

# **Granules India**

# Estimate change TP change Rating change

Diagonalagua	CDANIAN
Bloomberg	GRAN IN
Equity Shares (m)	243
M.Cap.(INRb)/(USDb)	110.4 / 1.3
52-Week Range (INR)	725 / 412
1, 6, 12 Rel. Per (%)	0/-22/-35
12M Avg Val (INR M)	1232

#### Financials & Valuations (INR b)

Tillalicials & Valuatio	יוויון כוול		
Y/E MARCH	FY25	FY26E	FY27E
Sales	44.8	49.9	58.0
EBITDA	9.5	10.7	13.3
Adj. PAT	4.8	5.6	7.5
EBIT Margin (%)	16.1	16.1	18.2
Cons. Adj. EPS (INR)	19.7	23.0	30.7
EPS Gr. (%)	13.6	16.7	33.7
BV/Sh. (INR)	153.2	174.0	203.5
Ratios			
Net D:E	0.4	0.3	0.3
RoE (%)	13.8	14.1	16.3
RoCE (%)	11.5	11.9	13.9
Payout (%)	5.7	5.3	3.8
Valuations			
P/E (x)	23.1	19.8	14.8
EV/EBITDA (x)	18.4	16.5	13.2
Div. Yield (%)	0.2	0.2	0.2
FCF Yield (%)	1.0	-0.1	0.7
EV/Sales (x)	3.9	3.5	3.0

#### **Shareholding Pattern (%)**

Jun-25	Mar-25	Jun-24
38.8	38.8	38.9
23.5	22.4	14.1
13.2	15.2	20.4
24.4	23.6	26.6
	38.8 23.5 13.2	38.8 38.8 23.5 22.4 13.2 15.2

FII includes depository receipts

# CMP: INR455 TP: INR530 (+16%) Buy PFI drives growth, FDF sales stable

#### Work-in-progress to build niche portfolio/resolve regulatory issues

- Granules India (GRAN) delivered in-line revenue/PAT in 1QFY26, though there was a slight miss on EBITDA, largely due to higher operational costs and consolidation of Senn Chemicals during the quarter.
- North America remained the highest growth market for GRAN. It is adding differentiated products to its portfolio – large volume products in CNS/ADHD therapy, controlled substances, peptides, as well as MUPS-based products.
- It has added a healthy number of products to its EU portfolio to revive growth in this segment. Some part of the growth is reflected in 1QFY26 performance.
- We reduce our earnings estimates by 5%/2% for FY26/FY27, factoring in a) increased timeline for approvals from Gagilapur facility, and b) a reduction in sales to ROW markets due to PFI supply backlog. We value GRAN at 18x 12M forward earnings to arrive at a TP of INR530.
- While it is addressing the compliance aspect at Gagilapur site in a comprehensive manner, it is implementing efforts for adding differentiated products to its portfolio to improve growth prospects. The projects are under various stages from product development to adding/modifying commercial manufacturing capabilities/capacities. We expect 14%/19%/24% revenue/EBITDA/PAT CAGR during FY25-27. Maintain BUY.

#### Segmental mix more than offset by higher opex on YoY basis

- GRAN's 1QFY26 sales grew 2.6% YoY to INR12b (our est. of INR11.9b), led by increased sales in North America.
- FDF sales were steady YoY at INR9b (74% of sales). Intermediate (PFI) sales grew 20% YoY to INR1.2b (10% of sales). API sales declined 14% YoY to INR1.6b (14% of sales).
- Gross margin (GM) expanded 600bp YoY to 64.9% due to a change in the segmental mix and lower RM costs.
- However, EBITDA margin dipped 160bp YoY to 20.4% (our est. of 21.9%) due to higher employee costs/other expenses (up 290bp/460bp as % of sales) as a result of consolidation with Senn Chemicals AG.
- EBITDA declined 4.8% YoY to INR2.5b (our est. of INR2.6b) for the quarter.
- During the quarter, GRAN incurred a) transaction cost related to the acquisition of Senn Chemicals AG (INR120m) and b) costs related to ongoing litigation.
- Adjusted PAT was flat YoY at INR1.3b (our estimate: INR1.33b).

