

# Rollover Report



JULY - AUG 2022

28 JULY 2022

## OVERVIEW

### Index Rollover Activity :

- ⇒ Nifty closed 4.67% up from previous expiry close where as Bank nifty closed 6.28% up from previous expiry close.
- ⇒ Nifty July month rollover is at 76% VS 3months average of 76%.
- ⇒ Bank Nifty July month rollover is 82% VS 3months average of 85%

### Sector wise Rollover Activity :

- ⇒ From the sectoral action, high rollovers were seen in INFRASTRUCTURE, MEDIA & TELECOM sector stocks on expiry day.
- ⇒ From the sectoral action, low rollovers were seen in OIL&GAS, FMCG, CEMENT sector stocks on expiry day.
- ⇒ Within the Nifty50 space, index heavyweights such as ADANI PORTS, JSW STEEL & BHARTIARTL saw aggressive rollover in the series, while low rollover were seen in COALINDIA, ONGC & SBILIFE.

## TOP GAINER & LOSERS

Top 5 Expiry Gainer		
Stocks	% Gain	3m Avg Rollover %
HONAUT	29.88%	95%
SRTRANSFIN	27.21%	88%
CUB	26.97%	83%
FEDERALBNK	26.39%	87%
CANFINHOME	26.36%	89%

Source: NSE India, BP Equities Research

Top 5 Expiry Losers		
Stocks	% Loss	3m Avg Rollover %
VEDL	-21.65%	93%
NATIONALUM	-19.37%	94%
GUJGASLTD	-18.47%	88%
RBLBANK	-17.48%	92%
NMDC	-16.38%	91%

## 3 MONTHS AVERAGE

Top 5 Highest 3m Average	
Stocks	Rollover %
ADANI PORTS	98%
HDFCLIFE	98%
ADANI ENT	98%
PIIND	98%
LAURUSLABS	97%

Source: NSE India, BP Equities Research

Top 5 Lowest 3m Average	
Stocks	Rollover %
SUNTV	75%
NIFTY	76%
ONGC	77%
COROMANDEL	78%
RECLTD	79%

# ROLLOVER STATISTICS

## HIGHEST ROLLOVER

Symbol	Closing	Exp % Chng	July Rollover %	3m Avg Rollover %	Rollover cost	Sector
ADANIPTS	764.9	8.94%	99%	98%	0.46%	Services
JSWSTEEL	617	11.48%	99%	96%	0.32%	Metals & Mining
BHARTIARTL	667.5	-3.66%	98%	97%	-0.02%	Telecommunication
HDFCLIFE	531.85	-7.88%	98%	98%	0.83%	Financial Services
DIVISLAB	3842.5	10.95%	98%	96%	-0.25%	Healthcare

## LOWEST ROLLOVER

Symbol	Closing	Exp % Chng	July Rollover %	3m Avg Rollover %	Rollover cost	Sector
COALINDIA	202.25	10.25%	65%	79%	-1.01%	Oil Gas & Consumable Fuels
ONGC	130.45	-14.21%	66%	77%	-1.99%	Oil Gas & Consumable Fuels
SBILIFE	1186.8	7.30%	70%	87%	0.69%	Financial Services
LT	1798.2	14.43%	74%	87%	0.63%	Construction
HINDALCO	391.15	-4.14%	75%	88%	-0.40%	Metals & Mining

