Sector: NBFC



Ground Reality

On-the-ground demand strong

Average ticket sizes may see downward pressure

We recently visited several regional offices and branches of major vehicle financiers in and around Mumbai. Key takeaways:

- The recent liquidity crunch has had a varying degree of impact on vehicle financiers' disbursements. One of the large financiers has partly curtailed disbursements, especially in the new-vehicle segment, while others have witnessed business-as-usual disbursements.
- The HCV segment is witnessing more of bulk purchases. As a result, loan demand is migrating to banks rather than to NBFCs. In addition, lending rates in this segment are sub-10%, making it difficult for NBFCs to compete.
- While it's early days, the impact of axle-loading norms seems to manifest in CV demand. Incrementally, demand is migrating to lower-tonnage vehicles, resulting in lower average ticket size on disbursements.
- Early stage delinquencies are stable for all players due to high levels of truck utilization coupled with moderation in fuel prices over the past 1-2 months. Freight rates have been largely stable on most routes.



The recent liquidity crunch had a different degree of impact for different players. One of the large financiers has partly curtailed disbursements, especially in the new-vehicle segment, while others have witnessed business-as-usual disbursements. However, the demand environment remains robust. CV demand was strong in October but tapered in November. However, December and 4Q are likely to be strong quarters for CV demand, in M&HCV and LCV, according to consensus opinion. Further, companies we met have set a FY19 disbursement target ranging from 20-30% for their vehicle finance businesses.

HCV segment getting more competitive; yields higher in other segments

The HCV segment is witnessing intensifying competition by banks, which are lending at sub-10% rates. In addition, the market is moving towards bulk purchases, thus making banks a preferred choice for truck buyers. As a result, NBFCs are focusing less on this segment and migrating towards other segments like LCVs, used-CVs and cars. Generally, used-CVs and tractors give the highest yields at 17-20% while that for LCVs and cars is 12%+.

25-50bp hike in yields; to partially mitigate rise in cost of funds

All vehicle financiers that we met have hiked interest rates across products by 25-50bp. Note that since vehicle loans are fixed-rate loans, these hikes would be applicable on incremental loans only. On the other hand, incremental cost of funds have increased by 50-100bp since the IL&FS crisis. Hence, there would be some spread pressure on incremental lending over the near-term.

Axle load impact - moving towards lower-tonnage vehicle purchases

Some of the companies we met pointed to incremental migration towards lower tonnage vehicles in the M&HCV segment. This can be attributed to (a) impact of new axle-load norms (that allow overloading of 10-15% depending on the tonnage), and (b) stronger demand for tippers, which are usually mid-tonnage vehicles (used largely in infra and mining activities).

Freight and construction/infra demand robust; Asset quality stable

On the demand side, both freight and infra-led demand continues to be robust. While infra-led demand is a bit tepid in the western regions of India, it is strong in the South and East-India. This, along with moderating fuel prices, has ensured adequate cash flows for the truck operator. As a result, delinquencies have been modest across segments. In addition, CIFC has a model wherein the sales, credit and the collections teams are responsible for collection in the first 18 months. This intensive focus on collections is one of the reasons for superior asset quality performance v/s peers.

Valuation and view

Over the past two months, vehicle financiers under our coverage have corrected by up to 30% given challenges on the liquidity front. While we acknowledge that there would be temporary issues, we do not expect any major setbacks over the near-to-medium term. This would impact growth by a few percentage points, in our view. The key risk to our thesis would be in continued migration towards lower tonnage vehicles resulting in lower ticket size of disbursements, and thus lower-than-expected growth. While we are positive on all the vehicle financiers we track (STF, MMFS and CIFC), our top pick is STF. The pain on account of transition to 90dpd is over and the transition to Ind-AS has been positive. Also, among the vehicle financiers under our coverage, STF has the lowest dependence on CPs and the highest share of public deposits. We expect its balance sheet growth to remain in mid-to-high teens and reduction in credit costs to result in 17%+ RoE over the medium term. The stock currently trades at 1.4x FY20E BVPS, which is close to the lowest in the past decade. The biggest risk to earnings (and multiples) for the sector as a whole would be continued increase in fuel prices.

