

BSE SENSEX 52,323 S&P CNX 15,691

Motilal Oswal values your support in the Asiamoney Brokers Poll 2021 for India Research, Sales, Corporate Access and Trading team. We [request your ballot](#).



Bloomberg	CEAT IN
Equity Shares (m)	40
M.Cap.(INRb)/(USD)	55.8 / 0.8
52-Week Range (INR)	1763 / 835
1, 6, 12 Rel. Per (%)	2/12/-8
12M Avg Val (INR M)	402

Financials & valuations (INR b)

Y/E March	FY21	FY22E	FY23E
Sales	76.1	88.1	101.9
EBITDA	9.8	9.5	12.9
EBITDA Margin (%)	12.9	10.8	12.7
Adj. PAT	4.6	3.3	5.3
EPS (INR)	114.3	81.9	132.0
EPS Gr. (%)	100.2	-28.3	61.2
BV/Sh. (INR)	820	890	1,010
Ratios			
RoE (%)	14.9	9.6	13.9
RoCE (%)	12.2	8.6	11.4
Payout (%)	16.9	14.7	9.1
Valuations			
P/E (x)	12.1	16.8	10.5
P/BV (x)	1.7	1.6	1.4
Div. Yield (%)	1.3	0.9	0.9
FCF Yield (%)	12.9	-3.9	4.4

CMP: INR1,380 TP: INR1,700 (+23%)
Buy

Investing for bigger pie of the PCR/TBR segment

Targets to grow exports by 3x in five years | Gradual price hikes to dilute cost inflation

CEAT's senior management team presented ([click here for the presentation](#)) their roadmap for the future at its annual investor conference. It also showcased its strategy to gain a bigger share in India, grow its exports, and investing for growth without putting undue pressure on its Balance Sheet.

- Demand recovery in the Replacement segment is seen in Jun'21. After five years of weak demand, it expects growth to pick-up as a base adjustment has occurred.
- It plans to maintain leadership in the 2W segment (at 28-30%) and expand dominance in PCR (to 20% from 13-15% currently). In T&B, it aims to increase its market share in TBR to 13-15% (from 8% currently and take it to similar levels as in the TBB segment).
- In PCR, its strategy to take its market share to 20% pivots on: a) ramping-up in premium sizes (over 15"), b) multiple platforms, and c) benefit of higher share with OEMs on brand visibility for replacement.
- In TBR tyres, its strategy to gain market share is driven by product and innovative services. CEAT's TBR tyre performance is comparable with the best, but is priced 1-2% lower than the market leader. The ongoing capacity addition would support these aspirations on market share.
- It has raised prices further in Apr-May'21 (~4%) and expects another price hike in Jun'21 to offset cost pressures (8-10% QoQ increase in 1QFY22).
- Due to a weak 1Q and capex plans, it expects debt to rise in FY22, but the same will be well under its limit of less than 1x equity and less than 3x EBITDA.
- **Demand outlook:** Demand in 1QFY22 remains challenging, though there is some uptick in Replacement demand in Jun'21. The T&B segment is the least affected due to COVID-19, whereas PCR and Tractor have been hit the most. With a normal monsoon and positive farm indicators, demand for Tractor tyres is expected to bounce back. Exports continue to do well even in 1QFY22. Over the longer term, it expects demand growth to pick-up as the base adjustment has happened after weak OEM and Replacement demand in the last five years due to various factors.
- **Market share targets for the next 5 years:** It aims to maintain its leadership in the 2W segment (at 28-30%) and expand its dominance in PCR (to 20% from 13-15% at present). In T&B, it aims to increase its market share in TBR to 13-15% (from 8% currently; take it to a similar share it has in the TBB segment). Its focus on the Passenger segment remains. Considering the importance of the T&B segment for the purpose of scale and relevance, it aims to improve its market share in the TBR segment.
- **Consolidation in the 2W segment:** In 2Ws, it is looking at boosting market share by investing in its network, brand, and products (white spaces and innovation). On the OEM side, it would focus on Honda, where its market share is on the lower side (v/s 20-50% share with others). In e-2Ws, it enjoys over 50% share of the business with all players (including startups).