## SECTORAL MOVEMENT

### Top 5 Highest Rollover

Sector	Rollover %
Infrastructure	96
Media	95
Telecom	95
IT	95
Pharma	95

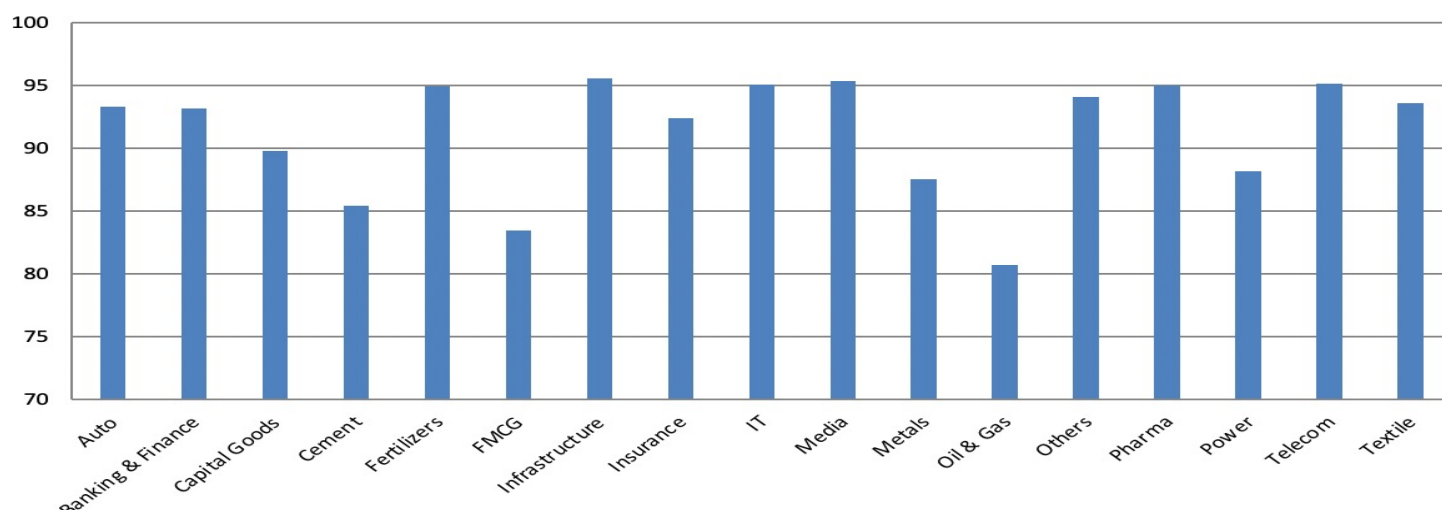
Source: NSE India, BP Equities Research

### Top 5 Lowest Rollover

Sector	Rollover %
Oil & Gas	81
FMCG	83
Cement	85
Metals	88
Power	88

Source: NSE India, BP Equities Research

## Roll over



# ROLLOVER STATISTICS

## INDEX ROLLOVER

Symbol	Closing	Exp % chng	July Rollover %	3m Avg Rollover %	Rollover Cost	Sector
<b>BANKNIFTY</b>	37372.75	6.28%	82%	85%	0.13%	Index
<b>NIFTY</b>	16923.65	4.67%	76%	76%	0.19%	Index

