Buy



ALKEM Laboraties

Estimate change

TP change

Rating change

Motilal Oswal values your support in the Asiamoney Brokers Poll 2020 for India Research, Sales and Trading team. We request your ballot.



Bloomberg	ALKEM IN
Equity Shares (m)	120
M.Cap.(INRb)/(USDb)	356.3 / 4.6
52-Week Range (INR)	3090 / 1682
1, 6, 12 Rel. Per (%)	24/26/71
12M Avg Val (INR M)	287

Financials & Valuations (INR b)

2020	2021E	2022E
83.4	89.1	100.8
15.0	21.0	23.3
11.4	15.7	17.5
15.1	20.5	20.2
95.4	131.5	146.1
49.5	37.8	11.1
515.3	618.7	731.9
0.1	-0.1	-0.1
19.7	23.2	21.6
17.6	19.8	19.0
22.5	22.5	22.5
31.4	22.8	20.5
24.4	16.8	14.9
0.6	0.8	0.9
0.6	3.8	2.9
4.4	4.0	3.4
	83.4 15.0 11.4 15.1 95.4 49.5 515.3 0.1 19.7 17.6 22.5 31.4 24.4 0.6 0.6	83.4 89.1 15.0 21.0 11.4 15.7 15.1 20.5 95.4 131.5 49.5 37.8 515.3 618.7 0.1 -0.1 19.7 23.2 17.6 19.8 22.5 22.5 31.4 22.8 24.4 16.8 0.6 0.8 0.6 0.8

Shareholding pattern (%)

As On	Jun-20	Mar-20	Jun-19
Promoter	62.4	65.9	66.0
DII	12.3	11.8	6.3
FII	3.5	3.6	2.4
Others	21.8	18.7	25.3

FII Includes depository receipts

Big beat; Profits 100% ahead of expectations

Raise earnings by 30%/15% for FY21/22E

CMP: INR2,980

ALKEM exhibited strong traction in US generics and significant savings on opex in 1QFY21, which more than offset the YoY decline in domestic formulation (DF) sales, resulting in record high quarterly earnings. The pandemic has showcased strong brand recall for ALKEM's products in the DF segment and superior execution in US generics.

TP: INR3,665 (+23%)

■ We have raised our EPS estimates by 30%/15% for FY21/FY22E to factor in cost rationalization initiatives and improving profitability in the US generics segment. We value ALKEM at 23x (10% discount to its 3-year average) to arrive at price target of INR3,665 on 12M forward earnings basis. We remain positive on the outperformance of Chronic therapy in DF, trade generics segment and healthy ANDA pipeline for the US market. Re-iterate **Buy**.

Lower operating cost leads record high quarterly PAT

- 1QFY21 revenues grew ~7% YoY to INR19.8b (v/s est. INR18.2b).
- International business reported sales growth of ~33% YoY to INR7.9b, led by revenue growth of (a) 38% YoY in the US to INR6.7b (33% of sales), and (b) ~9% YoY in other International markets to INR1.2b (6% of sales). DF sales declined ~5.5% YoY to INR11.6b (58% of sales), due to COVID related decline in patients visiting clinics.
- Gross margin expanded by ~140bp YoY to 63.4% due to better product mix.
- EBITDA margin improved further by ~1,140bp YoY to 25.6% (v/s est. 15.7%), due to lower other costs (-920bp as % of sales) and improved GMs.
- R&D expense stood at INR1.2b, 5.9% of sales for the quarter.
- EBITDA was up 92% YoY to INR5.1b (v/s est. INR2.9b).
- ALKEM received research linked milestone income of USD3.5m. Adjusting for the same, PAT grew at a higher rate of 114% YoY to INR4b (v/s est. INR2b) due to higher other income.

