

CAMS

BSE Sensex	S&P CNX
66,599	19,820



Bloomberg	CAMS IN
Equity Shares (m)	49
M.Cap.(INRb)/(USDb)	120.8 / 1.5
52-Week Range (INR)	2690 / 2002
1, 6, 12 Rel. Per (%)	2/-4/-7
12M Avg Val (INR M)	298

Financials & Valuations (INR b)

Tillaticiais & Valuacions (IIVIV D)					
2023	2024E	2025E			
27.3	32.0	36.7			
9.7	10.7	12.3			
4.2	4.7	5.6			
43.3	43.7	45.9			
2.8	3.2	4.0			
29	30	32			
58.1	65.7	80.9			
-0.8	13.1	23.2			
159.7	182.5	210.9			
39.8	38.4	41.1			
65.0	65.0	65.0			
42.4	37.5	30.5			
15.4	13.5	11.7			
1.5	1.7	2.1			
	2023 27.3 9.7 4.2 43.3 2.8 29 58.1 -0.8 159.7 39.8 65.0	2023 2024E 27.3 32.0 9.7 10.7 4.2 4.7 43.3 43.7 2.8 3.2 29 30 58.1 65.7 -0.8 13.1 159.7 182.5 39.8 38.4 65.0 65.0 42.4 37.5 15.4 13.5			

Shareholding pattern (%)

As On	Jun-23	Mar-23	Jun-22
Promoter	19.9	19.9	23.7
DII	11.7	12.9	14.7
FII	35.8	35.0	29.3
Others	32.6	32.2	32.3

FII Includes depository receipts

CMP: INR2,465 TP: INR2,850 (+16%) Buy

Nurturing innovation & re-shaping the future

CAMS organized an Analyst Day to share its in-depth insights on various industry-first solutions and fresh developments in the numerous business categories it operates in.

- CAMS is the leader (~69% share) in India's MF registrar and transfer agent (RTA) industry. It earns ~90% of its revenue from MF business, while the remaining 10% from non-MF businesses such as AIF/PMS RTA, Insurance Repository, Camspay, Account Aggregator, and CRA for NPS.
- With structural tailwinds favoring the MF business and a favorable macro environment emerging for all non-MF businesses, we anticipate a robust business momentum in the foreseeable future. Each of the new businesses has the potential to generate ~INR 0.7-1b over the next three to four years.
- AIF/PMS RTA: Unlike in MFs, where CAMS only operate on the liability side, for the alternatives business, CAMS operates as a 360-degree platform. With the industry now inclined to outsource fund administration activities, CAMS has the first-mover advantage in the growing alternatives market.
- CAMSpay: With a mission to become the One-Stop Shop for payments,
 CAMSpay is poised to capitalize on the booming payments industry and enhance its offerings beyond MF industry.
- Account Aggregator: The business, while still at its nascent stage, is witnessing an exponential surge in account linkages, FIP/FIU registrations, and the number of fetches. Integration of AI with AA will enhance the use cases and result in higher monetization.
- Insurance repository: While the mandate for compulsory dematerialization of insurance policies is pending from IRDAI, the heightened awareness has led to a surge in the creation of e-insurance accounts. Bima Central has the potential to be a game changer in this segment.
- We believe that with all the steps heading in the right direction, CAMS will achieve an overall revenue growth of 13% (MF business is projected to grow by 11% and the non-MF business is expected to surge by 20%) with EBIDTA margins ranging between 43% and 45%. The share of non-MF business is expected to increase from 10% to 15% over the next 3-5 years. Currently, we have a BUY rating on the stock, with a target price of INR2,850 (a P/E multiple of 35x on FY25 earnings).

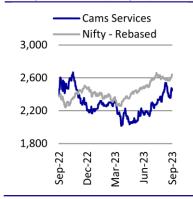
All the right triggers aiding growth in MF segment

- CAMS' technology has been pivotal in driving the rapid retail growth of the MF industry. CAMS serves ~270m unique customers with ~380m active SIP accounts. ~98% of these transactions are conducted digitally, resulting in a mere 0.002% complaints out of the total financial transactions (achieving 96.2% C-SAT score).
- CAMS has won 4 out of the last 6 AMC mandates, which include Zerodha, Helios, Torus Oro, and Angel One. Navi MF migrated to CAMS in Mar'23. The last 5 mandates won by CAMS have garnered an AUM of INR 655b, whereas its competitors have achieved only INR 145b in the same period.