Source: NSE India, BP Equities Research

## NIFTY50 SCRIPS

Symbol	Closing	Exp % chng	July Rollover %	3m Avg Rollover %	Rollover Cost	Sector
<b>ADANIPTS</b>	764.9	8.94%	99%	98%	0.46%	Services
<b>APOLLOHOSP</b>	4198.35	14.49%	95%	96%	0.03%	Healthcare
<b>ASIANPAINT</b>	3271.8	15.41%	95%	96%	0.31%	Consumer Durables
<b>AXISBANK</b>	724.7	5.91%	85%	92%	0.50%	Financial Services
<b>BAJAJ-AUTO</b>	3855	4.98%	90%	92%	0.20%	Automobile and Auto Components
<b>BAJFINANCE</b>	7092.45	21.81%	90%	93%	0.21%	Financial Services
<b>BAJAJFINSV</b>	14622.25	16.61%	91%	94%	0.40%	Financial Services
<b>BPCL</b>	326.15	0.59%	77%	81%	-1.44%	Oil Gas & Consumable Fuels
<b>BHARTIARTL</b>	667.5	-3.66%	98%	97%	-0.02%	Telecommunication
<b>BRITANNIA</b>	3872.7	10.64%	84%	88%	0.40%	Fast Moving Consumer Goods
<b>CIPLA</b>	966.75	-0.04%	96%	96%	0.06%	Healthcare
<b>COALINDIA</b>	202.25	10.25%	65%	79%	-1.01%	Oil Gas & Consumable Fuels
<b>DIVISLAB</b>	3842.5	10.95%	98%	96%	-0.25%	Healthcare
<b>DRREDDY</b>	4257.65	-1.49%	96%	93%	0.58%	Healthcare
<b>EICHMOT</b>	3056.1	12.08%	94%	96%	-0.24%	Automobile and Auto Components
<b>GRASIM</b>	1549.9	11.26%	94%	96%	-0.27%	Construction Materials
<b>HCLTECH</b>	942.9	-4.28%	93%	94%	0.70%	Information Technology
<b>HDFCBANK</b>	1414.25	3.39%	96%	96%	0.60%	Financial Services
<b>HDFCLIFE</b>	531.85	-7.88%	98%	98%	0.83%	Financial Services
<b>HEROMOTOCO</b>	2780.85	5.35%	93%	94%	0.38%	Automobile and Auto Components
<b>HINDALCO</b>	391.15	-4.14%	75%	88%	-0.40%	Metals & Mining
<b>HINDUNILVR</b>	2617.95	15.32%	92%	94%	0.40%	Fast Moving Consumer Goods
<b>HDFC</b>	2338.1	3.17%	94%	95%	0.46%	Financial Services
<b>ICICIBANK</b>	814.95	11.32%	89%	94%	-0.21%	Financial Services
<b>ITC</b>	302.9	13.47%	75%	87%	0.64%	Fast Moving Consumer Goods
<b>INDUSINDBK</b>	1015.55	12.67%	96%	93%	-0.34%	Financial Services
<b>INFY</b>	1516.45	7.32%	96%	97%	0.49%	Information Technology
<b>JSWSTEEL</b>	617	11.48%	99%	96%	0.32%	Metals & Mining
<b>KOTAKBANK</b>	1830.45	-4.08%	96%	96%	0.16%	Financial Services
<b>LT</b>	1798.2	14.43%	74%	87%	0.63%	Construction
<b>M&amp;M</b>	1147.55	23.21%	76%	81%	0.59%	Automobile and Auto Components
<b>MARUTI</b>	8718.2	11.42%	95%	94%	-0.33%	Automobile and Auto Components
<b>NTPC</b>	150.15	-0.63%	79%	87%	-1.37%	Power
<b>NESTLEIND</b>	19117.95	8.13%	91%	96%	0.38%	Fast Moving Consumer Goods
<b>ONGC</b>	130.45	-14.21%	66%	77%	-1.99%	Oil Gas & Consumable Fuels
<b>POWERGRID</b>	214.4	-5.70%	90%	87%	-0.61%	Power
<b>RELIANCE</b>	2453.05	-5.44%	95%	96%	0.27%	Oil Gas & Consumable Fuels
<b>SBILIFE</b>	1186.8	7.30%	70%	87%	0.69%	Financial Services
<b>SHREECEM</b>	20376.05	-4.77%	97%	96%	-1.35%	Construction Materials
<b>SBIN</b>	532.5	13.17%	87%	91%	0.42%	Financial Services
<b>SUNPHARMA</b>	891.35	-0.55%	86%	93%	0.37%	Healthcare
<b>TCS</b>	3254.9	0.61%	97%	96%	0.51%	Information Technology
<b>TATACONSUM</b>	806.35	12.41%	94%	96%	0.40%	Fast Moving Consumer Goods
<b>TATAMOTORS</b>	442.35	4.76%	96%	95%	0.52%	Automobile and Auto Components
<b>TATASTEEL</b>	100.1	-90.05%	89%	94%	0.50%	Metals & Mining
<b>TECHM</b>	1037.35	-4.15%	94%	96%	0.56%	Information Technology
<b>TITAN</b>	2335	8.97%	91%	93%	0.45%	Consumer Durables
<b>UPL</b>	726.2	-2.91%	97%	88%	0.63%	Chemicals
<b>ULTRACEMCO</b>	6458.7	9.79%	92%	95%	0.04%	Construction Materials
<b>WIPRO</b>	416.1	-8.29%	97%	95%	0.52%	Information Technology