Highlights from management commentary

- Branded generics and trade generics composition was 72:28 in the domestic business for 1QFY21. Trade generics grew in healthy mid-teens.
- 1QFY21 saw the DF segment seeing spillover of some business from 4QFY20.
 Spillover of some business from 1QFY21 to 2QFY21 is expected as well.
- There was considerable reduction in marketing and promotion expenses for the quarter, which is expected to increase in the coming quarters, starting 2QFY21. At the same time, revenue growth prospects are also improving.
- Accordingly, 2QFY21 is expected to be better than 1QFY21 for DF.
- The company intends to launch 10-12 ANDAs in the US in FY21.

Valuation and view

We expect 24% earnings CAGR over FY20-22E, led by 16%/8% sales CAGR in the US/DF generics on new launches and better traction in existing products. The reduced promotional expense in DF and improving profitability in the US should drive 520bp margin expansion over FY20-22E.

Research Analyst: Tushar Manudhane (Tushar.Manudhane@motilaloswal.com)

Hitakshi Chandrani (Hitakshi.Chandrani@MotilalOswal.com) / Bharat Hegde (Bharat.Hegde@motilaloswal.com)

■ We have raised our EPS estimates by 30%/15% for FY21/FY22E to factor in cost saving on enhanced use of digital promotions/reduced travelling expenses, and robust traction in US generics (driving revenue growth as well as profitability).

 Accordingly, we have revised our price target to INR3,665 on 23x 12-month forward earnings. Re-iterate Buy.

Quarterly Perf. (Consolidated	u)										(INR m)
Y/E March		FY2	20			FY2	1E		FY20	FY21E		Vaq
	1Q	2Q	3Q	4Q	1Q	2QE	3QE	4Q			1QE	%
Net Revenues	18,495	22,640	21,818	20,490	19,775	24,258	24,010	21,068	83,444	89,112	18,199	8.7
YoY Change (%)	10.8	18.0	13.3	10.6	6.9	7.1	10.0	2.8	29.7	21.1	-1.6	
EBITDA	2,645	4,752	4,533	3,030	5,072	5,989	5,788	4,182	14,960	21,030	2,853	77.8
YoY Change (%)	23.5	30.7	44.8	28.4	91.8	26.0	27.7	38.0	41.6	88.3	8	
Margins (%)	14.3	21.0	20.8	14.8	25.6	24.7	24.1	19.8	17.9	23.6	15.7	
Depreciation	558	564	595	631	668	680	710	720	2,348	2,778	550	
EBIT	2,087	4,188	3,938	2,400	4,404	5,309	5,078	3,462	12,612	18,252	2,303	
YoY Change (%)	21.5	31.7	48.4	34.2	111.0	26.8	28.9	44.3	38.0	97.6	10	
Margins (%)	11.3	18.5	18.0	11.7	22.3	21.9	21.1	16.4	15.1	20.5	12.7	
Interest	161	178	170	142	171	160	190	310	651	831	155	
Other Income	175	314	279	275	435	220	240	256	1,042	1,151	140	
PBT before EO Exp	2,100	4,325	4,046	2,533	4,668	5,369	5,128	3,407	13,004	18,572	2,288	104.0
EO Exp/(Inc)		226		180	-260	0			406	-260		
PBT	2,100	4,098	4,046	2,353	4,928	5,369	5,128	3,407	12,598	18,832	2,288	
Tax	227	293	147	438	696	752	692	497	1,105	2,636	275	
Rate (%)	10.8	6.8	3.6	17.3	14.9	14.0	13.5	14.6	8.5	14.2	12.0	
PAT (pre Minority Interest)	1,873	3,805	3,900	1,915	4,232	4,618	4,435	2,910	11,493	16,195	2,013	
Minority Interest	18	97	80	28	11	55	85	100	222	251	0	
Reported PAT	1,855	3,708	3,820	1,888	4,221	4,563	4,350	2,810	11,271	15,944	2,013	109.6
YoY Change (%)												
Adj Net Profit	1,855	3,918	3,481	2,153	3,961	4,563	4,350	2,810	11,407	15,720	2,013	96.7
YoY Change (%)	36.2	54.3	58.9	45.1	113.5	16.4	25.0	30.5	49.5	37.8	8.5	

_		
Key performance	Indicators	(Consolidated)

