

Granules India

Buy

Estimate change	1
TP change	1
Rating change	\leftarrow

Bloomberg	GRAN IN
Equity Shares (m)	229
M.Cap.(INRb)/(USDb)	74.9 / 0.9
52-Week Range (INR)	383 / 227
1, 6, 12 Rel. Per (%)	0/-4/-26
12M Avg Val (INR M)	542

Financials & Valuations (INR b)

Y/E MARCH	FY22	FY23E	FY24E
Sales	37.5	43.2	48.7
EBITDA	7.0	9.1	10.4
Adj. PAT	4.0	5.5	6.6
EBIT Margin (%)	14.6	16.9	17.4
Cons. Adj. EPS (INR)	16.1	22.3	26.5
EPS Gr. (%)	-27.6	37.9	19.0
BV/Sh. (INR)	104.3	125.4	150.7
Ratios			
Net D:E	0.4	0.3	0.2
RoE (%)	16.8	19.4	19.2
RoCE (%)	12.6	14.8	15.5
Payout (%)	7.0	5.3	4.4
Valuations			
P/E (x)	18.7	13.5	11.4
EV/EBITDA (x)	10.8	8.2	7.0
Div. Yield (%)	0.3	0.3	0.3
FCF Yield (%)	-0.9	2.3	2.5
EV/Sales (x)	2.0	1.7	1.5

Shareholding pattern (%)

As On	Jun-22	Mar-22	Jun-21
Promoter	42.0	42.0	42.0
DII	3.0	4.0	2.9
FII	23.1	23.2	18.4
Others	31.9	30.9	36.8

FII Includes depository receipts

Ease of cost factors to drive a better outlook

Exploring biotechnology as a new area of growth

CMP: INR302

GRAN delivered a better than expected 1QFY23 performance, led by better operating leverage. It intends to add biotechnology as a new lever of growth. Likewise, it has acquired a small biotech company, which adds fermentation-based capabilities.

TP: INR370 (+23%)

- We raise our FY23/FY24 EPS estimate by 8% each, factoring in: a) reducing cost pressures in terms of raw materials as well as logistics cost, b) improvement in the availability of key raw materials for Paracetamol, and c) improving operational cost for the ANDA-related business. We continue to value GRAN 13x 12M forward earnings to arrive at our TP of INR370.
- We remain positive on GRAN on account of: a) its differentiated technologies for manufacturing, b) its robust ANDA pipeline, and c) easing of cost pressures in core molecules. We maintain our Buy rating.

Higher RM cost and other expenses drag profitability on a YoY basis

- Sales grew 20% YoY to INR10.2b (est. INR10.6b).
- Formulation (FDF) sales grew 21% YoY to INR5.5b (54% of sales). Intermediates (PFI) sales rose 38% YoY to INR2.4b (23% of sales). API sales grew 5% YoY to INR2.3b (23% of sales).
- Gross margin contracted by 460bp YoY to 49.6%, largely due to a change in the segmental mix.
- EBITDA margin contracted at a lower rate of 300bp YoY to 20.7% (est. 18.5%) due to better operating leverage. Employee cost/other expenses fell 60bp/110bp YoY as a percentage of sales.
- EBITDA rose 5% YoY to INR2.1b (est. INR2b) in 1QFY23.
- Adjusted PAT grew 6% YoY to INR1.3b (est. INR1.2b).

Highlights from the management commentary

- Prices of inputs and freight rate are softening. This downtrend is expected to continue, driving better profitability to some extent over coming quarters.
- The supply situation of a key raw material for Paracetamol has improved, with the Chinese manufacturer resuming operations. Also, a few Indian suppliers are being evaluated.
- The purchase of the biotechnology asset for INR200m will add fermentation to the company's capabilities. GRAN intends to spend INR750m over the next 12 months on this space.
- The management intends to launch two-to-three ANDAs in FY23.
- It has guided at a capex of INR3b for FY23.