# ROLLOVER STATISTICS

## ALL FO STOCKS

Symbol	Closing	Exp % chng	July Rollover %	3m Avg Rollover %	Rollover Cost	Sector
AARTIIND	761.75	1.32%	93%	92%	0.66%	Chemicals
ABB	2723.55	23.93%	93%	86%	0.26%	Capital Goods
ABBOTINDIA	19756.65	11.43%	96%	93%	-0.77%	Healthcare
ABCAPITAL	103.15	5.42%	94%	94%	0.82%	Financial Services
ABFRL	267.05	3.63%	94%	95%	0.62%	Consumer Services
ACC	2179.7	-1.63%	73%	82%	0.35%	Cement
ADANIENT	2553.45	24.31%	98%	98%	0.47%	Metals & Mining
ADANIPTS	764.9	8.94%	99%	98%	0.46%	Services
ALKEM	3238.6	6.55%	91%	90%	-0.48%	Healthcare
AMARAJABAT	479.5	-2.85%	97%	97%	0.52%	Automobile and Auto Components
AMBUJACEM	371.3	1.42%	83%	87%	0.34%	Construction Materials
APOLLOHOSP	4198.35	14.49%	95%	96%	0.03%	Healthcare
APOLLOTYRE	217.55	1.78%	92%	91%	0.02%	Automobile and Auto Components
ASHOKLEY	145.2	5.26%	95%	92%	0.52%	Capital Goods
ASIANPAINT	3271.8	15.41%	95%	96%	0.31%	Consumer Durables
ASTRAL	1794.5	7.46%	96%	94%	0.54%	Capital Goods
ATUL	8704.3	9.30%	88%	94%	0.59%	Chemicals
AUBANK	589.9	-54.27%	97%	96%	-1.25%	Financial Services
AUOPHARMA	543.3	1.67%	92%	95%	0.37%	Healthcare
AXISBANK	724.7	5.91%	85%	92%	0.50%	Financial Services
BAJAJ-AUTO	3855	4.98%	90%	92%	0.20%	Automobile and Auto Components
BAJAJFINSV	14622.25	16.61%	91%	94%	0.40%	Financial Services
BAJFINANCE	7092.45	21.81%	90%	93%	0.21%	Financial Services
BALKRISIND	2278.5	3.55%	89%	92%	0.30%	Automobile and Auto Components
BALRAMCHIN	383.15	2.00%	95%	92%	0.73%	Fast Moving Consumer Goods
BANDHANBNK	281.2	-10.97%	94%	96%	0.36%	Financial Services
BANKBARODA	117.2	21.33%	96%	92%	0.55%	Financial Services
BATAINDIA	1884.3	6.46%	97%	94%	-2.51%	Consumer Durables
BEL	272.6	20.06%	85%	91%	-0.15%	Capital Goods
BERGEPAINT	616.75	8.51%	96%	95%	-0.06%	Consumer Durables
BHARATFORG	727.7	8.70%	88%	93%	0.29%	Capital Goods
BHARTIARTL	667.5	-3.66%	98%	97%	-0.02%	Telecommunication
BHEL	53.1	5.57%	93%	93%	0.66%	Capital Goods
BIOCON	306.9	-6.02%	96%	94%	0.59%	Healthcare
BOSCHLTD	16579.8	19.21%	93%	95%	0.64%	Automobile and Auto Components
BPCL	326.15	0.59%	77%	81%	-1.44%	Oil Gas & Consumable Fuels
BRITANNIA	3872.7	10.64%	84%	88%	0.40%	Fast Moving Consumer Goods
BSOFT	329.7	-7.06%	94%	91%	0.53%	Information Technology
CANBK	226.1	18.91%	93%	92%	0.69%	Financial Services
CANFINHOME	580.5	26.36%	81%	89%	0.51%	Financial Services
CHAMBLFERT	321.2	-7.58%	81%	87%	0.22%	Chemicals
CHOLAFIN	690.5	7.82%	89%	93%	0.41%	Financial Services
CIPLA	966.75	-0.04%	96%	96%	0.06%	Healthcare
COALINDIA	202.25	10.25%	65%	79%	-1.01%	Oil Gas & Consumable Fuels
COFORGE	3852	10.63%	92%	89%	-0.80%	Information Technology
COLPAL	1543.75	-4.43%	98%	97%	0.48%	Fast Moving Consumer Goods