Prayesh Jain - Research Analyst (Prayesh.Jain@MotilalOswal.com)

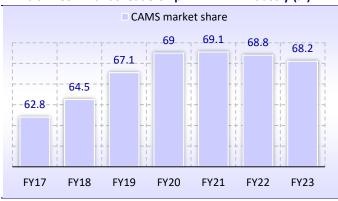
Nitin Aggarwal - Research Analyst (Nitin.Aggarwal@MotilalOswal.com) Nemin Doshi- Research Analyst (Nemin.Doshi@MotilalOswal.com)

Stock performance (one-year)



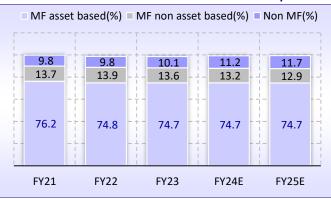
- With technology being the key enabler for consistent & reliable services, the total number of folios has surged to 820m in Jul'23 from 400m in FY15. CAMS has experienced substantial growth in transaction volume, reaching 0.46b in FY23 from 0.1b in FY15, enabling a transaction value of INR 151tn.
- CAMS has transformed the MF landscape through end-to-end automation. It provides a vast suit of integrated applications and solutions such as fundsnet (Distributor order capture), mf360 (Transaction and CRM platform), edge360 (Platform for intermediaries), CAMS GoCORP (Portal for institutional investors), vision (Browserbased fund accounting), myCAMS (Mobile App & portal for investors), etc. These are innovative digital initiatives have powered AMCs to ride the recent digital wave.
- CAMS is the single source of business intelligence and analytics for the entire MF industry with various data bureau services and predictive analytics. CAMS is future ready to serve the next INR30t assets and 100m customers in Mutual Funds.

Exhibit 1: Commands leadership in MF RTA industry (%)



Source: MOFSL, Company

Exhibit 2: MF revenue constitutes 90% of the total pie



Source: MOFSL, Company

Exhibit 3: No. of folios more than doubled in eight years



Source: MOFSL, Company

Exhibit 4: Live SIP accounts grew to 380m in Jul'23



Source: MOFSL, Company

Transactions Growth

46 Cr
Processed

10 Cr
Rs.151 Tn

FY'15
FY'23
CAMS Data

Exhibit 2: 4.6x growth in transactions in the last eight years

Source: MOFSL, Company

AIF/PMS – Aspiring to be the fastest non-MF segment to reach INR 10b in revenue

- The alternatives industry has grown at an exponential 30% CAGR in the last three years. As per CRISIL research, this industry is pegged to register a CAGR of anywhere between 27-29% till FY27.
- Reasons for the growing inclination of funds to outsource fund activities are: 1. Expanding investor base with increased retail participation, 2. Rising regulatory demands and heightened scrutiny, and 3. A gradual shift in the market outlook favoring outsourcing.
- Unlike in MFs, where CAMS only operate on the liability side, for the alternatives business, CAMS operates as a 360-degree platform. It is now the largest service partner to the domestic alternative investment segment: greater than 50% share of the outsourced market.
- CAMS is a pioneer in introducing new-to-market initiatives in the industry.
- It is a.) the First RTA as a scope for the alternatives that provides a full range of services covering TA, fund accounting, compliance, digital solutions, and other value-added services, b.) First RTA at GIFT City with fund administration services to 12 Clients, c.) First multi-tenant digital onboarding platform (CAMS WealthServ) and d.) First of its kind analytics platform for alternative investments, leveraging the breadth of data of over INR 1.80t of AUM through WealthTrak.
- Fintuple is one of the first digital platforms to onboard customers into the world of alternative investments.
- It aims to bridge the gap between the external elements of the financial ecosystem and a wide range of wealth products, all within a unified platform. Fintuple has evolved into a digital transformation partner for both banks and the broader capital market ecosystem.
- CAMS is the preferred partner for launching new-to-market funds and facilitating subsequent launches for existing funds. It has already secured 50 mandates in FY24, while WealthServ has crossed 100+ signups.

Exhibit 5: Increasing preference for specialized platform...

