

Colgate

Buy

Estimate changes	1
TP change	I I
Rating change	

Bloomberg	CLGT IN
Equity Shares (m)	272
M.Cap.(INRb)/(USDb)	425.3 / 5.8
52-Week Range (INR)	1676 / 1065
1, 6, 12 Rel. Per (%)	0/-9/-9
12M Avg Val (INR M)	1240

Financials & Valuations (INR b)

Y/E March	2020	2021E	2022E	2023E
Sales	45.3	48.3	53.2	58.5
Sales Gr. (%)	1.4	6.7	10.3	9.9
EBITDA	12.0	14.8	16.1	17.9
EBITDA Mrg. (%)	26.6	30.6	30.3	30.6
Adj. PAT	8.2	9.8	10.9	12.3
Adj. EPS (INR)	30.0	36.1	40.0	45.3
EPS Gr. (%)	8.1	20.4	10.7	13.3
BV/Sh.(INR)	58.6	61.0	61.0	61.0
Ratios				
RoE (%)	53.7	60.4	65.6	74.3
RoCE (%)	52.2	60.6	65.8	74.5
Payout (%)	93.2	93.5	100.0	100.0
Valuation				
P/E (x)	52.1	43.3	39.1	34.5
P/BV (x)	26.7	25.7	25.7	25.7
EV/EBITDA (x)	35.0	28.4	25.9	23.4
Div. Yield (%)	1.8	2.2	2.6	2.9

Shareholding pattern (%)

As On	Dec-20	Sep-20	Dec-19
Promoter	51.0	51.0	51.0
DII	10.4	11.1	10.4
FII	16.6	15.7	16.5
Others	22.0	22.2	22.1

FII Includes depository receipts

CMP: INR1,564 TP: INR1,810 (+16%)

Gross margin expansion leads to beat on estimates

- Colgate's (CLGT) EBITDA and PAT growth for 3QFY21 was ahead of estimates – led by the highest quarterly gross margin in the last 10 years and lower-than-expected depreciation. Meanwhile, sales and volume growth, currently in the mid-single digits, is yet to show signs of approaching an elevated trajectory.
- As highlighted in our <u>note in December</u>, new launches appear promising of late. However, traction on these launches or entry into new categories is needed for the company to grow the topline and earnings above the low- to mid-single-digit CAGRs seen in the past five years.
- In the meantime, a) healthy rural outlook for the next few quarters, especially in light of CLGT seeing 40% sales contribution from rural, b) the promise of traction in new products, and c) inexpensive valuations of 39.1x FY22E and 34.5x FY23E have led us to maintain our Buy rating on the stock.

Better-than-expected sales; significant beat on profitability

- Net sales grew 7.4% YoY to INR12.3b (est. INR12.1b) in 3QFY21. EBITDA increased 17.3% YoY to INR3.7b (est. INR3.6b). PBT was up 24.5% YoY to INR3.3b (est. INR3.1b). Adj. PAT grew 24.7% YoY to INR2.5b (est. INR2.4b).
- **Gross margins expanded 410bp YoY to 69.8%** (est. 67%) the highest quarterly gross margin reported in the last 10 years.
- As a percentage of sales, higher staff costs (up 30bp YoY) and higher adspends (up 360bp YoY) were offset by lower other expenses (down 240bp YoY). Thus, EBITDA margins expanded 250bp YoY to 30.1% (est. 29.6%).
- Absolute ad spends were up 38.3% YoY in 3Q.

Highlights from management commentary

- Domestic net sales reported healthy 10.1% growth in 3Q.
- Through higher advertising spends, CLGT continues to invest in its brands and support new product launches.
- The company introduced new categories such as Mouth Spray and Oil Pulling under the Vedshakti franchise.
- CLGT recently launched Asia's first toothpaste for diabetics, which utilizes
 Ayurvedic ingredients to help diabetics maintain good oral health.
- The Naturals Toothbrush portfolio was also expanded with the launch of Super Flexi Salt and Zig Zag Turmeric.
- CLGT also launched Colgate Magik, a unique toothbrush that uses augmented reality to enhance children's experience.

Krishnan Sambamoorthy - Research analyst (Krishnan.Sambamoorthy@MotilalOswal.com)

Research analyst: Dhairya Dhruv (Dhairya.Dhruv@motilaloswal.com) / Kaiwan Jal Olia (kaiwan.o@motilaloswal.com)

Valuation and view

 Changes to the model have resulted in a 5.4%/5.8%/2.1% increase in FY21/FY22/FY23E EPS, largely led by a gross margin surprise and lower-thanexpected depreciation.

