



Collection trends improving steadily; Deposit franchise remains strong Expect credit cost to stay under control

We interacted with the top management of Bandhan Bank led by MD & CEO, Mr. Chandra Shekhar Ghosh and CFO, Mr. Sunil Samdani. Key insights from the discussion highlighted below:

Center meeting rate >80% now; collection trends improving steadily; uptick to continue

- The center meeting format has changed. The size of meetings has reduced to 5-10 people to maintain social distancing norms and meeting time has also gone down. The center meeting run-rate is over 80% currently. However, rural attendance has improved significantly in comparison to urban.
- Bandhan management has indicated that collection efficiency in the MFI business has recovered to 55-60%, and it expects this to further improve to ~70% by Jun'20. 50% of the bank's borrowers are in Agri and allied businesses while 20% are in food processing and retail. Despite the lockdown, businesses of these borrowers are operational, thus providing visibility for further improvement in collection efficiency. Overall, the bank expects collection efficiency to attain normalcy by Sep'20. Collections have largely come from the surplus funds available and not from savings deposits as ~70% of total MFI customers maintain an average savings deposit balance of ~INR3k. Collection efficiency at Mumbai location currently stands at 30%.
- The bank has indicated that collection trends in the housing/SME portfolio are currently similar to Apr'20 levels, however, an improvement is expected in the coming months. This is because Moratorium 2.0 is expected to be better than Moratorium 1.0 as activities had come to a complete halt in the latter while it is now resuming gradually under the former. Bandhan has also launched new products to provide business loans to self-employed customers from its housing portfolio.

Cautious approach toward fresh disbursements in 1HFY21

Bandhan is maintaining a cautious stance toward disbursements in 1HFY21 and is focused on improving collections trends. However, based on the borrower's requirement and credit profile, it will provide top-up loans of up to INR20k-25k to support their immediate business needs, provided the borrower has never defaulted or delayed installments. Further, management believes the micro-credit industry will attain normalcy faster, and thus, expects higher disbursements over 2HFY21. Overall, Bandhan expects new to credit (NTC) customer acquisition to slow down to 8-9% over FY21E.

Bandhan Bank



Mr. Chandra Shekhar Ghosh MD & CEO

Mr. Ghosh is the Founder, Managing Director and CEO. He founded Bandhan Bank in 2001 and has a total experience of 27 years in the field of microfinance and development. He has been conferred with many awards such as 'Excellence in Banking', 'Lifetime contribution to the MFI sector by an individual' and 'Entrepreneur of the Year' by Forbes and ET in 2014, etc. He holds a Master's degree in Science (Statistics) from Dhaka University.

Motilal Oswal values your support in the Asiamoney Brokers Poll 2020 for India Research, Sales and Trading team.

We request your ballot.



Liability franchise remains strong; stable trends in retail deposits

- The deposit traction during Apr-May'20 reflected better trends v/s Mar'20 numbers.
- Retail deposits formed ~78% of total deposits while CASA ratio stood at 36%. In terms of geographical mix, ~71% is from rural areas while ~29% is from urban.

Expect credit cost to rise to 1.5% in FY21E in addition to existing provisions

■ Bandhan expects credit cost at 1% in a normal business environment. However, due to the COVID-19 crisis, credit cost is expected to rise to 1.5% in FY21E as the bank carries an additional provision buffer of INR10b – INR6.9b made toward COVID; INR3.1b additional provisions on standard assets higher than regulatory requirement – which forms ~1.5% of total loans. Given the current assessment based on customer feedback and collection trends, the 1.5% credit cost estimate would be sufficient to manage the current impact of the COVID crisis.

