

Strategy

India MF Monthly Flow Tracker - Oct'25

In Oct'25, equity mutual funds (ex-arbitrage) saw inflows of INR 322bn (USD 3.6bn), 22% lower MoM. This follows a 3% MoM fall in inflows in Sep'25. SIP inflows in Oct'25 increased over Sep'25 to INR 295bn (USD 3.3bn), taking total SIP AUM to INR 16.3trln (USD 183bn), 4.7% higher MoM. Outstanding SIP accounts in the country increased by 1.5mn MoM, while the number of new SIPs registered (gross) increased by 0.2mn from 5.8mn in Sep'25 to 6.0mn in Oct'25. Further, closure of SIP accounts stood at 4.5mn, taking the ratio of discontinued SIPs as a % of new SIPs to 75%. Vis-à-vis the BSE 200, the top-5 sectors where domestic mutual funds are overweight include: (1) pharmaceuticals & healthcare, (2) e-commerce, (3) capital goods, (4) consumer durables and (5) agrochemicals & petrochemicals. Vis-à-vis the BSE 200, the top-5 sectors where domestic mutual funds are underweight include: (1) private banks, (2) oil & gas, (3) consumer, (4) IT services and (5) metals & mining.

- **MF flows decrease 22% MoM following a 3% fall in Sep'25:** In Oct'25, equity mutual funds (ex-arbitrage) saw inflows of INR 322bn (USD 3.6bn), 22% lower MoM. This follows a 3% MoM fall in inflows in Sep'25. Arbitrage funds saw inflows of INR 69bn vs. outflows of INR 10bn in Sep'25. Core equity funds saw an inflow of INR 247bn, down 19% MoM. Thematic flows have increased MoM, and stood at INR 14bn vs. INR 12bn in Sep'25. Equity NFOs saw a rise in Oct'25 to INR 42bn vs. INR 10bn in Sep'25.
- **SIP inflows and SIP accounts see an increase:** SIP inflows in Oct'25 increased over Sep'25 to INR 295bn (USD 3.3bn), taking total SIP AUM to INR 16.3trln (USD 183bn), 4.7% higher MoM (helped by 4.5% positive market movement). Outstanding SIP accounts in the country currently stand at 98.8mn, 1.5mn higher MoM. The number of new SIPs registered (gross) increased by 0.2mn from 5.8mn in Sep'25 to 6.0mn in Oct'25. Further, closure of SIP accounts stood at 4.5mn, taking the ratio of discontinued SIPs as a % of new SIPs to 75%. The number of total contributing SIP accounts in Oct'25 increased to 94.5mn vs. 92.5mn sequentially.
- **How MF holdings stack up vs. the BSE 200:** Vis-à-vis the BSE 200, the top-5 sectors wherein domestic mutual funds are **overweight** include: (1) pharmaceuticals & healthcare, (2) e-commerce, (3) capital goods, (4) consumer durables and (5) agrochemicals & petrochemicals. This list is unchanged vs. Sep'25. Besides this, sectors such as building materials, media, sugar and diversified have seen mutual funds taking exposure, although they do not have any weight in the BSE200. Vis-à-vis the BSE 200, the top-5 sectors wherein domestic mutual funds are **underweight** include: (1) private banks, (2) oil & gas, (3) consumer, (4) IT services and (5) metals & mining. This list is also unchanged vs. Sep'25.
- **Indian MF cash levels:** Indian MFs cash levels stood at INR 2,091bn, which is 4.7% of total equity AUM. In September, this number was lower at INR 1,991bn, constituting 4.7% of AUM.



Venkatesh Balasubramaniam

venkatesh.balasubramaniam@jmfl.com | Tel: (91 22) 66303081

Shanay Mehta

shanay.mehta@jmfl.com | Tel.: (91 22) 69703680

Shalin Choksy

shalin.choksy@jmfl.com | Tel: (91 22) 66303380

We acknowledge the contribution of **Dharmendra Sahu** in preparation of this report.

Nifty valuation table (JMFL estimates)

Particulars	FY25A	FY26E	FY27E
Nifty Index	25,960	25,960	25,960
EPS (INR)	1,019	1,100	1,274
YoY (%)	3.4	7.9	15.9
BPS (INR)	6,904	7,409	8,149
YoY (%)	6.1	7.3	10.0
PE (x)	25.5	23.6	20.4
PB (x)	3.8	3.5	3.2
ROE (%)	15.2	15.4	16.4

Source: Company, JM Financial

Nifty valuation table (Bloomberg estimates)

Particulars	FY25A	FY26E	FY27E
Nifty Index	25,960	25,960	25,960
EPS (INR)	1,019	1,102	1,275
YoY (%)	3.4	8.1	15.8
PE (x)	25.5	23.6	20.4
ROE (%)	15.1	15.3	15.1

Source: Company, JM Financial

JM Financial Research is also available on: Bloomberg - JMFR <GO>, FactSet, LSEG and S&P Capital IQ.

