

# **Jubilant Foodworks**

BSE SENSEX	S&P CNX
38,964	11,588
Bloomberg	JUBI IN
Equity Shares (m)	132
M.Cap.(INRb)/(USDb)	188.7 / 2.7
52-Week Range (INR)	1518 / 982
1, 6, 12 Rel. Per (%)	1/7/1
12M Avg Val (INR M)	2215
Free float (%)	58.1

#### Financials & Valuations (INR b)

Y/E Mar	2019	2020E	2021E
Net Sales	35.6	40.4	47.0
EBITDA	6.0	9.9	11.6
PAT	3.2	3.6	4.7
EPS (INR)	24.1	27.6	35.6
Gr. (%)	62.0	14.6	29.1
BV/Sh (INR)	95.4	112.1	134.9
RoE (%)	25.2	24.6	26.4
RoCE (%)	28.5	34.9	36.3
P/E (x)	59.3	51.8	40.1
P/BV (x)	15.0	12.8	10.6

Estimate change	1
TP change	1
Rating change	1

CMP: INR1,430 TP: INR1,720 (+20%) Upgrade to Buy

### Good results, improving earnings outlook drive upgrade

- Jubilant Foodworks' (JUBI) sales increased 12.1% YoY to INR9.9b (in-line), with SSS growth of 4.9% YoY (our estimate: +6%). Like-for-Like growth (i.e., sales growth of stores that were not split since 1<sup>st</sup> Apr'18) stood at 6.5% YoY. EBITDA was up by 59.3% YoY to INR2.3b (our estimate: INR2.3b) and adj. PAT rose 13.9% YoY to INR884m (our estimate: INR767m). Reported PAT was impacted by one-off provision of INR125m.
- **Excluding the Ind-AS 116 impact**, underlying EBITDA was up 9.7% to INR1.6b with the margin at 16.4%.
- Gross margin expanded by 70bp YoY to 75.3% and EBITDA margin by 700bp YoY to 23.8%. Underlying EBITDA margin contracted 30bp YoY to 16.4%.
- Concall highlights: (1) Continued pressure in dine-in sales was offset by delivery buoyancy. (2) The impact from 'cloud kitchen' has not been material in the 26 cities where this model is present. (3) It opened 40 new stores the highest in 15 quarters. (4) Hong's Kitchen attracted encouraging response; will expand stores gradually in 3Q and 4QFY20.
- Valuation and view: The stock has been underperforming over the 12 months. As highlighted in our update note two weeks ago, JUBI's competitive positioning will get stronger as a result of the corporate tax cuts. Moreover, the challenge of a high SSSG base eases significantly going forward and JUBI has done well in the face of 20% SSSG base in recent quarters. With demand stabilizing, discretionary players with strong brands offer high scope for upside, in our view. We expect over 25% EPS CAGR and improving RoEs over FY20-FY22. Targeting 45x Sep'21E EPS (30% discount to five-year average P/E), we derive a target price of INR 1,720, offering a 20% upside. Upgrading to Buy.

