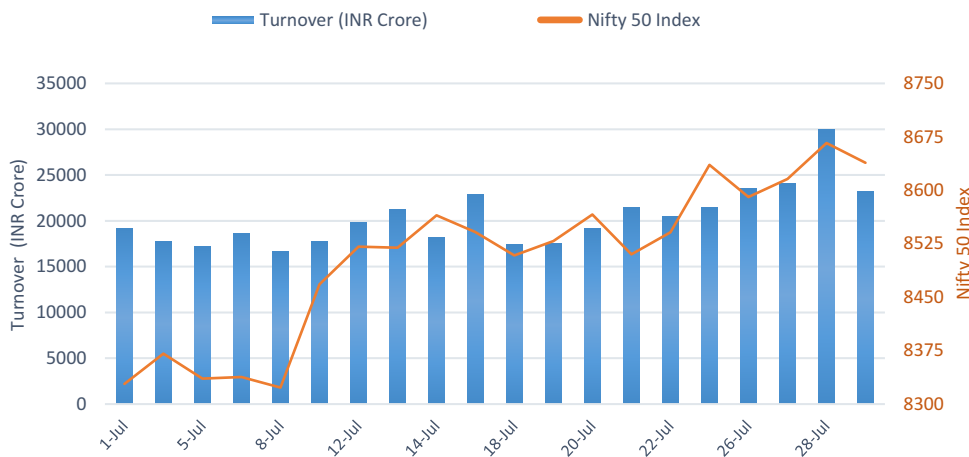
-P/E, P/B & Dividend Yield as on July 31, 2016

-Returns (%) are absolute returns, calculated on point-to-point basis.

-Returns of Nifty50 Inverse, Nifty50 Leverage and fixed income indices are not considered to identify the highest gainer and loser in the table above.

b. Trade statistics and Growth

Cash Market



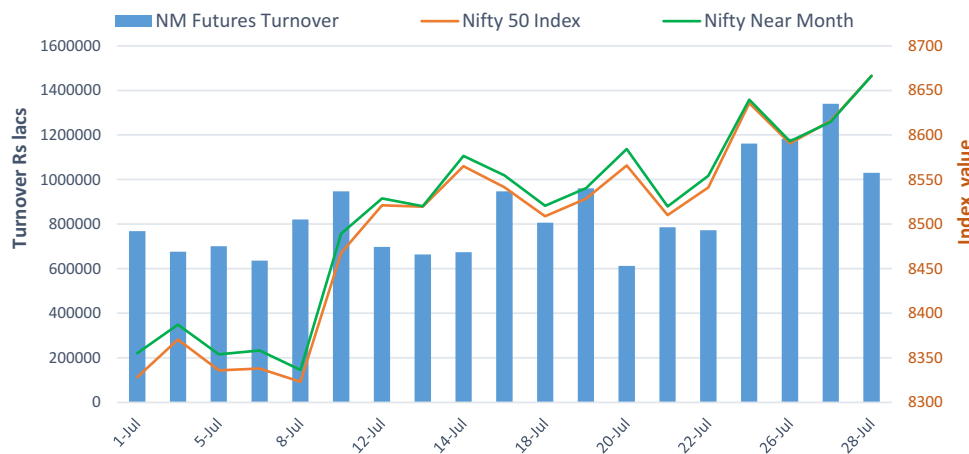
Rs. 20,367 Crore

*Average Daily Turnover
for July 2016*

Instrument	Jul-16	Jul-15	YOY Change
Daily Average T/O Rs Cr.	20367	16673	22.2%

Instrument	Jul-16	Jun-16	MOM Change
Daily Average T/O Rs Cr.	20367	17431	16.8%

Equity Derivatives Market



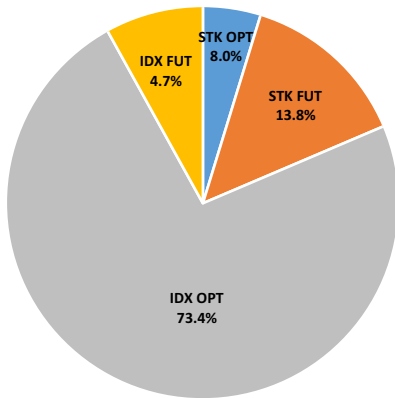
Rs. 3,34,886 Crore

*Average Daily Turnover
for July 2016*

Instrument	Daily Average Turnover Rs. Crs		
	Jul-16	Jul-15	% Change
Index Futures	15873	17032	-6.8%
Stock Futures	46379	31299	48.2%
Index Options	245696	185670	32.3%
Stock Options	26938	14067	91.5%
Total	334886	248068	35.0%

