

**BSE SENSEX**

39,616

**NIFTY50**

11,871


**Stock Info**

M.Cap. (INR b)	9.3
Avg daily Turnover, INR m	34.5
Equity Shares (m)	320
Face Value (INR)	1
52-Week Range (INR)	27/73
1/6/12m Rel.Per (%)*	-17/-44/-70
Free float (%)	44

\*Relative to BSE Sensex

**Financials Snapshot (INR bn)**

Y/E Mar	FY19	FY20E	FY21E
Net Sales	38.9	41.5	45.2
EBITDA	4.0	4.4	5.0
PAT	1.3	1.6	2.0
EPS (INR)	4.0	5.0	6.3
Gr. (%)	-6.0	27.6	24.2
BV/Sh (INR)	41.6	46.4	52.3
P/E (x)	7.3	5.7	4.6
P/BV (x)	0.7	0.6	0.6
EV/E (x)	6.4	5.7	4.9
Div. Yield (%)	0.5	0.7	0.9
RoE (%)	10.1	11.5	12.7
RoCE (%)	8.0	8.7	9.5

\* Closing price as on 7<sup>th</sup> June, 2019

**Shareholding pattern (%)**

As On	Mar-19	Dec-18	Sep-18
Promoter	56.0	56.0	56.0
MFs	9.1	11.9	12.0
FPIs	1.6	1.7	2.8
Others	33.4	30.3	29.2

Investors are advised to refer through disclosures made at the end of the Research Report.

**CMP: INR29 TP: INR45(+57%)**
**Buy**
**European business stabilizes, Focus shifts to Margin improvement**

For Q4FY19, on a consol. basis, LT Foods (LTFL) reported weak operational performance. Revenue/EBITDA down 6%/5% YoY with EBITDA margin flat at 8.8%. PAT declined 38% YoY on account of higher depreciation and finance cost. In order to achieve better profitability, the company is likely to focus on better margin business in India (premium segment of branded basmati like Daawat) & higher profitable geographies. Company's European business has ramped up as expected and is likely to contribute positively going ahead. We expect Revenue/EBITDA/PAT CAGR of 8%/12%/26% over FY19-21E. Company is expected to witness growth and profitability improvement on account of increasing share of premium branded business, focus on higher margin segments, ramp up in European subsidiary and bounce back in organic foods segment. Maintain BUY with a TP of INR 45/share.

**Higher depreciation and interest along with one off cost impacts**

**bottom line:** For Q4FY19, on a cons. basis, LTFL's revenue/EBITDA/PAT declined 5.8%/5.1%/38.4% YoY. Gross Margins expansion of 177bp to 24% was offset by higher employee cost (up 79bp to 4.4% of sales) and other expenses (up 92bp to 10.8% of sales mainly due to one off loss of INR38mn on account of write off of JV with Geneva rice mill). Higher depreciation cost (up from INR143mn to INR214mn YoY) & interest (INR439mn vs INR402mn in Q4FY19) led to PAT decline of 38.4% YoY.

**Outlook remains strong on back of company's focus on profitability**

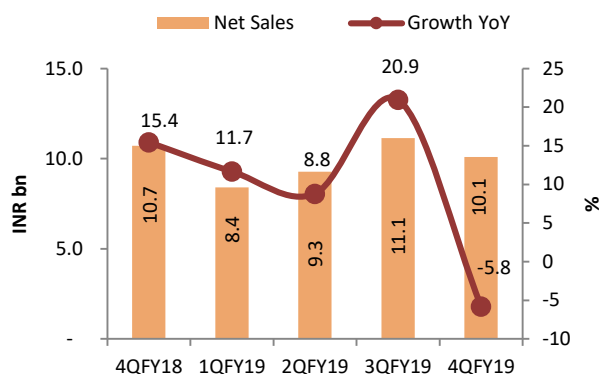
**improvement:** Management has guided for a focused approach to target growth in higher margin business in India where it has a strong brand in Daawat. From FY20 onwards, European subsidiary is expected to start contributing positively at EBITDA level. Company expects to achieve a capacity utilization of 50% in FY20 for its European subsidiary. Post a year of consolidation, Organic segment which is a higher margin business is likely to bounce back mainly on account of strong industry tailwinds (Global Organic F&B market is expected to register a CAGR of 18% over CY19-22E) and company's positioning in global organic business (NBFL accounts for ~90% of India's organic food exports). Specialty segment consisting of rice based snacks, brown rice etc. saw a robust growth of 37% YoY to ~INR490mn and the growth momentum is likely to continue.