Research Analyst: Nitin Aggarwal (Nitin.Aggarwal@MotilalOswal.com); +91 22 6129 1542 | Himanshu Taluja (Himanshu.Taluja@motilaloswal.com)

Alpesh Mehta (Alpesh.Mehta@MotilalOswal.com); Yash Agarwal (Yash.Agarwal@motilaloswal.com)





Impact of cyclone Amphan; collection efficiency in affected districts stands at 40%

In the most affected regions (e.g. South 24 Parganas district), the current collection efficiency run-rate stands at 40%. Based on the initial assessment disclosed earlier, the bank expects overall impact of INR2.6b. The earlier cyclone in the past (such as Fani) suggests that it takes around 3 months for collection trends to normalize.

Other important highlights:

- Mr. Ghosh's role in Bandhan is that of a professional CEO (he is not a promoter CEO), and thus, no impact is expected from the corporate governance framework proposed by the RBI in its discussion paper.
- The average ticket size on outstanding MFI loan is INR40k.
- Bandhan has a unique customer base of 50%. Further, another 30% have loans with just one more lender.
- Around 6lac borrowers have loan exposure of INR1-INR1.5lacs.
- ~99% staff is currently working and nearly all branches are operational now.

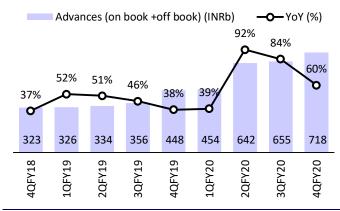
Valuation and view

As economic activity is picking up in India, we are seeing steady improvement in collection trends. Bandhan has guided to reach collection efficiency at 70% by Jun'20. Also, incidence of moratorium availed has been declining, and thus, Moratorium 2.0 will have lower impact v/s Moratorium 1.0. Further, Bandhan has created COVID-19-related provisions of INR6.9b. The bank has guided for controlled delinquencies amid heightened concerns on asset quality, citing its historical track record in dealing with such crises. However, we remain cautious and expect higher delinquencies in the near term. LGD should remain lower (v/s peers) due to Bandhan's strong market share and higher unique customer base. We maintain **Buy** rating with TP of INR350 (2.6x FY22E).



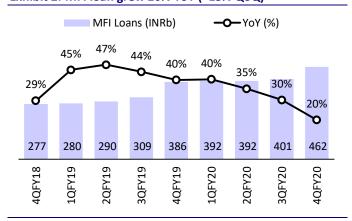
Story in charts

Exhibit 1: Total advances grew 60.5% YoY to INR718b



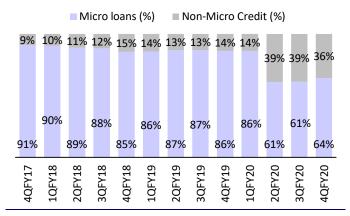
Source: MOFSL, Company

Exhibit 2: MFI loan grew 20% YoY (+15% QoQ)



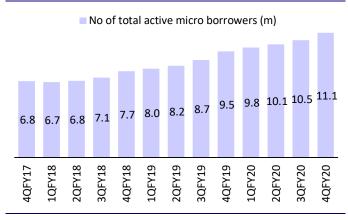
Source: MOFSL, Company

Exhibit 3: MFI book forms 64% while mortgages form ~25%



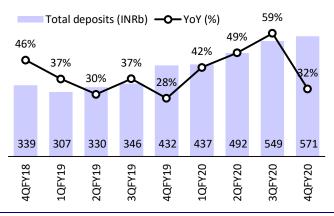
Source: MOFSL, Company

Exhibit 4: Active MFI borrowers grew 17% YoY to 11.1m



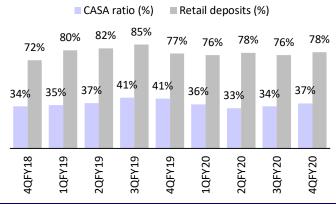
Source: MOFSL, Company

Exhibit 5: Total deposits grew 32% YoY to INR571b



Source: MOFSL, Company

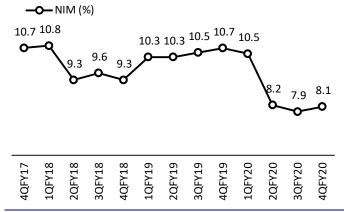
Exhibit 6: CASA ratio improved to ~37% while retail deposits formed ~78% of total deposits



