Delta Corp

BSE SENSEX

38,731

S&P CNX 11,556 CMP: INR 166 TP: INR 304 (+83%)

Buy

Motilal Oswal values your support in the Asiamoney Brokers Poll 2019 for India Research, Sales and Trading team. We <u>request your ballot.</u>

Motilal Oswal



Bloomberg	DELTA IN
Equity Shares (m)	268
M.Cap.(INRb)/(USDb)	45 / 0.7
52-Week Range (INR)	282 / 156
1, 6, 12 Rel. Per (%)	-12/-43/-39
12M Avg Val (INR M)	434
Free float (%)	67.2

Financials & Valuations (INR b)

Y/E March	2019	2020E	2021E
Net Sales	8.0	9.0	10.4
EBITDA	3.2	3.7	4.4
NP	1.9	2.4	2.7
EPS (INR)	7.2	8.7	10.1
EPS Gr. (%)	23.8	21.4	16.6
BV/Sh. (INR)	71.7	79.9	89.4
RoE (%)	10.7	11.5	12.0
RoCE (%)	11.0	17.4	18.2
Payout (%)	6.6	6.2	5.3
Div. Yield (%)	0.2	0.3	0.3
Estimate change			•
TP change			•

TP change	
Rating change	•

The ship's steady

Casino biz growth restricted by maintenance work

- Delivers flat revenue and PAT: DELTA's revenue came in flat YoY at INR1,865m (our estimate: INR1,925m) in 1QFY20. Casino revenue increased 3% YoY – we note that growth would have been higher if not for the maintenance work at its vessel Deltin JAQK in dry dock for 19 days, due to which the segment incurred a revenue loss of ~INR190m. Online revenue declined by 9% to INR356m. EBITDA margin expanded 70bp YoY to 36.3% YoY (our estimate: 34.9%). PAT came in flat YoY at INR425m (in-line).
 - **Casino on strong footing, Online yet to gain ground:** As mentioned earlier, Casino biz incurred a loss due to maintenance work, and thus, the muted growth therein is not very concerning. Moreover, we do not see much threat from the entry of a new competitor given DELTA's strong leadership position in the space. Consequently, revenue growth is likely to bounce back from 2QFY20, and we estimate 18% growth in the Casino biz in 9MFY20. On the other hand, competition in Online biz from a top player is likely to remain intense, and thus, developments on this front will be closely watched. Also, margins in online gaming are likely to remain under pressure as the company invests aggressively in advertisement and marketing to remain competitive. **Key takeaways:** (a) DELTA will evaluate monetization of its online gaming businesses at the right time. (b) In 1QFY20, the company's visitation grew by 15% YoY to 105K.

Valuation and view: The stock price has corrected sharply following media reports of (a) DELTA being issued huge GST demand notice and (b) closure of Goa-based casinos. However, management clarified that it has not received any GST notice, while comments on closure of casinos have been countered and invalidated by authorities via media. Thus, we maintain our estimates of sales/PAT CAGR of 14%/19% over FY19-21. We continue valuing the stock at 30x P/E to arrive at a target price of INR304/share. Maintain **Buy**.

Quarterly Performance											(INR M	illion)
Y/E March		FY1	.9			FY2	0E		FY19	FY20E		Var
	1Q	2Q	3Q	4Q	1Q	2QE	3QE	4QE			1QE	%
Net Sales	1,873	2,014	2,052	2,043	1,865	2,384	2,392	2,386	7,978	9,042	1,925	-3
YoY Change (%)	46%	39%	27%	19%	0%	18%	17%	17%	31.3	13.3	3%	
Total Expenditure	1,206	1,251	1,197	1,164	1,188	1,372	1,377	1,385	4,791	5,359	1,253	
EBITDA	667	762	855	879	677	1,012	1,015	1,000	3,187	3,683	672	1
Margins (%)	35.6	37.9	41.7	43.0	36.3	42.5	42.4	41.9	39.9	40.7	34.9	
Depreciation	94	94	95	95	110	96	95	97	377	379	96	
Interest	2	7	6	3	10	6	8	3	18	20	3	
Other Income	83	83	55	92	82	65	62	62	313	270	70	
PBT before EO expense	654	744	810	875	640	975	974	962	3,105	3,554	643	
Extra-Ord expense	0	0	11	-37	0	0	0	0	-43	0	0	
РВТ	654	744	799	911	640	975	974	962	3,148	3,554	643	
Тах	228	267	296	344	217	332	331	327	1,141	1,208	219	
Rate (%)	34.9	35.8	37.0	37.8	33.9	34.0	34.0	34.0	36.3	34.0	34.0	
MI & P/L of Asso. Cos.	-3	4	2	0	2	4	4	2	39	-10	0	
Reported PAT	423	481	505	567	425	648	647	637	1,968	2,356	425	
Adj PAT	423	481	512	544	425	648	647	637	1,940	2,356	425	0
YoY Change (%)	100%	11%	14%	19%	0%	35%	26%	17%	25.3	21.4	3%	
Margins (%)	22.6	23.9	24.9	26.6	22.8	27.2	27.0	26.7	24.3	26.1	22.1	
E: MOESL Estimatos			-	. •	-				-		_	