**Quarterly Consolidated Performance (INR mn)**

Y/E March	Q4FY19	Q4FY18	YoY (%)	Q3FY19	QoQ (%)
Revenue	10,087	10,706	-5.8	11,139	-9.4
EBITDA	888	936	-5.1	1,095	-18.9
EBITDA Margin %	8.8	8.7	7bps	9.8	-102bps
Adj. PAT	197	320	-38.4	350	-43.7

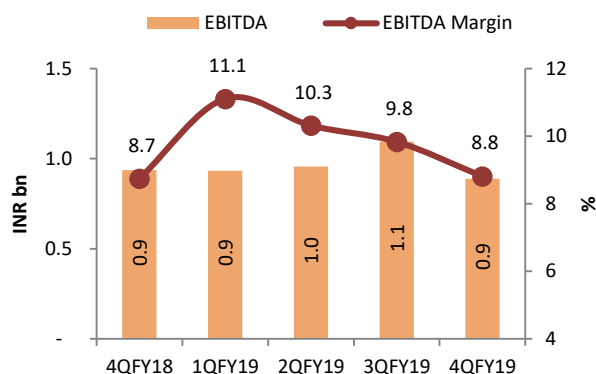
## Q4FY19 in Charts

Exhibit 1: Revenue growth trend



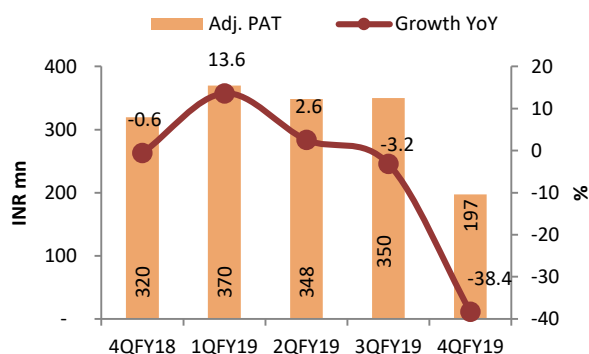
Source: Company, MOSL

Exhibit 2: EBITDA margin bottoming out



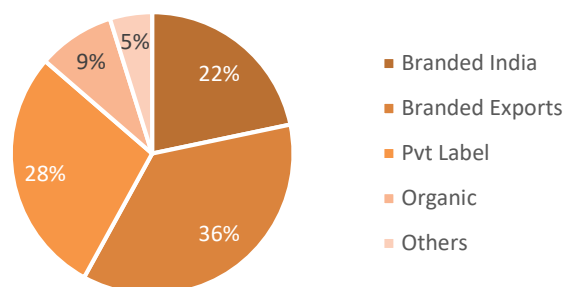
Source: Company, MOSL

Exhibit 3: Adj. PAT & PAT growth trend



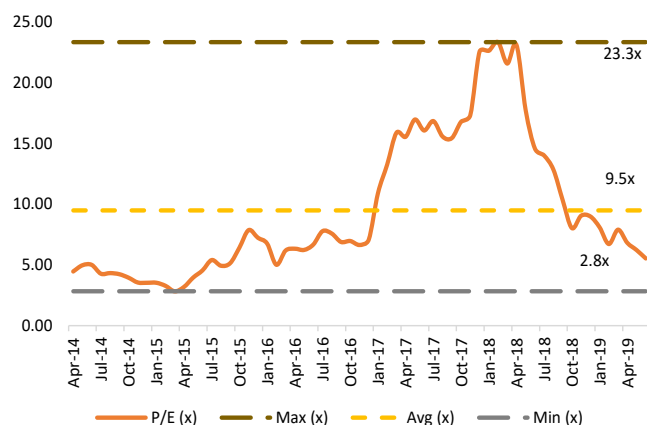
Source: Company, MOSL

Exhibit 4: Segmental revenue mix (4QFY19)