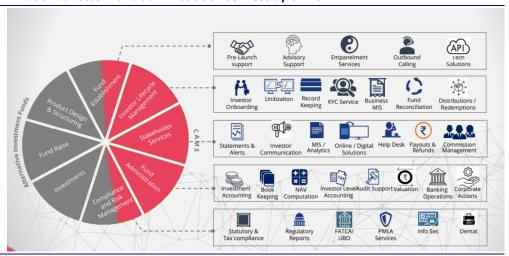


Exhibit 6: ...as regulatory oversight increases



Source: MOFSL, Company Source: MOFSL, Company

Exhibit 3: Full Stack Fund administration services by CAMS



Source: MOFSL, Company

Future is digital - CAMSPay to gain traction

- The total payment industry has seen a significant growth of 3x in volume and
 1.5x in value in the last three years.
- CAMS has expanded its presence to cater to the growing digital payment's ecosystem (merchant base growing rapidly within the BFSI space). CAMS UPI auto-pay has now tied up with AngelOne.
- The payments business in the BFSI space is expected to register a CAGR of 40% over the next five years and reach a market size of INR 400b by FY28.
- CAMSPay, a strategic business unit within CAMS, offers a panoramic range of payment solutions through its comprehensive platform. Using advanced technology and a range of features, CAMSPay offers secure and seamless payment services, customized for the needs of the BFSI and educational sectors.
- In Feb'23, CAMS received RBI's in-principle authorization to be a Payment Aggregator.
- CAMS has processed ~710m transactions, totaling INR1tn, with 20m recurring mandate registrations. It has also validated 60m bank accounts.
- The key breakout events that will take payments business to the next level are 1. Regulation changes, 2. consolidation of players, 3. financial inclusion in tier 4 and 5 (penetration of 5G and 6G).

Exhibit 4: CAMSpay is preferred because of the following reasons



State-of-the-art encryption standards and multi-tiered safeguards for ironclad transactions



Ensuring compliance with RBI & PCI DSS standards along with ISO standards



Our payment solution are designed to solve BFSI payment problems



Easily customizable interface as per the requirements of the merchants.

Source: MOFSL, Company

Regulatory triggers to boost Insurance repository business

- Currently, the insurance industry has a user base of 500m (300m for life insurance and 200m for general insurance). The annual opportunity user base (excluding one-time policy conversion) stands at 160m.
- These policies could generate 100m service transactions ~70m basic service transactions and ~30m premium service transactions with an opportunity size of INR 1-1.5b.
- CAMSRep offers a. insurance repository services to policyholders, enabling them to maintain their insurance portfolio in digital (demat) form, where it works with 45 insurers and has close to 40% market share in demat policies and b. Insurer services to offer plug-n-play customer interaction channels and processing capability to insurers. Here, CAMS has 5 long-standing relation with 5 of the top 10 life insurers and CAMS has helped to process INR 800b worth of unclaimed benefits processed via Digital Deep Contact tracing.
- **Bima Central** It is the first ever insurance benefit realization platform. It operates without making sales recommendations, prioritizing the policyholder's best interests. This approach is based on obtaining customer consent and ensuring unbiased access to all insurers. Additionally, the platform offers the capability to secure loans against policies. This is beyond the capacity of insurance companies themselves. Currently, Bima Central is in the testing phase.
- CAMS has the necessary capacity is place to scale the business as and when the mandate comes from IRDAI.

Exhibit 5: Win-win situation for policyholders and insurers

Advantage to Policyholder

- One platform to manage your insurance portfolio
- Allow the policyholder to integrate and aggregate benefits across policies
- Enhances insurance benefit understanding and hence insurance appeal
- Aligned interest No push to purchase or buy more products

Advantage to Insurer

- Syndication advantage: Insurer benefits from any and all profile updates by policyholder at a fraction of the cost
- Access to readymade ecosystem to use (like Digital Assignment along with choice of financiers)
- Improved & Deeper engagement due to portfolio aggregation and ability to combine benefits
- · Pay only for usage (by policyholder)
- Opportunity to innovate new product and service use cases

Source: MOFSL, Company

Scaling up of Account Aggregator Ecosystem

- The AA network went live in September 2021 and is still in the nascent stages. NFIR, when integrated with account aggregator system, will have a game changing impact on the financial services industry in India.
- Account Aggregator has various use cases such as Credit underwriting, credit monitoring, KYC, Life insurance underwriting insurance renewal monitoring, and insurance tech comparison.
- CAMSFinserv is the leading platform for account aggregation and TSP services.
 CAMS to go live as FIP Gateway in 1QFY24. It has a leadership position in the industry on FIP integration.
- Additionally, CAMS has pioneered a new use case for bank account verification in collaboration with AA, enhancing the efficiency of information flow.
- CAMS has tie-ups with 19 wealth management institutions, 24 stock broking firms, 17 AMCs, 33 NBFCs, 8 HFCs, and 2 banks.
- AA+TSP business is gaining momentum with expanded outreach and superior product positioning. CAMS grew 57% MoM over the last eight months. CAMS has a monthly run rate of 0.5m pulls through AA with 12%+ market share.
- CAMS offers a comprehensive range of services tailored to various segments, with each use case serving specific needs. E.g. a bank statement analyzer for assessing loan eligibility, a Personal Finance Manager for efficient portfolio management and asset allocation.
- CAMS envisions the industry reaching a daily usage of 1m pulls by FY28.

Exhibit 7: Unique propositions of AA...