Source: MOFSL, Company

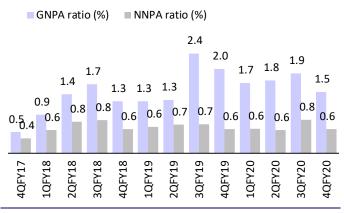


Exhibit 7: Margins expanded ~20bp QoQ to 8.1%



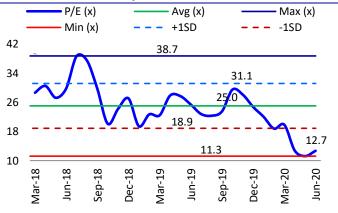
Source: MOFSL, Company

Exhibit 8: Asset quality improved with GNPA/NNPA ratio declining 45bp/23bp to 1.48%/0.58%



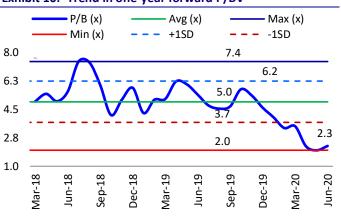
Source: MOFSL, Company

Exhibit 9: Trend in one-year forward P/E



Source: MOFSL, Company

Exhibit 10: Trend in one-year forward P/BV



Source: MOFSL, Company



Financials & Valuations

Income Statement							(INR b)
Y/E March	FY16	FY17	FY18	FY19	FY20	FY21E	FY22E
Interest Income	15.8	39.1	48.0	66.4	108.9	130.3	151.2
Interest Expense	6.5	15.1	17.7	21.5	45.6	54.8	61.8
Net Interest Income	9.3	24.0	30.3	45.0	63.2	75.5	89.4
Growth (%)	NM	157.7	26.2	48.3	40.7	19.4	18.4
Non Interest Income	1.5	4.1	7.1	10.6	15.5	18.1	22.7
Total Income	10.8	28.1	37.4	55.6	78.7	93.7	112.1
Growth (%)	NM	160.0	32.8	48.7	41.6	19.0	19.7
Operating Expenses	6.2	10.2	13.1	18.1	24.3	31.8	39.8
Pre Provision Profits	4.7	17.9	24.3	37.5	54.5	61.8	72.3
Growth (%)	NM	284.1	35.5	54.2	45.3	13.5	16.9
Core PPoP	4.6	17.7	23.8	37.1	54.0	61.3	71.6
Growth (%)	NM	281.1	34.6	55.7	45.5	13.5	16.9
Provisions (excl tax)	0.5	0.9	3.7	7.4	13.9	18.4	19.2
PBT	4.1	17.0	20.6	30.1	40.5	43.5	53.1
Tax	1.4	5.9	7.1	10.6	10.3	11.0	13.4
Tax Rate (%)	33.4	34.8	34.6	35.2	25.4	25.2	25.2
PAT	2.8	11.1	13.5	19.5	30.2	32.5	39.7
Growth (%)	NM	304.0	21.0	45.0	54.9	7.5	22.2
Balance Sheet							
Y/E March	FY16	FY17	FY18	FY19	FY20	FY21E	FY22E
Equity Share Capital	11.0	11.0	11.9	11.9	16.1	16.1	16.1
Reserves & Surplus	22.4	33.5	81.9	100.1	135.9	170.0	200.3
Net Worth	33.3	44.5	93.8	112.0	152.0	186.1	216.4
Deposits	120.9	232.3	338.7	432.3	570.8	690.7	870.3
Growth (%)	NM	92.2	45.8	27.6	32.0	21.0	26.0
of which CASA Dep	26.1	68.4	116.2	176.2	210.4	262.9	348.6
Growth (%)	NM	162.4	70.0	51.6	19.4	24.9	32.6
Borrowings	30.5	10.3	2.9	5.2	163.8	147.4	137.1
Other Liabilities & Prov.	12.8	15.3	7.7	14.9	30.6	32.1	33.8
Total Liabilities	197.6	302.4	443.1	564.4	917.2	1,056.3	1,257.5
Current Assets	31.7	73.6	55.1	58.0	83.5	86.9	94.9
Investments	37.6	55.2	83.7	100.4	153.5	188.8	232.3
Growth (%)	NM	46.8	51.8	19.9	52.9	23.0	23.0
Loans	124.4	168.4	297.1	396.4	666.3	765.0	913.5
Growth (%)	NM	35.4	76.5	33.4	68.1	14.8	19.4
Fixed Assets	2.4	2.5	2.4	3.3	3.7	4.2	4.6
Other Assets	1.5	2.6	4.8	6.3	10.1	11.4	12.2
Total Assets	197.6	302.4	443.1	564.4	917.2	1,056.3	1,257.5
Asset Quality	FY16	FY17	FY18	FY19	FY20	FY21E	FY22E
GNPA	0.2	0.9	3.7	8.2	9.9	17.9	21.3
NNPA	0.2	0.9	3. <i>7</i> 1.7	2.3	3.9	6.6	7.1
GNPA Ratio	0.1	0.6	1.7	2.3	1.5	2.3	2.3
NNPA Ratio	0.2	0.5	0.6	0.6	0.6	0.9	0.8
Credit Cost	0.0	0.4	1.0	1.9	2.6	2.5	2.2
PCR (Excl Tech. write off)	45.4		53.7			63.1	66.8
ren (Exci recii. wiile oii)	45.4	29.1	55./	72.1	60.8	03.1	8.00