# ROLLOVER STATISTICS

## ALL FO STOCKS

Symbol	Closing	Exp % chng	July Rollover %	3m Avg Rollover %	Rollover Cost	Sector
CONCOR	686.65	6.82%	73%	88%	-0.19%	Services
COROMANDEL	1061.1	15.40%	90%	78%	0.04%	Chemicals
CROMPTON	382.6	15.75%	93%	94%	0.43%	Consumer Durables
CUB	161.25	26.97%	62%	83%	0.12%	Financial Services
CUMMINSIND	1208.45	17.52%	92%	93%	-0.29%	Capital Goods
DABUR	572.85	14.80%	94%	94%	0.36%	Fast Moving Consumer Goods
DALBHARAT	1588.35	18.77%	95%	96%	0.53%	Construction Materials
DEEPAKNTR	1904	3.06%	97%	93%	0.44%	Chemicals
DELTACORP	193.2	-10.64%	85%	85%	0.41%	Consumer Services
DIVISLAB	3842.5	10.95%	98%	96%	-0.25%	Healthcare
DIXON	3573.95	6.97%	96%	92%	-1.15%	Consumer Durables
DLF	381.9	19.34%	96%	96%	-0.47%	Realty
DRREDDY	4257.65	-1.49%	96%	93%	0.58%	Healthcare
EICHERMOT	3056.1	12.08%	94%	96%	-0.24%	Automobile and Auto Components
ESCORTS	1725.25	6.97%	85%	88%	-1.54%	Capital Goods
EXIDEIND	155.85	9.37%	95%	97%	0.64%	Automobile and Auto Components
FEDERALBNK	107.05	26.39%	94%	87%	0.56%	Financial Services
FSL	109.55	6.51%	97%	94%	0.59%	Information Technology
GAIL	145.95	-2.96%	95%	92%	-0.24%	Oil Gas & Consumable Fuels
GLENMARK	381.1	-3.26%	97%	97%	0.29%	Healthcare
GMRINFRA	35.5	-4.05%	95%	93%	0.56%	Airport Services
GNFC	715.8	19.48%	91%	87%	-0.72%	Chemicals
GODREJCP	850.45	8.95%	92%	94%	0.63%	Fast Moving Consumer Goods
GODREJPROP	1459.55	12.93%	96%	96%	0.54%	Realty
GRANULES	300.35	16.01%	94%	95%	0.63%	Healthcare
GRASIM	1549.9	11.26%	94%	96%	-0.27%	Construction Materials
GSPL	229.75	-12.36%	95%	96%	0.61%	Oil Gas & Consumable Fuels
GUJGASLTD	442.8	-18.47%	94%	88%	-0.71%	Oil Gas & Consumable Fuels
HAL	2029.15	14.80%	94%	91%	-0.07%	Capital Goods
HAVELLS	1227.45	4.94%	92%	96%	0.51%	Consumer Durables
HCLTECH	942.9	-4.28%	93%	94%	0.70%	Information Technology
HDFC	2338.1	3.17%	94%	95%	0.46%	Financial Services
HDFCAMC	1944	14.10%	98%	97%	0.58%	Financial Services
HDFCBANK	1414.25	3.39%	96%	96%	0.60%	Financial Services
HDFCLIFE	531.85	-7.88%	98%	98%	0.83%	Financial Services
HEROMOTOCO	2780.85	5.35%	93%	94%	0.38%	Automobile and Auto Components
HINDALCO	391.15	-4.14%	75%	88%	-0.40%	Metals & Mining
HINDCOPPER	99.8	3.26%	91%	90%	0.35%	Metals & Mining
HINDPETRO	233.45	-0.89%	97%	95%	0.45%	Oil Gas & Consumable Fuels
HINDUNILVR	2617.95	15.32%	92%	94%	0.40%	Fast Moving Consumer Goods
HONAUT	39577.8	29.88%	94%	95%	-0.51%	Capital Goods