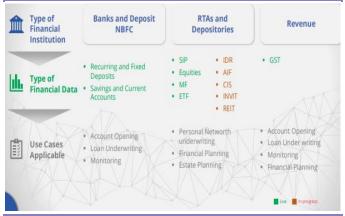


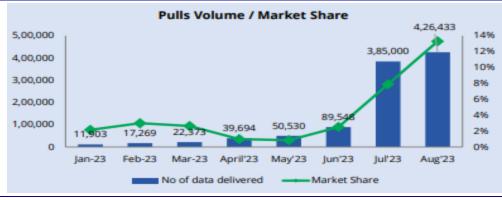
Exhibit 8: ...with proposed data in pipeline



Source: MOFSL, Company

Source: MOFSL, Company

Exhibit 6: Monthly run rate of 5L pulls through AA, 12%+ market share and growing



Source: MOFSL, Company

Data Ingestion

Bank statement data from AA

GST data from AA

Mutual Fund data from AA

Insurance data from AA

Additional non-AA data:

Internet Banking APIs

PDF uploads

Bureau data

Reports in JSON and Excel

70+

Transaction Categories

Exhibit 7: Full stack analyzer helping FIUs with lending, advisory, and monitoring

Source: MOFSL, Company

150+

GST Variables

Think360 - AI Stack for Digital Financial Services

1500+

Overall variables

- Data, Algorithm, and Application are the three pillars of AI. The share of digital lending now accounts for 30%+ of all lending and fintechs, providing 95%+ digital lending solutions.
- Think360 aims to expand reach to newer markets, transform customer onboarding and drive smarter decisions.
- For expanding the reach, **FlowXpert** is helping financial institutions scale their API and partnership infrastructure. It is managing 300+ APIs for clients across 100+ partnerships.
- For Onboarding a. Kwik.ID is fast, secure, compliant customer onboarding and digital KYC platform for digital transformation, where 3 of the top 10 PSBs work with CAMS; b Algo360 is India's largest alternative data and AI credit scoring solutions with 80m+ customer profiles, 800+ customer insight variables, and real-time alerts, nudges, and decision, and c. Amaze is account aggregator analytics TSP with the largest FIP footprint, embedded AI use cases, including PFM, risk assessment, and real-time triggers.

Centralized on-demand Al
Capabilities Service Desk for the industry participants

Al service Desk

CAMS

CAMS

Data Products

Differentiated, industry leading data products

CAMS

Power of video and Al technologies based customer engagement capabilities of KwiklD to Relationship Managers, RIAs and more

Exhibit 8: CAMS + Think360 - Bringing exciting possibilities

Source: MOFSL, Company

Valuation and View

■ With structural tailwinds favoring the MF business and a favorable macro environment emerging for all non-MF businesses, we anticipate a robust business momentum in the foreseeable future. Each of the new businesses has the potential to generate ~INR 0.7-1b over the next three to four years.

We believe that with all the steps heading in the right direction, CAMS will achieve an overall revenue growth of 13% (MF business is projected to grow by 11% and the non-MF business is expected to surge by 20%) with EBIDTA margins ranging between 43% and 45%. The share of non-MF business is expected to increase from 10% to 15% over the next 3-5 years. Currently, we have a BUY rating on the stock, with a target price of INR2,850 (a P/E multiple of 35x on FY25 earnings)

MOTILAL OSWAL

Financials and valuations

Income Statement						INR m
Y/E March	2020	2021	2022	2023	2024E	2025E
Revenue	6,996	7,055	9,097	9,718	10,697	12,295
Change (%)	1	1	29	7	10	15
Employee expense	2,580	2,624	3,218	3,581	3,867	4,254
Other expenses	1,544	1,471	1,638	1,925	2,159	2,401
Operating Expenses	4,124	4,094	4,855	5,506	6,027	6,655
EBITDA	2,873	2,961	4,241	4,212	4,670	5,641
Change (%)	18	3	43	-1	10.9	20.8
Dep/Interest/Provisions	582	513	587	679	770	810
Other Income	217	298	173	268	391	457
PBT	2,508	2,745	3,827	3,802	4,291	5,287
Change (%)	25	9	39	-1	12.9	23.2
Tax	773	692	957	956	1,073	1,322
Tax Rate (%)	31	25	25	25	25.0	25.0
PAT	1,735	2,053	2,870	2,846	3,218	3,966
Change (%)	33	18	40	-1	13.1	23.2
Dividend	594	2,488	1,895	1,850	2,092	2,578
Balance Sheet						INR m
Y/E March	2020	2021	2022	2023	2024E	2025E
Equity Share Capital	488	488	489	490	490	490
Reserves & Surplus	5,001	4,671	5,987	7,335	8,454	9,842
Net Worth	5,489	5,159	6,476	7,825	8,944	10,332
Borrowings	0	0	0	0	0	0
Other Liabilities	2,542	3,260	3,094	3,151	3,466	3,838
Total Liabilities	8,030	8,419	9,571	10,976	12,410	14,170
Cash and Bank balance	504	1,803	1,510	164	182	308
Investments	3,056	2,355	3,170	3,298	4,598	6,098
Net Fixed Assets	3,090	2,840	3,141	3,413	3,119	2,784
Current Assets	1,380	1,421	1,750	4,100	4,510	4,979
Total Assets	8,030	8,419	9,571	10,975	12,410	14,170