■ Inexpensive valuations and the potential benefits of a strong rural presence have led us to maintain our **Buy** rating on the stock. This is even as we await traction on new products, market share gains, and any announcement related to entry into newer categories — which would elevate topline growth above the 2.6% CAGR levels and earnings growth above the 7.9% CAGR levels of the last five years. With a target multiple of 40x FY23E, we arrive at TP of INR1,810 — a 16% upside to CMP.

Quarterly Performance												(INR m)
Y/E March		FY20 FY21			FY21			FY20	FY21E	FY21	Var.	
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4QE			3QE	(%)
Toothpaste Volume Gr %	4.0	4.0	2.3	-8.0	0.0	4.0	6.0	17.0	0.6	6.8	4.5	
Net Sales (incldg. OOI)	10,849	12,218	11,472	10,713	10,406	12,855	12,319	12,684	45,251	48,264	12,103	1.8%
YoY change (%)	4.2	4.6	4.3	-7.1	-4.1	5.2	7.4	18.4	1.4	6.7	5.5	
Gross Profit	7,145	7,910	7,541	6,926	6,883	8,759	8,594	8,529	29,522	32,764	8,113	5.9%
Gross margin (%)	65.9	64.7	65.7	64.7	66.1	68.1	69.8	67.2	65.2	67.9	67.0	
EBITDA	2,998	3,230	3,161	2,629	3,080	4,093	3,706	3,877	12,017	14,756	3,576	3.6%
Margins (%)	27.6	26.4	27.6	24.5	29.6	31.8	30.1	30.6	26.6	30.6	29.6	
YoY growth (%)	6.5	-2.0	0.5	-15.3	2.7	26.7	17.3	47.5	-2.8	22.8	13.2	
Depreciation	499	504	515	462	454	461	456	489	1,979	1,860	520	
Interest	23	24	29	20	20	18	19	23	96	80	29	
Financial other Income	152	86	58	196	63	76	99	85	492	322	87	
PBT	2,628	2,788	2,674	2,344	2,669	3,689	3,330	3,449	10,434	13,138	3,114	7.0%
Tax	937	347	683	302	687	947	847	828	2,269	3,310	747	
Rate (%)	35.7	12.4	25.6	12.9	25.7	25.7	25.4	24.0	21.7	25.2	24.0	
Adj PAT	1,691	2,441	1,991	2,042	1,982	2,742	2,484	2,621	8,165	9,828	2,366	5.0%
YoY change (%)	1.3	24.3	3.6	2.1	17.2	12.3	24.7	28.4	8.1	20.4	18.9	

E: MOFSL Estimates

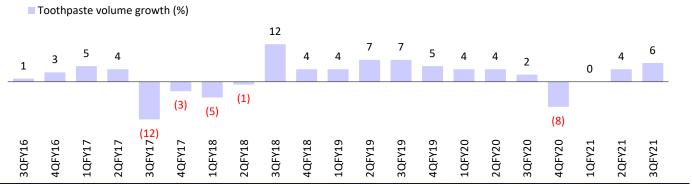
Key Performance Indicators

FY21			
2Q	3Q		
1.2	1.4		
4.0	4.2		
4.9	5.9		
12.4	8.9		
18.3	14.2		
31.9	30.2		
36.3	39.7		
3.6	3.7		
-4.9	-5.2		
-0.3	11.6		
-12.3	70.3		
33.3	22.9		
	-4.9 -0.3 -12.3		

E: MOFSL Estimates

Key exhibits

Exhibit 1: Toothpaste volumes grew 6% YoY in 3QFY21

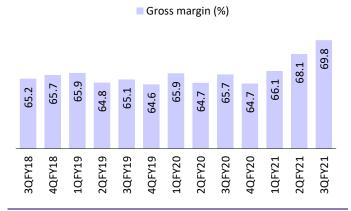


Source: Company, MOFSL

Exhibit 2: Revenue grew 7.4% YoY to INR12.3b in 3QFY21

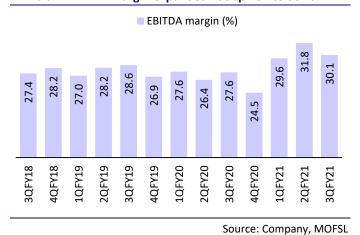
Revenue (INR b) — Total revenue growth (%) 18.2 6.5 6.4 5.7 5.2 4.2 4.6 10.3 10.9 11.0 11.5 10.8 10.4 12.3 12.2 10.4 2QFY19 1QFY20 2QFY20 **2QFY21**