E: MOFSL Estimates

Chintan Modi- Research analyst (Chintan.Modi@MotilalOswal.com); +91 22 6129 1554

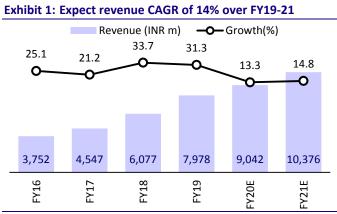
Lopa Thakkar- Research analyst (Lopa. Thakkar@motilaloswal.com); +91 22 6129 1548

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.

Others takeaways

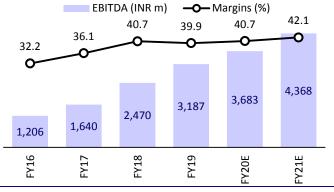
- Nepal Casino at Fairfield by Marriott, Kathmandu, likely to commence operations in 2QFY20.
- DELTA is looking to relaunch its rummy platform in 2QFY20.

Story in charts



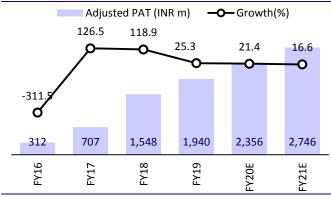
Source: Company MOFSL





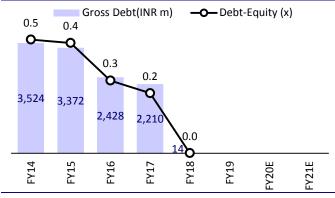
Source: Company MOFSL

Exhibit 3: Expect PAT CAGR of 19% over FY19-21



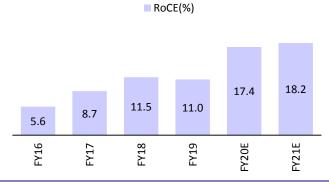
Source: Company MOFSL

Exhibit 5: To remain debt free in FY20



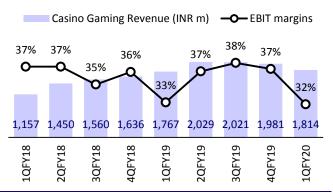
Source: Company MOFSL

Exhibit 4: RoCE to expand with multiple triggers in place



Source: Company MOFSL

Exhibit 6: Gaming grew 3% in 1QFY20 on JAQK dry docking



Source: Company MOFSL

Financials and Valuations

Total Income from Operations4,2545,5863,0003,7524,5476,0777,9789,04210,Change (%)16.631.3-46.325.121.233.731.313.314.313.914.414.814.5 <th></th>	
Change (%)16.631.3-46.325.121.233.731.313.313.3Cost of Materials Consumed1,9832,206205294315351387413% of Sales46.639.56.87.86.95.84.84.6Personnel Expenses3544845265916419461,1001,2571,% of Sales8.38.717.515.714.115.613.813.913.3Other Expenses1,0691,3951,6031,6611,9522,3093,3043,6894,% of Sales25.125.053.444.342.938.041.440.84.4% of Sales25.125.053.444.342.938.041.440.84.4% of Sales80.173.177.867.863.959.360.159.35% of Sales80.173.177.867.863.959.360.159.35BITDA8481,5016651,2061,6402,4703,1873,6834,Margin (%)19.926.922.232.236.140.739.940.74Depreciation811663473593613713773793793BIT7671,3353188471,2782,0992,8103,3043,Int. and Finance Charges <th>FY21E</th>	FY21E
Cost of Materials Consumed1,9832,206205294315351387413% of Sales46.639.56.87.86.95.84.84.6Personnel Expenses3544845265916419461,1001,2571,% of Sales8.38.717.515.714.115.613.813.91Other Expenses1,0691,3951,6031,6611,9522,3093,3043,6894,% of Sales25.125.053.444.342.938.041.440.84Total Expenditure3,4064,0852,3342,5452,9073,6064,7915,3596,% of Sales80.173.177.867.863.959.360.159.355BITDA8481,5016651,2061,6402,4703,1873,6834,Margin (%)19.926.922.232.236.140.739.940.74Depreciation8116634735936137137737933043,304	0,376
% of Sales 46.6 39.5 6.8 7.8 6.9 5.8 4.8 4.6 Personnel Expenses 354 484 526 591 641 946 1,100 1,257 1, % of Sales 8.3 8.7 17.5 15.7 14.1 15.6 13.8 13.9 1 Other Expenses 1,069 1,395 1,603 1,661 1,952 2,309 3,304 3,689 4, % of Sales 25.1 25.0 53.4 44.3 42.9 38.0 41.4 40.8 4 Total Expenditure 3,406 4,085 2,334 2,545 2,907 3,606 4,791 5,359 6, % of Sales 80.1 73.1 77.8 67.8 63.9 59.3 60.1 59.3 59.3 60.1 59.3 59.3 60.1 59.3 59.3 60.1 59.3 59.3 60.1 59.3 59.3 60.1 59.3 59.3 60.1 59.3 59.3 50.1 59.3 50.1 59.3 50.1 59.3 <td>14.8</td>	14.8