#### Highlights from the management commentary

- GRAN expects FY27 to be a much better year for revenue growth vs. FY26.
- The company has acquired a business at EV of INR4.5b, with investment of INR1b in a Swiss facility and INR200-300m in R&D in FY26. FY27 capex will likely be for manufacturing capacity expansion.

Tushar Manudhane - Research Analyst (Tushar.Manudhane@MotilalOswal.com)

Eshita Jain - Research Analyst (Eshita Jain @MotilalOswal.com)



- GRAN continues to gradually increase capacity in Europe, with more product approvals expected to improve the growth trajectory.
- Net debt as of 1QFY26 end was INR9.5b, up INR2.5b QoQ. The cash conversion cycle also inched up to 205 in 1QFY26 vs. 202 in 4QFY25.
- Senn Chemicals revenue for 1QFY26 was INR290m.
- GRAN is in early clinical trial stages for most CDMO molecules and is focusing on the execution of ongoing and new projects.

<b>Quarterly Performance</b>											(	INR m)
Y/E March		FY	25			FY2	6E		FY25	FY26E	FY26E	Var.
(Consolidated)	1Q	2Q	3Q	4Q	1Q	2QE	3QE	4QE			1QE	vs Est
Net Sales	11,799	9,666	11,377	11,974	12,101	11,843	12,321	13,630	44,816	49,895	11,927	1.5
YoY Change (%)	19.7	-18.7	-1.5	1.8	2.6	22.5	8.3	13.8	-0.5	11.3	1.1	
Total Expenditure	9,206	7,633	9,074	9,451	9,634	9,273	9,685	10,631	35,364	39,222	9,315	
EBITDA	2,593	2,033	2,303	2,524	2,467	2,570	2,637	2,999	9,452	10,672	2,612	-5.5
YoY Change (%)	64.2	-4.5	-8.1	-1.3	-4.8	26.4	14.5	18.8	7.8	12.9	0.7	
Margins (%)	22.0	21.0	20.2	21.1	20.4	21.7	21.4	22.0	21.1	21.4	21.9	
Depreciation	529	525	566	635	688	618	643	711	2,255	2,660	622	
EBIT	2,064	1,508	1,737	1,889	1,779	1,952	1,994	2,288	7,197	8,012	1,990	-10.6
YoY Change (%)	90.0	-6.0	-12.3	-6.7	-13.8	29.4	14.8	21.1	7.5	11.3	-3.6	
Margins (%)	17.5	15.6	15.3	15.8	14.7	16.5	16.2	16.8	16.1	16.1	16.7	
Interest	270	257	266	240	238	283	283	283	1,032	1,087	283	
Other Income	21	32	57	19	163	30	31	34	129	258	30	
PBT before EO expense	1,814	1,284	1,528	1,668	1,704	1,699	1,742	2,039	6,294	7,183	1,736	-1.8
Extra-Ord expense	0	0	0	-308	259	0	0	0	-308	259	0	
PBT	1,814	1,284	1,528	1,976	1,445	1,699	1,742	2,039	6,601	6,924	1,736	-16.8
Tax	468	311	352	455	319	377	390	463	1,587	1,549	399	
Rate (%)	25.8	24.3	23.0	23.0	22.1	22.2	22.4	22.7	24.0	22.4	23.0	
(Profit)/Loss of JV/Asso. Cos.	0	0	0	0	0	0	0	0	0	0	0	
Reported PAT	1,346	972	1,176	1,520	1,126	1,322	1,352	1,576	5,015	5,375	1,337	-15.8
Adjusted PAT	1,346	972	1,176	1,284	1,328	1,322	1,352	1,576	4,778	5,577	1,337	-0.6
YoY Change (%)	112.7	-4.8	-6.4	-1.0	-1.4	35.9	14.9	22.8	13.6	16.7	-0.7	
Margins (%)	11.4	10.1	10.3	10.7	11.0	11.2	11.0	11.6	10.7	11.2	11.2	
EPS	6	4	5	5	5	5	6	7	20	23	6	-0.6