Please see Appendix I at the end of this report for Important Disclosures and Disclaimers and Research Analyst Certification.

- In Oct'25, equity mutual funds (ex-arbitrage) saw inflows of INR 322bn (USD 3.6bn), 22% lower MoM. This follows a 3% MoM fall in inflows in Sep'25. Arbitrage funds saw inflows of INR 69bn vs. outflows of INR 10bn in Sep'25.
- Core equity funds saw an inflow of INR 247bn, down 19% MoM.
- Thematic flows have increased MoM, and stood at INR 14bn vs. INR 12bn in Sep'25.
- In core equity funds, all funds except Thematic and Flexi Cap funds saw a decrease in inflows MoM. Dividend Yield and ELSS funds saw outflows in Oct'25.
- Equity NFOs saw a rise in Oct'25 to INR 42bn vs. INR 10bn in Sep'25.

Exhibit 1. Equity inflows into mutual funds (INR mn)

Equity	Nov'24	Dec'24	Jan'25	Feb'25	Mar'25	Apr'25	May'25	Jun'25	Jul'25	Aug'25	Sep'25	Oct'25
Multi Cap Fund	36,265	30,751	35,674	25,177	27,530	25,517	29,993	27,942	39,908	31,931	35,596	25,004
Large Cap Fund	25,479	20,110	30,633	28,660	24,793	26,715	12,505	16,943	21,251	28,349	23,190	9,720
Large & Mid Cap Fund	46,797	38,118	41,230	26,560	27,181	25,521	26,907	34,969	50,347	33,257	38,052	31,771
Mid Cap Fund	48,834	50,932	51,479	34,069	34,389	33,140	28,087	37,544	51,825	53,306	50,854	38,071
Small Cap Fund	41,119	46,677	57,209	37,225	40,921	40,000	32,142	40,245	64,844	49,929	43,629	34,760
Dividend Yield Fund	2,156	2,772	2,146	686	1,405	515	-208	455	967	-1,747	-1,678	-1,790
Value Fund/Contra Fund	20,880	15,139	15,565	13,474	15,534	10,732	-923	11,594	14,700	11,410	21,079	3,684
Focused Fund	4,300	4,558	7,831	12,877	13,863	8,848	9,472	9,650	16,060	11,552	14,072	9,391
Sectoral/Thematic Funds	76,578	1,53,315	90,166	57,116	1,701	20,009	20,525	4,756	94,260	38,932	12,209	13,662
Flexi Cap Fund	50,841	47,307	56,976	51,042	56,150	55,417	38,413	57,332	76,543	76,794	70,293	89,287
ELSS	6,023	1,682	7,786	5,531	6,702	-3,876	-6,967	-5,752	-3,979	461	-3,248	-6,844
Core Equity	3,59,273	4,11,362	3,96,693	2,92,417	2,50,168	242,537	189,946	235,679	426,726	334,173	304,048	246,716
Arbitrage Fund	-13,529	-4,091	42,917	35,923	-28,546	117,904	157,020	155,846	72,957	66,665	-9,883	69,198
Balanced/Aggressive Hybrid	9,140	3,276	6,330	3,101	2,937	-1,515	3,414	13,315	23,636	18,704	20,137	11,392
Equity Savings	5,857	4,505	4,021	900	-5,611	-1,419	5,695	10,729	21,036	8,688	17,470	2,118
Balanced (Hybrid + Solution)												
Conservative Hybrid Fund	-366	-1,701	-1,942	-815	-2,710	-2,364	893	1,382	3,082	436	-460	18
Balanced Advantage	15,696	15,961	15,121	6,644	7,761	8,812	11,361	18,855	26,112	23,165	16,886	5,397
Multi Asset Allocation	24,439	25,747	21,228	22,284	16,703	21,057	29,268	32,100	61,972	35,279	49,822	53,442
Retirement Fund	1,660	1,326	1,021	1,090	1,083	760	529	785	1,189	1,345	968	1,040
Children's Fund	1,533	2,008	1,409	1,372	1,329	1,299	1,244	1,280	1,637	1,856	1,894	1,570
Total Equity inflow	4,03,703	4,58,393	4,86,799	3,62,917	2,43,114	387,071	399,369	469,971	638,348	490,311	400,882	390,890
Arbitrage inflow	-13,529	-4,091	42,917	35,923	-28,546	117,904	157,020	155,846	72,957	66,665	-9,883	69,198
Total Equity (ex-arbitrage)	4,17,232	4,62,484	4,43,882	3,26,994	2,71,660	269,167	242,350	314,125	565,390	423,646	410,764	321,693