Instrument	Daily Average Turnover Rs. Crs		
	Jul-16	Jun-16	% Change
Index Futures	15873	18222	-12.9%
Stock Futures	46379	35496	30.7%
Index Options	245696	233175	5.4%
Stock Options	26938	18417	46.3%
Total	334886	305311	9.7%

c. Instrument wise turnover breakup

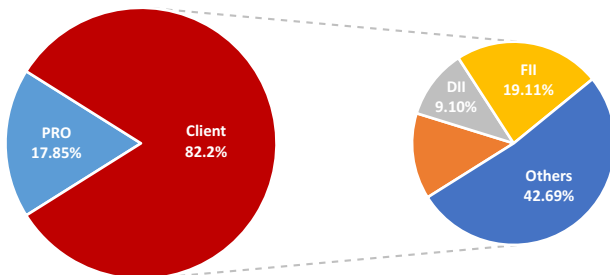


Index derivatives contributed 81.4% of total equity derivatives turnover.

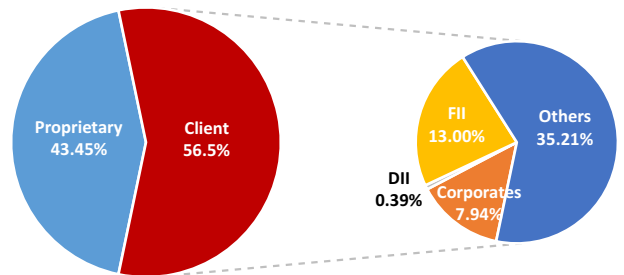
d. Instrument wise participant wise turnover

The participant wise volume breakup charts reflect active participation from all classes of participants across all instruments.