Jinesh Gandhi – Research Analyst (Jinesh@MotilalOswal.com)

Research Analyst: Vipul Agrawal (Vipul.Agrawal@MotilalOswal.com) / Aniket Desai (Aniket.Desai@motilalosal.com)

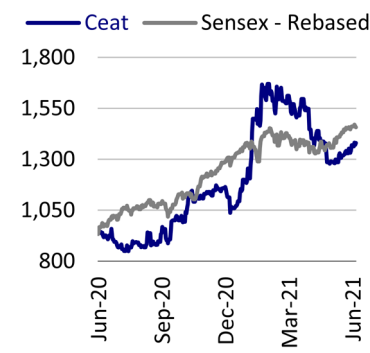
Investors are advised to refer through important disclosures made at the last page of the Research Report.

Motilal Oswal research is available on www.motilalosal.com/Institutional-Equities, Bloomberg, Thomson Reuters, Factset and S&P Capital.

Shareholding pattern (%)

As On	Mar-21	Dec-20	Mar-20
Promoter	46.8	46.8	46.7
DII	13.7	14.8	8.9
FII	27.0	24.5	28.2
Others	12.6	13.9	16.2

FII Includes depository receipts

Stock performance (one-year)

- **Aiming for 20% market share in PCR tyres:** In PCR, it gained ~3pp market share to 13-14% in FY21. Its strategy to raise its market share to 20% pivots on: a) ramping-up in premium sizes (over 15”), b) multiple platforms, and c) benefit of higher share with OEMs on brand visibility for replacement. In the last 12 months, contribution of bigger rim sizes has increased by 5% (to ~20%). With OEMs, it expects to gain 5pp market share (to 18-20%) over the next 18-24 months, based on orders/RFQs in hand. This will have a rub-off on brand visibility in the Replacement segment.
- **TBR tyres:** Its strategy to gain market share is driven by product and innovative services. CEAT’s TBR tyre performance is comparable with the best, but is priced 1-2% lower than the market leader. It is working with fleet operators to demonstrate lower cost per km for its tyres. With a good product, it is changing the adverse perception of its brand in the T&D segment. The planned TBR capacity addition will support its market share targets.
- **Export target of 3x:** It is targeting a 3x increase in exports over the next five years (~INR10.65b in FY21). It is seeding the right markets, along with market-specific product development. It is focused on Europe (PCR, TBR, and OTR), Southeast Asia (2W tyres), and the US (OTR). It would be selling through a local distributor, who would be driving marketing.
- **Price hikes to dilute cost pressures:** It has raised prices further in Apr-May’21 (~4%) and expects another price hike in Jun’21 to offset cost pressures (8-10% QoQ increase in 1QFY22). It expects commodity prices to remain at elevated levels. Hence, margin would be lower in 1Q, but start improving from 2QFY22 onwards. It is working towards lowering costs by ~INR1.5b (implies a 1.5-1.7pp expansion on our FY22E revenue estimate) through scrap reduction, network redesign, power cost, factory efficiencies, opex cost, etc. It is working on increasing automation and digitization to improve efficiency/throughput.
- **Capex and debt:** Based on its recent announcement of TBR capacity addition of 190tpd for INR12b, project capex for FY22/FY23 is estimated to be INR10b/INR8b and maintenance capex would be INR1.75b p.a. As a result, it expects debt to rise in FY22, but the same will be well under its limit of less than 1x equity and less than 3x EBITDA.
- **ESG focus:** CEAT is targeting a reduction in its carbon footprint by CY30. It has set a target of 50% reduction in its carbon footprint by CY30. While product use (light weight, low rolling resistance, and increased retreadability) will contribute the lion’s share to this target, it will also increase greener RM, green energy, recycling, and recovery rates. Considering 50-55% of RM are crude derivatives, a shift away to silica could result in higher cost.
- **Valuation and view:** The near-term outlook is challenging, impacted by demand weakness due to COVID-19 and sharp RM cost inflation. The latter will be gradually passed on over the next 2-3 quarters as demand returns once the pandemic ends. However, cyclical recovery in both OEMs and Replacement will enable faster absorption of new capacities and drive benefits of operating leverage. We expect revenue/EBITDA/PAT CAGR of ~16%/15%/7% over FY21-23E. Valuations at 10.5x FY23E consolidated EPS doesn’t fully capture ramp-up of new capacities in an improving demand environment, resulting in a recovery in margin. We maintain our Buy rating with a TP of ~INR1,700/share (~13x Mar’23E consolidated EPS).