Y/E March		FY2	0			FY21	FY20	FY21E		
INRm	1Q	2Q	3Q	4Q	1Q	2QE	3QE	4QE		
India formulations	12,222	15,503	14,239	12,576	11,550	16,278	15,948	13,218	54,540	56,994
YoY Change (%)	12.1	17.6	14.1	3.3	(5.5)	5.0	12.0	5.1	11.9	4.5
Us generics	4,817	5,276	5,837	6,068	6,664	6,595	6,713	6,967	21,997	26,939
YoY Change (%)	13.7	11.7	12.6	25.8	38.3	25.0	15.0	14.8	16.0	22.5
International (Ex-US)	1,095	1,415	1,416	1,455	1,189	1,585	1,600	1,654	5,382	6,028
YoY Change (%)	(11.9)	30.5	4.9	14.1	8.6	12.0	13.0	13.7	8.7	12.0
Cost Break-up										
RM Cost (% of Sales)	38.5	38.9	38.2	43.7	37.1	37.5	37.5	37.0	39.8	37.3
Staff Cost (% of Sales)	21.1	17.2	18.1	16.1	19.9	17.5	17.0	16.3	18.0	17.7
R&D Expenses(% of Sales)	5.6	5.5	5.5	6.1	6.0	5.5	5.5	6.2	5.7	5.8
Other Cost (% of Sales)	20.5	17.4	18.0	19.3	11.3	14.5	15.5	20.7	18.6	15.6
Gross Margins(%)	61.5	61.1	61.8	56.3	62.9	62.5	62.5	63.0	60.2	62.7
EBITDA Margins(%)	14.3	21.0	20.8	14.8	25.6	24.7	24.1	19.8	17.9	23.6
EBIT Margins(%)	11.3	18.5	18.0	11.7	22.3	21.9	21.1	16.4	15.1	20.5



Management call highlights

- US business grew 28% YoY in CC terms for the quarter, led by new launches and market share gain in existing products.
- ALKEM filed 4 ANDAs and received 2 approvals in 1QFY21. Cumulative ANDAs pending for approval are 58. There are 65-70 products that are currently being marketed. Annual R&D spend would be 6% of revenue.
- Accordingly, US sales trajectory is expected to be on an improving trend.
- Typically ALKEM maintains API inventory of 45-50 days.

Key exhibits

Exhibit 1: Domestic revenue declined 5.5% YoY in 1QFY21

India sales (INR b) **—O**— Growth (%) 26.8 25.7 17.6 14.1 12.1 13.2 3.3 11.6 -0.7-5.5 10.9 12.2 12.2 15.5 14.2 12.6 o 1QFY19 3QFY19 1QFY20 2QFY20 2QFY19 4QFY19 3QFY20 4QFY20 1QFY21

Exhibit 2: US sales saw healthy growth of 38% YoY



Source: MOFSL, Company

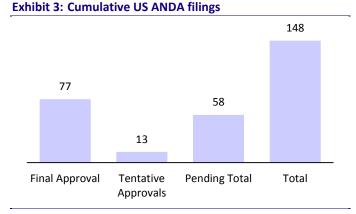


Exhibit 4: Robust ANDA pipeline

US Filings	# Nos.
Total ANDAs filed	148
ANDAs filed in 1QFY21	4
NDAs	2

Source: MOSL, Company

Source: MOSL, Company

Source: MOFSL, Company

Valuation view

DF subdued in 1QFY21; growth in gradual recovery mode

- DF business sales declined 5.5% YoY due to COVID related impact. Due to ALKEM having an Acute heavy portfolio, impact on the company was ~100bp higher (v/s the market). Anti-infectives, gastro and pain portfolios saw decline of 8-25% YoY. However, ALKEM was able to offset some of the decline in its Acute sales from increase in trade generics sales, which increased to ~28% of domestic sales, growing in healthy double-digits for the quarter.
- While the 1QFY21 was weak on YoY basis, the outlook in terms of increased elective procedures at hospitals, increasing patient-doctor connect is expected to aid better growth over the near-to-medium term. Considering a dent in YoY growth for FY21, we expect ALKEM to garner 8% CAGR in DF sales to INR64b.