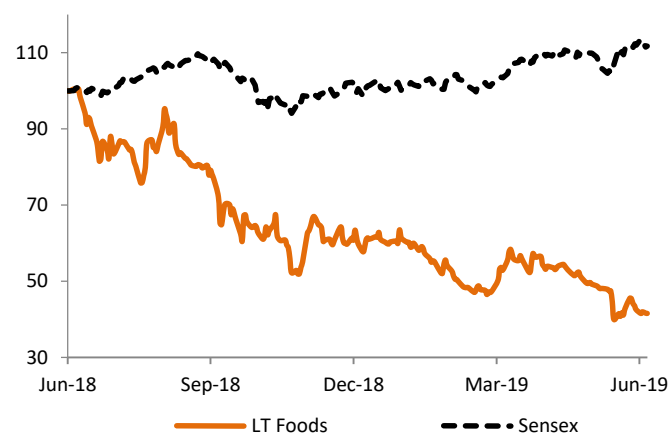
Source: Company, MOSL

Exhibit 5: 1 year forward PE (x)



Source: Capitalline, MOSL

Exhibit 6: 1-year stock performance rebased to 100



Source: Capitalline

**Q4FY19 Concall highlights**

- ✓ FY19 growth of 7.3% was mainly on account of growth in branded sales (up 9% YoY).
- ✓ Gross Margin declined by 160bps in FY19 on account of higher paddy prices in FY18.
- ✓ Inventory levels:
  - Paddy – 202k MT @ INR32
  - Rice – 128k MT @ INR61
- ✓ Branded basmati as % of total basmati business stood at 70% in FY19 compared to 64% in FY18. India branded business grew 6% YoY, with realization up from INR51/kg to INR53/Kg up by 3%.
- ✓ Company has sold off its stake in Geneva rice mill JV and booked a loss of INR38mn as the business was not profitable for the company.
- ✓ Bulk business has recovered post GST and the business saw a growth of 19% YoY.
- ✓ A&P spend stood at 3.4% of branded business in FY19.
- ✓ International business grew 11% YoY mainly on account of better realization at INR102/Kg (up 23%).
- ✓ European operations have ramped up as per plan and the revenue stands at INR2,580mn (INR1180mn in FY18).
- ✓ Organic business grew by 3% YoY. 90% of the business is from ingredients sales.
- ✓ Management has guided for EBITDA margin (inc. other income) expansion of 170bp to 12.5% in FY20 and 420bp to 15% in FY2022. Margin expansion will largely be driven by price increase, product mix change, better economies of scale in India and better operational efficiency.
- ✓ Company has envisaged a capex of INR400mn in FY20 which includes setting up of soya mill for NBFL, silos for storage of paddy and maintenance capex.
- ✓ Operations in USA/Europe and owned distribution channel leads to higher employee cost for the company compared to competition.
- ✓ Payment cycle:
  - USA ~40 days
  - Europe – 60-65 days
- ✓ In Europe, company expects EBITDA margins of 8-10% once company operates on full capacity utilization.
- ✓ European Business:
  - In FY 19: Revenue - INR2580, EBITDA Loss - INR110mn
- ✓ Company expects to be an INR65,000mn company by FY23 with focus on higher margin business.
- ✓ Company is expecting a positive outcome on fire insurance claim and the result for same is expected by end of CY19.

## Exhibit 7: Quarterly Results

Y/E March (INR millions)	FY18				FY19			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
<b>Net Sales</b>	<b>7,522</b>	<b>8,527</b>	<b>9,210</b>	<b>10,706</b>	<b>8,400</b>	<b>9,278</b>	<b>11,139</b>	<b>10,087</b>
YoY Change (%)	7%	3%	17%	15%	12%	9%	21%	-6%
QoQ Change (%)	-19%	13%	8%	16%	-22%	10%	20%	-9%
Total Expenditure	6,570	7,531	8,349	9,771	7,468	8,321	10,045	9,199
<b>EBITDA</b>	<b>953</b>	<b>996</b>	<b>861</b>	<b>936</b>	<b>932</b>	<b>956</b>	<b>1,095</b>	<b>888</b>
Margins (%)	12.7%	11.7%	9.3%	8.7%	11.1%	10.3%	9.8%	8.8%
Depreciation	120	91	115	143	162	148	166	214
Interest	375	348	334	402	315	284	299	439
Other Income	95	16	175	73	132	44	29	88
<b>PBT</b>	<b>553</b>	<b>573</b>	<b>587</b>	<b>463</b>	<b>587</b>	<b>567</b>	<b>658</b>	<b>324</b>
Tax	208	193	198	114	184	192	274	112
Rate (%)	38%	34%	34%	25%	31%	34%	42%	35%
<b>PAT (before MI &amp; asso.)</b>	<b>344</b>	<b>379</b>	<b>389</b>	<b>349</b>	<b>402</b>	<b>376</b>	<b>385</b>	<b>212</b>
MI and share of asso.	-19	-40	-27	-29	-32	-27	-35	-15
<b>Reported PAT</b>	<b>326</b>	<b>340</b>	<b>362</b>	<b>320</b>	<b>370</b>	<b>348</b>	<b>350</b>	<b>197</b>
YoY Change (%)	11.4%	36.0%	17.3%	-0.6%	13.6%	2.6%	-3.2%	-38.4%
Margins (%)	4.3%	4.0%	3.9%	3.0%	4.4%	3.8%	3.1%	2.0%

