# Kaveri Seed Co.

M	OTILAL	OSWAL

Estimate change	1
TP change	1
Rating change	

Bloomberg	KSCL IN
Equity Shares (m)	63
M.Cap.(INRb)/(USDb)	28.5 / 0.3
52-Week Range (INR)	576 / 274
1, 6, 12 Rel. Per (%)	28/15/2
12M Avg Val (INR M)	85

### Financials & Valuations (INR b)

Y/E Mar	2020	<b>2021E</b>	2022E
Sales	9.3	9.6	10.5
EBITDA	2.5	2.7	3.0
РАТ	2.6	2.6	2.8
EBITDA (%)	27.2	28.1	28.5
EPS (INR)	43.1	42.5	46.8
EPS Gr. (%)	19.5	(1.3)	10.0
BV/Sh. (INR)	159	173	188
Ratios			
Net D/E	(0.4)	(0.5)	(0.5)
RoE (%)	26.4	25.7	25.9
RoCE (%)	28.9	28.8	29.1
Payout (%)	-	67.7	66.7
Valuations			
P/E (x)	11.0	11.1	10.1
EV/EBITDA (x)	3.0	2.7	2.5
Div Yield (%)	-	4.5	4.8
FCF Yield (%)	6.2	10.2	8.5

### Shareholding pattern (%)

As On	Mar-20	Dec-19	Mar-19
Promoter	55.5	55.1	55.1
DII	10.7	6.6	6.7
FII	21.0	24.8	21.8
Others	12.7	13.5	16.4

## **CMP: INR473**

TP: INR561 (+19%)

Buy

## **Operating performance under pressure in Q4; revenue above est.** However, strong outlook for FY21

- Kaveri Seeds (KSCL) closed FY20 on a strong note, with 15%/20%/20% revenue/EBITDA/PAT growth.
- We have increased our earnings estimates by 25%/31% in FY21/FY22 on the 10–15% volume growth guidance in the Cotton Seed segment and 20–25% growth in the Non-Cotton segment. However, we have assumed 7m packet (in FY21) sales of cotton seeds (lower by 3% YoY) on lower cotton price due to subdued domestic as well as export demand.
- Earnings revision is despite lower-than-expected operating performance in 4QFY20 as a mere 6% of the revenue contribution comes from the 4Q of the financial year.

## Cotton and hybrid rice drive performance in FY20

- KSCL's revenue (standalone) stood at INR519m (est.: INR471m) in 4QFY20, up 16% YoY. EBITDA loss stood at INR118m in 4QFY20 v/s loss of INR59m in the previous year (est.: loss of INR45m).
- Adj. PAT stood at INR94m v/s loss of INR114m last year (est.: loss of INR103m), primarily on account of higher other income (up 13x YoY to INR315m).
- KSCL's revenue grew 15% to INR9.3b in FY20, driven by 12% revenue growth in cotton seeds (to INR4.5b), 66% growth in hybrid rice seed sales (to INR850m), and 10% growth in maize seed sales (to INR1.7b).
- 12% revenue growth in FY20 in cotton seeds was driven by 17% volume growth (to 7.23m packets). Additionally, the contribution of new products rose from 15% to 23% of the total volume.
- Hybrid paddy reported 66% revenue growth in FY20 on 60% volume growth; growth was driven by the launch of the new Hybrid Paddy KPH 468. The contribution of new products rose from 26% to 51% of volumes.
- Maize seed revenue grew 10% in FY20, largely owing to a change in the product mix and a price hike taken.
- EBITDA per packet for cotton seeds was INR110 for FY20 and is likely to increase to INR121 per packet as no royalty payment (of INR20/packet) is now required to be made.

## Highlights from management commentary

- The Telangana government has advised farmers to grow cotton in order to receive the Rythu Bandhu installment, which would benefit cotton acreage. Also, the government has advised to grow maize in the rabi season as the state has an abundant supply of water.
- The company expects 10–15% volume growth in the Cotton Seed segment and 20–25% volume growth in the Non-Cotton segment; combined overall growth is expected to be 15–20% in FY21.
- Capex of INR200–300m is expected for FY21.