19 June 2020



Financials & Valuations

Ratios							
Y/E March	FY16	FY17	FY18	FY19	FY20	FY21E	FY22E
Spread Analysis (%)							
Avg. Yield- on Earning Assets	18.7	17.3	13.9	14.2	15.6	14.1	13.9
Avg. Yield on loans	20.6	21.3	16.4	16.5	17.9	15.9	15.8
Avg. Yield on Investments	7.0	9.2	7.1	6.7	6.6	6.5	6.3
Avg. Cost of Int. Bear. Liab.	8.7	8.0	6.5	6.0	8.3	7.3	7.1
Avg. Cost of Deposits	7.0	6.8	6.7	6.5	6.4	6.8	6.6
Interest Spread	10.0	9.4	7.5	8.2	7.4	6.8	6.8
Net Interest Margin	11.0	10.7	8.8	9.6	9.1	8.2	8.2
Capitalisation Ratios (%)							
CAR	29.0	26.4	31.5	29.2	27.4	23.3	22.4
Tier I	26.7	24.8	30.3	27.9	25.2	22.9	22.0
Tier II	2.3	1.6	1.2	1.3	2.2	0.5	0.4
Business and Efficiency Ratios (%)							
Loans/Deposit Ratio	102.9	72.5	87.7	91.7	116.7	110.8	105.0
CASA Ratio	21.6	29.4	34.3	40.8	36.9	38.1	40.1
Cost/Assets	3.1	3.4	3.0	3.2	2.6	3.0	3.2
Cost/Total Income	56.9	36.3	35.0	32.6	30.8	34.0	35.5
Cost/Core income	57.0	36.6	35.4	32.8	31.0	34.2	35.7
Int. Expense/Int.Income	41.0	38.5	36.9	32.3	41.9	42.0	40.9
Fee Income/Total Income	13.7	13.8	17.7	18.4	19.1	18.7	19.6
Non Int. Inc./Total Income	13.8	14.6	18.9	19.1	19.7	19.4	20.2
Empl. Cost/Total Expense	52.8	53.4	52.6	55.7	56.3	56.7	56.7
Investment/Deposit Ratio	31.1	23.7	24.7	23.2	26.9	27.3	26.7
Profitability Ratios and Valuation							
RoE	8.3	28.6	19.5	19.0	22.9	19.2	19.7
RoA	1.4	4.4	3.6	3.9	4.1	3.3	3.4
RoRWA	2.2	7.4	5.6	5.7	5.6	4.3	4.4
Book Value (INR)	30	41	79	94	94	116	134
Growth (%)	NM	33.3	93.7	19.4	0.5	22.5	16.3
Price-BV (x)	8.9	6.7	3.5	2.9	2.9	2.3	2.0
Adjusted BV (INR)	30	40	78	93	93	113	131
Price-ABV (x)	8.9	6.8	3.5	2.9	2.9	2.4	2.1
EPS (INR)	2.5	10.2	11.8	16.4	21.6	20.2	24.7
Growth (%)	NM	NM	15.8	39.1	31.9	-6.4	22.2
Price-Earnings (x)	108.0	26.7	23.1	16.6	12.6	13.5	11.0
Dividend Per Share (INR)	0.0	0.0	1.2	3.6	0.0	4.7	5.9
Dividend Yield (%)	0.0	0.0	0.4	1.3	0.0	1.7	2.2