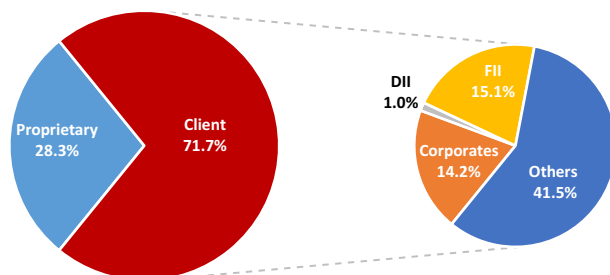
Cash Markets



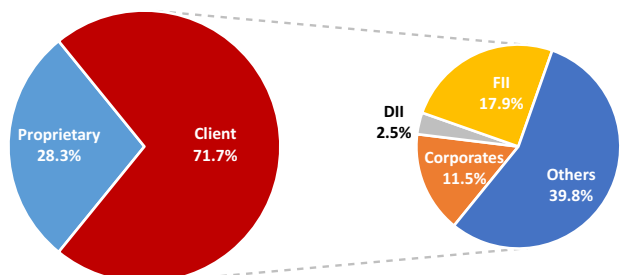
Equity Derivatives



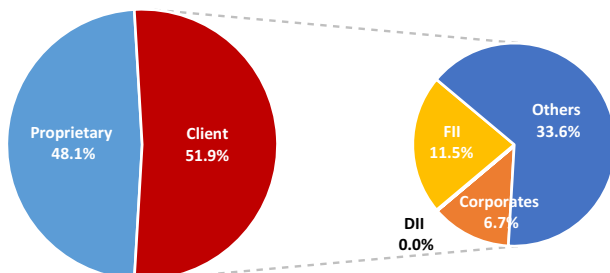
Index Futures



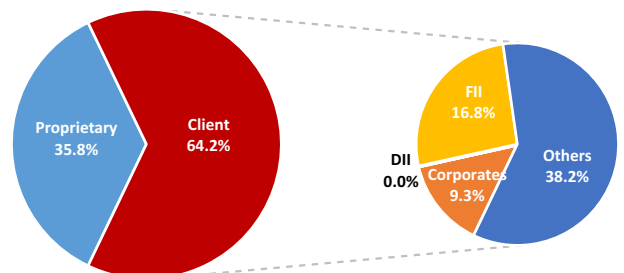
Stock Futures



Index Options



Stock Options

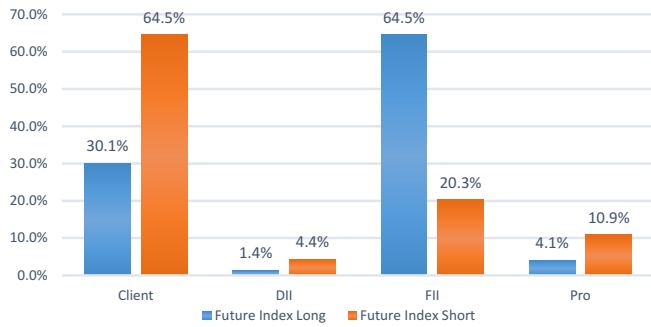


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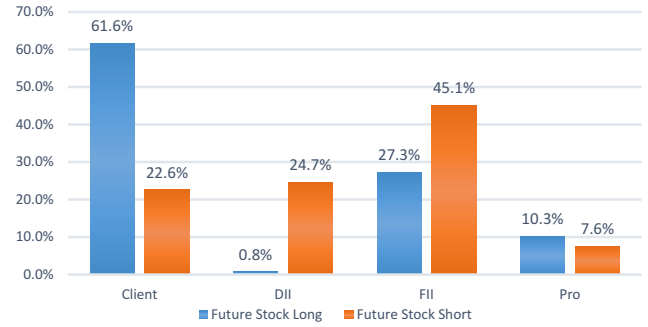
e. Instrument wise participant wise open interest

Instrument wise participant wise open interest as on July 27, 2016, i.e. one day prior to equity derivatives expiry