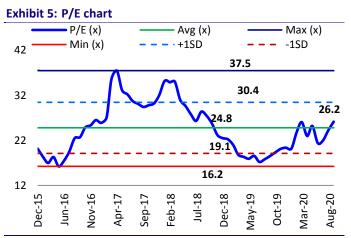
US biz to grow on steady stream of filings/launches

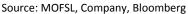
ALKEM has delivered 24% CAGR in US sales to USD310m over FY15-20. It has 148 ANDAs filed till date with only half of them commercialized in the US. It plans to focus on differentiated products in OSD. It has significant ammunition to grow the business on the back of new product launches and ramp-up in market share in existing products. The company aims to maintain its pace of 10-

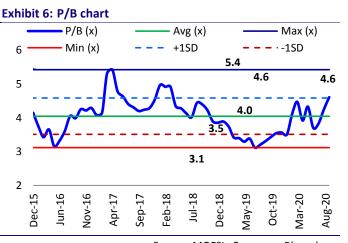
12 launches per year over the next 3-4 years. ALKEM now has EIRs for all its 6 facilities supplying to the US, implying minimal regulatory risk over the near term. Based on the product pipeline and minimal regulatory risk in the US, we expect ALKEM's US sales to deliver 16% CAGR at ~USD420m over FY20-22E.

Valuation and view

- We expect 24% earnings CAGR over FY20-22E, led by 16%/8% sales CAGR in the US/DF generics on new launches and better traction in existing products. The reduced promotional expense in DF and improving profitability in the US should drive 520bp margin expansion over FY20-22E.
- We have raised our EPS estimates by 30%/15% for FY21/FY22E and have inched up our P/E multiple to 23x (from 22x earlier) to factor in the cost savings on enhanced use of digital way of promotions/reduced travelling expense and robust traction in US generics (driving revenue growth as well as profitability).
- Accordingly, we have revised our price target to INR3,665 on 23x 12-month forward earnings. Re-iterate Buy.