Research Analyst: Sumant Kumar (Sumant.Kumar@MotilalOswal.com); +91 22 6129 1569

Darshit Shah (Darshit.Shah@motilaloswal.com); +9122 6129 1546 / Yusuf Inamdar (yusuf.inamdar@motilaloswal.com); +91 22 7193 4239

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

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

Revenue from the Vegetable Seed segment grew 30% to INR200m in FY20, and the company is confident of achieving 30% growth in the Vegetable Seed segment for the next four to five years.

## Valuation and view

- In our view, maize and cotton acreage in India is likely to witness some pressure on account of lower prices. This would thereby impact KSCL's seed sales in FY21. However, we expect paddy seed sales to maintain growth momentum in FY21 as well, and expect its revenue to grow 27%.
- Additionally, we have assumed an increase in cotton seed EBITDA/packet by INR11/packet to INR121, factoring the benefit of INR20/packet on cotton seed sales as KSCL is now not required to pay royalty.
- We have thus increased our earnings estimates by 25%/31% for FY21/FY22.
- We value the company at 12x FY22E EPS (~20% discount to three-year average PE). The discount is primarily on account of uncertainty in cotton/maize seed demand in FY21 due to lower price, which could impact acreage. We arrive at TP of INR561. Maintain Buy.

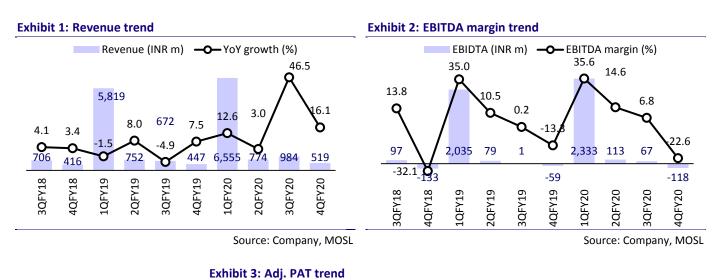
Quarterly - Standalone											(	INR m)
Y/E March		FY1	L <b>9</b>			FY2	20		FY19	FY20	FY20	Var
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q			4QE	%
Net Sales	5,819	752	672	447	6,555	774	984	519	7,690	8,832	471	10
YoY Change (%)	-1.5	8.0	-4.9	7.5	12.6	3.0	46.5	16.1	-0.4	14.9	5.2	
Total Expenditure	3,784	673	671	507	4,222	661	917	637	5,634	6,437	515	
EBITDA	2,035	79	1	-59	2,333	113	67	-118	2,056	2,395	-45	NA
Margins (%)	35.0	10.5	0.2	-13.3	35.6	14.6	6.8	-22.6	26.7	27.1	-9.5	
Depreciation	53	47	53	59	59	59	62	64	212	243	67	
Interest	0	0	1	0	0	0	1	1	1	2	1	
Other Income	168	131	106	24	43	30	77	315	429	466	27	
PBT before EO expense	2,150	16 <b>2</b>	54	-95	2,317	84	82	132	2,271	2,616	-86	
РВТ	2,150	<b>162</b>	54	-95	2,317	84	82	132	2,271	2,616	-86	
Тах	44	43	18	20	28	15	22	39	124	103	17	
Rate (%)	2.0	26.4	32.5	-20.9	1.2	17.5	26.2	29.3	5.5	3.9	-20	
Reported PAT	2,106	119	36	-114	2,289	69	60	94	2,147	2,513	-103	NA
Adj PAT	2,106	119	36	-114	2,289	69	60	94	2,147	2,513	-103	NA
YoY Change (%)	4.1	-42.9	-32.9	NA	8.7	-42.0	65.8	NA	2.1	17.0	NA	
Margins (%)	36.2	15.9	5.4	-25.6	34.9	8.9	6.1	18.0	27.9	28.4	-21.9	

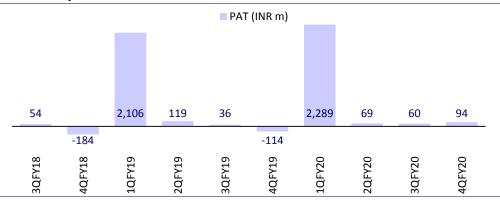
\*Quarterly numbers are standalone and annual numbers are consol.