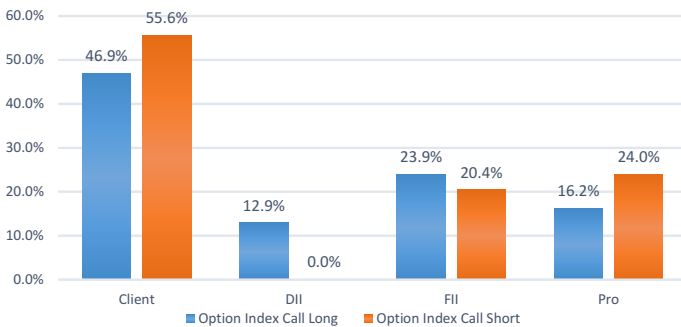
Participant wise OI - Index Futures



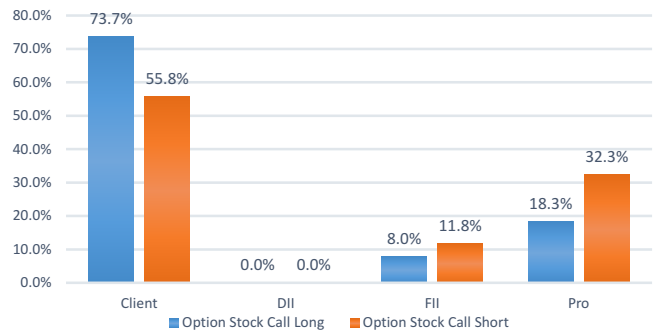
Participant wise OI - Stock Futures



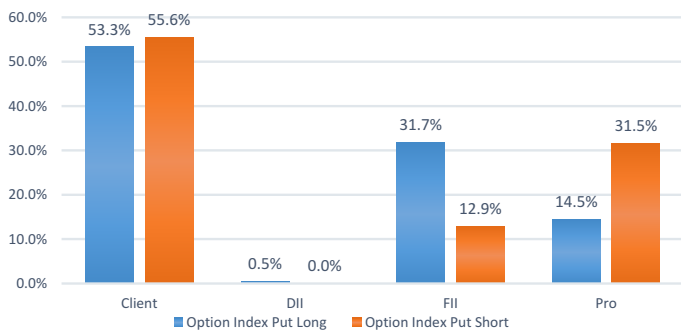
Participant wise OI - Index Calls



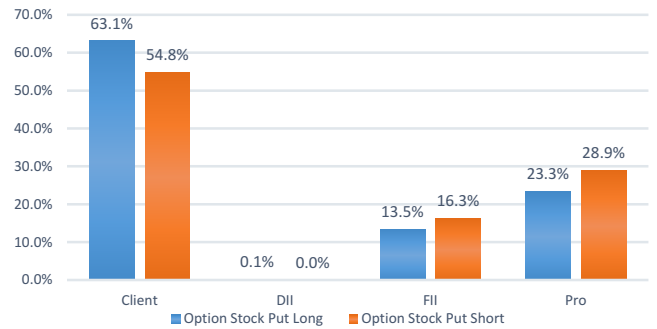
Participant wise OI - Index Puts



Participant wise OI - Stock Calls

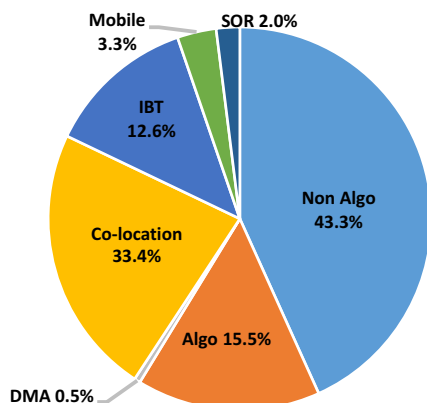


Participant wise OI - Stock Puts

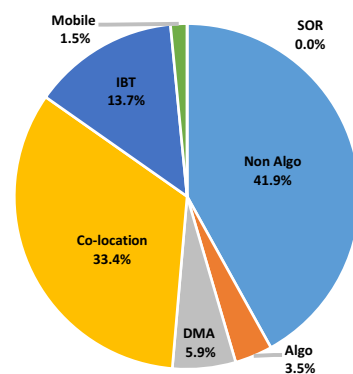


f. Mode of trading wise turnover

Cash Market

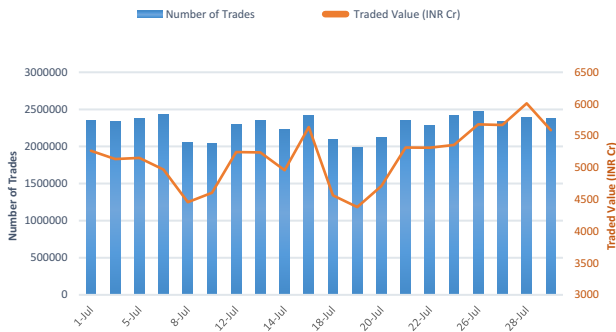


Equity Derivatives



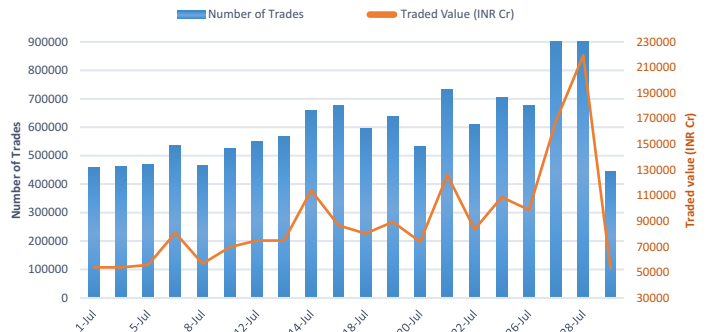
g. Internet based trading turnover trend

Cash Market



Peak Turnover (Rs Cr.) 6011.38
Average Traded value (Rs Cr.) 5163.32

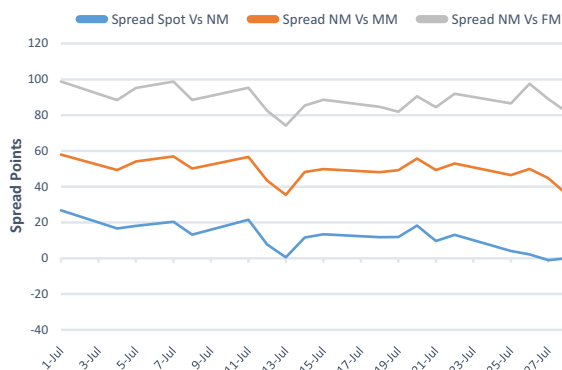
Equity Derivatives



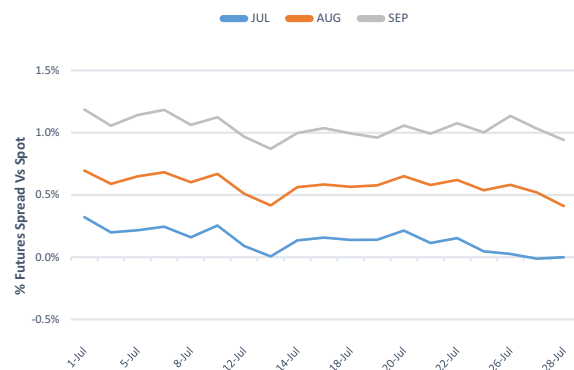
Peak Turnover (Rs Cr.) 219451.90
Average Traded Quantity (Rs Cr.) 91147.11