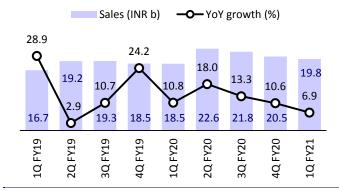




Source: MOFSL, Company, Bloomberg

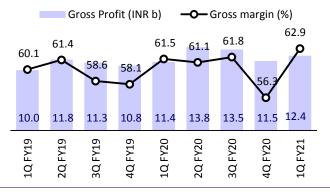
Story in charts

Exhibit 7: Growth led by US sales in 1QFY21



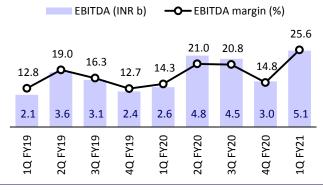
Source: Company, MOFSL

Exhibit 8: Gross margin improved 140bp YoY



Source: Company, MOFSL

Exhibit 9: EBITDA margin expanded 1,140bp YoY



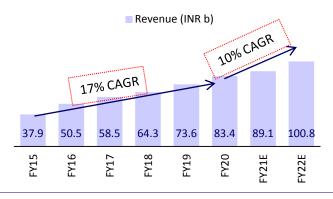
Source: Company, MOFSL

Exhibit 10: EPS grew 114% YoY to INR35.3 in 1QFY21



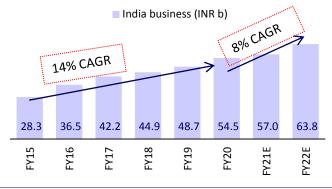
Source: Company, MOFSL

Exhibit 11: Expect revenue CAGR of 10% over FY20-22E



Source: Company, MOFSL

Exhibit 12: Expect India sales CAGR of 8% over FY20-22E



Source: Company, MOFSL

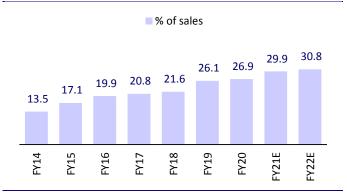
Story in charts

Exhibit 13: US sales to be driven by new launches



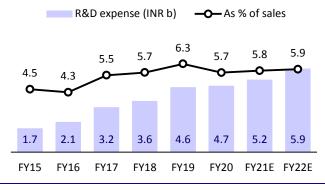
Source: Company, MOFSL

Exhibit 14: US contribution to sales increasing gradually



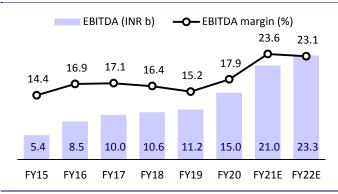
Source: Company, MOFSL

Exhibit 15: R&D expense to be 5.5-6% of sales over FY20-22E



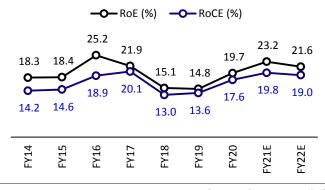
Source: Company, MOFSL

Exhibit 16: Sales mix/lower opex to drive profitability



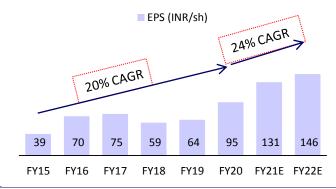
Source: Company, MOFSL

Exhibit 17: Improving return ratios



Source: Company, MOFSL

Exhibit 18: Expect earnings CAGR of 24% over FY20-22E



Source: Company, MOFSL

Financials and Valuations

Consolidated - Income Statement									INR m
Y/E March	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21E	FY22E
Total Income from Operations	31,260	37,887	50,479	58,525	64,312	73,572	83,444	89,112	100,775
Change (%)	25.3	21.2	33.2	15.9	9.9	14.4	13.4	6.8	13.1
EBITDA	4,100	5,445	8,533	9,990	10,566	11,171	14,960	21,030	23,279
Margin (%)	13.1	14.4	16.9	17.1	16.4	15.2	17.9	23.6	23.1
Depreciation	523	703	933	1,012	1,430	1,932	2,348	2,778	2,886
EBIT	3,578	4,742	7,599	8,978	9,136	9,239	12,612	18,252	20,393
Int. and Finance Charges	931	811	712	452	553	546	651	831	915
Other Income	1,653	1,810	2,397	1,120	960	877	1,042	1,151	1,159
PBT bef. EO Exp.	4,300	5,741	9,284	9,646	9,542	9,570	13,004	18,572	20,638
EO Items	0	-574	0	0	0	-23	-406	260	0
PBT after EO Exp.	4,300	5,167	9,284	9,646	9,542	9,547	12,598	18,832	20,638
Current Tax	25	85	1,762	600	2,876	1,810	1,105	2,636	2,889
Deferred Tax	-79	457	0	0	0	0	0	0	0
Tax Rate (%)	-1.2	10.5	19.0	6.2	30.1	19.0	8.8	14.0	14.0
Less: Mionrity Interest	0	0	114	126	75	131	222	251	284
Reported PAT	4,353	4,625	7,409	8,920	6,309	7,606	11,271	15,944	17,465
Adjusted PAT	4,353	5,139	8,419	8,920	7,040	7,629	11,407	15,720	17,465
Change (%)	13.4	18.1	63.8	6.0	-21.1	8.4	49.5	37.8	11.1
Margin (%)	13.9	13.6	16.7	15.2	10.9	10.4	13.7	17.6	17.3