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 within following 30 days take appropriate measures to make the recommendation consistent with the investment rating legend.

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 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, Investment Advisory Services, Depository participant services & distribution of various financial products. MOFSL is a subsidiary company of Passionate Investment Management Pvt. Ltd.. (PIMPL). 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 website at https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx

A graph of daily closing prices of securities is available at www.nseindia.com, www.nseindia.com. Research Analyst views on Subject Company may vary based on Fundamental 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.

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 MOFSL & 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 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.

Motial 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 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 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

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

- 1 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.
- 2 MOFSL, Research Analyst and/or his relatives do not have actual/beneficial ownership of 1% or more securities in the subject company
- 3 MOFSL, Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months
- 4 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
- 5 Research Analyst has not served as director/officer/employee in the subject company
- 6 MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- 7 MOFSL has not received compensation for investment banking/ merchant banking/brokerage services from the subject company in the past 12 months
- 8 MOFSL has not received compensation for other than investment banking/merchant banking/brokerage services from the subject company in the past 12 months
- 9 MOFSL has not received any compensation or other benefits from third party in connection with the research report
- 10 MOFSL has not engaged in market making activity for the subject company



The associates of MOFSL may have:

- financial interest in the subject company
- actual/beneficial ownership of 1% or more securities in the subject company
- received compensation/other benefits from the subject company in the past 12 months
- 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.

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.

Registered Office Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022 71934200/ 022-71934263; Website www.motilaloswal.com. CIN no.: L67190MH2005PLC153397. Correspondence Office Address: Palm Spring Centre, 2nd Floor, Palm Court Complex, New Link Road, Malad(West), Mumbai- 400 064. Tel No: 022 7188 1000.

Registration Nos.: Motilal Oswal Financial Services Limited (MOFSL)*: INZ000158836(BSE/NSE/MCX/NCDEX); CDSL and NSDL: IN-DP-16-2015; Research Analyst: INH000000412. AMFI: ARN - 146822; Investment Adviser: INA000007100; Insurance Corporate Agent: CA0579;PMS:INP000006712. Motilal Oswal Asset Management Company Ltd. (MOAMC): PMS (Registration No.: INP000000670); PMS and Mutual Funds are offered through MOAMC which is group company of MOFSL. Motilal Oswal Financial Services Limited is a distributor of Mutual Funds, PMS, Fixed Deposit, Bond, NCDs,Insurance Products and IPOs.Real Estate is offered through Motilal Oswal Real Estate Investment Advisors II Pvt. Ltd. which is a group company of MOFSL. Private Equity is offered through Motilal Oswal Private Equity Investment Advisors Pvt. Ltd which is a group company of MOFSL. Research & Advisory services is backed by proper research. Please read the Risk Disclosure Document prescribed by the Stock Exchanges carefully before investing. There is no assurance or guarantee of the returns. Investment in securities market is subject to market risk, read all the related documents carefully before investing. Details of Compliance Officer: Name: Neeraj Agarwal, Email ID: na@motilaloswal.com, Contact No.:022-71881085.

* 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.