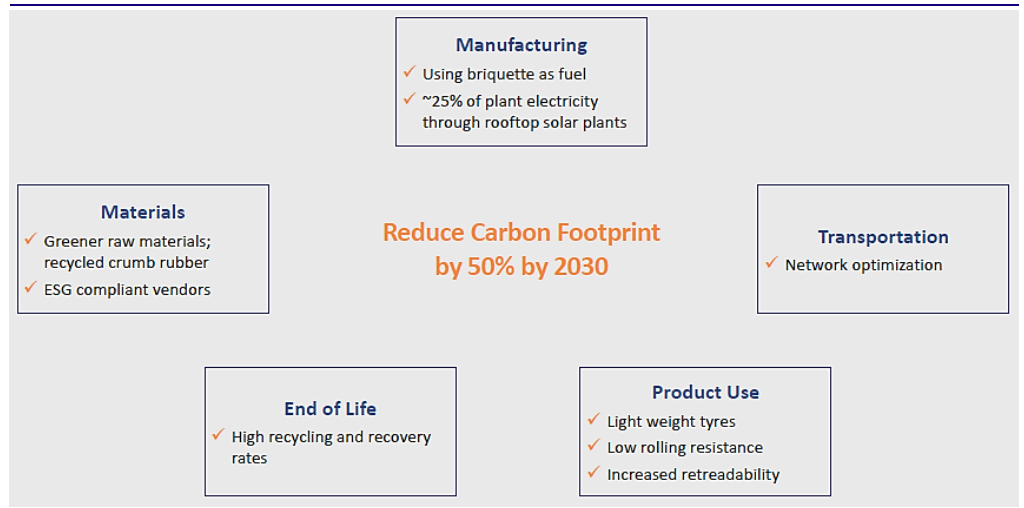
Exhibit 1: CEAT adding capacity to expand market share

Segment	Unit	FY21 Exit	FY22 Exit	FY23 Exit
Passenger Car Radial	Tyres / month	8,70,000	11,60,000	14,50,000
2/3 - Wheeler	Tyres / month	33,04,000	33,55,000	41,65,000
Truck and Bus Radial *	Tyres / month	1,00,000	1,20,000	1,56,000
Truck and Bus Bias	Tyres / month	1,45,000	1,45,000	1,45,000
Off-Highway (Bias + Radial)	Tonnes / day	165	200	225
LM / LCV	Tonnes / day	80	80	80
Sri Lanka	Tonnes / day	60	60	60

*Further 54,000 tyres/month of TBR capacity will be added post FY23

Source: Company

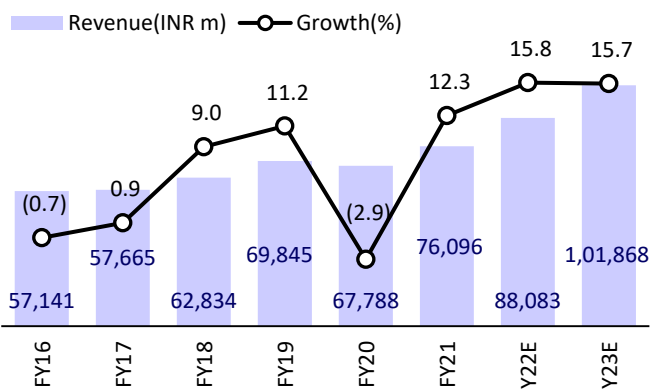
Exhibit 2: Targeting 50% reduction in carbon footprint by CY30