E: MOFSL Estimates

**Key performance Indicators (Consolidated)** 

Y/E March		FY25				FY2	6E	FY25	FY26E	FY26E	
	1Q	2Q	3Q	4Q	1Q	2QE	3QE	4QE			1QE
FD	8,912	7,490	8,674	9,259	8,989	9,213	9,541	10,648	34,335	38,391	9,268
YoY Change (%)	64.4	1.6	13.7	7.1	0.9	23.0	10.0	15.0	18.0	11.8	4.0
PFI	997	756	1,309	1,232	1,194	1,096	1,178	1,232	4,294	4,700	499
YoY Change (%)	-32.6	-47.0	-24.5	-16.9	19.8	45.0	-10.0	0.0	-29.7	9.5	-50.0
API	1,890	1,420	1,393	1,483	1,627	1,534	1,602	1,750	6,186	6,512	1,418
YoY Change (%)	-36.1	-52.2	-36.6	-9.2	-13.9	8.0	15.0	18.0	-37.0	5.3	-25.0
Cost Break-up											
RM Cost (% of Sales)	41.1	38.0	38.3	36.6	35.1	36.7	36.8	37.0	61.5	63.6	38.4
Staff Cost (% of Sales)	13.9	16.5	14.7	14.1	16.8	14.6	14.8	14.0	14.7	15.0	15.4
Other Cost (% of Sales)	23.1	24.5	26.7	28.2	27.7	27.0	27.0	27.0	25.7	27.2	23.7
Gross Margins (%)	58.9	62.0	61.7	63.4	64.9	63.3	63.2	63.0	38.5	36.4	61.6
EBITDA Margins (%)	22.0	21.0	20.2	21.1	20.4	21.7	21.4	22.0	21.1	21.4	22.5
EBIT Margins (%)	17.5	15.6	15.3	15.8	14.7	16.5	16.2	16.8	16.1	16.1	17.7

E: MOFSL Estimates





#### **Conference call highlights**

- GRAN has six product launches lined up for Europe in the coming quarters.
   Peptides R&D facility is positioned to be a cost-efficient alternative to China.
- GRAN's CDMO market opportunity is estimated at INR16-20b. API growth is modest and not a core focus.
- The company spent INR800m on remediation and INR510m on infrastructure and improvement capex related to facility upgrades.
- Its manpower cost rose due to Senn Chem AG acquisition; expected to stabilize.
   ROCE dipped to 16% due to the acquisition and a long gestation period.
- GRAN targets full peptide ramp-up by 1QFY27 and is also setting up R&D facilities in India for cosmetic industry applications.

### **Key exhibits**

Exhibit 1: Revenue grew 3% YoY in 1QFY26

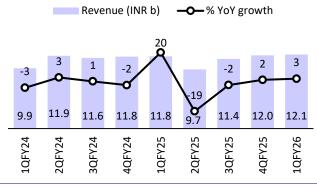
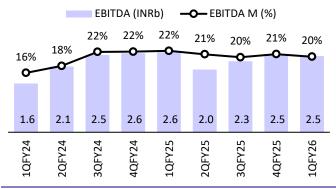


Exhibit 2: EBITDA margin contracted 160bp YoY in 1QFY26



Source: MOFSL, Company

Source: MOFSL, Company

# Broader portfolio, peptide expansion, and strong compliance initiatives to drive revival

#### Boost the non-legacy mix and scale up development work on peptides

- GRAN has implemented efforts to diversify its offerings, with non-legacy portfolio share increasing to ~38% in the past 12 months from 16% in FY23.
- Specifically, the FDF share in 1QFY26 revenue was 74%, driven by the addition of large-volume products in CNS/ADHD therapies and expanding OTC presence.
- GRAN has also expanded its work on controlled substances and MUPS-based products to further reduce the concentration of legacy products.
- GRAN is also working on new technology-based products. Specifically, GRAN's team developed a product using in-house enzyme, which has been successfully scaled up and validated.
- Notably, it has fast-tracked its business scope in the peptide space through the acquisition of Senn Chemicals. Its six-decade legacy in solid-phase and liquid phase peptide synthesis and its relationship with innovators should scale up GRAN's prospects in peptide space.
- With expanding offerings and enhancing manufacturing capacity, we expect 15% sales CAGR in FDF segment over FY25-27.