Consolidated - Balance Sheet									INR m
Y/E March	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21E	FY22E
Equity Share Capital	120	239	239	239	239	239	239	239	239
Total Reserves	25,730	29,752	36,681	44,437	48,399	54,154	61,368	73,722	87,254
Net Worth	25,850	29,991	36,920	44,676	48,638	54,393	61,607	73,961	87,493
Minority Interest	0	857	950	1,152	1,216	1,326	1,483	1,483	1,483
Deferred Tax Liabilities	781	1,256	10	5	17	3	0	0	0
Total Loans	11,284	13,059	5,876	6,539	8,920	9,026	16,628	16,628	16,628
Capital Employed	37,915	45,162	43,756	52,373	58,790	64,748	79,717	92,071	105,604
Net Fixed Assets	9,797	11,429	10,310	13,945	18,733	21,056	23,063	24,939	26,034
Goodwill on Consolidation	1,903	3,421	4,185	4,026	4,103	4,248	6,017	6,017	6,017
Capital WIP	0	0	1,724	2,993	3,810	4,930	3,630	2,476	2,495
Total Investments	5,880	4,808	5,086	5,530	4,443	3,236	2,614	2,614	2,614
Curr. Assets, Loans&Adv.	25,414	33,008	28,878	32,225	39,012	41,535	54,784	69,898	85,176
Inventory	6,203	7,842	9,094	12,060	14,422	14,999	18,188	19,025	21,869
Account Receivables	3,669	5,271	5,675	7,136	10,805	12,484	16,494	19,531	24,020
Cash and Bank Balance	2,063	7,908	7,809	3,993	5,768	6,616	10,922	21,538	28,200
Loans and Advances	13,478	11,987	6,300	9,036	8,017	7,437	9,180	9,804	11,087
Curr. Liability & Prov.	5,251	7,796	11,589	13,308	17,866	17,334	19,716	23,199	26,058
Account Payables	3,057	4,619	5,805	7,414	9,607	9,623	9,541	9,484	10,796
Other Current Liabilities	1,267	1,667	3,908	3,628	5,517	4,436	6,108	6,523	7,377
Provisions	926	1,510	1,877	2,266	2,742	3,275	4,067	7,192	7,885
Net Current Assets	20,163	25,212	17,288	18,917	21,145	24,202	35,068	46,699	59,118
Deferred Tax assets	172	292	5,162	6,963	6,556	7,076	9,326	9,326	9,326
Appl. of Funds	37,915	45,162	43,756	52,373	58,790	64,748	79,717	92,071	105,604

Financials and Valuations

Ratios									
Y/E March	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21E	FY22E
Basic (INR)									
EPS	36.4	38.7	70.4	74.6	58.9	63.8	95.4	131.5	146.1
Cash EPS	40.8	48.9	78.2	83.1	70.9	80.0	115.1	154.7	170.2
BV/Share	216	251	309	374	407	455	515	619	732
DPS	2.0	4.0	12.7	6.0	15.0	15.0	17.9	25.3	27.8
Payout (%)	6.4	12.3	24.7	9.7	34.3	28.5	22.5	22.5	22.5
Valuation (x)									
P/E	82.4	77.6	42.6	40.2	51.0	47.0	31.4	22.8	20.5
Cash P/E	73.6	61.4	38.4	36.1	42.3	37.5	26.1	19.4	17.6
P/BV	13.9	12.0	9.7	8.0	7.4	6.6	5.8	4.8	4.1
EV/Sales	11.8	9.6	7.1	6.2	5.6	4.9	4.4	4.0	3.4
EV/EBITDA	89.7	66.8	41.8	36.2	34.2	32.3	24.4	16.8	14.9
Dividend Yield (%)	0.1	0.1	0.4	0.2	0.5	0.5	0.6	0.8	0.9
FCF per share	15.9	16.1	39.5	-13.7	-34.4	21.1	17.3	118.3	88.9
Return Ratios (%)									
RoE	18.3	18.4	25.2	21.9	15.1	14.8	19.7	23.2	21.6
RoCE	14.2	14.6	18.9	20.1	13.0	13.6	17.6	19.8	19.0
RoIC	13.7	13.6	20.0	24.4	15.1	15.8	20.5	24.5	25.5
Working Capital Ratios									
Asset Turnover (x)	0.8	0.8	1.2	1.1	1.1	1.1	1.0	1.0	1.0
Inventory (Days)	72	76	66	75	82	74	80	78	79
Debtor (Days)	41	49	40	45	61	62	72	78	85
Creditor (Days)	36	45	42	46	55	48	42	39	39
Leverage Ratio (x)									
Debt/Equity	0.4	0.2	-0.1	0.1	0.1	0.0	0.1	-0.1	-0.1