Personnel Expenses3544845265916419461,1001,2571,% of Sales8.38.717.515.714.115.613.813.91Other Expenses1,0691,3951,6031,6611,9522,3093,3043,6894,% of Sales25.125.053.444.342.938.041.440.840.8Total Expenditure3,4064,0852,3342,5452,9073,6064,7915,3596,% of Sales80.173.177.867.863.959.360.159.35EBITDA8481,5016651,2061,6402,4703,1873,6834,Margin (%)19.926.922.232.236.140.739.940.740.7Depreciation8116634735936137137737940.7EBIT7671,3353188471,2782,0992,8103,3043,Other Income18531274704928631327040.7PBT bef. EO Exp.7971,313-1205039782,2813,1053,5544,EO Items52-143-49105-42-10-43040.7	467
% of Sales 8.3 8.7 17.5 15.7 14.1 15.6 13.8 13.9 13.9 Other Expenses 1,069 1,395 1,603 1,661 1,952 2,309 3,304 3,689 4, % of Sales 25.1 25.0 53.4 44.3 42.9 38.0 41.4 40.8 40.8 Total Expenditure 3,406 4,085 2,334 2,545 2,907 3,606 4,791 5,359 6, % of Sales 80.1 73.1 77.8 67.8 63.9 59.3 60.1 59.3 59.3 60.1 59.3 59.3 60.1 59.3 50.1 59.3 59.3 50.1 59.3 59.3 50.1 59.3 59.3 50.1 50.3 59.3 50.1 50.3 50.1 <td>4.5</td>	4.5
Other Expenses1,0691,3951,6031,6611,9522,3093,3043,6894,% of Sales25.125.053.444.342.938.041.440.840.8Total Expenditure3,4064,0852,3342,5452,9073,6064,7915,3596,% of Sales80.173.177.867.863.959.360.159.35EBITDA8481,5016651,2061,6402,4703,1873,6834,Margin (%)19.926.922.232.236.140.739.940.740.7Depreciation8116634735936137137737940.740.7EBIT7671,3353188471,2782,0992,8103,3043,Int. and Finance Charges1553345134133501041820Other Income185312747049286313270PBT bef. EO Exp.7971,313-1205039782,2813,1053,5544,EO Items52-143-49105-42-10-4301440.8	1,370
% of Sales 25.1 25.0 53.4 44.3 42.9 38.0 41.4 40.8 40.8 Total Expenditure 3,406 4,085 2,334 2,545 2,907 3,606 4,791 5,359 6, % of Sales 80.1 73.1 77.8 67.8 63.9 59.3 60.1 59.3 5 EBITDA 848 1,501 665 1,206 1,640 2,470 3,187 3,683 4, Margin (%) 19.9 26.9 22.2 32.2 36.1 40.7 39.9 40.7 40.7 Depreciation 81 166 347 359 361 371 377 379 EBIT 767 1,335 318 847 1,278 2,099 2,810 3,304 3, Int. and Finance Charges 155 334 513 413 350 104 18 20 Other Income 185 312 74 70 49 286 313 270 PBT bef. EO Exp. 797 1,313 <td>13.2</td>	13.2
Total Expenditure3,4064,0852,3342,5452,9073,6064,7915,3596,% of Sales80.173.177.867.863.959.360.159.35EBITDA8481,5016651,2061,6402,4703,1873,6834,Margin (%)19.926.922.232.236.140.739.940.740.7Depreciation8116634735936137137737940.7EBIT7671,3353188471,2782,0992,8103,3043,Int. and Finance Charges155334513413350104182040.7Other Income18531274704928631327040.7PBT bef. EO Exp.7971,313-1205039782,2813,1053,5544,EO Items52-143-49105-42-10-43040.7	4,171
% of Sales 80.1 73.1 77.8 67.8 63.9 59.3 60.1 59.3 6 EBITDA 848 1,501 665 1,206 1,640 2,470 3,187 3,683 4, Margin (%) 19.9 26.9 22.2 32.2 36.1 40.7 39.9 40.7 40.7 Depreciation 81 166 347 359 361 371 377 379 EBIT 767 1,335 318 847 1,278 2,099 2,810 3,304 3, Int. and Finance Charges 155 334 513 413 350 104 18 20 Other Income 185 312 74 70 49 286 313 270 PBT bef. EO Exp. 797 1,313 -120 503 978 2,281 3,105 3,554 4, EO Items 52 -143 -49 105 -42 -10 -43 0	40.2