#### Compliance progress and global pipeline to aid growth revival

- After filing 85 products for the US market till FY25, GRAN's cumulative filing remained stable in 1QFY26.
- While GRAN has implemented comprehensive compliance measures at Gagillapur site to resolve a warning letter, the product development work continues to build a potential pipeline.
- In addition, it has a GPI facility in US with products filed and awaiting approvals. These products are in CNS/ADHD therapies. Notably, the GPI R&D (US) supports GRAN on complex finished dosage development.
- The pace of filing has increased in Europe with cumulative 18 filings to date. While EU sales witnessed significant deceleration in FY25, GRAN is reviving sales of this segment through new launches as partly reflected in 1QFY26 performance.

#### **Reiterate BUY**

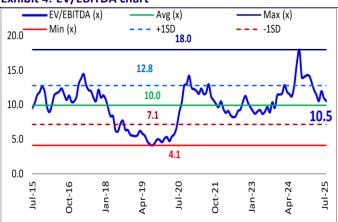
- We reduce our earnings estimates by 5%/2% for FY26/FY27, factoring in a) increased timeline for approvals from Gagilapur facility, and b) a reduction in sales to ROW markets due to PFI supply backlog. We value GRAN at 18x 12M forward earnings to arrive at a TP of INR530.
- While it is addressing the compliance aspect at Gagilapur site in a comprehensive manner, it is implementing efforts for adding differentiated products to its portfolio to improve growth prospects. The projects are under various stages, from product development to adding/modifying commercial manufacturing capabilities/capacities. We expect a CAGR of 14%/19%/24% in revenue/EBITDA/PAT during FY25-27. Maintain BUY.