## **Key Performance Indicators**

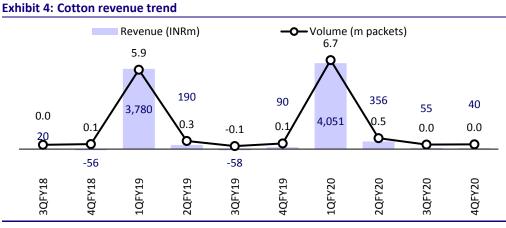
Y/E March	FY19			FY20				FY19	FY20	
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q		
Segment Revenue Growth (%)										
Cotton seed	(11.7)	(44.1)	(390.0)	(262.7)	7.2	87.3	(195.5)	(55.7)	(12.7)	12.5
Hybrid Rice	34.4	(600.0)	10.0	17.3	73.2	12.0	50.0	39.1	51.1	65.5
Maize Seeds	17.6	54.2	(23.5)	(50.5)	5.0	(29.1)	75.4	(4.3)	4.2	10.2
Cotton Seed Vol (mn packets)	5.9	0.3	(0.1)	0.1	6.7	0.5	0.0	0.0	6.2	7.2
Cotton Seed Realization (INR packets)	641	633	580	821	609	684	2,770	1,000	644	623
Cost Break-up										
RM Cost (% of sales)	53.5	49.0	58.3	53.9	53.6	45.3	52.5	57.2	53.5	52.9
Staff Cost (% of sales)	2.0	13.4	17.3	27.1	1.8	15.6	19.8	26.8	5.9	6.5
Other Cost (% of sales)	9.5	27.1	24.3	32.2	9.0	24.5	20.9	38.7	13.8	13.5
Gross Margins (%)	46.5	51.0	41.7	46.1	46.4	54.7	47.5	42.8	46.5	47.1
EBITDA Margins (%)	35.0	10.5	0.2	-13.3	35.6	14.6	6.8	-22.6	26.7	27.1
EBIT Margins (%)	34.1	4.2	-7.7	-26.4	34.7	7.0	0.5	-35.0	24.0	24.4