Source: Company

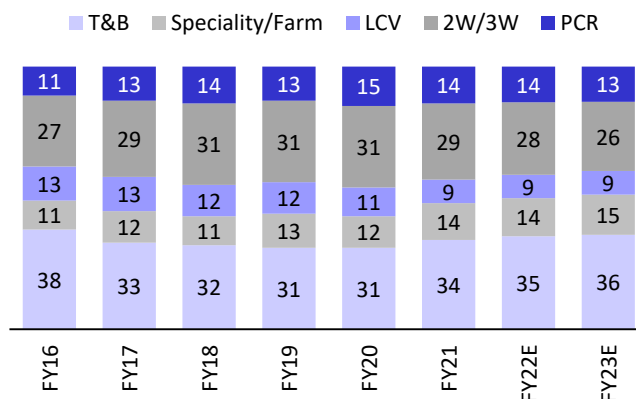
Story in charts

Exhibit 3: Revenue and growth trend



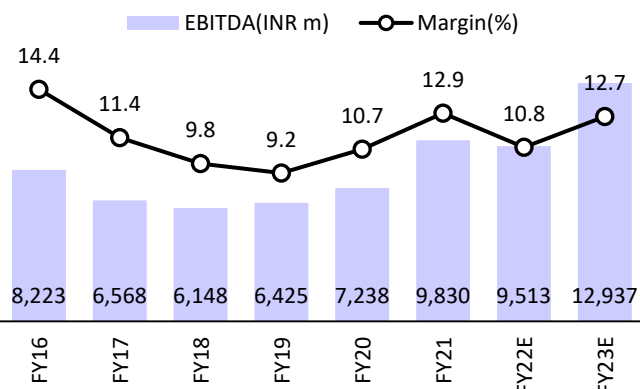
Source: MOFSL, Company

Exhibit 4: Key revenue segments



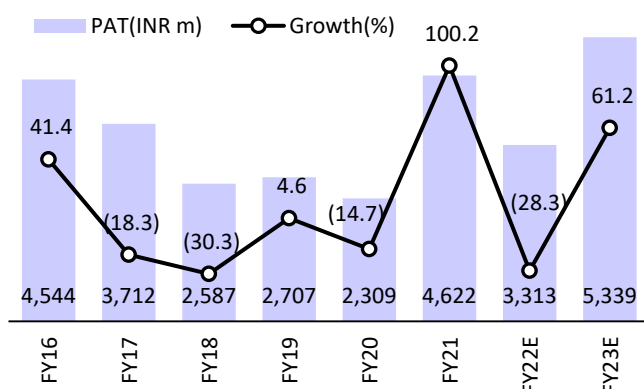
Source: MOFSL, Company

Exhibit 5: EBITDA and EBITDA margin trend



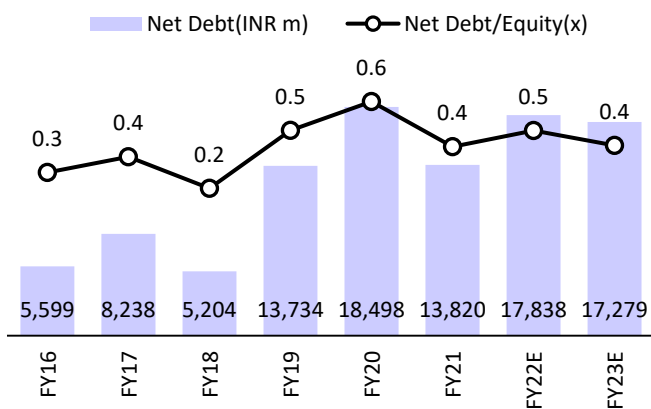
Source: MOFSL, Company

Exhibit 6: PAT and PAT growth trend



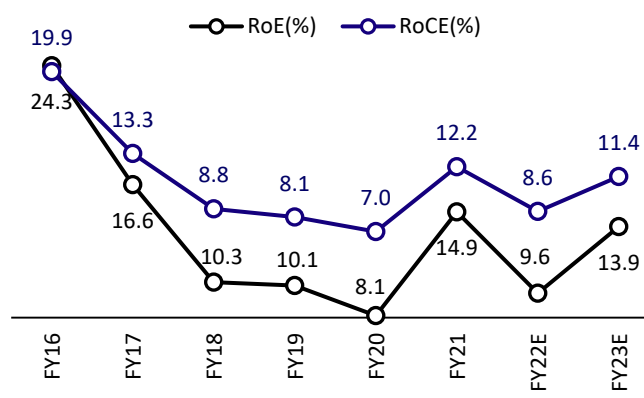
Source: MOFSL, Company

Exhibit 7: Trend in debt levels



Source: MOFSL, Company

Exhibit 8: Trend in return profile



Source: MOFSL, Company

Financials and valuations

Consolidated Income Statement

(INR m)

Y/E March	FY19	FY20	FY21	FY22E	FY23E
Net Revenues from Ops	69,845	67,788	76,096	88,083	1,01,868
Change (%)	11.2	-2.9	12.3	15.8	15.7
EBITDA	6,425	7,238	9,830	9,513	12,937
Margin (%)	9.2	10.7	12.9	10.8	12.7
Depreciation	1,927	2,765	3,396	3,761	4,364
EBIT	4,498	4,473	6,433	5,752	8,573
Int. and Finance Charges	880	1,509	1,755	1,725	1,868
Other Income	390	205	138	180	240
PBT bef. EO Exp.	4,008	3,169	4,816	4,207	6,945
EO Items	-297	5	-341	0	0
PBT after EO Exp.	3,711	3,174	4,476	4,207	6,945
Total Tax	1,402	1,046	516	1,094	1,806
Tax Rate (%)	37.8	33.0	11.5	26.0	26.0
Minority Int./Share JV PAT	-213	-184	-361	-200	-200
Reported PAT	2,522	2,312	4,320	3,313	5,339