Exhibit 3: P/E chart



Source: MOFSL, Company, Bloomberg

**Exhibit 4: EV/EBITDA chart** 



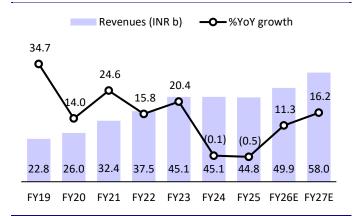
Source: MOFSL, Company, Bloomberg

13 August 2025



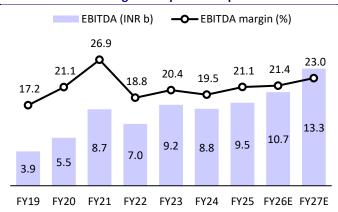
## **Story in charts**

Exhibit 5: Expect a revenue CAGR of ~14% over FY25-27



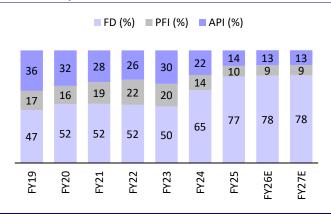
Source: MOFSL, Company

Exhibit 6: EBITDA margin to expand 190bp over FY25-27



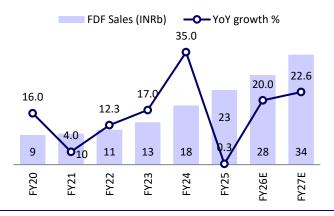
Source: MOFSL, Company

Exhibit 7: Expect FD to further increase to 78% in FY26E



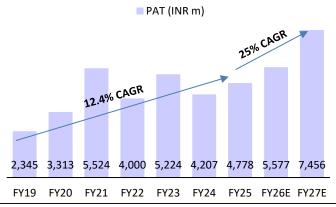
Source: MOFSL, Company

Exhibit 8: FDF sales to clock 21% CAGR over FY25-27



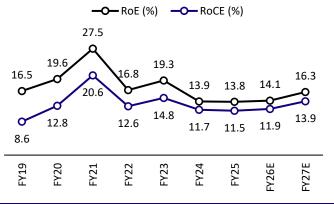
Source: MOFSL, Company

Exhibit 9: PAT to exhibit a 25% CAGR over FY25-27



Source: MOFSL, Company

Exhibit 10: Return ratios in an uptrend over FY25-27



Source: MOFSL, Company



# **Financials and valuations**

Consolidated - Income Statement									INRm
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26E	FY27E
Total Income from Operations	22,792	25,986	32,375	37,477	45,119	45,063	44,816	49,895	57,983
Change (%)	34.7	14.0	24.6	15.8	20.4	-0.1	-0.5	11.3	16.2
Total Expenditure	18,872	20,513	23,665	30,427	35,901	36,293	35,364	39,222	44,647
% of Sales	82.8	78.9	73.1	81.2	79.6	80.5	78.9	78.6	77.0
EBITDA	3,920	5,473	8,710	7,050	9,218	8,770	9,452	10,672	13,336
Margin (%)	17.2	21.1	26.9	18.8	20.4	19.5	21.1	21.4	23.0
Depreciation	1,055	1,370	1,515	1,586	1,845	2,073	2,255	2,660	2,772
EBIT	2,866	4,104	7,195	5,464	7,373	6,697	7,197	8,012	10,564
Int. and Finance Charges	285	270	263	232	559	1,058	1,032	1,087	1,000
Other Income	267	366	152	176	138	44	129	258	145
PBT bef. EO Exp.	2,848	4,199	7,085	5,407	6,952	5,683	6,294	7,183	9,709
EO Items	-80	57	-40	173	-80	-211	308	-259	0
PBT after EO Exp.	2,768	4,257	7,045	5,580	6,872	5,472	6,601	6,924	9,709
Current Tax	891	1,257	1,954	1,382	1,772	1,652	1,828	1,606	2,252
Deferred Tax	72	-100	-405	70	-66	-233	-242	-62	0
Tax Rate (%)	34.8	27.2	22.0	26.0	24.8	25.9	24.0	22.3	23.2
Add: Associate income	487	255	0	0	0	0	0	0	0
Reported PAT	2,292	3,354	5,496	4,128	5,166	4,052	5,015	5,380	7,456
Adjusted PAT	2,345	3,313	5,524	4,000	5,224	4,207	4,778	5,577	7,456
Change (%)	76.8	41.3	66.8	-27.6	30.6	-19.5	13.6	16.7	33.7
Margin (%)	10.2	12.6	17.0	10.6	11.5	9.3	10.6	11.1	12.8

Consolidated - Balance Sheet									INRm
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26E	FY27E
Equity Share Capital	254	254	248	248	242	242	243	243	243
Total Reserves	15,040	18,183	21,485	25,617	28,107	32,013	36,913	41,947	49,120
Net Worth	15,295	18,437	21,733	25,865	28,349	32,255	37,156	42,190	49,363
Minority Interest	0	0	0	6	0	0	0	0	0
Deferred Liabilities	655	482	11	139	77	231	314	314	314
Total Loans	9,330	7,932	7,504	10,928	11,362	13,151	14,548	13,752	12,922
Capital Employed	25,279	26,851	29,248	36,938	39,788	45,637	52,017	56,255	62,598
Gross Block	16,639	21,442	22,220	25,355	30,897	34,817	40,381	46,381	50,881
Less: Accum. Deprn.	5,473	6,842	8,357	9,943	11,788	13,861	16,116	18,776	21,548
Net Fixed Assets	11,167	14,600	13,863	15,412	19,109	20,956	24,265	27,605	29,333
Capital WIP	3,235	1,481	1,848	3,562	2,394	2,717	4,402	4,989	4,639
Total Investments	2,104	193	190	197	361	382	426	426	426
Curr. Assets, Loans&Adv.	13,279	15,957	21,226	25,945	27,168	30,783	32,755	34,127	39,209
Inventory	3,842	4,384	7,822	9,786	11,494	13,005	13,428	14,722	16,513
Account Receivables	6,735	6,620	7,654	9,250	9,485	9,858	9,422	11,073	13,821
Cash and Bank Balance	890	2,839	2,710	4,095	3,128	3,864	5,964	3,945	3,077
Loans and Advances	1,811	2,113	3,040	2,815	3,060	4,056	3,941	4,388	5,798
Curr. Liability & Prov.	4,548	5,432	7,887	8,191	9,258	9,573	10,509	11,570	11,687
Account Payables	3,235	3,569	5,410	6,386	7,821	7,495	7,261	8,274	9,541
Other Current Liabilities	1,144	1,589	2,160	1,294	998	1,580	2,614	2,910	1,739
Provisions	169	275	317	511	439	497	634	386	406
Net Current Assets	8,731	10,525	13,340	17,753	17,910	21,211	22,247	22,557	27,523
Appl. of Funds	25,279	26,852	29,248	36,938	39,788	45,637	52,017	56,255	62,598