EBITDA8481,5016651,2061,6402,4703,1873,6834,Margin (%)19.926.922.232.236.140.739.940.74Depreciation81166347359361371377379EBIT7671,3353188471,2782,0992,8103,3043,Int. and Finance Charges1553345134133501041820Other Income18531274704928631327049PBT bef. EO Exp.7971,313-1205039782,2813,1053,5544,EO Items52-143-49105-42-10-43010	6,008
Margin (%) 19.9 26.9 22.2 32.2 36.1 40.7 39.9 40.7 40.7 Depreciation 81 166 347 359 361 371 377 379 EBIT 767 1,335 318 847 1,278 2,099 2,810 3,304 3, Int. and Finance Charges 155 334 513 413 350 104 18 20 Other Income 185 312 74 70 49 286 313 270 PBT bef. EO Exp. 797 1,313 -120 503 978 2,281 3,105 3,554 4, EO Items 52 -143 -49 105 -42 -10 -43 0	57.9
Depreciation 81 166 347 359 361 371 377 379 EBIT 767 1,335 318 847 1,278 2,099 2,810 3,304 3, Int. and Finance Charges 155 334 513 413 350 104 18 20 Other Income 185 312 74 70 49 286 313 270 PBT bef. EO Exp. 797 1,313 -120 503 978 2,281 3,105 3,554 4, EO Items 52 -143 -49 105 -42 -10 -43 0	4,368
EBIT7671,3353188471,2782,0992,8103,3043,Int. and Finance Charges1553345134133501041820Other Income185312747049286313270PBT bef. EO Exp.7971,313-1205039782,2813,1053,5544,EO Items52-143-49105-42-10-430	42.1
Int. and Finance Charges 155 334 513 413 350 104 18 20 Other Income 185 312 74 70 49 286 313 270 PBT bef. EO Exp. 797 1,313 -120 503 978 2,281 3,105 3,554 4, EO Items 52 -143 -49 105 -42 -10 -43 0	453
Other Income 185 312 74 70 49 286 313 270 PBT bef. EO Exp. 797 1,313 -120 503 978 2,281 3,105 3,554 4, EO Items 52 -143 -49 105 -42 -10 -43 0	3,916
PBT bef. EO Exp. 797 1,313 -120 503 978 2,281 3,105 3,554 4, EO Items 52 -143 -49 105 -42 -10 -43 0	20
EO Items 52 -143 -49 105 -42 -10 -43 0	250
EO Items 52 -143 -49 105 -42 -10 -43 0	4,146
	, 0
PBT after EO Exp. 849 1,170 -169 608 1,020 2,292 3,148 3,554 4,	4,146
	1,410
Deferred Tax 15 42 -47 0 0 0 0 0	0
	34.0
Less: Mionrity Interest 216 297 -50 24 2 -1 39 -10	-10
	2,746
	2,746
	16.6
	26.5
Consolidated - Balance Sheet (INR Milli	llion)
Y/E March FY13 FY14 FY15 FY16 FY17 FY18 FY19 FY20E FY	FY21E
Equity Share Capital 227 228 231 232 268 271 271	271
Total Reserves 7,505 7,529 7,420 8,123 8,970 16,560 19,152 21,361 23,	3,960
Net Worth 7,732 7,757 7,651 8,354 9,202 16,827 19,423 21,631 24,	4,231
Minority Interest 1,616 525 244 270 160 141 80 80	80
Deferred Liabilities 4 57 160 0 0 245 243 243	243
Total Loans 4,850 3,524 3,372 2,428 2,210 14 2 2	2
Capital Employed 14,202 11,863 11,426 11,051 11,572 17,228 19,748 21,956 24,	4,556
	5,195
	3,101
	2,094
	3,969
	129
	6,455
	3,528
	1,052
	142
Cash and Bank Balance 466 551 210 228 314 1,235 738 578	56
· · · · · · · · · · · · · · · · · · ·	2,278
	1,859
	1,734
	1,754
	1,669 240
	240
Appl. of Funds 14,202 11,863 11,426 11,051 11,572 17,228 19,748 21,956 24, E: MOFSL Estimates	4,556