Adjusted PAT	2,707	2,309	4,622	3,313	5,339
Change (%)	4.6	-14.7	100.2	-28.3	61.2
Margin (%)	3.9	3.4	6.1	3.8	5.2

Consolidated Balance Sheet

(INR m)

Y/E March	FY19	FY20	FY21	FY22E	FY23E
Equity Share Capital	405	405	405	405	405
Total Reserves	27,257	28,675	32,758	35,586	40,440
Net Worth	27,661	29,079	33,163	35,991	40,845
Minority Interest	238	237	232	232	232
Total Loans	14,469	18,772	14,180	18,680	18,680
Deferred Tax Liabilities	2,198	2,744	2,800	2,800	2,800
Capital Employed	44,566	50,832	50,376	57,703	62,557
Gross Block	37,663	50,231	59,663	77,092	87,592
Less: Accum. Deprn.	5,868	8,633	12,029	15,790	20,154
Net Fixed Assets	31,795	41,598	47,634	61,302	67,438
Goodwill on Consolidation	0	0	0	0	0
Capital WIP	8,329	10,685	7,929	2,000	3,000
Total Investments	1,814	1,837	2,101	2,101	2,101
Curr. Assets, Loans and Adv.	22,111	19,410	23,652	27,039	29,663
Inventory	10,056	9,257	11,299	13,346	13,400
Account Receivables	7,064	6,744	9,216	8,446	9,768
Cash and Bank Balance	735	274	361	842	1,401
Loans and Advances	4,256	3,135	2,776	4,404	5,093
Curr. Liability and Prov.	19,484	22,697	30,940	34,738	39,645
Account Payables	10,529	11,948	19,478	21,526	24,364
Other Current Liabilities	7,566	9,114	9,921	11,451	13,243
Provisions	1,389	1,635	1,541	1,762	2,037
Net Current Assets	2,627	-3,288	-7,288	-7,700	-9,982
Appl. of Funds	44,566	50,832	50,376	57,703	62,557