E: MOFSL Estimates

Financials and valuations

Cashflow						INR m
Y/E March	2020	2021	2022	2023	2024E	2025E
Profit after Tax	1,734	2,053	2,870	2,846	3,218	3,966
Adjustments	-126	199	729	754	380	353
Change in Working Capital	(237)	697	(129)	(17)	269	304
Cashflow from Operating activities	1,371	2,950	3,470	3,583	3,867	4,622
Other Income	217	298	173	268	391	457
Change in Current Investments	-751	701	-815	-128	-1,300	-1,500
Change in Fixed Asset	174	-63	-791	-875	-400	-400
Others	-128	-20	-365	-2,269	-372	-401
Cashflow from Investing activities	-489	915	-1,798	-3,004	-1,681	-1,843
Interest Expense	-97	-79	-71	-76	-76	-76
Dividend Expense	-716	-2,488	-1,895	-1,850	-2,092	-2,578
Cashflow from Financing activities	-813	- 2,567	-1,966	-1,926	-2,168	- 2,654
Net Cashflow	69	1,298	(293)	(1,347)	18	126
Opening Cashflow	435	504	1,803	1,510	164	182
Closing Cashflow	504	1,803	1,510	164	182	308
Y/E March	2020	2021	2022	2023	2024E	2025E
AAAUM (INR B)	18,149	19,984	25,500	27,300	32,015	36,750
Change (%)	14.6	10.1	27.6	7.1	17.3	14.8
Equity	6,706	6,806	10,100	12,400	14,880	17,558
Non-Equity	11,443	13,178	15,400	14,900	17,135	19,191
E: MOFSL Estimates						
Y/E March	2020	2021	2022	2023	2024E	2025E
Margins Analysis (%)						
Revenue Yield (bps)	3.85	3.53	3.57	3.56	3.34	3.35
Cost to Income Ratio	58.9	58.0	53.4	56.7	56.3	54.1
EBITDA Margins	41.1	42.0	46.6	43.3	43.7	45.9
PBT Margin	35.8	38.9	42.1	39.1	40.1	43.0
PAT Margin	24.8	29.1	31.6	29.3	30.1	32.3
Profitability Ratios (%)						
RoE	34.8	38.6	49.3	39.8	38.4	41.1
Dividend Payout Ratio	34.2	121.2	66.0	65.0	65.0	65.0
Dupont Analysis (Bps of AAAUM)						
Y/E March	2020	2021	2022	2023	2024E	2025E
Operating Income	3.9	3.5	3.6	3.6	3.3	3.3
Operating Expenses	2.3	2.0	1.9	2.0	1.9	1.8
EBITDA	1.6	1.5	1.7	1.5	1.5	1.5
Depreciation and Others	0.3	0.3	0.2	0.2	0.2	0.2
Other Income	0.1	0.1	0.1	0.1	0.1	0.1
PBT	1.4	1.4	1.5	1.4	1.3	1.4
Tax	0.4	0.3	0.4	0.4	0.3	0.4
ROAAAUM	1.0	1.0	1.1	1.0	1.0	1.1
Valuations	2020	2024	2022	2022	20245	20255
_		2021	2022	2023	2024E	2025E
BVPS (INR)	112	105	132	160	183	211
Change (%)	22.1	-6.0	25.5	20.8	14.3	15.5
Price-BV (x)	22.0	23.4	18.6	15.4	13.5	11.7
EPS (INR)	35.4	41.9	58.6	58.1	65.7	80.9
Change (%)	32.5	18.4	39.8	-0.8	13.1	23.2
	60.6	58.8	42.1	42.4	37.5	30.5
Price-Earnings (x)	69.6					
Price-Earnings (x) DPS (INR) Dividend Yield (%)	12.1 0.5	50.8 2.1	38.7 1.6	37.8 1.5	42.7 1.7	52.6 2.1

Explanation of Investment Rating				
Investment Rating	Expected return (over 12-month)			
BUY	>=15%			
SELL	<-10%			
NEUTRAL	< - 10 % to 15%			
UNDER REVIEW	Rating may undergo a change			
NOT RATED	We have forward looking estimates for the stock but we refrain from assigning recommendation			

*In case the recommendation given by the Research Analyst is inconsistent with the investment rating legend for a continuous period of 30 days, the Research Analyst shall be within following 30 days take appropriate measures to make the recommendation consistent with the investment rating legend

The following Disclosures are being made in compliance with the SEBI Research Analyst Regulations 2014 (herein after referred to as the Regulations).