Source: AMFI, JM Financial

Exhibit 2. Monthly SIP inflows (Nov'24-Oct'25)

Date	Monthly SIP (INR bn)	Outstanding SIP Accounts (mn)	New SIPs registered (mn)	SIPs discontinued (mn)	SIPs discontinued as % of new SIPs	Contributing SIP Accounts	SIP AUM (INR trn)	SIP AUM (% MoM)	Nifty (% MoM)
Nov'24	253	102.3	4.9	3.9	79%	79.7	13.5	1.5%	-0.3%
Dec'24	265	103.2	5.4	4.5	83%	82.7	13.6	0.7%	-2.0%
Jan'25	264	102.7	5.6	6.1	109%	83.5	13.2	-2.9%	-0.6%
Feb'25	260	101.7	4.5	5.5	123%	82.6	12.4	-6.1%	-5.9%
Mar'25	259	100.5	4.0	5.2	128%	81.1	13.4	8.1%	6.2%
Apr'25	266	88.9	4.6	16.2*	353%*	83.8	13.9	4.0%	3.5%
May'25	267	90.6	5.9	4.3	72%	85.6	14.6	5.2%	1.7%
Jun'25	273	91.9	6.2	4.8	78%	86.5	15.3	4.7%	3.1%
Jul'25	285	94.5	6.9	4.3	63%	91.1	15.2	-0.7%	-3.0%
Aug'25	283	95.9	5.5	4.1	75%	89.9	15.2	-0.1%	-1.4%
Sep'25	294	97.3	5.8	4.4	76%	92.5	15.5	2.2%	0.8%
Oct'25	295	98.8	6.0	4.5	75%	94.5	16.3	4.7%	4.5%

Source: AMFI, JM Financial

*Note: Include accounts discontinued due to a one-off cleaning exercise conducted by AMFI

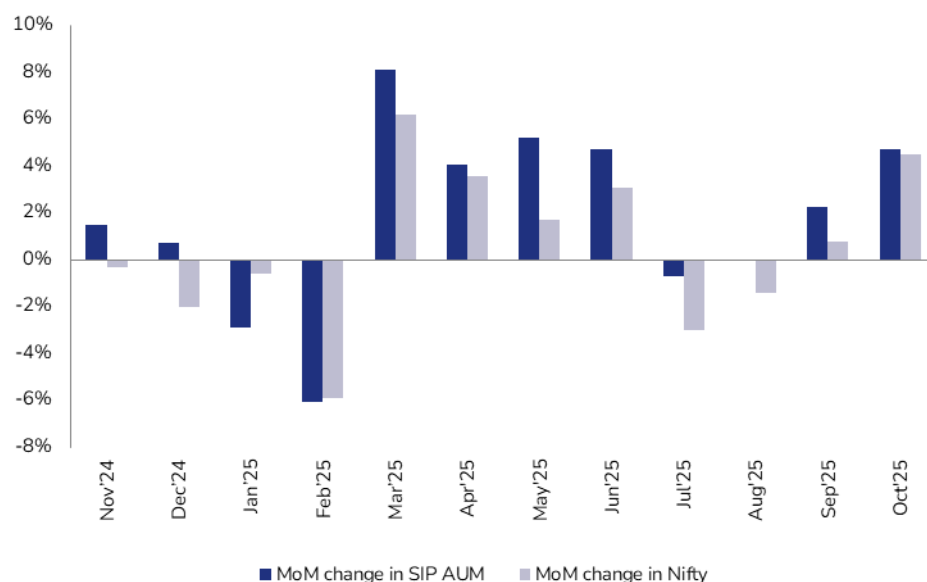
SIP inflows in Oct'25 increased over Sep'25 to INR 295bn (USD 3.3bn), taking total SIP AUM to INR 16.3trln (USD 183bn), 4.7% higher MoM (helped by 4.5% positive market movement).

Outstanding SIP accounts in the country currently stand at 98.8mn, 1.5mn higher MoM.

The number of new SIPs registered (gross) increased by 0.2mn from 5.8mn in Sep'25 to 6.0mn in Oct'25. Further, closure of SIP accounts stood at 4.5mn, taking the ratio of discontinued SIPs as a % of new SIPs to 75%.