<b>Quarterly Standalone Perf</b>												(INR M)
Y/E March		FY1	9			FY2	20		Std.	Consol.	FY20E	Var.
	1Q	2Q	3Q	4Q	1Q	2Q	3QE	4QE	FY19	FY20E	2QE	(%)
No of stores (Dominos)	1,144	1,167	1,200	1,227	1,249	1,283	1,313	1,343	1,227	1,343	1,274	
SSG (%)	25.9	20.5	14.6	6.0	4.1	4.9	6.0	10.0	16.4	6.3	6.0	
Net Sales	8,551	8,814	9,291	8,652	9,401	9,882	10,444	10,119	35,307	40,392	9,886	0.0%
YoY change (%)	26.0	21.3	16.8	10.9	9.9	12.1	12.4	17.0	18.5	14.4	12.2	
Gross Profit	6,373	6,575	7,019	6,581	7,093	7,439	7,839	7,595	26,548	30,363	7,425	
Gross margin (%)	74.5	74.6	75.6	76.1	75.5	75.3	75.1	75.1	75.2	75.2	75.1	
EBITDA	1,421	1,475	1,706	1,476	2,191	2,350	2,596	2,536	6,078	9,941	2,347	0.1%
EBITDA growth %	78.5	44.4	24.6	15.5	54.2	59.3	52.2	71.8	36.2	63.6	59.1	
Margins (%)	16.6	16.7	18.4	17.1	23.3	23.8	24.9	25.1	17.2	24.6	23.7	
Depreciation	366	385	373	400	808	838	939	1,008	1,523	3,964	969	
Interest					395	404	404	404		1,607	395	
Other Income	71	108	138	151	153	172	228	242	469	761	179	
PBT	1,126	1,199	1,471	1,227	1,141	1,281	1,481	1,366	5,024	5,131	1,162	10.3%
Tax	380	422	506	436	393	396	373	344	1,744	1,488	395	
Rate (%)	33.7	35.2	34.4	35.5	34.4	30.9	25.2	25.2	34.7	29.0	34.0	
Adjusted PAT	747	777	965	792	748	884	1,108	1,022	3,280	3,643	767	15.4%
YoY change (%)	213.2	60.2	46.2	16.3	0.1	13.9	14.8	29.0	58.9	11.0	-1.3	
	1 11		•			•	•	•	•	•	•	•

Interim nos. are standalone while annual nos. are on consol. basis

Krishnan Sambamoorthy – Research analyst (Krishnan.Sambamoorthy@MotilalOswal.com); +91 22 6129 1545

Research analyst: Dhairya Dhruv (Dhairya.Dhruv@motilaloswal.com); +91 22 6129 1547 | Pooja Doshi (Pooja.Doshi@MotilalOswal.com); +91 22 5036 2689

# **Key quarterly charts**

Exhibit 1: SSS grew 4.9% YoY in 2QFY20 v/s estimate of 6%

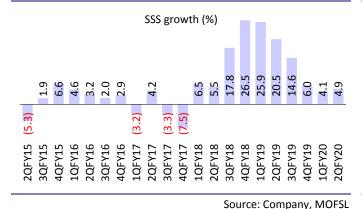
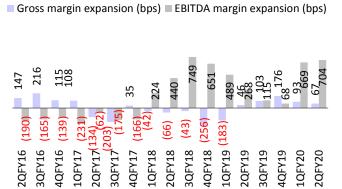


Exhibit 2: Gross margin (up 70bp YoY) and EBITDA margin (up 700bp YoY) trends



Source: Company, MOFSL

Total Dominos store count stood at 1,283, with net additions of 34 stores (40 stores opened, 6 stores closed) in 2QFY20.

Exhibit 3: 34 net additions in Dominos in 2QFY20

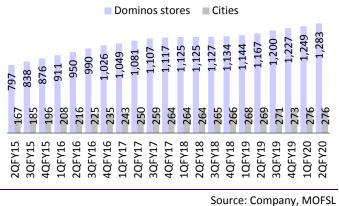
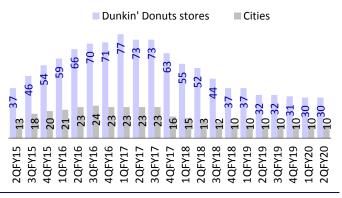
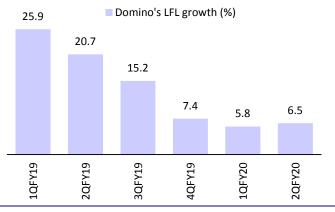