12 December 2018

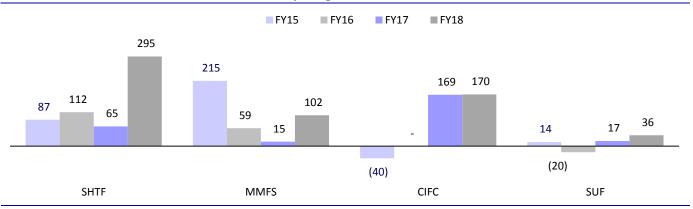
Appendix

Vehicle financiers have expanded their branch networks

Vehicle financiers have been investing for growth

- While vehicle financiers were cautious on new branch openings over FY15-17, they turned positive in FY18.
- All players under our coverage have significantly added to their branch count over the past year.
- This would help is delivering strong growth over the next 1-2 years.

Exhibit 1: Vehicle financiers were bullish on branch openings



Source: MOSL, Company

Only Sundaram Finance has consistently increased its per-branch disbursements over the years

Improving branch productivity to aid along with branch network expansion

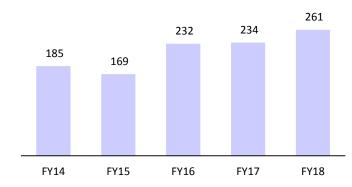
SHTF and MMFS have room to go before they reach historical highs in terms of perbranch disbursements. SUF has delivered continuously improving performance. In addition, branch productivity (disbursement/branch) for SHTF is ~2x that of other players.

Exhibit 2: SHTF's disbursement/branch still at FY14 levels

Exhibit 3: CIFC's disbursement /branch at 9% CAGR



Source: MOSL, Company; Note: FY16 disb. adjusted for CEF subsidiary

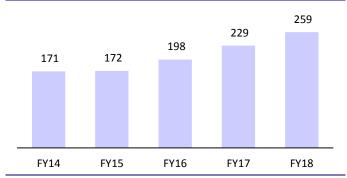


Source: MOSL, Company; Note: Includes only VF disbursements

Exhibit 4: MMFS' disbursement /branch below FY14 levels

Exhibit 5: SUF the most consistent performer - 11% CAGR





Source: MOSL, Company

Source: MOSL, Company

VF players have pricing power since EMI is not very sensitive to interest rates

Vehicle financiers have pricing power; EMI not very sensitive to change in interest rates

- Since vehicle financiers cater to a segment largely untouched by banks, they have higher pricing power, in our view.
- In addition, given the short duration of loans, EMI doesn't change much for a 100bp increase/decrease in interest rates. Hence, it would be easier for vehicle financiers to pass on the increase in cost of funds to the borrowers.

Exhibit 6: EMI sensitivity of INR0.5m, 3 year loan to change in interest rates – 3% increase in EMI for 100bp increase in interest rates

in Livil for 1000p increase in interest rates							
Interest rate	EMI						
14%	17,089						
15%	17,333						
16%	17,579						
17%	17,826						
18%	18,076						

Source: MOSL

Early signs of migration towards lower tonnage vehicles in the M&HCV industry

Early signs of trend reversal in the M&HCV industry

- Over the past five years, there was a clear migration towards higher tonnage vehicles in the M&HCV industry. This led to tonnage growth outpacing volume growth. As a result of higher weighted-average ticket size, disbursement growth for CV financiers outpaced volume growth for OEMs.
- However, this trend has witnessed a reversal in the past few months. In FY19 YTD, volume growth (47% YoY) outpaced tonnage growth (44% YoY). The difference was stark in Oct'18 with volume growth of 17% v/s tonnage growth of just 3%.

Exhibit 7: Tonnage growth outpaced volume growth in the past five years in the M&HCV goods segment...

Tonnage growth % Volume growth %

44.0 47.2

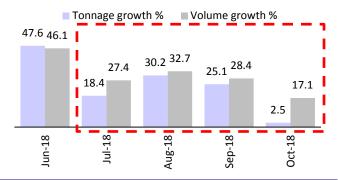
35.9 38.5
31.9 31.0

21.0 19.4

42.0 47.2

44.0 47.2

Exhibit 8: ...however, the trend reversed in recent month with implementation of new axle norms