Motilal Oswal Financial Services Ltd. (MOFSL) is a SEBI Registered Research Analyst having registration no. INH000000412. MOFSL, the Research Entity (RE) as defined in the Regulations, is engaged in the business of providing Stock broking services, Depository participant services & distribution of various financial products. MOFSL is a listed public company, the details in respect of which are available on www.motilaloswal.com. MOFSL (erstwhile Motilal Oswal Securities Limited - MOSL) is registered with the Securities & Exchange Board of India (SEBI) and is a registered Trading Member with National Stock Exchange of India Ltd. (NSE) and Bombay Stock Exchange Limited (BSE), Multi Commodity Exchange of India Limited (MCX) and National Commodity & Derivatives Exchange Limited (NCDEX) for its stock broking activities & is Depository participant with Central Depository Services Limited (CDSL) National Securities Depository Limited (NSDL), NERL, COMRIS and CCRL and is member of Association of Mutual Funds of India (AMFI) for distribution of financial products and Insurance Regulatory & Development Authority of India (IRDA) as Corporate Agent for insurance products. Details of associate entities of Motilal Oswal Financial Services Limited are available on the website at

http://onlinereports.motilaloswal.com/Dormant/documents/List%20of%20Associate%20companies.pdf

MOFSL and its associate company(ies), their directors and Research Analyst and their relatives may; (a) from time to time, have a long or short position in, act as principal in, and buy or sell the securities or derivatives thereof of companies mentioned herein. (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) discussed herein or act as an advisor or lender/borrower to such company(ies) or may have any other potential conflict of interests with respect to any recommendation and other related information and opinions.; however the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report.

MOFSL and / or its affiliates do and seek to do business including investment banking with companies covered in its research reports. As a result, the recipients of this report should be aware that MOFSL may have a potential conflict of interest that may affect the objectivity of this report. Compensation of Research Analysts is not based on any specific merchant banking, investment banking or brokerage service transactions. Details of pending Enquiry Proceedings of Motilal Oswal Financial Services Limited are available on the galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx

A graph of daily closing prices of securities is available at www.nseindia.com, <a href="www.nseindia.co research and Technical Research. Proprietary trading desk of MOFSL or its associates maintains arm's length distance with Research Team as all the activities are segregated from MOFSL research activity and therefore it can have an independent view with regards to Subject Company for which Research Team have expressed their views.

This report is not directed or intended for distribution to or use by any person or entity resident in a state, country or any jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject MOFSL & its group companies to registration or licensing requirements within such jurisdictions.

This report is distributed in Hong Kong by Motilal Oswal capital Markets (Hong Kong) Private Limited, a licensed corporation (CE AYY-301) licensed and regulated by the Hong Kong Securities and Futures Commission (SFC) pursuant to the Securities and Futures Ordinance (Chapter 571 of the Laws of Hong Kong) "SFO". As per SEBI (Research Analyst Regulations) 2014 Motilal Oswal Securities (SEBI Reg. No. INH000000412) has an agreement with Motilal Oswal capital Markets (Hong Kong) Private Limited for distribution of research report in Hong Kong. This report is intended for distribution only to "Professional Investors" as defined in Part I of Schedule 1 to SFO. Any investment or investment activity to which this document relates is only available to professional investor and will be engaged only with professional investors." Nothing here is an offer or solicitation of these securities, products and services in any jurisdiction where their offer or sale is not qualified or exempt from registration. The Indian Analyst(s) who compile this report is/are not located in Hong Kong & are not conducting Research Analysis in Hong Kong.

For U.S.