## **Financials and valuations**

Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26E	FY27E
EPS	9.7	13.7	22.8	16.5	21.5	17.3	19.7	23.0	30.7
Cash EPS	13.4	18.4	28.4	22.5	29.2	25.9	29.0	34.0	42.2
BV/Share	60.2	72.5	87.7	104.3	117.1	133.1	153.2	174.0	203.5
DPS	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Payout (%)	13.4	8.9	5.3	7.0	5.5	7.0	5.7	5.3	3.8
Valuation (x)									
P/E	47.1	33.3	20.0	27.6	21.1	26.2	23.1	19.8	14.8
Cash P/E	34.0	24.7	16.0	20.2	15.6	17.6	15.7	13.4	10.8
P/BV	7.6	6.3	5.2	4.4	3.9	3.4	3.0	2.6	2.2
EV/Sales	7.6	6.6	5.3	4.6	3.9	3.9	3.9	3.5	3.0
EV/EBITDA	44.4	31.2	19.6	24.5	18.9	20.0	18.4	16.5	13.2
Dividend Yield (%)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Return Ratios (%)									
RoE	16.5	19.6	27.5	16.8	19.3	13.9	13.8	14.1	16.3
RoCE	8.6	12.8	20.6	12.6	14.8	11.7	11.5	11.9	13.9
RoIC	10.2	14.4	24.0	15.1	17.6	13.7	13.7	14.1	16.0
Working Capital Ratios									
Asset Turnover (x)	0.9	1.0	1.1	1.0	1.1	1.0	0.9	0.9	0.9
Inventory (Days)	53	58	69	86	86	99	108	103	98
Debtor (Days)	103	94	80	82	76	78	79	75	78
Creditor (Days)	56	61	69	71	72	77	76	72	73
Leverage Ratio (x)									
Current Ratio	2.9	2.9	2.7	3.2	2.9	3.2	3.1	2.9	3.4
Interest Cover Ratio	10	15	27	24	13	6	7	7	11
Debt/Equity	0.6	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.3
Consolidated - Cash Flow Statement									INRm
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26E	FY27E
OP/(Loss) before Tax	2,848	4,256	7,044	5,580	6,952	5,472	6,294	7,183	9,709
Depreciation	1,055	1,370	1,515	1,586	1,845	2,073	2,255	2,660	2,772
Interest & Finance Charges	18	207	139	232	559	1,058	903	829	855
Direct Taxes Paid	-891	-1,191	-1,914	-1,450	-1,758	-1,903	-1,587	-1,606	-2,252
(Inc)/Dec in WC	-377	128	-2 749	-2 572	-103	-2 463	1 064	-2 329	-5 833

Consolidated - Cash Flow Statement									INRm
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26E	FY27E
OP/(Loss) before Tax	2,848	4,256	7,044	5,580	6,952	5,472	6,294	7,183	9,709
Depreciation	1,055	1,370	1,515	1,586	1,845	2,073	2,255	2,660	2,772
Interest & Finance Charges	18	207	139	232	559	1,058	903	829	855
Direct Taxes Paid	-891	-1,191	-1,914	-1,450	-1,758	-1,903	-1,587	-1,606	-2,252
(Inc)/Dec in WC	-377	128	-2,749	-2,572	-103	-2,463	1,064	-2,329	-5,833
CF from Operations	2,652	4,769	4,034	3,376	7,495	4,238	8,930	6,737	5,251
Others	0	-7	291	-56	-27	156	0	-259	0
CF from Operating incl EO	2,652	4,762	4,325	3,321	7,467	4,394	8,930	6,477	5,251
(inc)/dec in FA	-2,544	-1,843	-2,710	-3,967	-4,107	-3,788	-7,248	-6,588	-4,149
(Pur)/Sale of Investments	-539	0	-2	0	2,035	159	-43	0	0
Others	267	237	-59	166	158	28	129	258	145
CF from Investments	-2,816	-1,606	-2,771	-3,801	-1,914	-3,602	-7,163	-6,330	-4,004
Issue of Shares	195	0	41	37	-3,084	32	169	0	0
(Inc)/Dec in Debt	-252	-1,534	-719	2,530	-600	1,435	1,397	-796	-830
Interest Paid	-285	-266	-263	-242	-533	-1,027	-1,032	-1,087	-1,000
Dividend Paid	-306	-307	-247	-372	-186	-363	-284	-284	-284
CF from Fin. Activity	-102	-2,129	-2,993	1,900	-4,403	77	333	-2,166	-2,114
Inc/Dec of Cash	-266	1,027	-1,440	1,419	1,151	869	2,100	-2,019	-868
Opening Balance	1,156	890	2,839	2,711	4,095	3,128	3,863	5,964	3,945
FX	-30	921	1,312	-35	-2,118	-134	0	0	0
Closing Balance	891	2,839	2,711	4,095	3,128	3,863	5,964	3,945	3,077