# ROLLOVER STATISTICS

## ALL FO STOCKS

Symbol	Closing	Exp % chng	July Rollover %	3m Avg Rollover %	Rollover Cost	Sector
IBULHSGFIN	114.6	-1.97%	68%	84%	0.83%	Financial Services
ICICIBANK	814.95	11.32%	89%	94%	-0.21%	Financial Services
ICICIGI	1188.85	-6.32%	97%	89%	0.66%	Financial Services
ICICIPRULI	529.8	0.28%	96%	94%	0.43%	Financial Services
IDEA	8.6	-1.15%	95%	91%	0.58%	Telecommunication
IDFC	54.05	12.96%	98%	95%	0.46%	Financial Services
IDFCFIRSTB	36.65	6.23%	97%	94%	0.55%	Financial Services
IEX	155.2	-14.16%	96%	95%	-0.13%	Financial Services
IGL	345.05	-6.86%	93%	94%	0.39%	Oil Gas & Consumable Fuels
INDHOTEL	262.8	19.26%	84%	90%	0.86%	Consumer Services
INDIACEM	187.35	10.76%	94%	94%	0.69%	Construction Materials
INDIAMART	4126.95	-0.16%	83%	87%	0.08%	Consumer Services
INDIGO	1844.9	1.35%	89%	94%	0.24%	Services
INDUSINDBK	1015.55	12.67%	96%	93%	-0.34%	Financial Services
INDUSTOWER	223.25	9.60%	81%	87%	-0.49%	Telecommunication
INFY	1516.45	7.32%	96%	97%	0.49%	Information Technology
INTELLECT	667.45	10.49%	95%	96%	0.48%	Information Technology
IPCALAB	997.1	8.59%	96%	94%	-0.06%	Healthcare
IRCTC	602.35	-2.03%	98%	96%	-0.18%	Consumer Services
ITC	302.9	13.47%	75%	87%	0.64%	Fast Moving Consumer Goods
JINDALSTEL	377.25	-4.35%	93%	94%	0.28%	Metals & Mining
JKCEMENT	2436.6	3.59%	95%	92%	-0.04%	Construction Materials
JSWSTEEL	617	11.48%	99%	96%	0.32%	Metals & Mining
JUBLFOOD	566.95	16.07%	96%	96%	0.30%	Consumer Services
KOTAKBANK	1830.45	-4.08%	96%	96%	0.16%	Financial Services
L&TFH	74.35	0.07%	96%	96%	0.47%	Financial Services
LALPATHLAB	2139.3	10.03%	96%	95%	-1.87%	Healthcare
LAURUSLABS	523.8	-6.83%	98%	97%	0.54%	Healthcare
LICHSGFIN	382.5	1.49%	80%	90%	0.20%	Financial Services
LT	1798.2	14.43%	74%	87%	0.63%	Construction
LTI	4654.8	20.13%	92%	94%	0.40%	Information Technology
LTTS	3392.45	1.95%	94%	95%	0.59%	Information Technology
LUPIN	640.3	6.27%	95%	91%	0.55%	Healthcare
M&M	1147.55	23.21%	76%	81%	0.59%	Automobile and Auto Components
M&MFIN	197.1	18.77%	94%	89%	0.48%	Financial Services
MANAPPURAM	97.55	7.37%	95%	94%	-0.41%	Financial Services
MARICO	515.5	-2.82%	89%	94%	0.39%	Fast Moving Consumer Goods
MARUTI	8718.2	11.42%	95%	94%	-0.33%	Automobile and Auto Components
MCDOWELL-N	780.45	2.38%	96%	97%	0.49%	Fast Moving Consumer Goods
MCX	1387.8	9.54%	75%	88%	0.23%	Financial Services
METROPOLIS	1506.95	-5.83%	92%	87%	0.67%	Healthcare
MFSL	827.5	7.45%	90%	91%	0.47%	Financial Services