Number of total contributing SIP accounts in Oct'25 increased to 94.5mn vs. 92.5mn sequentially.

Exhibit 3. Monthly change in SIP AUM vs. MoM Change in Nifty50



Source: AMFI, JM Financial

Exhibit 4. Sectors MFs are overweight in vs. BSE 200 (%)

Sector	Overweight	BSE200	MF Industry
Pharmaceuticals & Healthcare	1.7	5.0	6.7
e-Commerce	0.8	2.1	2.9
Capital Goods	0.8	3.7	4.6
Consumer Durables	0.8	0.6	1.3
AgroChem & Petrochemicals	0.6	1.4	1.9
Textiles, Apparels & Accessories	0.3	0.2	0.5
Ceramics, Plyboards & Glass	0.2	0.0	0.2
Cable	0.2	0.2	0.4
Hotels, Restaurants & Tourism	0.2	0.5	0.7
Media	0.1	0.0	0.1
Sugar	0.1	0.0	0.1
Diversified	0.1	0.0	0.1

Source: AMFI, JM Financial

Vis-à-vis the BSE 200, the top-5 sectors where domestic mutual funds are overweight include: pharmaceuticals & healthcare, e-commerce, capital goods, consumer durables and agrochemicals & petrochemicals (no change vs. Sep'25).

Besides this, sectors such as building materials, media, sugar and diversified have seen mutual funds taking exposure, although they do not have any weight in the BSE200.

Exhibit 5. Sectors MFs are underweight in vs. BSE 200 (%)

Sector	Underweight	BSE200	MF Industry
Private Banks	-4.3	19.7	15.4
Oil & Gas	-2.8	8.1	5.3
Consumer	-2.1	7.1	5.0
Software & Services	-1.8	8.9	7.1
Metals & Mining	-1.4	3.9	2.5
Telecom Services	-1.1	4.0	2.9
Engineering - Construction	-0.8	3.4	2.6
PSU Banks	-0.5	3.6	3.0
Automobiles & Auto Components	-0.3	7.7	7.4
Utilities	-0.3	3.4	3.2
Port & Logistics	-0.2	1.7	1.5
Paints	-0.2	0.8	0.6
Cement	-0.2	1.9	1.8
Coal	-0.2	0.6	0.4
Insurance	-0.1	1.6	1.5
Realty	-0.0	1.2	1.1
Retailing	-0.0	2.1	2.1
NBFC - AMC	-0.0	0.3	0.3

Source: AMFI, JM Financial

Vis-à-vis the BSE 200, the top-5 sectors wherein domestic mutual funds are underweight include: private banks, oil & gas, consumer, IT services and metals & mining (no change vs. Sep'25).

Exhibit 6. Top sectors (and the stocks therein) that have witnessed high levels of buying

Sector	Buy Value (INR mn)	Top-5 Buy	Top-3 Sell
NBFC	76,524	Tata Capital, BSE, Shriram Finance, Aditya Birla Capital, Bajaj Finance	Cholamandalam, HDFC AMC, M&M Financial
Consumer	66,987	ITC, Lenskart, Godrej Consumer, Britannia, Jubilant	Dabur India, Radico Khaitan, Marico
Consumer Durables	62,970	LG, Dixon, Crompton Greaves, Amber Enterprises India, Whirlpool	Honeywell Automation, Manorama, Blue Star
Banks PVT	47,612	ICICI, HDFC, IndusInd, Ujjivan Small Finance, IDFC First	Axis Bank, RBL Bank, Jana Small Finance Bank
Insurance	34,627	Canara HSBC, ICICI Prudential, HDFC Life, ICICI Lombard, Go Digit	SBI Life Insurance Company
Pharma & Healthcare	21,405	Rubicon, Glenmark, Laurus Labs, Thyrocare Technologies, Dr. Reddy's	Fortis Healthcare, Zydus Lifesciences, Cipla
Utilities	19,360	Adani Power, Adani Green, Adani Energy, Adani Enterprises, Power Grid	NTPC, Siemens Energy India, NHPC
Cement	16,959	Dalmia Bharat, Ultratech, Ambuja, Grasim, The Ramco Cements	ACC, Shree Cement
Realty	16,126	Wework India, Lodha Developers, NBCC, Brigade, Prestige Estates	DLF, The Phoenix Mills, Oberoi Realty
e-Commerce	14,063	Swiggy, PB Fintech, Delhivery, Brainbees Solutions, Eternal	One97 Communications, FSN E-Commerce, Sagility