Exhibit 4: No Dunkin Donuts stores closed in 2QFY20



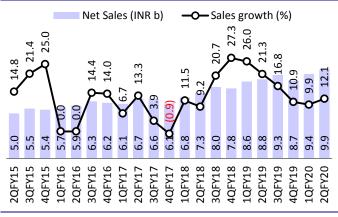
Source: Company, MOFSL

**Exhibit 5: Domino's LFL growth** 



Source: Company, MOFSL

Exhibit 6: Net sales up 12.1% YoY to INR9.9b



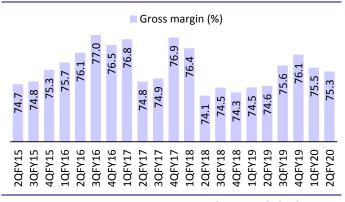
Source: Company, MOFSL

2 22 October 2019

#### Exhibit 7: Adj. PAT growth at 13.9% YoY in 2QFY20

#### 3QFY15 4QFY15 1QFY16 2QFY16 3QFY16 4QFY16 4QFY16 4QFY17 1QFY17 3QFY17 4QFY18 3QFY18 4QFY18 4QFY18 4QFY18 4QFY18 4QFY18 4QFY18 4QFY18 4QFY18 4QFY19 4QFY19

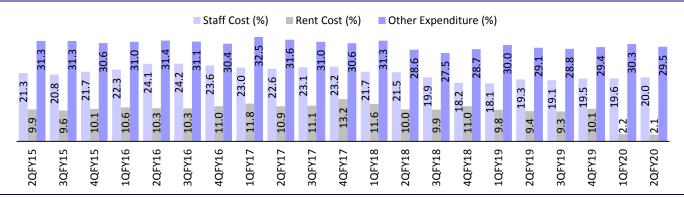
Exhibit 8: Gross margin expanded 70bp YoY to 75.3%



Source: MOFSL, Company

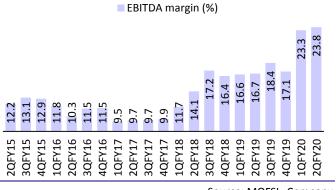
Source: MOFSL, Company

Exhibit 9: As a % of sales: Staff costs were up 60bp YoY, other expenses were up 30bp YoY, while rent costs were down 730bp YoY...



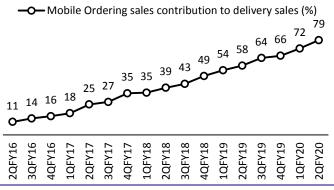
Source: Company, MOFSL

Exhibit 10: ...thus EBITDA margin was up 700bp YoY to 23.8%



Source: MOFSL, Company

Exhibit 11: Mobile ordering sales contribution to delivery sales at 79%



Source: MOFSL, Company

#### **Conference call highlights**

#### Macro

- Management believes that the performance was strong in 2QFY20 given the high base and the weak operating environment.
- JUBI also saw some pressure in demand from smaller towns during the quarter. There continues to be visible pressure on dine-in sales. However, there was significant growth in online delivery, which offset the pressure in smaller towns and in dine-in.
- Dine-in pressure is structural in favor of delivery but also a reflection of consumer sentiment.

#### **Increasing efficiencies**

- What has worked for JUBI is VFM focus, improved customer experience and investment in digital and technology.
- Aided by technology and store splits, delivery time has improved. Delivery time remains a sharp area of focus. Management however declined to share average delivery time.
- Piloted 20-minute delivery in a few stores in a few markets. Will obviously not affect food quality, traffic rules and driver and passenger safety.

#### Store openings highest in 15 quarters

 Opened 40 new stores – the highest in 15 quarters. All new stores are as per new design. Store addition will impact near-term SSSG.

#### Margins improved despite ongoing food inflation

- Gross margin improved because of small price increase toward the end of 1QFY20, more targeted promotions and improved efficiencies.
- Price increase did not see any negative pushback.

#### New markets and initiatives

- Opened second store in Bangladesh during the quarter. Doing very well in this market. Plans to open five stores by end-FY20.
- Hong's Kitchen has received encouraging response; will expand stores gradually in 3QFY20 and 4QFY20.

#### Guidance

- Capex guidance INR2.0-INR2.5b for FY20.
- Tax guidance around 25% going forward.
- Management did not comment on increased dividend payout as a result of the corporate tax cuts but did indicate that there has been an effort to increase payout in recent years.