Source: SIAM, MOSL Source: SIAM, MOSL

Valuation charts

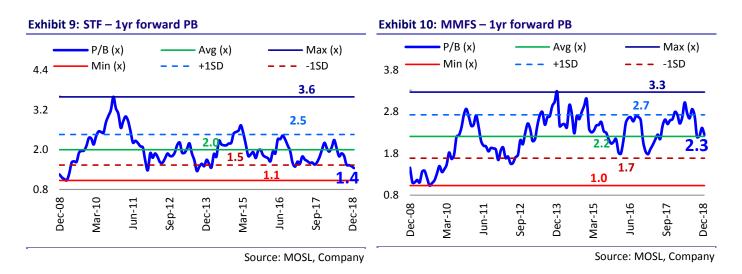
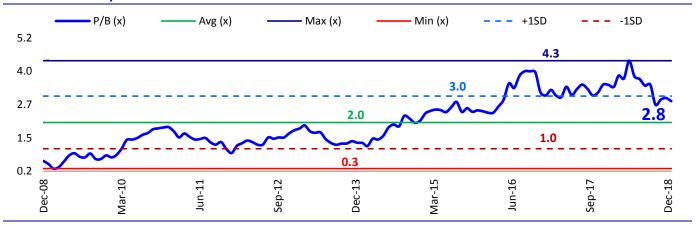


Exhibit 11: CIFC – 1yr forward PB



Source: MOSL, Company

Valuation Matrix

	Rating	СМР	Мсар	P/E (x)			P/BV (x)			RoA (%)			RoE (%)		
		(INR)	(USDb)	FY18	FY19E	FY20E	FY18	FY19E	FY20E	FY18	FY19E	FY20E	FY18	FY19E	FY20E
ICICIBC*	Buy	350	30.7	23.7	31.1	12.5	1.6	1.5	1.4	0.8	0.5	1.2	6.8	4.9	11.5
HDFCB	Buy	2,085	77.8	30.8	26.1	21.8	5.1	3.8	3.4	1.8	1.8	1.8	17.9	16.7	16.5
AXSB	Buy	619	21.6	557.3	34.5	16.3	2.5	2.3	2.1	0.0	0.6	1.1	0.5	7.0	13.4
KMB*	Neutral	1,236	32.3	38.0	33.2	27.0	4.7	4.1	3.6	1.7	1.6	1.7	12.5	11.8	13.2
YES	Buy	187	5.7	10.1	9.3	7.6	1.7	1.5	1.3	1.6	1.3	1.3	17.7	16.7	17.9
IIB	Buy	1,583	13.0	26.3	23.5	16.0	4.0	3.6	2.9	1.8	1.7	2.1	16.5	16.2	20.0
FB	Buy	88	2.3	18.5	15.2	10.2	1.4	1.3	1.2	0.7	0.8	0.9	8.3	9.0	12.2
DCBB	Neutral	158	0.7	19.8	16.5	13.2	1.8	1.7	1.5	0.9	0.9	0.9	10.9	10.9	12.3
JKBK	Neutral	37	0.3	9.8	4.0	3.2	0.4	0.3	0.3	0.2	0.5	0.6	3.8	8.9	10.4
SIB	Buy	16	0.4	8.7	11.2	5.8	0.6	0.6	0.5	0.4	0.3	0.5	6.6	4.9	9.1
Equitas	Buy	116	0.5	125.3	20.4	14.7	1.7	1.6	1.5	0.3	1.3	1.4	1.4	8.2	10.4
RBL	Buy	574	3.3	37.9	27.9	20.0	3.6	3.3	2.9	1.1	1.2	1.3	11.6	12.3	15.2
Private Aggregate															
SBIN (cons)*	Buy	285	34.9	-47.4	49.8	8.9	1.0	1.0	1.0	-0.2	0.1	0.6	-3.5	1.1	11.4
PNB	Neutral	71	2.9	-1.4	-3.8	8.2	0.5	0.6	0.6	-1.7	-0.7	0.3	-29.5	-13.6	6.7
BOI	Neutral	86	1.9	-2.0	16.9	10.4	0.5	0.5	0.4	-1.0	0.1	0.2	-17.8	2.5	4.0
ВОВ	Buy	113	4.0	-11.5	11.9	7.1	0.7	0.7	0.6	-0.3	0.3	0.5	-5.8	5.7	8.9
СВК	Neutral	258	2.5	-4.1	13.4	5.8	0.6	0.6	0.5	-0.7	0.2	0.5	-12.2	3.9	8.5
UNBK	Neutral	77	1.2	-1.4	-17.9	21.7	0.4	0.3	0.3	-1.1	-0.1	0.1	-23.7	-2.1	1.6
Public Aggregate															
Banks Aggregate															
HDFC*	Buy	1,939	44.4	35.7	23.9	20.3	4.2	2.9	2.7	1.9	1.9	1.7	18.6	16.3	15.1
LICHF	Buy	448	3.1	13.3	9.9	8.2	1.6	1.4	1.2	1.1	1.3	1.5	13.3	14.9	15.8
IHFL	Buy	734	4.1	8.1	7.5	6.3	2.1	1.8	1.6	3.4	3.2	3.2	27.9	26.3	27.4
PNBHF	Buy	960	2.1	19.4	15.3	12.4	2.5	2.2	1.9	1.6	1.4	1.4	14.0	15.4	16.8
GRHF	Neutral	295	2.9	59.6	48.0	43.3	15.0	12.6	10.7	2.5	2.5	2.4	29.8	28.5	26.7
REPCO	Buy	330	0.3	10.0	8.3	7.5	1.6	1.4	1.2	2.2	2.3	2.3	16.9	17.6	16.7
Housing Finance															
SHTF	Buy	1,155	3.6	16.7	10.6	9.0	1.9	1.7	1.4	1.9	2.3	2.3	12.7	16.9	17.1
MMFS	Buy	438	3.5	25.1	19.2	16.6	2.8	2.5	2.3	2.3	2.5	2.4	12.5	13.9	14.5
BAF	Neutral	2,494	19.4	57.5	38.0	30.7	9.3	7.6	6.3	3.3	3.7	3.6	20.4	22.0	22.4
CIFC	Buy	1,241	2.6	19.9	15.9	14.1	3.8	3.2	2.6	2.7	2.4	2.2	20.9	21.8	20.3
SCUF	Buy	1,575	1.4	15.6	11.2	10.0	1.9	1.7	1.5	2.8	3.3	3.3	12.7	15.9	15.5
LTFH	Buy	144	3.8	21.3	12.5	10.7	2.6	2.2	1.8	1.7	2.3	2.3	14.2	18.8	18.7
MUTH	Neutral	478	2.6	11.1	9.6	8.4	2.5	2.1	1.8	5.5	5.8	5.8	24.1	23.6	22.9
MAS	Buy	569	0.4	29.7	22.5	18.4	4.3	3.8	3.3	4.1	4.2	4.1	20.7	17.8	18.9