## **Key Exhibits**

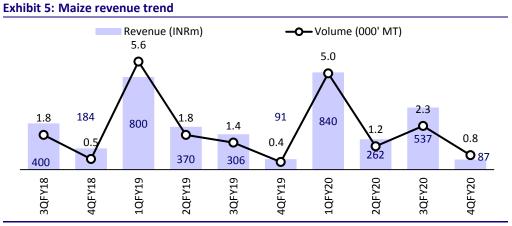




Source: Company, MOSL

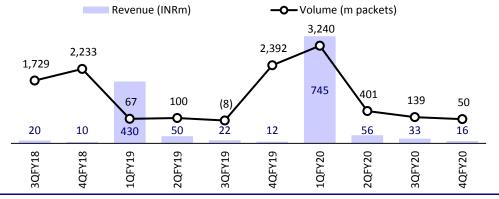


Source: Company, MOSL



Source: Company, MOSL

### Exhibit 6: Hybrid rice revenue trend



Source: Company, MOSL

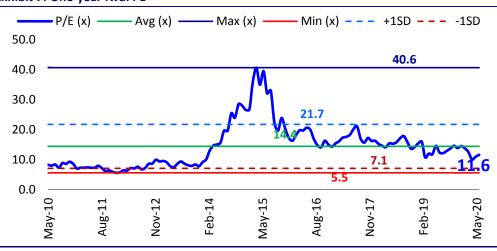


## **Conference call highlights**

- **Cotton seed sales for KSCL:** Cotton volumes increased 17% in FY20. The contribution of new crops increased from ~15% to ~23% of the total volumes.
- 'Money Maker' cotton seed product: The performance of 'Money Maker' was appreciated by farmers across sectors. Also, two new cotton hybrids were introduced during the quarter.
- Maize: Maize volumes were stagnant for the year, whereas revenue increased 10% owing to an improved product mix and price gains.
- **Hybrid rice:** Volumes increased 60% and revenue ~66% in FY20. The contribution of new products rose from 26% to 51% of volumes.
- COVID-19: The company has managed to overcome initial supply chain and labor problems, and operations are running smoothly. As the company is classified under the Essential category, its plants have been operational throughout the lockdown.
- EBITDA per packet for cotton seeds was INR110 for FY20 and is likely to increase to INR130 per packet as no royalty payment (of INR20/packet) is now required to be made.
- Margins: Margins of non-cotton crops are better than those of cotton crops.
- Growth outlook: The company expects 10–15% volume growth in the Cotton Seed segment and 20–25% volume growth in the Non-Cotton segment; combined overall growth is expected to be 15–20% in FY21.
- The Telangana government has advised farmers to grow cotton in order to receive the Rythu Bandhu installment, which would benefit cotton acreage. Also, the government has advised to grow maize in the rabi season as the state has an abundant supply of water.
- Maize: Even after the correction in maize prices, maize acreages are not expected to come down, except in the state of Karnataka. In northern India, the Punjab and Haryana governments have advised farmers to grow maize. Hence, overall maize acreages are not expected to come down significantly.
- The company has managed to collect money from dealers compared with last year and does not expect any default.
- Currently, the company deals directly/indirectly with more than 40,000 dealers in India.
- Usually, maize trades at INR12–15/kg, but went up to INR21/kg last year and has now declined to INR17/kg. This price is still remunerative for farmers compared with the price at which maize usually trades / other alternative crops are available to them. Thus, the management does not expect the maize average to decline materially.
- Capex of INR200–300m is expected for FY21.
- Revenue from the Vegetables Seed segment grew 30% in FY20 to INR200m, and the company is confident of achieving 30% growth in this segment for the next four to five years.
- Inventory write-offs of INR170–180m were reported for FY20.
- Advance bookings from dealers in FY21 to date stand at INR2.2b (50% from Cotton Seed and the balance from Non-Cotton) v/s INR2b in FY20 (70% from Cotton Seed and the balance from Non-Cotton).

## Valuation

- In our view, maize and cotton acreage in India is likely to witness some pressure on account of lower prices, thereby impacting KSCL's seed sales in FY21. However, we expect paddy seed sales to maintain the growth momentum in FY21 as well, and expect revenue to grow 27%.
- Additionally, we have assumed an increase in cotton seed EBITDA/packet by INR11/packet to INR121, factoring the benefit of INR20/packet on cotton seed sales as KSCL is now not required to pay royalty.
- We have thus increased our earnings estimates by 25%/31% for FY21/FY22.
- We value the company at 12x FY22E EPS (~20% discount to three-year average PE). The discount is primarily on account of uncertainty in cotton/maize seed demand in FY21 due to lower price, which could impact acreage. We arrive at TP of INR561. Maintain Buy.



### Exhibit 7: One-year fwd. PE

Source: MOFSL

## Exhibit 8: Change in estimates

Earnings Change	Ol	d	N	ew	Cha	nge
(INR m)	FY21E	FY22E	FY21E	FY22E	FY21E	FY22E
Revenue	8,195	8,611	9,603	10,478	17%	22%
EBITDA	2,276	2,399	2,694	2,988	18%	25%
Adj. PAT	2,052	2,149	2,566	2,823	25%	31%
					-	