Source: Company, MOSL

**Risk and concerns**

- ✓ **Slower than expected ramp up of European business:** Newly commenced European business made an operational loss of INR110mn in FY19. For FY20, Management has maintained 50% capacity utilization for European subsidiary (INR3,200 mn of revenue). Any slowdown in ramp up or cost overrun could delay the turnaround of the European business impacting profitability.
- ✓ **Extreme Currency fluctuation:** LTFL derives ~55% of its revenue from exports business. LTFL has adopted a policy of selective hedging based on the risk perception of company's management and any unfavorable movement in exchange rate fluctuation (USD INR) can impact profitability of the company.
- ✓ **Volatility in raw material prices:** The cost and availability of basmati paddy is impacted by many factors like inadequate irrigational facilities, unfavorable climatic conditions, change in crop patterns and farmer's preference for other crops that yield better realization. These factors can impact basmati production impacting volumes and realization.

## Financials and Valuations

Consolidated - Income Statement						(INR Million)	
Y/E March	FY15	FY16	FY17	FY18	FY19P	FY20E	FY21E
<b>Net Sales</b>	<b>27,346</b>	<b>29,734</b>	<b>32,448</b>	<b>36,137</b>	<b>38,904</b>	<b>41,502</b>	<b>45,229</b>
Change (%)	10.5	8.7	9.1	11.4	7.7	6.7	9.0
<b>EBITDA</b>	<b>2,638</b>	<b>3,566</b>	<b>3,582</b>	<b>3,780</b>	<b>3,972</b>	<b>4,404</b>	<b>4,980</b>
Margin (%)	9.6	12.0	11.0	10.5	10.2	10.6	11.0
Depreciation	466	515	551	501	690	712	742
<b>EBIT</b>	<b>2,172</b>	<b>3,051</b>	<b>3,031</b>	<b>3,279</b>	<b>3,282</b>	<b>3,692</b>	<b>4,238</b>
Int. and Finance Charges	1,511	1,478	1,568	1,466	1,387	1,392	1,360
Other Income	451	63	481	362	241	265	292
<b>PBT</b>	<b>1,112</b>	<b>1,195</b>	<b>1,945</b>	<b>2,176</b>	<b>2,136</b>	<b>2,564</b>	<b>3,169</b>
Tax	348	471	649	714	762	846	1,046
Tax Rate (%)	31.3	28.8	33.4	32.8	35.6	33.0	33.0
Min. Int. & Assoc. Share	-39	-4	-124	-115	-109	-103	-117
<b>Reported PAT</b>	<b>725</b>	<b>721</b>	<b>1,172</b>	<b>1,347</b>	<b>1,265</b>	<b>1,615</b>	<b>2,006</b>
<b>Adjusted PAT</b>	<b>725</b>	<b>1,161</b>	<b>1,172</b>	<b>1,347</b>	<b>1,265</b>	<b>1,615</b>	<b>2,006</b>
Change (%)	-7.4	60.2	0.9	14.9	-6.0	27.6	24.2
Margin (%)	2.7	3.9	3.6	3.7	3.3	3.9	4.4