### Other points

- OLO 85% of delivery sales now. App rating at 4.4 is the highest among all food tech apps.
- 66 stores opened in 1HFY20. Intends to open 30 each in the next two quarters. Thus, store addition at 116 stores for the year will be higher than guidance of 100 stores given at the beginning of the year.

- Increment cycle this time of the year and increase in minimum wages led to higher staff costs.
- Exceptional item was INR125m provision created against investments made by Jubilant FoodWorks Employee Provident Fund Trust, in the corporate bonds of DHFL, Reliance Capital and IL&FS and fully provided for on account of prevailing uncertainties.
- Distribution is not the only enabler of growth. Brand, product and innovation are helping it compete well against aggregators.
- Under 25 of the 276 towns have cloud kitchens. Have not seen any significant delta in competitive intensity in these cities.

#### Valuation and view

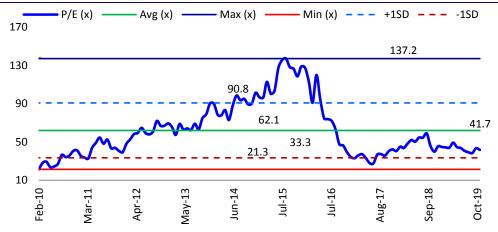
The stock has been underperforming over the 12 months. As highlighted in our **update note** two weeks ago, JUBI's competitive positioning will get stronger as a result of the corporate tax cuts. Moreover, the challenge of a high SSSG base eases significantly going forward and JUBI has done well in the face of 20% SSSG base in recent quarters. With demand stabilizing, discretionary players with strong brands offer high scope for upside, in our view. We expect over 25% EPS CAGR and improving RoEs over FY20-FY22. Targeting 45x Sep'21E EPS (30% discount to five-year average P/E), we derive a target price of INR 1,720, offering a 20% upside. **Upgrading to Buy**.

Exhibit 12: There is cut of 5.9% in our EPS forecasts for FY20 and an upgrade of 7% for FY21

	New		Old		Change		
	FY20E	FY21E	FY20E	FY21E	FY20E	FY21E	
Sales	40,392	46,970	40,329	45,929	0.2%	2.3%	
EBITDA	9,941	11,606	9,907	11,121	0.3%	4.4%	
PAT	3,643	4,704	3,871	4,398	-5.9%	7.0%	

Source: Company, MOFSL

Exhibit 13: Jubilant Foodworks P/E (x)