Motilal Oswal Financial Services Limited (MOFSL) is not a registered broker - dealer under the U.S. Securities Exchange Act of 1934, as amended (the "1934 act") and under applicable state laws in the United States. In addition MOFSL is not a registered investment adviser under the U.S. Investment Advisers Act of 1940, as amended (the "Advisers Act" and together with the 1934 Act, the "Acts), and under applicable state laws in the United States. Accordingly, in the absence of specific exemption under the Acts, any brokerage and investment services provided by MOFSL, including the products and services described herein are not available to or intended for U.S. persons. This report is intended for distribution only to "Major Institutional Investors" as defined by Rule 15a-6(b)(4) of the Exchange Act and interpretations thereof by SEC (henceforth referred to as "major institutional investors"). This document must not be acted on or relied on by persons who are not major institutional investors. Any investment or investment activity to which this document relates is only available to major institutional investors and will be engaged in only with major institutional investors. In reliance on the exemption from registration provided by Rule 15a-6 of the U.S. Securities Exchange Act of 1934, as amended (the "Exchange Act") and interpretations thereof by the U.S. Securities and Exchange Commission ("SEC") in order to conduct business with Institutional Investors based in the U.S., MOFSL has entered into a chaperoning agreement with a U.S. registered brokerdealer, Motilal Oswal Securities International Private Limited. ("MOSIPL"). Any business interaction pursuant to this report will have to be executed within the provisions of this

The Research Analysts contributing to the report may not be registered /qualified as research analyst with FINRA. Such research analyst may not be associated persons of the U.S. registered broker-dealer, MOSIPL, and therefore, may not be subject to NASD rule 2711 and NYSE Rule 472 restrictions on communication with a subject company, public appearances and trading securities held by a research analyst account.

For Singapore

In Singapore, this report is being distributed by Motilal Oswal Capital Markets Singapore Pte Ltd ("MOCMSPL") (Co. Reg. NO. 201129401Z) which is a holder of a capital markets services license and an exempt financial adviser in Singapore. As per the approved agreement under Paragraph 9 of Third Schedule of Securities and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Advisors Act (CAP 110) provided to MOCMSPL by Monetary Authority of Singapore. Persons in Singapore should contact MOCMSPL in respect of any matter arising from, or in connection with this report/publication/communication. This report is distributed solely to persons who qualify as "Institutional Investors", of which some of whom may consist of "accredited" institutional investors as defined in section 4A(1) of the Securities and Futures Act, Chapter 289 of Singapore ("the SFA"). Accordingly, if a Singapore person is not or ceases to be such an institutional investor, such Singapore Person must immediately discontinue any use of this Report and inform MOCMSPL.

Specific Disclosures

- MOFSL, Research Analyst and/or his relatives does not have financial interest in the subject company, as they do not have equity holdings in the subject company.
- MOFSL, Research Analyst and/or his relatives do not have actual/beneficial ownership of 1% or more securities in the subject company MOFSL, Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months
- MOFSL, Research Analyst and/or his relatives do not have material conflict of interest in the subject company at the time of publication of research report
- Research Analyst has not served as director/officer/employee in the subject company
- MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
 MOFSL has not received compensation for investment banking/merchant banking/brokerage services from the subject company in the past 12 months
- MOFSL has not received compensation for other than investment banking/merchant banking/brokerage services from the subject company in the past 12 months
- MOFSL has not received any compensation or other benefits from third party in connection with the research report
- MOFSL has not engaged in market making activity for the subject company

11 10 September 2023

The associates of MOFSL may have:

- financial interest in the subject company
- actual/beneficial ownership of 1% or more securities in the subject company at the end of the month immediately preceding the date of publication of the Research Report or date of the public appearance.
- received compensation/other benefits from the subject company in the past 12 months
- any other potential conflict of interests with respect to any recommendation and other related information and opinions.; however the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report.
- acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- 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) discussed herein or act as an advisor or lender/borrower to such company(ies)
- received compensation from the subject company in the past 12 months for investment banking / merchant banking / brokerage services or from other than said services.
- Served subject company as its clients during twelve months preceding the date of distribution of the research report.

The associates of MOFSL has not received any compensation or other benefits from third party in connection with the research report

Above disclosures include beneficial holdings lying in demat account of MOFSL which are opened for proprietary investments only. While calculating beneficial holdings, It does not consider demat accounts which are opened in name of MOFSL for other purposes (i.e holding client securities, collaterals, error trades etc.). MOFSL also earns DP income from clients which are not considered in above disclosures.

Analyst Certification

The views expressed in this research report accurately reflect the personal views of the analyst(s) about the subject securities or issues, and no part of the compensation of the research analyst(s) was, is, or will be directly or indirectly related to the specific recommendations and views expressed by research analyst(s) in this report.

Terms & Conditions:

This report has been prepared by MOFSL and is meant for sole use by the recipient and not for circulation. The report and information contained herein is strictly confidential and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent of MOFSL. The report is based on the facts, figures and information that are considered true, correct, reliable and accurate. The intent of this report is not recommendatory in nature. The information is obtained from publicly available media or other sources believed to be reliable. Such information has not been independently verified and no guaranty, representation of warranty, express or implied, is made as to its accuracy, completeness or correctness. All such information and opinions are subject to change without notice. The report is prepared solely for informational purpose and does not constitute an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments for the clients. Though disseminated to all the customers simultaneously, not all customers may receive this report at the same time. MOFSL will not treat recipients as customers by virtue of their receiving this report.