2. NIFTY FUTURES SPREADS

Nifty futures spread in points



Nifty futures spread in % age



3. INDICES CORRELATION MATRIX

INDEX	NIFTY 50	NIFTY BANK	NIFTY IT	NIFTY INFRA	NIFTY PSE	NIFTY MIDCAP 50	INDIA VIX
NIFTY 50	1.00	0.88	0.41	0.74	0.76	0.70	-0.04
NIFTY BANK	0.88	1.00	0.15	0.67	0.51	0.52	0.15
NIFTY IT	0.41	0.15	1.00	0.13	0.44	0.40	0.06
NIFTY INFRA	0.74	0.67	0.13	1.00	0.80	0.73	-0.23
NIFTY PSE	0.76	0.51	0.44	0.80	1.00	0.80	-0.16
NIFTY MIDCAP 50	0.70	0.52	0.40	0.73	0.80	1.00	-0.28
INDIA VIX	-0.04	0.15	0.06	-0.23	-0.16	-0.28	1.00

Correlation based on daily closing returns of the respective index

4. MOST ACTIVE STOCKS / CONTRACTS

a. Top 5 stocks in cash market based on turnover

Sr. No.	Symbol	Gross Traded Quantity (Lacs)	Gross Traded Value (Cr)	% Contribution
1	INFY	1033	11401	2.80%
2	AXISBANK	1440	7896	1.94%
3	SBIN	3340	7593	1.86%
4	ICICIBANK	2509	6551	1.61%
5	VEDL	4074	6535	1.61%

b. Top 5 stock futures contracts based on turnover

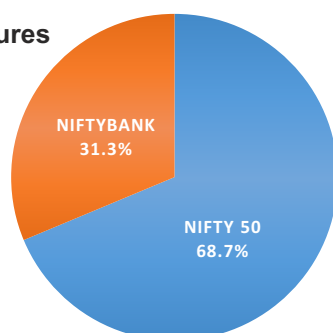
Sr. No.	Symbol	No Of Contracts	Notional Value (Rs Cr)	% Contribution
1	SBIN	430683	29455	3.18%
2	TATASTEEL	316156	21923	2.36%
3	PNB	235970	20976	2.26%
4	ICICIBANK	309578	20361	2.20%
5	AXISBANK	308700	20338	2.19%

c. Top 5 stock options contracts based on turnover

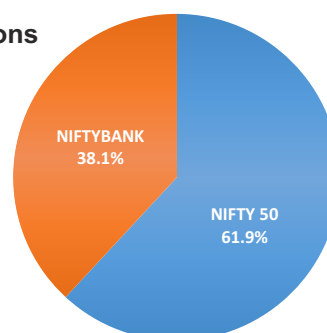
Sr. No.	Symbol	No Of Contracts	Notional Value (Rs Cr)	% Contribution
1	INFY	514470	29712	5.5%
2	SBIN	406372	28170	5.2%
3	RELIANCE	477925	24504	4.5%
4	MARUTI	316541	21552	4.0%
5	TATASTEEL	288948	20623	3.8%

5. INDEX DERIVATIVE TRADE MIX

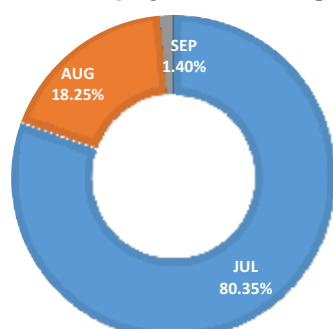
Index futures



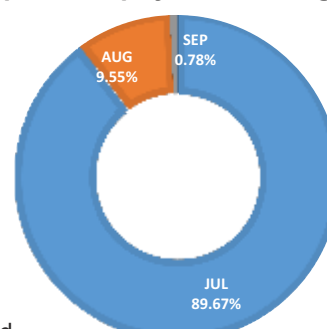
Index Options



Nifty futures expiry wise trading volume



Nifty options expiry wise trading volume



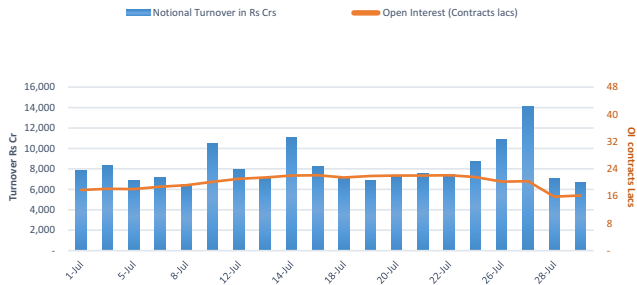
* No. of contracts traded between June 30 to July 28, 2016