Source: MOFSL

## **Financials and valuations**

Consolidated Income Statement							(INR m)
Y/E March	FY16	FY17	FY18	FY19	FY20	FY21E	FY22E
Net Sales	7,449	7,050	8,192	8,094	9,303	9,603	10,478
Change (%)	-35.9	-5.4	16.2	-1.2	14.9	3.2	9.1
EBITDA	1,875	1,395	2,218	2,116	2,532	2,694	2,988
Margin (%)	25.2	19.8	27.1	26.1	27.2	28.1	28.5
Depreciation	274	302	251	230	257	277	298
EBIT	1,601	1,093	1,967	1,887	2,275	2,417	2,690
Int. and Finance Charges	2	2	6	5	5	6	6
Other Income - Rec.	131	344	237	430	455	319	319
PBT bef. EO Exp.	1,729	1,435	2,198	2,311	2,726	2,730	3,003
EO Expense/(Income)	0	592	0	0	0	0	0
PBT after EO Exp.	1,729	843	2,198	2,311	2,726	2,730	3,003
Current Tax	58	75	87	117	118	164	180
Deferred Tax	-3	-5	-3	20	10	0	0
Tax Rate (%)	3.2	8.3	3.8	5.9	4.7	6.0	6.0
Reported PAT	1,675	773	2,114	2,174	2,599	2,566	2,823
PAT Adj for EO items	1,675	1,316	2,114	2,174	2,599	2,566	2,823
Change (%)	-44.4	-21.4	60.6	2.8	19.5	-1.3	10.0
Margin (%)	22.5	18.7	25.8	26.9	27.9	26.7	26.9
Consolidated Balance Sheet							(IND
	FY16	FY17	EV4.0	EV(10	51/20	FY21E	(INR m)
Y/E March	138	138	FY18 132	<b>FY19</b> 126	FY20 121	121	<b>FY22E</b> 121
Equity Share Capital Total Reserves	9,134	10,005	9,992	9,942	9,466	10,295	11,236
Net Worth	<u>9,134</u> 9,272	10,003 10,143	10,124	10,069	9,400 9,587	10,295 10,416	11,250 11,357
Minority Interest	-2	-7	-6	-6	2	2	2
Deferred Liabilities	-2	-7	168	202	182	181	181
Total Loans	16	46	29	68	58	58	58
Capital Employed	9,286	<b>10,182</b>	10,315	10,332	9,829	<b>10,657</b>	11,597
Gross Block	3,033	3,322	3,463	4,199	4,551	4,851	5,251
Less: Accum. Deprn.	1,018	1,320	1,571	1,800	2,057	2,334	2,632
Net Fixed Assets	2,015	2,002	1,892	2,399	2,037 2,494	2,534 2,517	2,619
Capital WIP	197	340	376	384	185	0	0
Total Investments	5,064	6,569	6,226	5,096	3,839	4,839	4,839
Curr. Assets, Loans&Adv.	6,327	6,358	6,153	7,626	9,255	9,168	10,570
Inventory	5,044	4,478	4,428	5,612	6,391	6,239	6,873
Account Receivables	804	854	859	846	1,180	1,052	1,148
Cash and Bank Balance	94	210	139	87	81	244	767
Loans and Advances	386	817	727	1,081	1,603	1,633	1,781
Curr. Liability & Prov.	4,320	5,095	4,340	5,180	5,957	5,880	6,443
Account Payables	4,237	3,026	2,202	2,411	2,669	2,640	2,909
Provisions	83	9	116	72	68	70	77
Other current liabilities	0	2,060	2,022	2,696	3,221	3,169	3,458
Net Current Assets	2,007	1,263	1,814	2,446	3,297	3,288	4,126
Appl. of Funds	9,286	10,182	10,315	10,332	9,829	10,657	11,597

## **Financials and valuations**

Ratios							
Y/E March	FY16	FY17	FY18	FY19	FY20	FY21E	FY22E
Basic (INR)							
EPS	27.8	21.8	35.0	36.0	43.1	42.5	46.8
Cash EPS	32.3	26.8	39.2	39.8	47.3	47.1	51.7
BV/Share	153.7	168.1	167.8	166.9	158.9	172.7	188.2
DPS	5.0	3.0	14.5	15.7	0.0	21.1	22.9
Payout (%)	24.7	32.2	56.3	59.2	0.0	67.7	66.7
Valuation (x)							
P/E				13.1	11.0	11.1	10.1
Cash P/E				11.9	10.0	10.0	9.1
P/BV				2.8	3.0	2.7	2.5
EV/Sales				3.7	3.2	3.1	2.8
EV/EBITDA				14.1	11.8	11.0	9.8
Dividend Yield (%)				3.3	0.0	4.5	4.8
FCF per share				8.5	29.2	48.2	40.0
Return Ratios (%)				0.5	23.2	10.2	10.0
EBITDA Margins (%)	25.2	19.8	27.1	26.1	27.2	28.1	28.5
Net Profit Margins (%)	22.5	18.7	25.8	26.9	27.2	26.7	26.9
RoE	19.9	13.6	20.9	20.9	27.9	25.7	20.9
RoCE	21.2	15.0	20.9	24.2	28.9	28.8	29.1
RoiC	42.0	33.8	61.5	47.9	45.4	45.3	49.3
Working Capital Ratios	42.0	55.0	01.5	47.5	45.4	45.5	49.5
Fixed Asset Turnover (x)	2	2	2	2	2	2	2
	0.8	0.7	0.8	0.8	0.9	0.9	0.9
Asset Turnover (x)							
Inventory (Days)	247	232	197	253	251	237	239
Debtor (Days)	39	44	38	38	46	40	40
Creditor (Days)	208	157	98	109	105	100	101
Working Capital Turnover (Days)	94	55	75	106	126	116	117
Leverage Ratio (x)							
Current Ratio	1.5	1.2	1.4	1.5	1.6	1.6	1.6
Interest Cover Ratio	670	453	326	345	476	418	465
Debt/Equity	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Consolidated Cash Flow Statement							(INR m)
Y/E March	FY16	FY17	FY18	FY19	FY20	FY21E	FY22E
Net P / L Bef. Tax and Eo Items	1,729	1,435	2,198	2,311	2,726	2,730	3,003
Depreciation	274	302	251	230	257	277	298
Interest & Finance Charges	2	2	6	5	5	6	6
Direct Taxes Paid	58	75	87	117	118	164	180
(Inc)/Dec in WC	407	860	-621	-1,150	-952	173	-315
CF from Operations	2,355	2,525	1,747	1,279	1,917	3,022	2,811
EO Expense	467	-245	0	0	0	0	0
CF from Operating incl EO	2,822	2,280	1,747	1,279	1,917	3,022	2,811
(inc)/dec in FA	-262	-432	-177	-744	-153	-115	-400
Free Cash Flow	2,560	1,848	1,570	535	1,764	2,907	2,411
(Pur)/Sale of Investments	-2,114	-1,505	343	1,130	1,257	-1,000	0
Others	-4	-5	2	438	21	0	0
CF from Investments	-2,380	-1,943	168	824	1,125	-1,115	-400
Issue of Shares	0	0	-2,000	-2,000	-2,404	0	0
(Inc)/Dec in Debt	2	30	-18	39	-10	0	0
Interest Paid	-2	-2	-6	-5	-5	-6	-6
Dividend Paid	-414	-249	-1,190	-1,288	0	-1,737	-1,882
CF from Fin. Activity	-410	-221	-1,985	-2,156	-3,049	-1,743	-1,888
In a /Dear of Cook	33	116	-71	-52	-6	163	523
Inc/Dec of Cash							
Add: Beginning Balance	66	94	210	139	87	81	244