Source: AMFI, JM Financial

Exhibit 7. Top sectors (and the stocks therein) that have witnessed high levels of selling

Sector	Sell Value (INR mn)	Top-5 Sell	Top-3 Buy
Auto & Auto Components	-34,954	Tata Motors Passenger, Maruti, Bajaj Auto, TVS Motor, Ashok Leyland	Hero MotoCorp, Bharat Forge, Sona BLW
Oil & Gas	-26,988	Reliance Ind, HPCL, GAIL, BPCL, ONGC	Petronet LNG, Oil India, Linde India
Telecom Services	-22,105	Bharti Airtel, Tata Communications, Vodafone Idea	Indus Towers, Bharti Hexacom, Pace Digitek
Coal	-18,576	Coal India	Sandur Manganese & Iron Ores
Banks PSU	-7,419	SBI, Indian Bank, Canara Bank, BOI	PNB, BOB, Union Bank
Engineering - Construction	-7,305	L&T, Sterling and Wilson, Kalpataru Projects, H.G. Infra, Interarch0	Afcons Infrastructure, GMR Airports, NCC
Port & Logistics	-3,615	Adani Ports, Mazagon Dock, BlackBuck, Aegis Logistics, JSW Infra	Interglobe Aviation, CONCOR, The Great Eastern
Cable	-1,705	Polycab India, Finolex Cables, Universal Cables, Quadrant Future Tek	RR Kabel, KEI Industries, Sterlite Technologies
Media	-1,136	PVR Inox, Zee Ent, Tips Music, Saregama India	Sun TV Network, Network 18, D.B. Corp
Diversified	-76	Birla Corporation, DCM Shriram, Surya Roshni	3M India

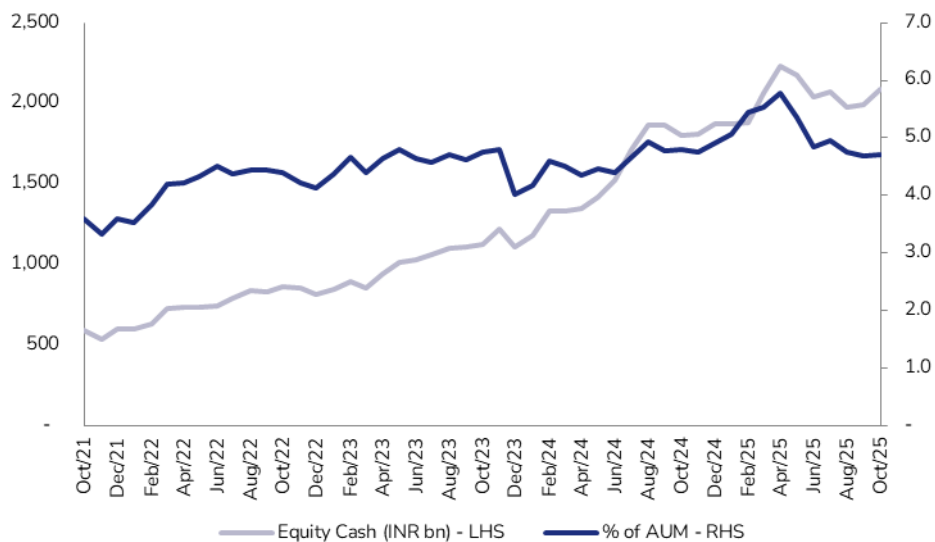
Source: AMFI, JM Financial

Exhibit 8. Stocks that have seen additions and reductions by MFs (INR mn)

Top stocks added by MFs	Net Buy Value (INR mn)	Top stocks reduced by MFs	Net Sell Value (INR mn)
ITC	78,512	Max Financial Services	-10,938
HDFC Bank	57,302	FSN E-Commerce	-10,623
Bharti Airtel	52,826	Coromandel International	-8,648
Eternal	51,482	Container Corporation	-7,436
Interglobe Aviation	49,705	BSE	-7,350
State Bank Of India	31,005	Coal India	-7,310
Kotak Mahindra Bank	26,233	Samvardhana Motherson	-7,147
Swiggy	22,759	The Indian Hotels	-6,953
PNB Housing Finance	13,597	Max Healthcare Institute	-6,444
Asian Paints	12,376	Coforge	-6,226
One97 Communications	11,153	Aditya Birla Fashion	-6,086
NTPC	10,659	Hitachi Energy India	-5,804
Axis Bank	10,387	Supreme Industries	-5,258
Bajaj Auto	8,746	Bharat Electronics	-5,227
Hindustan Unilever	8,312	The Ramco Cements	-5,148