Source: Company, MOSL

Consolidated - Balance Sheet						(INR Million)	
Y/E March	FY15	FY16	FY17	FY18	FY19E	FY20E	FY21E
Share Capital	265	267	267	320	320	320	320
Reserves	4,363	5,101	6,382	11,475	12,971	14,510	16,420
<b>Net Worth</b>	<b>4,627</b>	<b>5,368</b>	<b>6,649</b>	<b>11,794</b>	<b>13,291</b>	<b>14,829</b>	<b>16,740</b>
Minority Interest	345	343	471	554	1,054	1,054	1,054
Debt	16,388	15,579	15,762	15,162	16,704	16,054	15,954
<b>Total Capital Employed</b>	<b>21,360</b>	<b>21,290</b>	<b>22,881</b>	<b>27,567</b>	<b>31,171</b>	<b>31,938</b>	<b>33,748</b>
Gross Fixed Assets	6,383	6,757	7,359	9,791	10,860	11,275	11,728
Less: Accum. Depreciation	2,679	3,145	3,657	4,158	4,848	5,560	6,302
<b>Net Fixed Assets</b>	<b>3,704</b>	<b>3,612</b>	<b>3,702</b>	<b>5,633</b>	<b>6,012</b>	<b>5,715</b>	<b>5,425</b>
Capital WIP	147	244	395	275	422	422	422
Investments	69	64	76	74	361	361	361
<b>Current Assets</b>	<b>20,521</b>	<b>20,650</b>	<b>23,064</b>	<b>26,516</b>	<b>28,852</b>	<b>30,414</b>	<b>33,276</b>
Inventory	13,622	12,996	14,470	17,287	18,912	20,069	21,783
Debtors	3,179	3,757	4,628	4,680	5,349	5,706	6,218
Cash and Bank Balance	212	323	415	291	377	351	602
Loans and Advances & OCA	3,508	3,574	3,551	4,258	4,214	4,288	4,673
<b>Curr. Liability &amp; Provisions</b>	<b>3,094</b>	<b>3,353</b>	<b>4,470</b>	<b>5,053</b>	<b>4,684</b>	<b>4,974</b>	<b>5,736</b>
Account Payables	1,000	1,494	2,179	3,417	2,838	3,014	3,270
Current Liabilities	1,748	1,310	2,225	1,515	1,695	1,800	2,292
Other Long Term Liab. & Provs.	346	549	66	121	150	160	173
<b>Net Current Assets</b>	<b>17,428</b>	<b>17,296</b>	<b>18,594</b>	<b>21,463</b>	<b>24,169</b>	<b>25,440</b>	<b>27,540</b>
<b>Appl. of Funds</b>	<b>21,360</b>	<b>21,290</b>	<b>22,881</b>	<b>27,567</b>	<b>31,171</b>	<b>31,938</b>	<b>33,748</b>

Source: Company, MOSL

<b>Ratios</b>							
<b>Y/E March</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19E</b>	<b>FY20E</b>	<b>FY21E</b>
<b>Basic (INR)</b>							
<b>Adj. EPS</b>	<b>2.3</b>	<b>3.6</b>	<b>3.7</b>	<b>4.2</b>	<b>4.0</b>	<b>5.0</b>	<b>6.3</b>
Cash EPS	3.7	5.2	5.4	5.8	6.1	7.3	8.6
BV/Share	14.5	16.8	20.8	36.9	41.6	46.4	52.3
DPS	0.2	0.1	0.1	0.2	0.2	0.2	0.3
Payout (%)	8.8	6.7	4.1	4.3	4.5	4.8	4.8
<b>Valuation (x)</b>							
P/E	14.1	8.8	8.7	7.6	8.1	5.7	4.6
Cash P/E	8.6	6.1	5.9	5.5	5.2	4.0	3.4
P/BV	2.2	1.9	1.5	0.9	0.8	0.6	0.6
EV/Sales	1.0	0.9	0.8	0.7	0.7	0.6	0.5
EV/EBITDA	10.0	7.1	7.1	6.6	6.7	5.7	4.9
Dividend Yield (%)	0.5	0.4	0.4	0.5	0.5	0.7	0.9
FCF per share	-1.4	7.6	4.6	-6.1	-1.3	6.0	5.1
<b>Return Ratios (%)</b>							
RoE	17.0	23.2	19.5	14.6	10.1	11.5	12.7
RoCE	9.1	10.6	10.8	9.9	8.0	8.7	9.5
<b>Working Capital Ratios</b>							
Asset Turnover (x)	1.3	1.4	1.4	1.3	1.2	1.3	1.3
Inventory (Days)	182	160	163	175	177	176	176
Debtor (Days)	42	46	52	47	50	50	50
Creditor (Days)	13	18	25	35	27	27	26
<b>Leverage Ratio (x)</b>							
Net Debt/Equity	3.5	2.8	2.3	1.3	1.2	1.0	0.9