MOTILAL OSWAL

Quarterly Performance												(INR m)
Y/E March		FY2	2E			FY2	3E		FY22	FY23E	FY23E	Var.
(Consolidated)	1Q	2Q	3Q	4Q	1Q	2QE	3QE	4QE			1QE	vs Est
Net Sales	8,498	8,883	9,795	10,300	10,196	10,922	10,750	11,305	37,477	43,172	10,580	-3.6%
YoY Change (%)	15.5	3.5	16.0	28.9	20.0	23.0	9.7	9.8	15.8	15.2	24.5	
EBITDA	2,014	1,512	1,565	1,927	2,115	2,239	2,279	2,476	7,050	9,109	1,957	8.1%
YoY Change (%)	1.4	-39.3	-29.3	-4.6	5.0	48.1	45.6	28.5	-19.1	29.2	-2.8	
Margins (%)	23.7	17.0	16.0	18.7	20.7	20.5	21.2	21.9	18.8	21.1	18.5	
Depreciation	394	398	392	402	434	440	465	460	1,586	1,799	415	
EBIT	1,620	1,113	1,173	1,525	1,682	1,799	1,814	2,016	5,464	7,310	1,542	9.0%
YoY Change (%)	-1.6	-47.7	-36.4	-3.2	3.8	61.6	54.7	32.2	-24.1	33.8	-4.8	
Margins (%)	19.1	12.5	12.0	14.8	16.5	16.5	16.9	17.8	14.6	16.9	14.6	
Interest	68	55	46	64	69	80	90	98	232	337	69	
Other Income	76	44	49	40	47	55	60	76	176	237	42	
PBT before EO expense	1,629	1,102	1,175	1,501	1,659	1,774	1,784	1,994	5,407	7,211	1,515	9.5%
Extra-Ord expense	0	0	-173	0	0	0	0	0	-173	0	0	
PBT	1,629	1,102	1,348	1,501	1,659	1,774	1,784	1,994	5,580	7,211	1,515	
Tax	427	296	339	391	383	417	419	477	1,452	1,695	356	
Rate (%)	26.2	26.8	25.2	26.1	23.1	23.5	23.5	23.9	26.0	23.5	23.5	
(Profit)/Loss of JV/Asso. Cos.	0	0	0	0	0	0	0	0	0	0	1	
Reported PAT	1,202	807	1,009	1,110	1,276	1,357	1,365	1,517	4,128	5,516	1,158	10.2%
Adjusted PAT	1,202	807	880	1,110	1,276	1,357	1,365	1,517	4,000	5,516	1,160	10.0%
YoY Change (%)	-2.1	-48.9	-38.9	-13.0	6.1	68.2	55.1	36.6	-27.6	37.9	-3.5	
Margins (%)	14.1	9.1	9.0	10.8	12.5	12.4	12.7	13.4	10.7	12.8	11.0	

Key performance Indicators (Consolidated)

Y/E March		FY22	2E			FY23	BE		FY22	FY23E	FY23E
	1Q	2Q	3Q	4Q	1Q	2QE	3QE	4QE			1QE
FD	4,545	5,066	4,577	5,254	5,487	5,674	5,401	5,403	19,442	21,965	5,545
YoY Change (%)	17.9	17.8	8.4	14.0	20.7	12.0	18.0	2.8	14.4	13.0	9.5
PFI	1,716	1,912	2,259	2,568	2,368	2,581	2,530	2,668	8,456	10,147	2,574
YoY Change (%)	24.4	10.5	32.4	78.3	38.0	35.0	12.0	3.9	35.0	20.0	34.6
API	2,237	1,905	3,132	2,478	2,341	2,667	2,819	3,192	9,751	11,019	2,461
YoY Change (%)	5.5	-25.3	24.4	27.7	4.6	40.0	-10.0	28.8	7.3	13.0	29.2
Cost Break-up											
RM Cost (% of Sales)	45.8	49.1	54.3	51.1	50.4	50.2	49.8	48.9	49.7	50.2	50.5
Staff Cost (% of Sales)	11.2	10.4	10.8	10.5	10.7	10.5	10.0	10.8	10.7	10.5	10.6
Other Cost (% of Sales)	19.3	23.4	19.0	19.7	18.2	18.8	19.0	18.4	20.2	18.6	20.4
Gross Margins(%)	54.2	50.9	45.7	48.9	49.6	49.8	50.2	51.1	50.3	49.8	49.5
EBITDA Margins(%)	23.7	17.0	16.0	18.7	20.7	20.5	21.2	21.9	18.8	21.1	18.5
EBIT Margins(%)	19.1	12.5	12.0	14.8	16.5	16.5	16.9	17.8	14.6	16.9	14.6