Source: AMFI, JM Financial

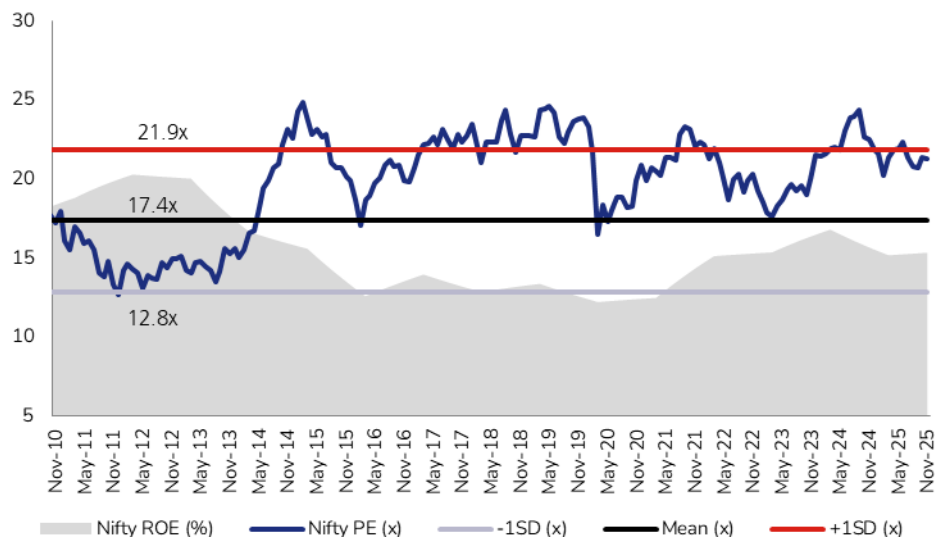
Exhibit 9. Cash levels with Indian MFs



Indian MFs cash levels stood at INR 2,091bn, which is 4.7% of total equity AUM. In September, this number was lower at INR 1,991bn, constituting 4.7% of AUM.

Source: Company, Bloomberg, JM Financial

Exhibit 10. Nifty50 – 1-year forward P/E chart



Source: Company, Bloomberg, JM Financial

APPENDIX I

JM Financial Institutional Securities Limited

Corporate Identity Number: U67100MH2017PLC296081

Member of BSE Ltd. and National Stock Exchange of India Ltd.

SEBI Registration Nos.: Stock Broker - INZ000163434, Research Analyst - INH000000610

Registered Office: 7th Floor, Cnergy, Appasaheb Marathe Marg, Prabhadevi, Mumbai 400 025, India.

Board: +91 22 6630 3030 | Fax: +91 22 6630 3488 | Email: jmfinancial.research@jmfl.com | www.jmfl.comCompliance Officer: Ms. Ashley Johnson | Tel: +91 22 6224 1862 | Email: ashley.johnson@jmfl.comGrievance Officer: Ms. Ashley Johnson | Tel: +91 22 6224 1862 | Email: instcompliance@jmfl.com

Investment in securities market are subject to market risks. Read all the related documents carefully before investing.

New Rating System: Definition of ratings	
Rating	Meaning
BUY	Expected return $\geq$ 15% over the next twelve months.
ADD	Expected return $\geq$ 5% and $<$ 15% over the next twelve months.
REDUCE	Expected return $\geq$ -10% and $<$ 5% over the next twelve months.
SELL	Expected return $<$ -10% over the next twelve months.

Note: For REITs (Real Estate Investment Trust) and InvIT (Infrastructure Investment Trust) total expected returns include dividends or DPU (distribution per unit)

Previous Rating System: Definition of ratings	
Rating	Meaning
BUY	Total expected returns of more than 10% for stocks with market capitalisation in excess of INR 200 billion and REITs* and more than 15% for all other stocks, over the next twelve months. Total expected return includes dividend yields.
HOLD	Price expected to move in the range of 10% downside to 10% upside from the current market price for stocks with market capitalisation in excess of INR 200 billion and REITs* and in the range of 10% downside to 15% upside from the current market price for all other stocks, over the next twelve months.
SELL	Price expected to move downwards by more than 10% from the current market price over the next twelve months.

* REITs refers to Real Estate Investment Trusts.

Research Analyst(s) Certification

The Research Analyst(s), with respect to each issuer and its securities covered by them in this research report, certify that:

All of the views expressed in this research report accurately reflect his or her or their personal views about all of the issuers and their securities; and

No part of his or her or their compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed in this research report.