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 <u>www.motilaloswal.com</u>. 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 is stock broking activities & is Depository participant with Central Depository Services Limited (CDSL) National Securities Depository Limited (NSDL),NERL, COMRIS and CCRL and is member of Association of Mutual Funds of India (AMFI) for distribution of financial products and Insurance Regulatory & Development Authority of India (IRDA) as Corporate Agent for insurance products. Details of associate entities of Motilal Oswal Financial Services Limited are available on the website at http://onlinereports.motilaloswal.com/Dormant/documents/List%200f%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) 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 <a href="https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx">https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx</a>

A graph of daily closing prices of securities is available at <u>www.nseindia.com</u>, <u>www.bseindia.com</u>. 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 the U.S. Securities and Exchange Act of 1934, as amended (the "Exchange Act") and interpretations thereof by the U.S. Securities and Exchange Act of 1934, as amended (the "Exchange Act") and interpretations thereof by the 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
- Research Analyst has not served as director/officer/employee in the subject company
   MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- MOFSL has not acted as a manager or co-manager or public offering or securities of the subject company in past 12 months
   MOFSL has not received compensation for investment banking/ merchant banking/brokerage services from the subject company in the past 12 months
- MOLSC has not received compensation or investment banking/ merchant banking/brokerage services from the subject company in the past 12 months
   MOFSL has not received compensation for other than investment banking/merchant banking/brokerage services from the subject company in the past 12 months
- MOESC has not received compensation or other than investment banking/interchant banking/procerage services from the subject company in the pa
   MOFSL has not received any compensation or other benefits from third party in connection with the research report
- 10 MOFSL has not engaged in market making activity for the subject company

### The associates of MOFSL may have:

- financial interest in the subject company
- actual/beneficial ownership of 1% or more securities in the subject company
- received compensation/other benefits from the subject company in the past 12 months
- other potential conflict of interests with respect to any recommendation and other related information and opinions.; however the same shall have no bearing whatsoever on the
  specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even
  though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report.
- acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) discussed herein or act as an advisor or lender/borrower to such company(ies)
- received compensation from the subject company in the past 12 months for investment banking / merchant banking / brokerage services or from other than said services.

### The associates of MOFSL has not received any compensation or other benefits from third party in connection with the research report

Above disclosures include beneficial holdings lying in demat account of MOFSL which are opened for proprietary investments only. While calculating beneficial holdings, It does not consider demat accounts which are opened in name of MOFSL for other purposes (i.e holding client securities, collaterals, error trades etc.). MOFSL also earns DP income from clients which are not considered in above disclosures.