Conference call highlights

- GRAN net debt stands at INR6.1b at the end of 1QFY23.
- GRAN has participated in PLI scheme to secure the supply of DCDA (key raw material for Metformin). It would be spending INR1b as capex for this scheme
- The growth in EU market would be also driven by partnership model.
- The cash-to-cash cycle has increased by 6 days QoQ to 144, due to planned increase in inventory and restatement of trade receivables.
- GRAN generated free cash flow of INR980m in 1QFY23

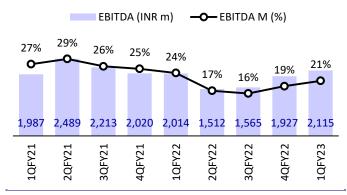
8 February 2022 2

Key exhibits

Exhibit 1: Revenue grows 20% YoY in 1QFY23

Revenue (INR b) **─**─% YoY growth 33 29 8.9 24 23 20 20 0 16 16 7.4 8.6 8.4 8.0 8.5 9.8 10.3 10.2 1QFY21 3QFY21 1QFY22 4QFY21 4QFY22 1QFY23 2QFY21 3QFY22

Exhibit 2: EBITDA margin on an improvement trend



Source: MOFSL, Company Source: MOFSL, Company

Margin pressures easing

Core molecules forms robust base and drive growth over medium term

- GRAN garnered 19% YoY growth in core molecules, with Paracetamol (47% of core molecules sales) growing by 27% YoY for the quarter. The ease of availability of raw material has led to revival of Paracetamol. Interestingly, there has been considerable ramp-up in Guaifenisin (~4x YoY).
- GRAN delivered 11%/16% YoY growth in sales of Metformin/Methocarbamol for the quarter.

Work in progress for scaling ANDAs/Non-US business

- GRAN's finished dosage (formulations) business continues its strong growth trajectory growing 21% YoY contributing 54% share of the overall revenues for 1QFY23. The contribution of FD has improved from 40% to 54% in last 5 years.
- Going forward the oral solid formulation is expected to be the key growth driver. GRAN is targeting market share gains in core molecules, strong ANDA pipeline comprising differentiated manufacturing process and geographic expansion beyond US.

28% earnings CAGR and attractive valuation provides impetus for Buy

- We expect 28% earnings CAGR over FY22-24, driven by 17%/16%/13% sales CAGR in PFI/FDF/API segments. Also, the ease of cost pressures in terms of raw material as well as logistics cost would also support improvement in profitability over next 2-3 years.
- We raise our EPS estimate by 8% each for FY23/FY24 factoring a) reducing cost pressures in terms of raw materials as well as logistics cost, b) improvement in availability of Key raw materials for Paracetamol and c) improving operational cost of ANDA related business. We continue to value GRAN 13x 12M forward earnings to arrive at price target of INR370.
- We remain positive on GRAN on the back of addition of a) differentiated technologies for manufacturing, b) robust ANDA pipeline, and c) easing of cost pressures on the core molecules. Maintain BUY.