Important Disclosures

This research report has been prepared by JM Financial Institutional Securities Limited (JM Financial Institutional Securities) to provide information about the company(ies) and sector(s), if any, covered in the report and may be distributed by it and/or its associates solely for the purpose of information of the select recipient of this report. This report and/or any part thereof, may not be duplicated in any form and/or reproduced or redistributed without the prior written consent of JM Financial Institutional Securities. This report has been prepared independent of the companies covered herein.

JM Financial Institutional Securities is registered with the Securities and Exchange Board of India (SEBI) as a Research Analyst and a Stock Broker having trading memberships of the BSE Ltd. (BSE) and National Stock Exchange of India Ltd. (NSE). No material disciplinary action has been taken by SEBI against JM Financial Institutional Securities in the past two financial years which may impact the investment decision making of the investor. Registration granted by SEBI and certification from the National Institute of Securities Market (NISM) in no way guarantee performance of JM Financial Institutional Securities or provide any assurance of returns to investors.

JM Financial Institutional Securities renders stock broking services primarily to institutional investors and provides the research services to its institutional clients/investors. JM Financial Institutional Securities and its associates are part of a multi-service, integrated investment banking, investment management, brokerage and financing group. JM Financial Institutional Securities and/or its associates might have provided or may provide services in respect of managing offerings of securities, corporate finance, investment banking, mergers & acquisitions, broking, financing or any other advisory services to the company(ies) covered herein. JM Financial Institutional Securities and/or its associates might have received during the past twelve months or may receive compensation from the company(ies) mentioned in this report for rendering any of the above services.

JM Financial Institutional Securities and/or its associates, their directors and employees may; (a) from time to time, have a long or short position in, and buy or sell the securities of the company(ies) mentioned herein or (b) be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) covered under this report or (c) act as an advisor or lender/borrower to, or may have any financial interest in, such company(ies) or (d) considering the nature of business/activities that JM Financial Institutional Securities is engaged in, it may have potential conflict of interest at the time of publication of this report on the subject company(ies).

Neither JM Financial Institutional Securities nor its associates or the Research Analyst(s) named in this report or his/her relatives individually own one per cent or more securities of the company(ies) covered under this report, at the relevant date as specified in the SEBI (Research Analysts) Regulations, 2014.

The Research Analyst(s) principally responsible for the preparation of this research report and their immediate relatives are prohibited from buying or selling debt or equity securities, including but not limited to any option, right, warrant, future, long or short position issued by company(ies) covered under this report. The Research Analyst(s) principally responsible for the preparation of this research report or their immediate relatives (as defined under SEBI (Research Analysts) Regulations, 2014); (a) do not have any financial interest in the company(ies) covered under this report or (b) did not receive any compensation from the company(ies) covered under this report, or from any third party, in connection with this report or (c) do not have any other material conflict of interest at the time of publication of this report. Research Analyst(s) are not serving as an officer, director or employee of the company(ies) covered under this report.

While reasonable care has been taken in the preparation of this report, it does not purport to be a complete description of the securities, markets or developments referred to herein, and JM Financial Institutional Securities does not warrant its accuracy or completeness. JM Financial Institutional Securities may not be in any way responsible for any loss or damage that may arise to any person from any inadvertent error in the information contained in this report. This report is provided for information only and is not an investment advice and must not alone be taken as the basis for an investment decision.

This research report is based on the fundamental research/analysis conducted by the Research Analyst(s) named herein. Accordingly, this report has been prepared by studying/focusing on the fundamentals of the company(ies) covered in this report and other macro-economic factors. JM Financial Institutional Securities may have also issued or may issue, research reports and/or recommendations based on the technical/quantitative analysis of the company(ies) covered in this report by studying and using charts of the stock's price movement, trading volume and/or other volatility parameters. As a result, the views/recommendations expressed in such technical research reports could be inconsistent or even contrary to the views contained in this report.

The investment discussed or views expressed or recommendations/opinions given herein may not be suitable for all investors. The user assumes the entire risk of any use made of this information. The information contained herein may be changed without notice and JM Financial Institutional Securities reserves the right to make modifications and alterations to this statement as they may deem fit from time to time.

This report is neither an offer nor solicitation of an offer to buy and/or sell any securities mentioned herein and/or not an official confirmation of any transaction.

This report is not directed or intended for distribution to, or use by any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject JM Financial Institutional Securities and/or its affiliated company(ies) to any registration or licensing requirement within such jurisdiction. The securities described herein may or may not be eligible for sale in all jurisdictions or to a certain category of investors. Persons in whose possession this report may come, are required to inform themselves of and to observe such restrictions. Please click [here](#) to access our detailed Terms and Conditions, including the Most Important Terms and Conditions.