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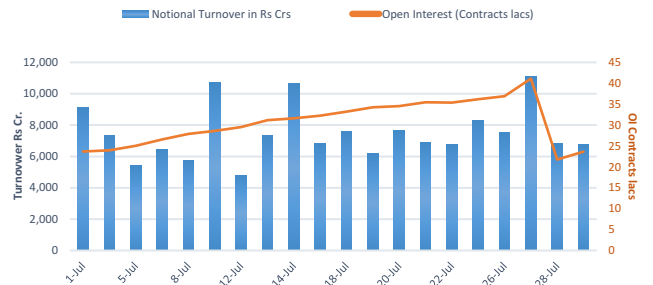
6. CURRENCY DERIVATIVES (TRADE STATISTICS)

a) Turnover and Open Interest

Currency Futures Turnover vs OI



Currency Options Turnover vs OI

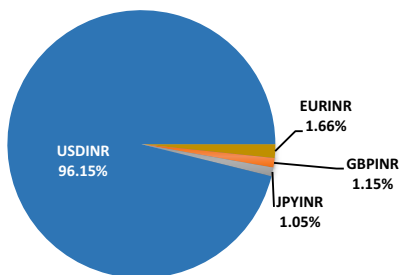


Instrument	Daily Average Turnover Rs. Crs		
	Jul-16	Jul-15	YOY Change
CDS Futures	8262.80	8218.73	0.54%
	Jul-16	Jun-16	MOM Change
	8262.80	14581.84	-43.33%

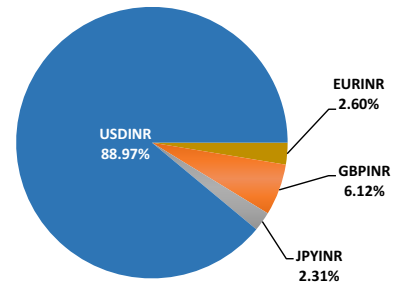
Instrument	Daily Average Turnover Rs. Crs		
	Jul-16	Jul-15	YOY Change
CDS Options	7499.13	4075.35	84.01%
	Jul-16	Jun-16	MOM Change
	7499.13	10312.15	-27.28%

* Notional Turnover

Currency pair wise open interest

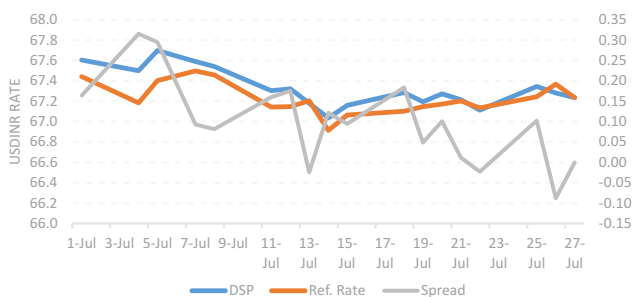


Currency pair wise turnover (Rs.Crs)