Exhibit 3: P/E chart

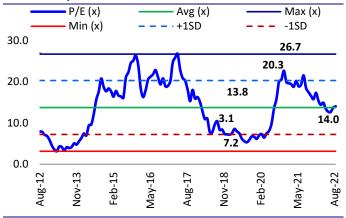
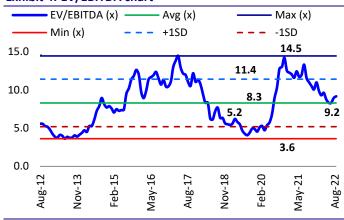


Exhibit 4: EV/EBITDA chart

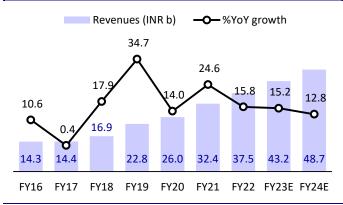


Source: MOFSL, Company, Bloomberg

Source: MOFSL, Company, Bloomberg

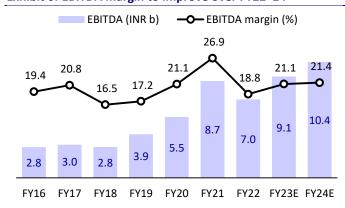
Story in charts

Exhibit 5: Expect revenue CAGR of 14% over FY22-24



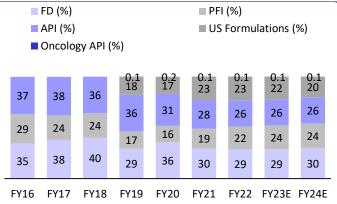
Source: MOFSL, Company

Exhibit 6: EBITDA margin to improve over FY22-24



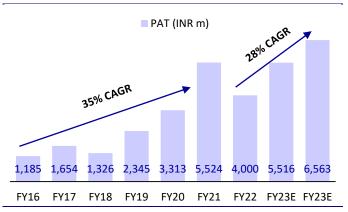
Source: MOFSL, Company

Exhibit 7: Formulations' contribution to remain the highest



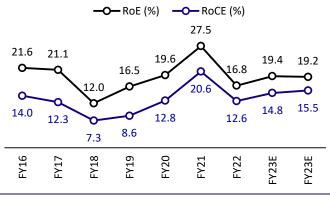
Source: MOFSL, Company

Exhibit 8: PAT to exhibit 28% CAGR over FY22-24



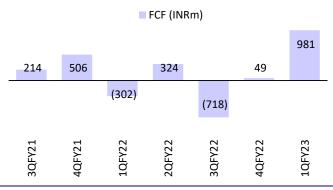
Source: MOFSL, Company

Exhibit 9: Return ratios to improve slightly over FY22-24



Source: MOFSL, Company

Exhibit 10: FCF at ~INR1b in 1QFY23



Source: MOFSL, Company

Financials and valuations

Y/E March	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
Total Income from Operations	12,929	14,295	14,353	16,918	22,792	25,986	32,375	37,477	43,172	48,702
Change (%)	18.0	10.6	0.4	17.9	34.7	14.0	24.6	15.8	15.2	12.8
Total Expenditure	10,843	11,528	11,364	14,134	18,872	20,513	23,665	30,427	34,063	38,280
% of Sales	83.9	80.6	79.2	83.5	82.8	78.9	73.1	81.2	78.9	78.6
EBITDA	2,086	2,767	2,988	2,784	3,920	5,473	8,710	7,050	9,109	10,422
Margin (%)	16.1	19.4	20.8	16.5	17.2	21.1	26.9	18.8	21.1	21.4
Depreciation	527	643	715	762	1,055	1,370	1,515	1,586	1,799	1,934
EBIT	1,560	2,124	2,273	2,022	2,866	4,104	7,195	5,464	7,310	8,488
Int. and Finance Charges	323	399	323	331	285	270	263	232	337	311
Other Income	43	77	99	108	267	366	152	176	237	292
PBT bef. EO Exp.	1,280	1,802	2,050	1,800	2,848	4,199	7,085	5,407	7,211	8,469
EO Items	0	0	0	0	-80	57	-40	173	0	0
PBT after EO Exp.	1,280	1,802	2,050	1,800	2,768	4,257	7,045	5,580	7,211	8,469
Current Tax	287	535	652	659	891	1,257	1,954	1,382	1,695	1,906
Deferred Tax	83	82	-9	-25	72	-100	-405	70	0	0
Tax Rate (%)	29.0	34.2	31.4	35.2	34.8	27.2	22.0	26.0	23.5	22.5
Add: Associate income	0	0	247	160	487	255	0	0	0	0
Reported PAT	909	1,185	1,654	1,326	2,292	3,354	5,496	4,128	5,516	6,563
Adjusted PAT	909	1,185	1,654	1,326	2,345	3,313	5,524	4,000	5,516	6,563
Change (%)	20.8	30.3	39.6	-19.8	76.8	41.3	66.8	-27.6	37.9	19.0
Margin (%)	7.0	8.3	11.5	7.8	10.3	12.7	17.1	10.6	12.7	13.4