Consolidated - Cash Flow Statement									INR m
Y/E March	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21E	FY22E
OP/(Loss) before Tax	4,300	5,142	9,284	9,646	9,260	9,547	13,004	18,572	20,638
Depreciation	523	703	933	1,012	1,430	1,932	2,348	2,778	2,886
Interest & Finance Charges	-555	-1,196	-599	-592	-234	134	-392	-319	-245
Direct Taxes Paid	-1,111	-1,056	-1,982	-2,640	-2,032	-2,511	-1,105	-2,636	-2,889
(Inc)/Dec in WC	-364	-963	101	-2,626	-5,732	-1,403	-6,966	-755	-5,757
CF from Operations	2,793	2,630	7,737	4,801	2,692	7,698	6,889	17,639	14,633
Others	107	652	-478	-90	-32	98	0	0	0
CF from Operating incl EO	2,900	3,281	7,258	4,711	2,660	7,797	6,889	17,639	14,633
(Inc)/Dec in FA	-1,004	-1,354	-2,535	-6,344	-6,770	-5,269	-4,824	-3,500	-4,000
Free Cash Flow	1,897	1,928	4,724	-1,633	-4,110	2,527	2,066	14,139	10,633
(Pur)/Sale of Investments	25	1,028	325	0	868	1,235	622	0	0
Others	-3,814	3,406	4,233	3,484	3,151	2,223	1,042	1,151	1,159
CF from Investments	-4,792	3,081	2,023	-2,859	-2,751	-1,812	-3,159	-2,349	-2,841
Issue of Shares	0	0	0	0	1	0	0	0	0
Inc/(Dec) in Debt	-4,732	871	-6,714	121	3,574	-1,057	7,602	0	0
Interest Paid	-914	-793	-713	-636	-553	-546	-651	-831	-915
Dividend Paid	-319	-567	-1,845	-863	-2,176	-2,186	-2,538	-3,590	-3,932
CF from Fin. Activity	-6,000	-518	-9,273	-1,379	1,944	-3,140	2,577	-7,000	-5,130
Inc/Dec of Cash	-7,892	5,845	8	473	1,853	2,844	6,307	8,289	6,662
Opening Balance	9,955	2,063	1,262	1,193	1,589	1,446	2,289	10,922	19,211
Closing Balance	2,063	7,908	7,809	3,993	5,768	6,616	10,922	21,538	28,200

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

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

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

Motilal Oswal Financial Services Ltd. (MOFSL) is a SEBI Registered Research Analyst having registration no. INH000000412. MOFSL, the Research Entity (RE) as defined in the Regulations, is engaged in the business of providing Stock broking services, Investment Advisory Services, Depository participant services & distribution of various financial products. MOFSL is a subsidiary company of Passionate Investment Management Pvt. Ltd.. (PIMPL). MOFSL is a listed public company, the details in respect of which are available on www.motilaloswal.com. MOFSL (erstwhile Motilal Oswal Securities Limited - 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 //galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx

A graph of daily closing prices of securities is available at www.nseindia.com. Research Analyst views on Subject Company may vary based on Fundamental research and Technical Research. Proprietary trading desk of MOFSL or its associates maintains arm's length distance with Research Team as all the activities are segregated from MOFSL research activity and therefore it can have an independent view with regards to Subject Company for which Research Team have expressed their views.

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

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

- 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.
- MOFSL, Research Analyst and/or his relatives do not have actual/beneficial ownership of 1% or more securities in the subject company MOFSL, Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months
- 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 received compensation for 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
- MOFSL has not received any compensation or other benefits from third party in connection with the research report
- MOFSL has not engaged in market making activity for the subject company

8 August 2020

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.: INP000000670); PMS and Mutual Funds are offered through MOAMC which is 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.