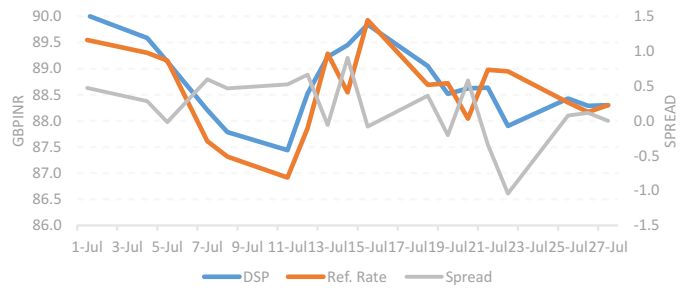


b) Spread between Currency pairs on the Exchange

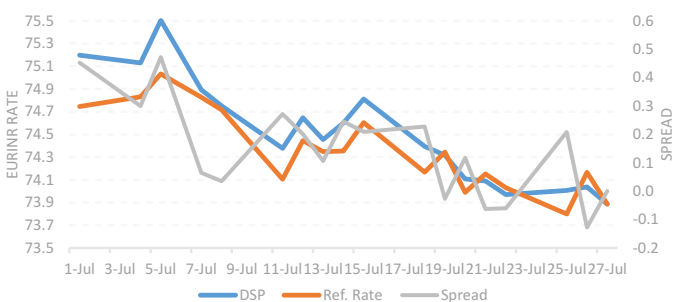
USDINR Rate Movement



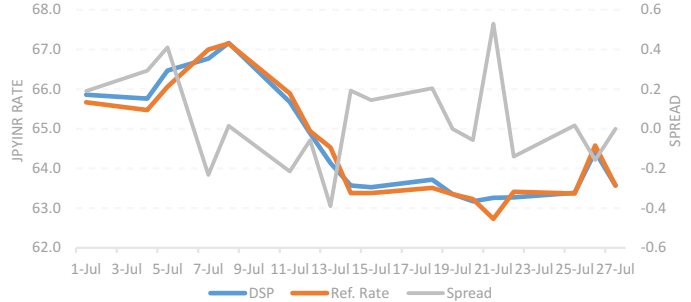
GBPINR Rate Movement



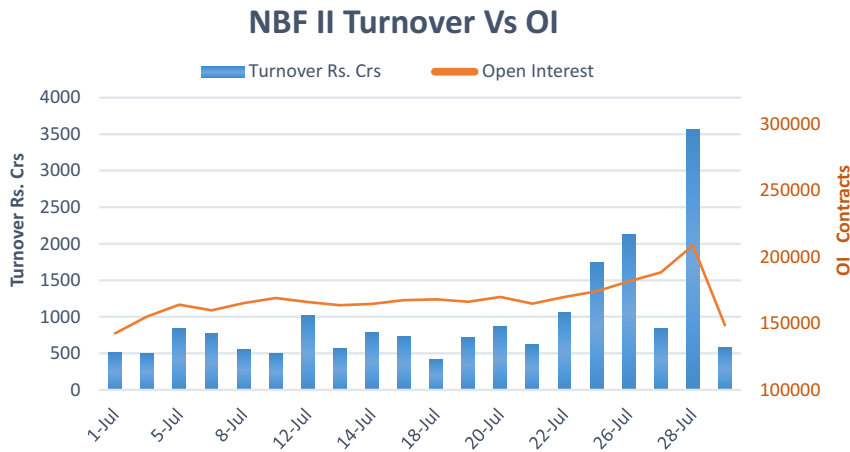
EURINR Rate Movement



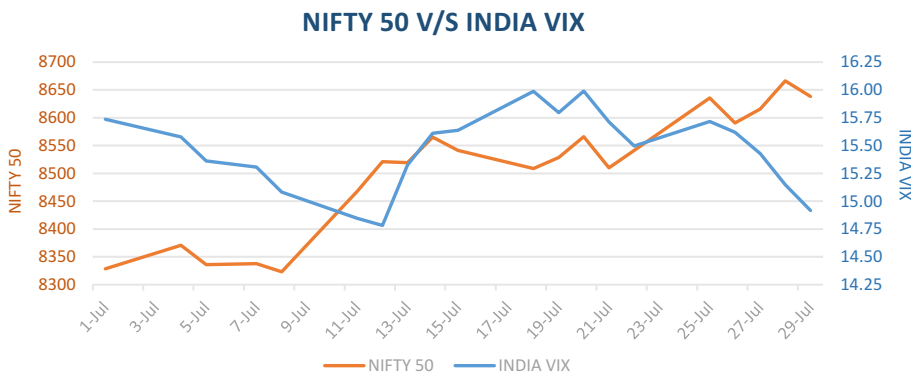
JPYINR Rate Movement



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7. NSE BOND FUTURES II (TRADE STATISTICS)
Turnover and Open Interest


Rs. 965 Crore
Average Daily Turnover
for July 2016

8. INDIA VIX INDEX MOVEMENT


High 16.36
Low 12.59
Close 14.92

9. RECORD TURNOVER

Instrument	Turnover Rs. Crs	Date
Index Futures	52212.50	16 May 2014
Index Options	634755.00	28 April 2016
Stock Futures	103875.36	28 July 2016
Stock Options	42843.59	27 July 2016
F&O Segment	775496.53	28 April 2016
Equity Turnover	43621.28	29 May 2015

10. GLOBAL PERSPECTIVE
a. NSE global ranking

Instruments	Ranking
Index Options	1
Index Futures	8
Stock Options	9
Stock Futures	3
Currency Options	1
Currency Futures	2