Source: Company, MOFSL

# **Financials and Valuations**

Income Statement							NR Million)
Y/E March	2015	2016	2017	2018	2019	2020E	2021E
Net Sales	20,937	24,379	25,834	30,184	35,631	40,392	46,970
Change (%)	20.5	16.4	6.0	16.8	18.0	13.4	16.3
Material Consumed	5,279	5,801	6,308	7,660	8,861	10,029	11,639
Gross Profit	15,659	18,579	19,526	22,524	26,770	30,363	35,331
Gross Margin %	74.8	76.2	75.6	74.6	75.1	75.2	75.2
Operating expenses	13,098	15,942	17,115	18,123	20,773	20,423	23,725
EBITDA	2,561	2,636	2,411	4,401	5,998	9,941	11,606
Change (%)	2.2	3.0	-8.5	82.5	36.3	65.7	16.8
Margin (%)	12.2	10.8	9.3	14.6	16.8	24.6	24.7
Depreciation	1,282	1,282	1,554	1,601	1,575	3,964	4,630
Int. and Fin. Ch.	0	0	0	0	0	1,607	1,607
Other Non-recurring Inc.	65	116	147	231	474	761	918
PBT	1,344	1,470	1,004	3,031	4,897	5,131	6,287
Change (%)	-25.5	9.4	-31.7	201.7	61.6	4.8	22.5
Margin (%)	6.4	6.0	3.9	10.0	13.7	12.7	13.4
Tax	504	501	305	1,068	1,717	1,488	1,582
Tax Rate (%)	37.5	34.1	30.4	35.3	35.1	29.0	25.2
Adjusted PAT	840	968	699	1,962	3,180	3,643	4,704
Change (%)	-29.0	15.4	-27.8	180.5	62.0	14.6	29.1
Margin (%)	4.0	4.0	2.7	6.5	8.9	9.0	10.0
Non-rec. (Exp)/Inc.	0	0	-122	0	0	0	0
Reported PAT	840	968	578	1,962	3,180	3,643	4,704
<b>Balance Sheet</b>						(1)	NR Million)
Y/E March	2015	2016	2017	2018	2019	2020E	2021E
Share Capital	1,311	1,316	1,319	1,320	1,320	1,320	1,320
Reserves	5,151	6,304	6,734	8,358	11,277	13,468	16,478
Net Worth	6,462	7,620	8,053	9,677	12,596	14,788	17,798
Loans	144	17	18	30	9	0	0
Capital Employed	6,606	7,637	8,071	9,708	12,631	14,814	17,824
Gross Block	10,810	9,466	10,604	11,748	13,107	15,859	18,440
Less: Accum. Depn.	3,438	1,181	2,603	3,838	5,007	8,971	13,602
Net Fixed Assets	7,373	8,285	8,001	7,910	8,100	6,888	4,838
Lease Deposits	1,142	1,363	1,822	1,776	2,056	1,715	1,921
Capital WIP	199	261	608	124	152	175	201
Investments	746	908	936	2,631	1,808	9,453	13,491
Deferred tax assets	-578	-729	-693	-550	-500	-500	-500
Curr. Assets, L&A	1,287	1,404	1,539	2,525	6,441	4,292	6,645
Inventory	433	552	607	642	771	879	1,052
Account Receivables	119	125	161	157	274	275	319
Cash and Bank Balance	389	332	354	1,290	4,943	2,667	4,802
Others	346	396	417	437	454	471	471
Curr. Liab. and Prov.	3,564	3,854	4,143	4,710	5,426	7,210	8,774
Other Current Liabilities	704	722	798	656	915	1,038	1,207
Creditors	2,555	2,960	3,142	3,890	4,209	4,914	5,714
Provisions	305	172	202	164	303	1,257	1,853
Net Curr. Assets	-2,276	-2,450	-2,604	-2,184	1,015	-2,917	-2,129
	6,606	7,637	8,071	9,708	12,631	_,5_,	_,