### Analyst Certification

The views expressed in this research report accurately reflect the personal views of the analyst(s) about the subject securities or issues, and no part of the compensation of the research analyst(s) was, is, or will be directly or indirectly related to the specific recommendations and views expressed by research analyst(s) in this report.

### Terms & Conditions:

This report has been prepared by MOFSL and is meant for sole use by the recipient and not for circulation. The report and information contained herein is strictly confidential and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent of MOFSL. The report is based on the facts, figures and information that are considered true, correct, reliable and accurate. The intent of this report is not recommendatory in nature. The information is obtained from publicly available media or other sources believed to be reliable. Such information has not been independently verified and no guaranty, representation of warranty, express or implied, is made as to its accuracy, completeness or correctness. All such information and opinions are subject to change without notice. The report is prepared solely for informational purpose and does not constitute an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments for the clients. Though disseminated to all the customers simultaneously, not all customers may receive this report at the same time. MOFSL will not treat recipients as customers by virtue of their receiving this report.

### Disclaimer:

The report and information contained herein is strictly confidential and meant solely for the selected recipient and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent. This report and information herein is solely for informational purpose and may not be used or considered as an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments. Nothing in this report constitutes investment, legal, accounting and tax advice or a representation that any investment or strategy is suitable or appropriate to your specific circumstances. The securities discussed and opinions expressed in this report may not be suitable for all investors, who must make their own investment decisions, based on their own investment objectives, financial positions and needs of specific recipient. This may not be taken in substitution for the exercise of independent judgment by any recipient. Each recipient of this document should make such investigations as it deems necessary to arrive at an independent evaluation of an investment in the securities of companies referred to in this document (including the merits and risks involved), and should consult its own advisors to determine the merits and risks of such an investment. The investment discussed or views expressed may not be suitable for all investors. Certain transactions -including those involving futures, options, another derivative products as well as non-investment grade securities - involve substantial risk and are not suitable for all investors. No representation or warranty, express or implied, is made as to the accuracy, completeness or fairness of the information and opinions contained in this document. The Disclosures of Interest Statement incorporated in this document is provided solely to enhance the transparency and should not be treated as endorsement of the views expressed in the report. This information is subject to change without any prior notice. The Company reserves the right to make modifications and alternations to this statement as may be required from time to time without any prior approval. MOFSL, its associates, their directors and the employees may from time to time, effect or have effected an own account transaction in, or deal as principal or agent in or for the securities mentioned in this document. They may perform or seek to perform investment banking or other services for, or solicit investment banking or other business from, any company referred to in this report. Each of these entities functions as a separate, distinct and independent of each other. The recipient should take this into account before interpreting the document. This report has been prepared on the basis of information that is already available in publicly accessible media or developed through analysis of MOFSL. The views expressed are those of the analyst, and the Company may or may not subscribe to all the views expressed therein. This document is being supplied to you solely for your information and may not be reproduced, redistributed or passed on, directly or indirectly, to any other person or published, copied, in whole or in part, for any purpose. This report is not directed or intended for distribution to, or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject MOFSL to any registration or licensing requirement within such jurisdiction. The securities described herein may or may not be eligible for sale in all jurisdictions or to certain category of investors. Persons in whose possession this document may come are required to inform themselves of and to observe such restriction. Neither the Firm, not its directors, employees, agents or representatives shall be liable for any damages whether direct or indirect, incidental, special or consequential including lost revenue or lost profits that may arise from or in connection with the use of the information. The person accessing this information specifically agrees to exempt MOFSL or any of its affiliates or employees from, any and all responsibility/liability arising from such misuse and agrees not to hold MOFSL or any of its affiliates or employees responsible for any such misuse and further agrees to hold MOFSL or any of its affiliates or employees free and harmless from all losses, costs, damages, expenses that may be suffered by the person accessing this information due to any errors and delays.

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

Registration Nos.: Motilal Oswal Financial Services Limited (MOFSL)\*: INZ000158836(BSE/NSE/MCX/NCDEX); CDSL and NSDL: IN-DP-16-2015; Research Analyst: INH000000412. AMFI: ARN - 146822; Investment Adviser: INA000007100; Insurance Corporate Agent: CA0579;PMS:INP000006712. Motilal Oswal Asset Management Company Ltd. (MOAMC): PMS (Registration No.: INP00000670); 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. Private Equity is offered through Motilal Oswal Private Equity Investment Advisors 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. Private Equits 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.