Source: Company, MOSL

<b>Consolidated - Cash Flow Statement</b>						<b>(INR Million)</b>	
<b>Y/E March</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19E</b>	<b>FY20E</b>	<b>FY21E</b>
OP/(Loss) before Tax	1,112	1,635	1,942	2,158	2,136	2,564	3,169
Depreciation	466	515	551	501	690	712	742
Interest & Finance Charges	1,453	1,404	1,440	1,288	1,387	1,392	1,360
Direct Taxes Paid	-495	-338	-507	-1,035	-547	-846	-1,046
(Inc)/Dec in WC	-2,451	-689	-1,106	-2,567	-2,640	-1,211	-1,850
<b>CF from Operations</b>	<b>85</b>	<b>2,527</b>	<b>2,320</b>	<b>346</b>	<b>1,027</b>	<b>2,612</b>	<b>2,376</b>
Others	5	445	-53	105	-241	-265	-292
<b>CF from Operating incl EO</b>	<b>90</b>	<b>2,972</b>	<b>2,267</b>	<b>451</b>	<b>786</b>	<b>2,347</b>	<b>2,084</b>
(Inc)/Dec in FA	-553	-537	-795	-2,386	-1,216	-415	-452
<b>Free Cash Flow</b>	<b>-463</b>	<b>2,435</b>	<b>1,472</b>	<b>-1,936</b>	<b>-430</b>	<b>1,932</b>	<b>1,632</b>
(Pur)/Sale of Investments	-18	0	-68	-30	287	0	0
Others	-9	1	42	92	132	162	175
<b>CF from Investments</b>	<b>-580</b>	<b>-536</b>	<b>-820</b>	<b>-2,324</b>	<b>-798</b>	<b>-253</b>	<b>-278</b>
Issue of Shares	8	46	0	3,812	0	0	0
Inc/(Dec) in Debt	1,840	-930	118	-708	1,542	-650	-100
Interest Paid	-1,458	-1,406	-1,443	-1,307	-1,387	-1,392	-1,360
Dividend Paid	-69	-63	-48	-48	-58	-77	-96
<b>CF from Fin. Activity</b>	<b>321</b>	<b>-2,353</b>	<b>-1,372</b>	<b>1,749</b>	<b>98</b>	<b>-2,119</b>	<b>-1,556</b>
<b>Inc/Dec of Cash</b>	<b>-168</b>	<b>82</b>	<b>75</b>	<b>-124</b>	<b>86</b>	<b>-25</b>	<b>250</b>
Opening Balance	348	179	253	318	291	377	351
<b>Closing Balance</b>	<b>179</b>	<b>262</b>	<b>327</b>	<b>195</b>	<b>377</b>	<b>351</b>	<b>602</b>

Source: Company, MOSL



This report is intended for distribution to Retail Investors.

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

#### 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](http://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](http://www.nseindia.com), [www.bseindia.com](http://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. 2011294012] which is a holder of a capital markets services license and an exempt financial adviser in Singapore. As per the approved agreement under Paragraph 9 of Third Schedule of Securities and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Advisors Act (CAP 110) provided to MOCMSPL by Monetary Authority of Singapore. Persons in Singapore should contact MOCMSPL in respect of any matter arising from, or in connection with this report/publication/communication. This report is distributed solely to persons who qualify as "Institutional Investors", of which some of whom may consist of "accredited" institutional investors as defined in section 44(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. MOSL Research Analyst and/or his relatives do not have financial interest in the subject company, as they do not have equity holdings in the subject company.
2. MOSL Research Analyst and/or his relatives do not have actual/beneficial ownership of 1% or more securities in the subject company
3. MOSL Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months
4. MOSL 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. MOSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
7. MOSL has not received compensation for investment banking/ merchant banking/brokerage services from the subject company in the past 12 months
8. MOSL has not received compensation for other than investment banking/merchant banking/brokerage services from the subject company in the past 12 months
9. MOSL has not received any compensation or other benefits from third party in connection with the research report
10. MOSL 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 alterations 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, nor 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](http://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](mailto: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.