Financials and Valuations

Y/E March	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20E	FY21E
Basic (INR)									
EPS	1.2	1.9	-0.6	1.4	3.1	5.8	7.2	8.7	10.1
Cash EPS	1.5	2.6	0.9	2.9	4.6	7.2	8.6	10.1	11.8
BV/Share	34.1	34.1	33.2	36.2	39.7	62.9	71.7	79.9	89.4
DPS	0.2	0.2	0.1	0.2	0.4	0.0	0.4	0.5	0.5
Payout (%)	22.8	18.8	-12.5	14.5	13.2	0.0	6.6	6.2	5.3
Valuation (x)									
P/E		92.1	-273.3	129.2	57.3	30.2	24.4	20.1	17.3
Cash P/E		66.6	202.7	60.1	37.9	24.4	20.5	17.3	14.8
P/BV		5.1	5.3	4.8	4.4	2.8	2.4	2.2	2.0
EV/Sales		11.6	21.6	17.0	14.0	9.9	7.6	6.7	5.9
EV/EBITDA		43.0	97.3	52.8	38.7	22.9	17.9	15.5	13.2
Dividend Yield (%)	0.1	0.1	0.1	0.1	0.2	0.0	0.2	0.3	0.3
FCF per share	-3.7	6.8	3.2	4.6	4.0	3.1	-1.7	0.8	3.3
Return Ratios (%)									
RoE	3.4	5.6	-1.9	3.9	8.1	11.9	10.7	11.5	12.0
RoCE	4.6	7.7	5.8	5.6	8.7	11.5	11.0	17.4	18.2
RoIC	6.7	8.9	5.4	5.6	9.2	12.9	13.7	14.2	15.1
Working Capital Ratios									
Asset Turnover (x)	0.3	0.5	0.3	0.3	0.4	0.4	0.4	0.4	0.4
Inventory (Days)	203	47	85	69	56	42	44	38	37
Debtor (Days)	12	44	28	14	3	5	3	5	5
Creditor (Days)	142	48	89	78	73	166	51	60	61
Working Cap. Turnover (Days)	334	43	23	4	-13	-118	-4	-17	-19
Leverage Ratio (x)									
Debt/Equity	0.6	0.5	0.4	0.3	0.2	0.0	0.0	0.0	0.0