MOTILAL OSWAL

NOTES

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

n given by the Research Analyst becomes inconsistent with the arch Analyst shall within 28 days of the in nvestment rating legend, the R

Disclosures:

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

Motilal Oswal Securities Ltd. (MOSL*) is a SEBI Registered Research Analyst having registration no. INH000000412. MOSL, the Research Entity (RE) as defined in the Regulations, is engaged in the business of providing Stock broking services, Invosation Coward Securities Ltd., (MOSL.) Is a Sebi Registeried Research Analyst naving registerion no. Invocutous 12. MOSL, the Research Entity (RC) as defined in the Regulations, is engaged in the business of providing stock broking services, invocation in the research Entity (RC) as defined in the Regulations, is engaged in the business of providing stock broking services, invocation in the Regulations, is engaged in the business of providing stock broking services, as unstantial common and the regulations, is engaged in the business of providing stock broking services, as unstantial common and the regulations, is engaged in the business of providing stock broking services, as unstantial company of Motilal Oswal Financial Service Ltd. (MOFSL) as defined in the Regulations, is engaged in the business of providing stock broking services, as unstantial Common and the Regulations, is engaged in the business of providing stock broking services, as unstantial Common and the Regulations, is engaged in the business of providing stock broking services, as unstantial Common and the Regulations, is engaged in the business of providing stock broking services, as unstantial Common and the Regulations, is engaged in the business of providing stock broking services, as unstantial Common and the Regulations, is engaged in the business of providing stock broking services, as unstantial Common and the Regulations, is engaged in the business of providing stock broking services, as unstantial Common and the Regulations, is engaged in the Business of providing stock broking services, as unstantial Common and the Regulations, is engaged in the Business of providing stock broking services, as unstantial Common and the Regulations, is engaged and the Business of providing stock broking services, as unstantial Common and the Regulations, is engaged and the Business of providing stock broking as unstantial Common and the Regulations, is engaged and the Business of providing stock broking as unstantial Common and the Regulations, is

MOSL, it's associates, Research Analyst or their relative may have any financial interest in the subject company. MOSL and/or its associates and/or Research Analyst may have 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. MOSL 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 MOSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report. Research Analyst may have served as director/officer, etc. in the subject company in the last 12 month period. MOSL and/or its associates may have received any compensation from the subject company in the past 12 months.