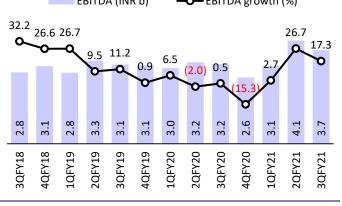
Exhibit 3: Gross margin expanded 410bp YoY



Source: Company, MOFSL Source: Company, MOFSL

Exhibit 4: EBITDA margin expanded 250bp YoY to 30.1%...





Source: Company, MOFSL

Valuation and view

What happened in the past decade from a business perspective?

- A combination of sharp decline in market share in recent years and increased penetration of the category itself has resulted in single-digit topline growth over the last 10 years. In recent years, premiumization has also come off, affecting realization growth (v/s the past).
- For a company with a modest base of INR20.4b sales in FY10, a sales/EBITDA/PBT CAGR of 8–10% over the last 10 years is weak. The PAT CAGR was even lower at 7% as the company's tax rate stood at 16.7% in FY10.
- Due to market share decline in recent years, the sales/EBITDA/PAT CAGR was even lower in the last five years at ~3%/~8%/~8%.

What is our broad investment argument?

- The new CEO's stated primacy on volume growth and market share gains
- Visible efforts on branding via sharp increase in ad spends in recent quarters
- > Uptick in product development
- Direct distribution expansion in recent years, which augurs well for recouping some of the market share loss over the past few years

CLGT has strong moats in the form of brand, global expertise, distribution, and concentrated category focus. Based on these factors, it has been able to make a comeback several times in the past few decades (after losing market share for some time). Corporate tax cuts, which do not benefit peers materially, have also boosted competitiveness further. Importantly, the company does not need any material capex up to Dec'22.

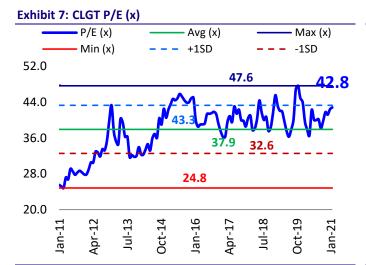
Valuations and view

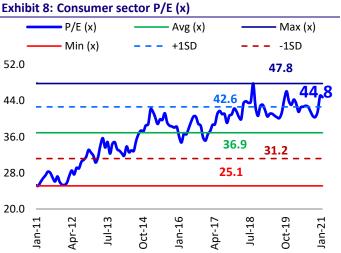
- Changes to the model have resulted in a 5.4%/5.8%/2.1% increase in FY21/FY22/FY23E EPS, largely led by a gross margin surprise and lower-thanexpected depreciation.
- Inexpensive valuations and the potential benefits of a strong rural presence have led us to maintain our **Buy** rating on the stock. This is even as we await traction on new products, market share gains, and any announcement related to entry into newer categories which would elevate topline growth above the 2.6% CAGR levels and earnings growth above the 7.9% CAGR levels of the last five years. With a target multiple of 40x FY23E, we arrive at TP of INR1,810 a 16% upside to CMP.

Exhibit 6: Changes to the model led to a 5.4%/5.8%/2.1% EPS upgrade for FY21/FY22/FY23E

INR m	Old				New		Change (%)			
	FY21E	FY22E	FY23E	FY21E	FY22E	FY23E	FY21E	FY22E	FY23E	
Sales	47,689	52,613	57,816	48,264	53,246	58,514	1.2	1.2	1.2	
EBITDA	14,201	15,383	17,494	14,756	16,139	17,919	3.9	4.9	2.4	
PAT	9,320	10,283	12,071	9,827	10,881	12,324	5.4	5.8	2.1	

Source: Company, MOFSL





Source: Company, MOFSL Source: Company, MOFSL

(INR m)