E: MOFSL Estimates

Investment in securities market are subject to market risks. Read all the related documents carefully before investing.



#### 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 be 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, Depository participant services & distribution of various financial products. 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 Cinited (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 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 the re 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 www.nseindia.com, www.bseindia.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.

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.

This report is distributed in Hong Kong by Motilal Oswal capital Markets (Hong Kong) Private Limited, a licensed corporation (CE AYY-301) licensed and regulated by the Hong Kong Securities and Futures Commission (SFC) pursuant to the Securities and Futures Ordinance (Chapter 571 of the Laws of Hong Kong) "SFO". As per SEBI (Research Analyst Regulations) 2014 Motilal Oswal Securities (SEBI Reg. No. INH000000412) has an agreement with Motilal Oswal capital Markets (Hong Kong) Private Limited for distribution of research report in Hong Kong. This report is intended for distribution only to "Professional Investors" as defined in Part I of Schedule 1 to SFO. Any investment or investment activity to which this document relates is only available to professional investor and will be engaged only with professional investors." Nothing here is an offer or solicitation of these securities, products and services in any jurisdiction where their offer or sale is not qualified or exempt from registration. The Indian Analyst(s) who compile this report is/are not located in Hong Kong & are not conducting Research Analysis in Hong Kong.

Motilal Oswal Financial Services Limited (MOFSL) is not a registered broker - dealer under the U.S. Securities Exchange Act of 1934, as amended (the "1934 act") and under applicable state laws in the United States. In addition MOFSL is not a registered investment adviser under the U.S. Investment Advisers Act of 1940, as amended (the "Advisers Act" and together with the 1934 Act, the "Acts), and under applicable state laws in the United States. Accordingly, in the absence of specific exemption under the Acts, any brokerage and investment services provided by MOFSL, including the products and services described herein are not available to or intended for U.S. persons. This report is intended for distribution only to "Major Institutional Investors" as defined by Rule 15a-6(b)(4) of the Exchange Act and interpretations thereof by SEC (henceforth referred to as "major institutional investors"). This document must not be acted on or relied on by persons who are not major institutional investors. Any investment 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 broker-dealer, Motilal Oswal Securities International Private Limited. ("MOSIPL"). Any business interaction pursuant to this report will have to be executed within the provisions of this chaperoning agreement.

The Research Analysts contributing to the report may not be registered /qualified as research analyst with FINRA. Such research analyst may not be associated persons of the U.S. registered broker-dealer, MOSIPL, and therefore, may not be subject to NASD rule 2711 and NYSE Rule 472 restrictions on communication with a subject company, public appearances and trading securities held by a research analyst account.

#### For Singapore

In Singapore, this report is being distributed by Motilal Oswal Capital Markets (Singapore) Pte. Ltd. ("MOCMSPL") (UEN 201129401Z), which is a holder of a capital markets services license and an exempt financial adviser in Singapore. This report is distributed solely to persons who (a) qualify as "institutional investors" as defined in section 4A(1)(c) of the Securities and Futures Act of Singapore ("SFA") or (b) are considered "accredited investors" as defined in section 2(1) of the Financial Advisers Regulations of Singapore read with section 4A(1)(a) of the SFA. Accordingly, if a recipient is neither an "institutional investor" nor an "accredited investor", they must immediately discontinue any use of this Report and inform MOCMSPL.