E: MOFSL Estimates

# **Financials and Valuations**

Y/E March	2015	2016	2017	2018	2019	2020E	2021E
Basic (INR)	2015	2010	2017	2016	2019	2020E	20216
EPS EPS	6.4	7.4	5.3	14.9	24.1	27.6	35.6
BV/Share	49.3	57.9	61.1	73.3	95.4	112.1	134.9
DPS	0.0	1.3	1.2	2.5	5.0	7.0	10.7
Payout %	0.0	17.0	23.4	16.8	20.8	25.4	30.0
1 dyout 70	0.0	17.0	25.4	10.0	20.0	25.4	30.0
Valuation (x)							
P/E	223.4	194.3	269.7	96.2	59.3	51.8	40.1
EV/Sales	8.9	7.7	7.3	6.1	5.1	4.4	3.6
EV/EBITDA	72.8	70.9	77.7	42.0	30.3	17.8	14.7
P/BV	29.0	24.7	23.4	19.5	15.0	12.8	10.6
Datum Datics (9/)							
Return Ratios (%) RoE	13.0	12.7	8.7	20.3	25.2	24.6	26.4
RoCE	13.7	13.6	8.9	20.3	28.5	34.9	36.3
RolC	16.7	15.6	9.7	30.6	50.4	102.9	564.9
Working Capital Ratios	10.7	15.0	9.7	30.0	30.4	102.9	304.9
Debtor (Days)	2	2	2	2	3	2	2
Inventory (Days)	8	8	9	8	8	8	8
Creditor (Days)	<u></u> 45	44	44	 47	43	44	44
Asset Turnover (x)	3.2	3.2	3.2	3.1	2.8	2.7	2.6
Asset rumover (x)	3.2	3.2	3.2	3.1	2.0	2.7	2.0
Leverage Ratio							
Debt/Equity (x)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cash Flow Statement						/11	NR Million)
Y/E March	2015	2016	2017	2018	2019	2020E	2021E
OP/(loss) before Tax	1,615	1,470	883	3,031	4,897	5,131	6,287
Int./Div. Received	1	61	-34	-120	-165	-761	-918
Depreciation & Amort.	1,011	1,282	1,554	1,601	1,575	3,964	4,630
Interest Paid	3	3	58	71	256	-1,607	-1,607
Direct Taxes Paid	352	386	366	1,262	1,779	1,488	1,582
Incr in WC	-488	308	-57	-912	14	-1,657	-1,346
CF from Operations	2,761	2,117	2,036	4,091	4,256	10,110	11,370
Incr in FA	-2,864	-2,264	-1,996	-1,160	-1,657	-2,775	-2,607
Free Cash Flow	-103	-147	40	2,931	2,600	7,335	8,763
Others	41	67	102	48	262	827	779
Pur of Investments	196	200	28	-1,695	958	-7,645	-4,038
CF from Invest.	-2,626	-1,998	-1,866	-2,808	-437	-9,593	-5,866
Issue of Shares	9	21	50	210	230	0	0
Incr in Debt	0	0	0	0	0	-9	0
Dividend Paid	0	164	165	164	329	1,109	1,694
Others	0	-33	-34	-393	-68	-1,675	-1,675
CF from Fin. Activity	9	-177	-148	-347	-167	-2,792	-3,369
Incr/Decr of Cash	143	-57	22	936	3,652	-2,275	2,135
Add: Opening Balance	246	389	332	354	1,290	4,943	2,667
Closing Balance	389	332	354	1,290	4,943	2,667	4,802

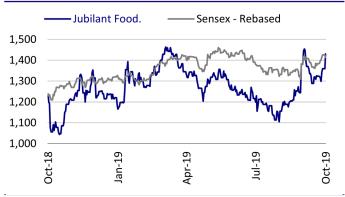
E: MOFSL Estimates

### **Corporate profile**

#### **Company description**

Jubilant FoodWorks Limited (JFL/Company) is part of Jubilant Bhartia group and is one of India's largest food service Company, with a network of 1,200 Domino's Pizza restaurants across 271 cities (as of Dec 31, 2018). The Company & its subsidiary have the exclusive rights to develop and operate Domino's Pizza brand in India, Sri Lanka, Bangladesh and Nepal. At present it operates in India and Sri Lanka. The Company also has exclusive rights for developing and operating Dunkin' Donuts restaurants for India and has 32 Dunkin' Donuts restaurants across 10 cities in India.

**Exhibit 1: Sensex rebased** 



Source: MOFSL/Bloomberg

Exhibit 2: Shareholding pattern (%)

Extribite Et offar cirot	amb battern ()	<u> ~ j</u>	
	Sep-19	Jun-19	Sep-18
Promoter	41.9	41.9	44.9
DII	17.5	11.8	7.4
FII	34.7	36.1	39.5
Others	5.9	10.2	8.2

Note: FII Includes depository receipts Source: Capitaline

**Exhibit 3: Top holders** 

Holder Name	% Holding
UTI-Equity Fund	2.7
Arisaig Asia Consumer Fund Limited	2.3
Arisaig Global Emerging Markets Consumer Fund (Singapore) Pte. Ltd.	1.8
Tata Mutual Fund - Tata Equity P/E Fund	1.7
Gaoling Fund L.P.	1.7

Source: Capitaline

**Exhibit 4: Top management** 

Name	Designation
Shyam S Bhartia	Chairman
Hari S Bhartia	Co-Chairman
Pratik Pota	Whole Time Director & CEO
Mona Aggarwal	Company Secretary