Consolidated - Balance Sheet										(INR m)
Y/E March	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
Equity Share Capital	204	217	229	254	254	254	248	248	248	248
Total Reserves	4,107	6,444	8,807	12,788	15,040	18,183	21,485	25,617	30,843	37,117
Net Worth	4,312	6,660	9,036	13,042	15,295	18,437	21,733	25,865	31,091	37,365
Minority Interest	0	0	0	0	0	0	0	6	6	6
Deferred Liabilities	549	646	565	543	655	482	11	139	139	139
Total Loans	4,872	4,767	5,981	9,582	9,330	7,932	7,504	10,928	10,130	9,333
Capital Employed	9,732	12,074	15,582	23,167	25,279	26,851	29,248	36,938	41,366	46,842
Gross Block	8,438	9,622	10,099	14,430	16,639	21,442	22,220	25,355	27,555	31,055
Less: Accum. Deprn.	2,272	2,941	3,656	4,418	5,473	6,842	8,357	9,943	11,742	13,676
Net Fixed Assets	6,166	6,681	6,443	10,012	11,167	14,600	13,863	15,412	15,813	17,379
Capital WIP	620	766	2,605	2,901	3,235	1,481	1,848	3,562	4,317	4,870
Total Investments	2	2	1,082	1,566	2,104	193	190	197	197	197
Curr. Assets, Loans&Adv.	5,184	7,080	8,633	11,891	13,279	15,957	21,226	25,945	28,465	32,404
Inventory	2,245	3,071	2,761	2,799	3,842	4,384	7,822	9,786	7,466	8,390
Account Receivables	1,326	1,526	4,177	6,171	6,735	6,620	7,654	9,250	13,247	15,211
Cash and Bank Balance	653	1,419	498	1,156	890	2,839	2,710	4,095	4,509	5,144
Loans and Advances	959	1,065	1,198	1,765	1,811	2,113	3,040	2,815	3,243	3,658
Curr. Liability & Prov.	2,295	2,521	3,183	3,272	4,548	5,432	7,887	8,191	7,439	8,020
Account Payables	1,887	1,791	2,160	2,522	3,235	3,569	5,410	6,386	5,599	5,978
Other Current Liabilities	233	608	934	646	1,144	1,589	2,160	1,294	1,490	1,681
Provisions	175	122	89	104	169	275	317	511	349	361
Net Current Assets	2,888	4,559	5,451	8,620	8,731	10,525	13,340	17,753	21,026	24,383
Appl. of Funds	9,732	12,074	15,582	23,167	25,279	26,852	29,247	36,938	41,366	46,842