In the last 12 months period ending on the last day of the month immediately preceding the date of publication of this research report, MOSL or any of its associates may have:

- managed or co-managed public offering of securities from subject company of this research report, received compensation for investment banking or merchant banking or brokerage services from subject company of this research report, received compensation for products or services other than investment banking or merchant banking or brokerage services from the subject company of this research report.
- Subject Company may have been a client of MOSL or its associates during twelve months preceding the date of distribution of the research report.

MOSL and it's associates have not received any compensation or other benefits from the subject company or third party in connection with the research report. To enhance transparency, MOSL has incorporated a Disclosure of Interest Statement in this document. This should, however, not be treated as endorsement of the views expressed in the report. MOSL 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 MOSL 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.

Terms & Conditions:

This report has been prepared by MOSL 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 MOSL. 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. MOSL will not treat recipients as customers by virtue of their receiving this report.

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.

Disclosure of Interest Statement

Companies where there is interest

Nο

Analyst ownership of the stock A graph of daily closing prices of securities is available at www.nseindia.com, www.bseindia.com, Research Analyst views on Subject Company may vary based on Fundamental research and Technical Research. Proprietary trading desk of MOSL or its associates maintains arm's length distance with Research Team as all the activities are segregated from MÓSL research activity and therefore it can have an independent view with regards to subject company for which Research Team have

Regional Disclosures (outside India)

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 MOSL & its group companies to registration or licensing requirements within such jurisdictions.

For Hong Kong:
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 Moltial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal adaptated with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal adaptated with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motial Oswal Securitie

For U.S.

Molial Osval Securities Limited (MOSL) 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 MOSL 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 MOSL, 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., MOSL has entered into a chaperoning agreement with a U.S. registered broker-dealer, Motilal Oswal Securities International Private Limited. ("MOSIPL"). Any business interaction pursuant to this report will have to be executed within the provisions of this chaperoning agreement.

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

For Singapore
In Singapore, this report is being distributed by Motilal Oswal Capital Markets Singapore Pte Ltd ("MOCMSPL") (Co.Reg. NO. 2011294012) 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.

<u>Disclaimer:</u>
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. MOSL, 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 MOSL. 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 MOSL 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 MOSL or any of its affiliates or employees from, any and all responsibility/liability arising from such misuse and agrees not to hold MOSL 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.

Registered Office Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022-3980 4263; www.motilaloswal.com. Correspondence Address: Palm Spring Centre, 2nd Floor, Palm Court Complex, New Link Road, Malad (West), Mumbai-400 064. Tel No: 022 3080 1000. Compliance Officer: Neeraj Agarwal, Email Id: na@motilaloswal.com, Contact No::022-30801085.

Registration details of group entities: MOSL: SEBI Registration: INZ000158836 (BSE/NSE/MCX/NCDEX); CDSL: IN-DP-16-2015; NSDL: IN-DP-NSDL-152-2000; Research Analyst: INH000000412. AMFI: ARN 17397. Investment Adviser: INA000007100.Motilal Oswal Asset Management Company Ltd. (MOAMC): PMS (Registration No.: INP00000670) offers PMS and Mutual Funds products. Motilal Oswal Wealth Management Ltd. (MOWML): PMS (Registration No.: INP000004409) offers wealth management solutions. *Motilal Oswal Securities Ltd. is a distributor of Mutual Funds, PMS, Fixed Deposit, Bond, NCDs, Insurance and IPO products. * Motilal Oswal Real Estate Investment Advisors II Pvt. Ltd. offers Real Estate products. * Motilal Oswal Private Equity Investment Advisors Pvt. Ltd. offers Private Equity products

*MOSL has been amalgamated with Motilal Oswal Financial Services Limited (MOFSL) w.e.f August 21, 2018 pursuant to order dated July 30, 2018 issued by Hon'ble National Company Law Tribunal, Mumbai Bench. The existing registration no(s) of MOSL would be used until receipt of new MOFSL registration numbers.