Financials and valuations

Income Statement

moonic statement								(,
Y/E March	2016	2017	2018	2019	2020	2021E	2022E	2023E
Net Sales	38,682	39,818	41,880	44,624	45,251	48,264	53,246	58,514
Change (%)	-3.0	2.9	5.2	6.6	1.4	6.7	10.3	9.9
COGS	14,763	14,763	14,887	15,586	15,729	15,500	17,106	18,563
Gross Profit	23,919	25,055	26,992	29,039	29,522	32,764	36,140	39,951
Gross Margin (%)	61.8	62.9	64.5	65.1	65.2	67.9	67.9	68.3
Operating expenses	14,534	15,619	15,855	16,678	17,505	18,008	20,001	22,033
EBITDA	9,385	9,435	11,137	12,361	12,017	14,756	16,139	17,919
Change (%)	13.2	0.5	18.0	11.0	-2.8	22.8	9.4	11.0
Margin (%)	24.3	23.7	26.6	27.7	26.6	30.6	30.3	30.6
Depreciation	1,114	1,332	1,565	1,592	1,979	1,860	1,966	2,049
Int. and Fin. Charges	0	0	0	25	96	80	85	85
Financial Other Income	395	411	375	377	492	322	459	691
Profit before Taxes	8,666	8,514	9,947	11,120	10,434	13,138	14,547	16,476
Change (%)	11.1	-1.8	16.8	11.8	-6.2	25.9	10.7	13.3
Margin (%)	22.4	21.4	23.8	24.9	23.1	27.2	27.3	28.2
Tax	2,541	2,740	3,022	3,566	2,475	3,310	3,665	4,151
Tax Rate (%)	29.3	32.2	31.1	32.1	21.7	25.2	25.2	25.2
Adjusted PAT	6,125	5,774	6,850	7,555	8,165	9,827	10,881	12,324
Change (%)	9.6	-5.7	18.6	10.3	8.1	20.4	10.7	13.3
Margin (%)	15.8	14.5	16.4	16.9	18.0	20.4	20.4	21.1
Non-rec. (Exp)/Income	-313	0	-117	201	0	0	0	0
Reported PAT	5,812	5,774	6,734	7,756	8,165	9,827	10,881	12,324
Balance Sheet								(INR m)
Y/E March	2016	2017	2018	2019	2020	2021E	2022E	2023E
Share Capital	272	272	272	272	272	272	272	272
Reserves	10,038	12,466	14,974	14,196	15,670	16,308	16,308	16,308
Net Worth	10,310	12,738	15,246	14,468	15,942	16,580	16,580	16,580
Loans	0	0	0	777	0	0	0	0
Deferred Liability	97	275	355	309	50	50	50	50
Capital Employed	10,407	13,013	15,601	15,553	15,992	16,631	16,631	16,631
Gross Block	14,866	17,188	19,077	21,077	22,182	23,182	24,182	25,182
Less: Accum. Depn.	-4,785	-6,107	-7,617	-9,169	-10,953	-12,813	-14,779	-16,827
Net Fixed Assets	10,081	11,081	11,459	11,909	11,229	10,369	9,403	8,355
Capital WIP	784	1,666	1,586	1,987	1,900	1,900	1,900	1,900
Investments	312	312	312	312	186	186	186	186
Curr. Assets, L&A	8,852	10,048	12,282	12,058	12,725	14,601	16,499	18,321
Inventory	2,915	2,926	2,267	2,486	2,969	2,496	2,503	2,974
Account Receivables	1,015	1,299	2,010	2,098	1,326	2,098	2,314	2,543
Cash & Bank	2,887	2,943	4,562	3,994	4,213	6,204	6,546	6,718
Others	2,035	2,880	3,443	3,481	4,217	3,804	5,136	6,087
Curr. Liab. and Prov.	9,622	10,094	10,037	10,712	10,048	10,426	11,358	12,132
Account Payables	5,519	5,975	6,203	6,132	6,125	6,335	7,090	7,678
Other Liabilities	3,438	3,356	3,040	3,757	2,830	2,943	3,063	3,188
Provisions	664	763	794	823	1,093	1,148	1,205	1,265
Net Current Assets	-770	-46	2,245	1,346	2,677	4,176	5,141	6,190
Application of Funds	10,407	13,013	15,601	15,553	15,992	16,631	16,631	16,631
F. MOEGL Fatiments								