Source: Capitaline

**Exhibit 5: Directors** 

Name	Name
Abhay Prabhakar Havaldar	Pratik Pota
Ashwani Windlass	Deepa Misra Harris
Berjis Desai	Vikram Singh Mehta

**Exhibit 6: Auditors** 

Name	Туре
Chandrasekaran Associates	Secretarial Audit
Deloitte Haskins & Sells LLP	Statutory

Source: Capitaline

Exhibit 7: MOFSL forecast v/s consensus

EPS (INR)	MOFSL forecast	Consensus forecast	Variation (%)
FY20	27.6	29.5	-6.5
FY21	35.6	35.2	1.0

Source: Bloomberg

9

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. INH00000412. MOFSL, the Research Entity (RE) as defined in the Regulations, is engaged in the business of providing Stock broking services, Investment Advisory Services, Depository participant services & distribution of various financial products. MOFSL is a subsidiary company of Passionate Investment Management Pvt. Ltd.. (PIMPL). MOFSL is a listed public company, the details in respect of which are available on www.motilaloswal.com. MOFSL (erstwhile Motilal Oswal Securities Limited - MOSL) is registered with the Securities & Exchange Board of India (SEBI) and is a registered Trading Member with National Stock Exchange of India Ltd. (NSE) and Bombay Stock Exchange Limited (BSE), Multi Commodity Exchange of India Limited (MCX) and National Commodity & Derivatives Exchange Limited (NCDEX) for its stock broking activities & is Depository participant with Central Depository Services Limited (CDSL) National Securities Depository Limited (NSDL),NERL, COMRIS and CCRL and is member of Association of Mutual Funds of India (AMFI) for distribution of financial products and Insurance Regulatory & Development Authority of India (IRDA) as Corporate Agent for insurance products. Details of associate entities of Motilal Oswal Financial Services Limited are available on the website at

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 <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 <a href="www.nseindia.com">www.nseindia.com</a>, <a href="www.nseindia.co

#### 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.

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 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

- MOSL, 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 MOSL, Research Analyst and/or his relatives do not have actual/beneficial ownership of 1% or more securities in the subject company
- MOSL, Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months
   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

22 October 2019

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

Registration Nos.: Motilal Oswal Financial Services Limited (MOFSL)\*: INZ000158836(BSE/NSE/MCX/NCDEX); CDSL and NSDL: IN-DP-16-2015; Research Analyst: INH000000412. AMFI: ARN - 146822; Investment Adviser: INA000007100; Insurance Corporate Agent: CA0579;PMS:INP000006712. Motilal Oswal Asset Management Company Ltd. (MOAMC): PMS (Registration No.: INP000000670); PMS and Mutual Funds are offered through MOAMC which is group company of MOFSL. Motilal Oswal Wealth Management Ltd. (MOWML): PMS (Registration No.: INP000004409) is offered through MOWML, which is a group company of MOFSL. Motilal Oswal Financial Services Limited is a distributor of Mutual Funds, PMS, Fixed Deposit, Bond, NCDs, Insurance Products and IPOs.Real Estate is offered through Motilal Oswal Real Estate Investment Advisors II Pvt. Ltd. which is a group company of MOFSL. Private Equity is offered through Motilal Oswal Private Equity Investment Advisors Pvt. Ltd which is a group company of MOFSL. Research & Advisory services is backed by proper research. Please read the Risk Disclosure Document prescribed by the Stock Exchanges carefully before investing. There is no assurance or guarantee of the returns. Investment in securities market is subject to market risk, read all the related documents carefully before investing. Details of Compliance Officer: Name: Neeraj Agarwal, Email ID: na@motilaloswal.com, Contact No.:022-71881085.

\* MOSL has been amalgamated with Motilal Oswal Financial Services Limited (MOFSL) w.e.f August 21, 2018 pursuant to order dated July 30, 2018 issued by Hon'ble National Company Law Tribunal. Mumbai Bench.