E: MOSL estimates

Financials and valuations

Ratios

Y/E March	FY19	FY20	FY21	FY22E	FY23E
Basic (INR)					
EPS	66.9	57.1	114.3	81.9	132.0
Cash EPS	114.6	125.4	198.2	174.9	239.9
BV/Share	683.8	718.9	819.8	889.8	1,009.8
DPS	12.0	12.0	18.0	12.0	12.0
Payout (%)	23.2	25.3	16.9	14.7	9.1
Valuation (x)					
P/E	20.6	24.2	12.1	16.8	10.5
P/BV	2.0	1.9	1.7	1.6	1.4
EV/Sales	1.0	1.1	0.9	0.8	0.7
EV/EBITDA	10.8	10.3	7.1	7.7	5.6
Dividend Yield (%)	0.9	0.9	1.3	0.9	0.9
Return Ratios (%)					
RoE	10.1	8.1	14.9	9.6	13.9
RoCE	8.1	7.0	12.2	8.6	11.4
RoIC	9.0	8.4	14.6	9.2	11.7
Working Capital Ratios					
Fixed Asset Turnover (x)	1.9	1.3	1.3	1.1	1.2
Asset Turnover (x)	1.6	1.3	1.5	1.5	1.6
Inventory (Days)	53	50	54	55	48
Debtor (Days)	37	36	44	35	35
Creditor (Days)	55	64	93	89	87
Leverage Ratio (x)					
Current Ratio	1.1	0.9	0.8	0.8	0.7
Interest Coverage Ratio	5.1	3.0	3.7	3.3	4.6
Net Debt/Equity	0.5	0.6	0.42	0.50	0.4

Consolidated Cash Flow Statement

(INR m)

Y/E March	FY19	FY20	FY21	FY22E	FY23E
OP/(Loss) before Tax	3,560	2,871	4,476	4,207	6,945
Depreciation	1,927	2,765	3,396	3,761	4,364
Interest and Finance Charges	880	1,509	1,755	1,545	1,628
Direct Taxes Paid	-808	-181	-512	-1,094	-1,806
(Inc.)/Dec. in WC	235	2,582	4,516	893	2,841
CF from Operations	5,794	9,546	13,631	9,312	13,972
Others	-267	17	-54	0	0
CF from Operating incl. EO	5,527	9,563	13,577	9,312	13,972
(Inc.)/Dec. in FA	-11,073	-11,183	-6,395	-11,500	-11,500
Free Cash Flow	-5,547	-1,620	7,182	-2,188	2,472
(Pur.)/Sale of Investments	320	9	-27	0	0
Others	236	419	241	180	240
CF from Investments	-10,517	-10,755	-6,181	-11,320	-11,260
Issue of Shares	0	0	0	0	0
Inc./(Dec.) in Debt	6,260	3,854	-5,677	4,500	0
Interest Paid	-889	-1,925	-1,628	-1,725	-1,868
Dividend Paid	-526	-1,139	-4	-485	-485
Others	0	0	0	200	200
CF from Fin. Activity	4,844	790	-7,309	2,489	-2,153
Inc./Dec. in Cash	-146	-402	87	481	559
Opening Balance	822	675	274	361	842
Closing Balance	675	274	361	842	1,401

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://online-reports.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.bseindia.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.

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 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 -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 Wealth Management Ltd. (MOWML): PMS (Registration No.: INP000004409) is offered through MOWML, which is a 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.