E: MOFSL Estimates

Financials and valuations

Ratios								
Y/E March	2016	2017	2018	2019	2020	2021E	2022E	2023E
Basic (INR)	2010	2017	2010	2013	2020	ZUZIL	ZUZZL	2023L
EPS	22.5	21.2	25.2	27.8	30.0	36.1	40.0	45.3
Cash EPS	26.6	26.1	30.9	33.6	37.3	43.0	47.2	52.8
BV/Share	37.9	46.8	56.1	53.2	58.6	61.0	61.0	61.0
DPS	11.0	11.0	24.0	23.0	28.0	33.8	40.0	45.3
Payout %	48.8	51.7	95.3	82.8	93.2	93.5	100.0	100.0
1 dyout 70	40.0	31.7		02.0	33.2		100.0	100.0
Valuation (x)								
P/E	69.4	73.7	62.1	56.3	52.1	43.3	39.1	34.5
Cash P/E	58.8	59.9	50.5	46.5	41.9	36.4	33.1	29.6
EV/Sales	10.9	10.6	10.0	9.5	9.3	8.7	7.9	7.2
EV/EBITDA	45.0	44.7	37.8	34.1	35.0	28.4	25.9	23.4
P/BV	41.3	33.4	27.9	29.4	26.7	25.7	25.7	25.7
Dividend Yield (%)	0.7	0.7	1.5	1.5	1.8	2.2	2.6	2.9
Return Ratios (%)								
RoE	68.0	50.1	49.0	50.9	53.7	60.4	65.6	74.3
RoCE	67.5	49.3	47.9	48.6	52.2	60.6	65.8	74.5
RoIC	119.0	75.7	76.5	79.5	82.9	107.0	129.8	150.0
Working Capital Ratios	113.0	73.7	70.5	75.5	02.3	107.0	123.0	130.0
Debtor (Days)	9	11	17	17	11	16	16	16
Asset Turnover (x)	4.2	3.6	3.1	3.4	3.3	3.3	3.7	4.0
rissee runnever (x)		3.0		3.1	3.3	3.3	3.7	1.0
Leverage Ratio								
Debt/Equity (x)	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Cook Eleve Chahamana								(INID)
Cash Flow Statement								(INR m)
Y/E March	2016	2017	2018	2019	2020	2021E	2022E	2023E
OP/(loss) before Tax	8,666	8,514	9,947	11,121	10,434	13,138	14,547	16,476
Depreciation	1,114	1,332	1,565	1,592	1,979	1,860	1,966	2,049
Int./Div. Received	-264	34	81	85	-95	-322	-459	-691
Interest Paid	-261	-297	-290	-317	-171	80	85	85
Direct Taxes Paid	-2,524	-3,014	-3,474	-4,144	-3,213	-3,310	-3,665	-4,151
(Incr)/Decr in WC	156	311	-889	1,494	-35	492	-623	-877
CF from Operations	6,887	6,880	6,940	9,830	8,899	11,938	11,851	12,891
(Incr)/Decr in FA	-2,713	-3,212	-2,087	-1,042	-604	-1,000	-1,000	-1,000
Free Cash Flow	4,175	3,668	4,853	8,788	8,295	10,938	10,851	11,891
(Pur)/Sale of Investments	70	0	0	0	133	0	0	0
Others	12	-205	564	-1,209	305	1,360	1,488	1,719
CF from Invest.	-2,631	-3,418	-1,523	-2,251	-166	360	488	719
	•	<u> </u>						
Change in Equity	0	0	0	0	0	0	0	0
(Incr)/Decr in Debt	0	0	0	-121	0	0	0	0
Dividend Paid	-2,987	-2,717	-2,986	-6,462	-7,315	-9,188	-10,881	-12,324
Others	-928	-689	-812	-1,564	-1,199	-1,119	-1,114	-1,114
CF from Fin. Activity	-3,915	-3,406	-3,798	-8,147	-8,514	-10,308	-11,995	-13,438
					212	4 000		
Incr/Decr of Cash	342	56	1,619	-568	219	1,991	343	171
Add: Opening Balance	2,545	2,887	2,943	4,562	3,994	4,213	6,203	6,546
Closing Balance	2,887	2,943	4,562	3,994	4,213	6,203	6,546	6,718

E: MOFSL Estimates

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				

*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.

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 - MOFSL) 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 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, www.nseindia.com, <a href="www.nseindia.com, <a href=

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.

or 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 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 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 Öffice 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.

* MOFSL 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.