Additional disclosure only for U.S. persons: JM Financial Institutional Securities has entered into an agreement with JM Financial Securities, Inc. ("JM Financial Securities"), a U.S. registered broker-dealer and member of the Financial Industry Regulatory Authority ("FINRA") in order to conduct certain business in the United States in reliance on the exemption from U.S. broker-dealer registration provided by Rule 15a-6, promulgated under the U.S. Securities Exchange Act of 1934 (the "Exchange Act"), as amended, and as interpreted by the staff of the U.S. Securities and Exchange Commission ("SEC") (together "Rule 15a-6").

This research report is distributed in the United States by JM Financial Securities in compliance with Rule 15a-6, and as a "third party research report" for purposes of FINRA Rule 2241. In compliance with Rule 15a-6(a)(3) this research report is distributed only to "major U.S. institutional investors" as defined in Rule 15a-6 and is not intended for use by any person or entity that is not a major U.S. institutional investor. If you have received a copy of this research report and are not a major U.S. institutional investor, you are instructed not to read, rely on, or reproduce the contents hereof, and to destroy this research or return it to JM Financial Institutional Securities or to JM Financial Securities.

This research report is a product of JM Financial Institutional Securities, which is the employer of the research analyst(s) solely responsible for its content. The research analyst(s) preparing this research report is/are resident outside the United States and are not associated persons or employees of any U.S. registered broker-dealer. Therefore, the analyst(s) are not subject to supervision by a U.S. broker-dealer, or otherwise required to satisfy the regulatory licensing requirements of FINRA and may not be subject to the Rule 2241 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account.

Any U.S. person who is recipient of this report that wishes further information regarding, or to effect any transaction in, any of the securities discussed in this report, must contact, and deal directly through a U.S. registered representative affiliated with a broker-dealer registered with the SEC and a member of FINRA. In the U.S., JM Financial Institutional Securities has an affiliate, JM Financial Securities, Inc. located at 1325 Avenue of the Americas, 27th Floor, Office No. 2715, New York, New York 10019. Telephone +1 (332) 900 4958 which is registered with the SEC and is a member of FINRA and SIPC.

Additional disclosure only for U.K. persons: Neither JM Financial Institutional Securities nor any of its affiliates is authorised in the United Kingdom (U.K.) by the Financial Conduct Authority. As a result, this report is for distribution only to persons who (i) have professional experience in matters relating to investments falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended, the "Financial Promotion Order"), (ii) are persons falling within Article 49(2)(a) to (d) ("high net worth companies, unincorporated associations etc.") of the Financial Promotion Order, (iii) are outside the United Kingdom, or (iv) are persons to whom an invitation or inducement to engage in investment activity (within the meaning of section 21 of the Financial Services and Markets Act 2000) in connection with the matters to which this report relates may otherwise lawfully be communicated or caused to be communicated (all such persons together being referred to as "relevant persons"). This report is directed only at relevant persons and must not be acted on or relied on by persons who are not relevant persons. Any investment or investment activity to which this report relates is available only to relevant persons and will be engaged in only with relevant persons.

Additional disclosure only for Canadian persons: This report is not, and under no circumstances is to be construed as, an advertisement or a public offering of the securities described herein in Canada or any province or territory thereof. Under no circumstances is this report to be construed as an offer to sell securities or as a solicitation of an offer to buy securities in any jurisdiction of Canada. Any offer or sale of the securities described herein in Canada will be made only under an exemption from the requirements to file a prospectus with the relevant Canadian securities regulators and only by a dealer properly registered under applicable securities laws or, alternatively, pursuant to an exemption from the registration requirement in the relevant province or territory of Canada in which such offer or sale is made. This report is not, and under no circumstances is it to be construed as, a prospectus or an offering memorandum. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed upon these materials, the information contained herein or the merits of the securities described herein and any representation to the contrary is an offence. If you are located in Canada, this report has been made available to you based on your representation that you are an "accredited investor" as such term is defined in National Instrument 45-106 Prospectus Exemptions and a "permitted client" as such term is defined in National Instrument 31-103 Registration Requirements, Exemptions and Ongoing Registrant Obligations. Under no circumstances is the information contained herein to be construed as investment advice in any province or territory of Canada nor should it be construed as being tailored to the needs of the recipient. Canadian recipients are advised that JM Financial Securities, Inc., JM Financial Institutional Securities Limited, their affiliates and authorized agents are not responsible for, nor do they accept, any liability whatsoever for any direct or consequential loss arising from any use of this research report or the information contained herein.