# ROLLOVER STATISTICS

## ALL FO STOCKS

Symbol	Closing	Exp % chng	July Rollover %	3m Avg Rollover %	Rollover Cost	Sector
MGL	748	0.49%	97%	95%	-1.64%	Oil Gas & Consumable Fuels
MINDTREE	3328.55	20.82%	95%	96%	0.37%	Information Technology
MPHASIS	2239.65	-6.79%	97%	97%	0.37%	Information Technology
MRF	83085.15	13.17%	94%	97%	-0.63%	Automobile and Auto Components
MUTHOOTFIN	1067.2	-6.34%	96%	97%	0.32%	Financial Services
NATIONALUM	75.35	-19.37%	96%	94%	0.46%	Metals & Mining
NAUKRI	4094	15.23%	98%	96%	0.17%	Consumer Services
NAVINFLUOR	4283.7	18.94%	83%	90%	0.01%	Chemicals
NESTLEIND	19117.95	8.13%	91%	96%	0.38%	Fast Moving Consumer Goods
NMDC	105.65	-16.38%	93%	91%	0.38%	Metals & Mining
NTPC	150.15	-0.63%	79%	87%	-1.37%	Power
OBEROIRLTY	896.8	16.50%	97%	97%	0.77%	Realty
OFSS	3104.2	0.27%	96%	97%	0.60%	Information Technology
ONGC	130.45	-14.21%	66%	77%	-1.99%	Oil Gas & Consumable Fuels
PAGEIND	47608.45	14.11%	91%	96%	0.30%	Textiles
PEL	1840.3	-1.42%	90%	87%	0.41%	Financial Services
PERSISTENT	3520.6	1.76%	95%	97%	0.50%	Information Technology
PETRONET	220.25	1.43%	89%	90%	0.48%	Oil Gas & Consumable Fuels
PFC	114.7	6.95%	85%	89%	0.35%	Financial Services
PIDILITIND	2399.6	12.77%	97%	97%	0.52%	Chemicals
PIIND	3065.85	17.02%	94%	98%	0.47%	Chemicals
PNB	32.65	9.75%	95%	93%	0.61%	Financial Services
POLYCAB	2274.1	-5.66%	92%	93%	-0.07%	Capital Goods
POWERGRID	214.4	-5.70%	90%	87%	-0.61%	Power
PVR	2044	17.76%	96%	95%	0.34%	Media Entertainment & Publication
RAIN	167.4	11.56%	86%	90%	0.24%	Chemicals
RAMCOCEM	721.45	10.19%	93%	95%	-2.29%	Construction Materials
RBLBANK	92.3	-17.48%	94%	92%	0.65%	Financial Services
RECLTD	129.55	9.32%	82%	79%	0.35%	Financial Services
RELIANCE	2453.05	-5.44%	95%	96%	0.27%	Oil Gas & Consumable Fuels
SAIL	73.85	0.14%	88%	88%	0.61%	Metals & Mining
SBICARD	928.85	22.73%	96%	96%	0.59%	Financial Services
SBILIFE	1186.8	7.30%	70%	87%	0.69%	Financial Services
SBIN	532.5	13.17%	87%	91%	0.42%	Financial Services
SHREECEM	20376.05	-4.77%	97%	96%	-1.35%	Construction Materials
SIEMENS	2684.8	14.31%	91%	95%	0.61%	Capital Goods
SRF	2420.55	6.35%	94%	96%	0.44%	Chemicals
SRTRANSFIN	1463.35	27.21%	81%	88%	-0.54%	Financial Services
SUNPHARMA	891.35	-0.55%	86%	93%	0.37%	Healthcare
SUNTV	474.45	12.62%	82%	75%	-0.12%	Media Entertainment & Publication
SYNGENE	571.8	8.14%	89%	92%	0.45%	Healthcare

## ROLLOVER STATISTICS

## ALL FO STOCKS

[illegible]



## Technical Research Team :

Rohan Shah	Sr.Technical Analyst	<a href="mailto:rohanshah@bpwealth.com">rohanshah@bpwealth.com</a>
Riches Vanara	Derivative Analyst	<a href="mailto:riches@bpwealth.com">riches@bpwealth.com</a>
Kushal Gandhi	Research Associate	<a href="mailto:kushalgandhi@bpwealth.com">kushalgandhi@bpwealth.com</a>

Technical Research Desk

Tel: +91 22 61596406/11

Institutional Sales Desk

Tel: +91 22 61596403/04/05

Disclaimer Appendix

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### Corporate Office:

4th floor, Rustom Bldg,  
29, Veer Nariman Road, Fort,Mumbai-400001  
Phone- +91 22 6159 6464 Fax-+91 22 6159 6160  
Website- [www.bpwealth.com](http://www.bpwealth.com)

### Registered Office:

24/26, 1st Floor, Cama Building,  
Dalal street, Fort,  
Mumbai-400001  
BP Equities Pvt. Ltd.

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