Financials and valuations

Ratios										
Y/E March	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
EPS	3.7	4.8	6.7	5.4	9.5	13.4	22.3	16.1	22.3	26.5
Cash EPS	7.0	8.4	10.4	8.2	13.4	18.4	28.4	22.5	29.5	34.3
BV/Share	21.1	30.7	39.5	51.4	60.2	72.5	87.7	104.3	125.4	150.7
DPS	0.5	0.9	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Payout (%)	13.6	19.8	13.5	21.9	13.4	8.9	5.3	7.0	5.3	4.4
Valuation (x)										
P/E	82.2	63.1	45.2	56.3	31.9	22.6	13.5	18.7	13.5	11.4
Cash P/E	42.9	35.8	29.1	36.7	22.6	16.4	10.6	13.4	10.2	8.8
P/BV	14.3	9.8	7.6	5.9	5.0	4.2	3.4	2.9	2.4	2.0
EV/Sales	5.7	5.1	5.2	4.6	3.4	2.9	2.3	2.0	1.7	1.5
EV/EBITDA	35.1	26.1	24.9	27.8	19.7	13.5	8.5	10.8	8.2	7.0
Dividend Yield (%)	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Return Ratios (%)										
RoE	23.1	21.6	21.1	12.0	16.5	19.6	27.5	16.8	19.4	19.2
RoCE	13.3	14.0	12.3	7.3	8.6	12.8	20.6	12.6	14.8	15.5
RoIC	14.6	15.2	14.7	9.1	10.2	14.4	24.0	15.1	18.2	19.1
Working Capital Ratios										
Asset Turnover (x)	1.3	1.2	0.9	0.7	0.9	1.0	1.1	1.0	1.0	1.0
Inventory (Days)	56	68	74	60	53	58	69	86	73	59
Debtor (Days)	33	36	71	111	103	94	80	82	95	107
Creditor (Days)	55	58	63	60	56	61	69	71	64	55
Leverage Ratio (x)										
Current Ratio	2.3	2.8	2.7	3.6	2.9	2.9	2.7	3.2	3.8	4.0
Interest Cover Ratio	5	5	7	6	10	15	27	24	22	27
Debt/Equity	1.1	0.7	0.7	0.7	0.6	0.4	0.3	0.4	0.3	0.2

Source: MOFSL, Company

Consolidated Cash flow statement										
Y/E March	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
OP/(Loss) before Tax	1,280	1,801	2,050	1,800	2,848	4,256	7,044	5,580	7,211	8,469
Depreciation	527	643	715	762	1,055	1,370	1,515	1,586	1,799	1,934
Interest & Finance Charges	309	347	278	222	18	207	139	232	99	19
Direct Taxes Paid	-317	-490	-595	-634	-891	-1,191	-1,914	-1,450	-1,695	-1,906
(Inc)/Dec in WC	-363	-915	-524	-2,511	-377	128	-2,749	-2,572	-2,858	-2,722
CF from Operations	1,435	1,387	1,925	-360	2,652	4,769	4,034	3,376	4,557	5,795
Others	18	51	-42	0	0	-7	291	-56	0	0
CF from Operating incl EO	1,453	1,438	1,882	-360	2,652	4,762	4,325	3,321	4,557	5,795
(inc)/dec in FA	-1,473	-1,335	-3,157	-4,626	-2,544	-1,843	-2,710	-3,967	-2,955	-4,053
(Pur)/Sale of Investments	0	0	0	-483	-539	0	-2	0	0	0
Others	17	53	-205	108	267	237	-59	166	237	292
CF from Investments	-1,456	-1,281	-3,362	-5,001	-2,816	-1,606	-2,771	-3,801	-2,717	-3,761
Issue of Shares	11	1,059	829	2,970	195	0	41	37	0	0
(Inc)/Dec in Debt	628	191	272	3,602	-252	-1,534	-719	2,530	-798	-797
Interest Paid	-319	-406	-319	-331	-285	-266	-263	-242	-337	-311
Dividend Paid	-83	-234	-223	-290	-306	-307	-247	-372	-290	-290
Others	0	0	0	68	547	-22	-1,805	-54	0	0
CF from Fin. Activity	238	609	559	6,019	-102	-2,129	-2,993	1,900	-1,425	-1,399
Inc/Dec of Cash	236	766	-921	658	-266	1,027	-1,440	1,419	414	635
Opening Balance	417	653	1,419	498	1,156	890	2,839	2,711	4,095	4,509
FX	0	0	0	0	-30	921	1,312	-35	0	0
Other than bank balance	0	0	0	0	0	0	0	0	0	0
Closing Balance	653	1,419	498	1,156	891	2,839	2,711	4,095	4,509	5,144

Source: MOFSL, Company

NOTES

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 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

- 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

10 August 2022

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.