In respect of any matter arising from or in connection with the research you could contact the following representatives of MOCMSPL. In case of grievances for any of the services rendered by MOCMSPL write to grievances@motilaloswal.com.

#### Nainesh Rajani

Email: nainesh.rajani@motilaloswal.com

Contact: (+65) 8328 0276

#### Specific Disclosures

- Research Analyst and/or his/her relatives do not have a financial interest in the subject company(ies), as they do not have equity holdings in the subject company(ies).
   MOFSL has financial interest in the subject company(ies) at the end of the week immediately preceding the date of publication of the Research Report: Yes.
   Nature of Financial interest is holding equity shares or derivatives of the subject company
- Research Analyst and/or his/her relatives do not have actual/beneficial ownership of 1% or more securities in the subject company(ies) at the end of the month immediately preceding the date of publication of Research Report.
  - MOFSL has actual/beneficial ownership of 1% or more securities of the subject company(ies) at the end of the month immediately preceding the date of publication of Research Report:No
- Research Analyst and/or his/her relatives have not received compensation/other benefits from the subject company(ies) in the past 12 months.
   MOFSL may have received compensation from the subject company(ies) in the past 12 months.
- Research Analyst and/or his/her relatives do not have material conflict of interest in the subject company at the time of publication of research report.
   MOFSL does not have material conflict of interest in the subject company at the time of publication of research report.
- 5. Research Analyst has not served as an officer, director or employee of subject company(ies).
- 6. MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months.
- 7. MOFSL has not received compensation for investment banking /merchant banking/brokerage services from the subject company(ies) in the past 12 months.



- 8. MOFSL may have received any compensation for products or services other than investment banking or merchant banking or brokerage services from the subject company(ies) in the past 12 months.
- 9. MOFSL may have received compensation or other benefits from the subject company(ies) or third party in connection with the research report.
- MOFSL has not engaged in market making activity for the subject company.

The associates of MOFSL may have

financial interest in the subject company

actual/beneficial ownership of 1% or more securities in the subject company at the end of the month immediately preceding the date of publication of the Research Report or date of the public appearance.

received compensation/other benefits from the subject company in the past 12 months

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.

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.

Served subject company as its clients during twelve months preceding the date of distribution of the research report.

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, 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.

This report is meant for the clients of Motilal Oswal only.

Investment in securities market are subject to market risks. Read all the related documents carefully before investing.

Registration granted by SEBI and certification from NISM in no way guarantee performance of the intermediary or provide any assurance of returns to investors.

Registered Office Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022 - 71934200 / 71934263; www.motilaloswal.com. Correspondence Address: Palm Spring Centre, 2nd Floor, Palm Court Complex, New Link Road, Malad (West), Mumbai- 400 064. Tel No: 022 71881000. Details of Compliance Officer: Neeraj Agarwal, Email Id: na@motilaloswal.com, Contact No::022-40548085.

Grievance Redressal Cell:

Contact Person	Contact No.	Email ID						
Ms. Hemangi Date	022 40548000 / 022 67490600	query@motilaloswal.com						
Ms. Kumud Upadhyay	022 40548082	servicehead@motilaloswal.com						
Mr. Ajay Menon	022 40548083	am@motilaloswal.com						

Registration details of group entities.: Motilal Oswal Financial Services Ltd. (MOFSL): INZ000158836 (BSE/NSE/MOX/NCDEX); CDSL and NSDL: IN-DP-16-2015; Research Analyst: INH000000412 . AMFI: ARN .: 146822. IRDA Corporate Agent – CA0579. Motilal Oswal Financial Services Ltd. is a distributor of Mutual Funds, PMS, Fixed Deposit, Insurance, Bond, NCDs and IPO products.

Customer having any query/feedback/ clarification may write to query@motilaloswal.com. In case of grievances for any of the services rendered by Motilal Oswal Financial Services Limited (MOFSL) write to grievances@motilaloswal.com, for DP to dpgrievances@motilaloswal.com.