Consolidated - Cash Flow Statement									willion)
Y/E March	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20E	FY21E
OP/(Loss) before Tax	849	1,175	-166	596	978	2,281	3,105	3,554	4,146
Depreciation	81	166	347	382	361	371	377	379	453
Interest & Finance Charges	10	199	495	397	300	-182	-295	-250	-230
Direct Taxes Paid	-365	-332	-354	-156	-280	-737	-1,141	-1,208	-1,410
(Inc)/Dec in WC	2,235	1,119	539	94	-427	3,081	-1,585	351	131
CF from Operations	2,810	2,327	862	1,313	932	4,815	461	2,826	3,090
Others	37	-49	-23	-156	180	125	-433	-99	-105
CF from Operating incl EO	2,847	2,278	838	1,157	1,112	4,940	28	2,727	2,985
(inc)/dec in FA	-3,692	-740	-107	-89	-185	-4,122	-500	-2,500	-2,100
Free Cash Flow	-845	1,538	731	1,068	927	818	-473	227	885
(Pur)/Sale of Investments	205	132	3	32	-155	-3,240	-234	-500	-1,500
Others	-643	1,257	-145	-63	49	-36	313	270	250
CF from Investments	-4,129	650	-250	-120	-290	-7,397	-422	-2,730	-3,350
Issue of Shares	49	22	145	0	1	5,500	0	0	0
(Inc)/Dec in Debt	301	-1,158	-152	-524	-218	-2,196	-13	0	0
Interest Paid	-155	-310	-551	-427	-350	-104	-18	-20	-20
Dividend Paid	-109	-57	-62	-28	-98	0	-130	-147	-147
Others	338	-1,340	-309	-40	-72	176	59	10	10
CF from Fin. Activity	425	-2,843	-929	-1,018	-736	3,377	-101	-157	-157
Inc/Dec of Cash	-857	84	-341	18	86	920	-496	-160	-522
Opening Balance	1,323	466	551	210	228	314	1,233	738	578
Closing Balance	466	551	210	228	314	1,233	738	578	56

Explanation of Investment Rating	
Investment Rating	Expected return (over 12-month)
BUY	>=15%
SELL	< - 10%
NEUTRAL	< - 10 % to 15%
UNDER REVIEW	Rating may undergo a change
NOT RATED	We have forward looking estimates for the stock but we refrain from assigning recommendation

*In case the recommendation given by the Research Analyst is inconsistent with the investment rating legend for a continuous period of 30 days, the Research Analyst shall within following 30 days take appropriate measures to make the recommendation consistent with the investment rating legend.

Disclosures

The following Disclosures are being made in compliance with the SEBI Research Analyst Regulations 2014 (herein after referred to as the Regulations).

Motilal Oswal Financial Services Ltd. (MOFSL) is a SEBI Registered Research Analyst having registration no. INH000000412. MOFSL, the Research Entity (RE) as defined in the Regulations, is engaged in the business of providing Stock broking services, Investment Advisory Services, Depository participant services & distribution of various financial products. MOFSL is a subsidiary company of Passionate Investment Management Pvt. Ltd.. (PIMPL). MOFSL is a listed public company, the details in respect of which are available on www.motilaloswal.com. MOFSL (erstwhile Motilal Oswal Securities Limited - MOSL) is registered with the Securities & Exchange Board of India (SEBI) and is a registered Trading Member with National Stock Exchange of India Ltd. (NSE) and Bombay Stock Exchange Limited (BSE), Multi Commodity Exchange of India Limited (MCX) and National Commodity & Derivatives Exchange Limited (NCDEX) for its stock broking activities & is Depository participant with Central Depository Services Limited (CDSL) National Securities Depository Limited (NSDL), NERL, COMRIS and CCRL and is member of Association of Mutual Funds of India (AMFI) for distribution of financial products and Insurance Regulatory & Development Authority of India (IRDA) as Corporate Agent for insurance products. Details of associate entities of Motilal Oswal Financial Services Limited are available on the website at http://onlinereports.motilaloswal.com/Dormant/documents/List%20of%20Associate%20companies.pdf

MOFSL and its associate company(ies), their directors and Research Analyst and their relatives may; (a) from time to time, have a long or short position in, act as principal in, and buy or sell the securities or derivatives thereof of companies mentioned herein. (b) be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) discussed herein or act as an advisor or lender/borrower to such company(ies) or may have any other potential conflict of interests with respect to any recommendation and other related information and opinions; however the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report

MOFSL and / or its affiliates do and seek to do business including investment banking with companies covered in its research reports. As a result, the recipients of this report should be aware that MOFSL may have a potential conflict of interest that may affect the objectivity of this report. Compensation of Research Analysts is not based on any specific merchant banking, investment banking or brokerage service transactions. Details of pending Enquiry Proceedings of Motilal Oswal Financial Services Limited are available on the website at https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx

A graph of daily closing prices of securities is available at <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 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 brokerdealer, 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 MOČMSPL 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. 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
- Research Analyst has not served as director/officer/employee in the subject company
- MOSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months 6
- MOSL has not received compensation for investment banking/merchant banking/brokerage services from the subject company in the past 12 months
- MOSL has not received compensation for other than investment banking/merchant banking/brokerage services from the subject company in the past 12 months MOSL has not received any compensation or other benefits from third party in connection with the research report
- 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 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 Vealth 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.