Disclaimer:

The report and information contained herein is strictly confidential and meant solely for the selected recipient and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent. This report and information herein is solely for informational purpose and may not be used or considered as an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments. Nothing in this report constitutes investment, legal, accounting and tax advice or a representation that any investment or strategy is suitable or appropriate to your specific circumstances. The securities discussed and opinions expressed in this report may not be suitable for all investors, who must make their own investment decisions, based on their own investment objectives, financial positions and needs of specific recipient. This may not be taken in substitution for the exercise of independent judgment by any recipient. Each recipient of this document should make such investigations as it deems necessary to arrive at an independent evaluation of an investment in the securities of companies referred to in this document (including the merits and risks involved), and should consult its own advisors to determine the merits and risks of such an investment. The investment discussed or views expressed may not be suitable for all investors. Certain transactions -including those involving futures, options, another derivative products as well as non-investment grade securities - involve substantial risk and are not suitable for all investors. No representation or warranty, express or implied, is made as to the accuracy, completeness or fairness of the information and opinions contained in this document. The Disclosures of Interest Statement incorporated in this document is provided solely to enhance the transparency and should not be treated as endorsement of the views expressed in the report. This information is subject to change without any prior notice. The Company reserves the right to make modifications and alternations to this statement as may be required from time to time without any prior approval. MOFSL, its associates, their directors and the employees may from time to time, effect or have effected an own account transaction in, or deal as principal or agent in or for the securities mentioned in this document. They may perform or seek to perform investment banking or other services for, or solicit investment banking or other business from, any company referred to in this report. Each of these entities functions as a separate, distinct and independent of each other. The recipient should take this into account before interpreting the document. This report has been prepared on the basis of information that is already available in publicly accessible media or developed through analysis of MOFSL. The views expressed are those of the analyst, and the Company may or may not subscribe to all the views expressed therein. This document is being supplied to you solely for your information and may not be reproduced, redistributed or passed on, directly or indirectly, to any other person or published, copied, in whole or in part, for any purpose. 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 MOFSL 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 certain category of investors. Persons in whose possession this document may come are required to inform themselves of and to observe such restriction. Neither the Firm, not its directors, employees, agents or representatives shall be liable for any damages whether direct or indirect, incidental, special or consequential including lost revenue or lost profits that may arise from or in connection with the use of the information. The person accessing this information specifically agrees to exempt MOFSL or any of its affiliates or employees from, any and all responsibility/liability arising from such misuse and agrees not to hold MOFSL or any of its affiliates or employees responsible for any such misuse and further agrees to hold MOFSL or any of its affiliates or employees free and harmless from all losses, costs, damages, expenses that may be suffered by the person accessing this information due to any errors and delays.

This report is meant for the clients of Motilal Oswal only.

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

Registration granted by SEBI and certification from NISM in no way guarantee performance of the intermediary or provide any assurance of returns to investors. Registered Office Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022 - 71934200 / 71934263; www.motilaloswal.com. Correspondence Address: Palm Spring Centre, 2nd Floor, Palm Court Complex, New Link Road, Malad (West), Mumbai-400 064. Tel No: 022 71881000. Details of Compliance Officer: Neeraj Agarwal, Email Id: na@motilaloswal.com, Contact No.:022-40548085.

Grievance Redressal Cell:

Offevance Neuressal Cell.					
Contact Person	Contact No.	Email ID			
Ms. Hemangi Date	022 40548000 / 022 67490600	query@motilaloswal.com			
Ms. Kumud Upadhyay	022 40548082	servicehead@motilaloswal.com			
Mr. Ajay Menon	022 40548083	am@motilaloswal.com			

Registration details of group entities.: Motilal Oswal Financial Services Ltd. (MOFSL): INZ000158836 (BSE/NSE/MCX/NCDEX); CDSL and NSDL: IN-DP-16-2015; Research Analyst: INH000000412. AMFI: ARN .: 146822. IRDA Corporate Agent – CA0579. Motilal Oswal Financial Services Ltd. is a distributor of Mutual Funds, PMS, Fixed Deposit, Insurance. Bond. NCDs and IPO products.

Customer having any query/feedback/ clarification may write to query@motilaloswal.com. In case of grievances for any of the services rendered by Motilal Oswal Financial Services Limited (MOFSL) write to grievances@motilaloswal.com, for DP to dpgrievances@motilaloswal.com.