Nifty maintained its leadership position in index options category globally

*Ranking in no. of contracts traded till YTD basis

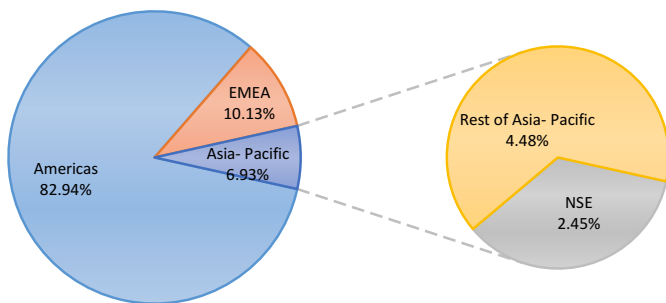
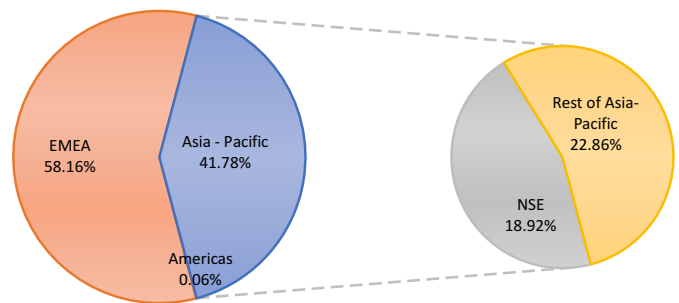
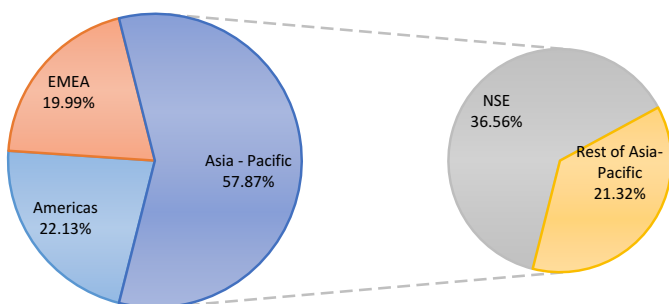
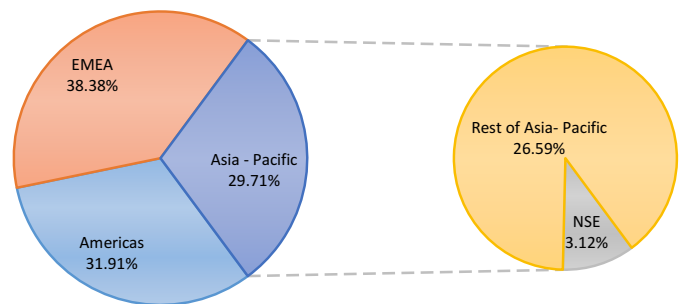
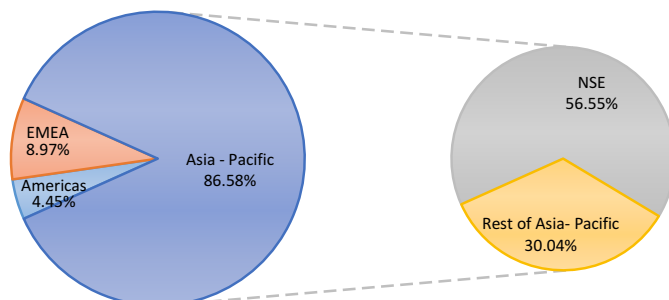
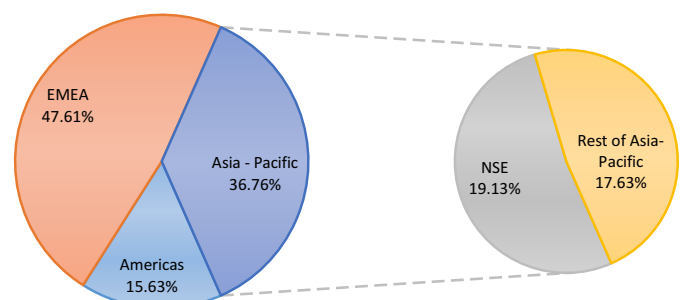
Source: WFE website as on June 2016

b. Top 3 Exchanges in Stock futures Contracts

Rank	Name of the Exchange	No. of Contracts
1	Moscow Exchange	144368863
2	Korea Exchange	88657886
3	National Stock Exchange India	88348837

c. Top 3 Exchanges in Index options

Rank	Name of the Exchange	No. of Contracts
1	National Stock Exchange India	500101208
2	Chicago Board Options Exchange	218716524
3	EUREX	213054339

d. NSE's contribution to Global Trade
Stock Option

Stock Future

Index Option

Index Future

Currency Option

Currency Future


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11. MONTHLY FEATURE**1. Securities listed on Pune Stock Exchange Limited available on Dissemination Board of NSE***Download Ref No. : NSE/CML/32858**Date : July 25, 2016***2. Digital submission of IPO enablement request***Download Ref.No: NSE/MEM/32832**Date: July 19, 2016***3. Sovereign Gold Bond Issuance***Download Ref No: NSE/CMTR/32853**Date: July 21, 2016***4. Quantity Freeze Limits for Indices***Download Ref No: NSE/FAOP/32891**Date: July 29, 2016***Disclaimer:**

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