



Laurus Labs

BSE SENSEX	S&P CNX
35,536	10,807
Bloomberg	LAURUS IN
Equity Shares (m)	106
M.Cap.(INRb)/(USDb)	53.0 / 0.8
52-Week Range (INR)	634 / 480
1, 6, 12 Rel. Per (%)	-8/-15/-29
Avg Val, INRm	73.0
Free float (%)	69.4

Financials & Valuations (INR b)

2018	2019E	2020E
20.7	24.6	29.0
4.1	5.5	6.7
1.7	2.9	3.6
15.8	27.3	34.3
-10.9	72.1	25.8
140.2	166.9	200.6
11.9	17.8	18.7
9.7	12.8	13.8
30.7	17.9	14.2
3.5	2.9	2.4
	20.7 4.1 1.7 15.8 -10.9 140.2 11.9 9.7 30.7	20.7 24.6 4.1 5.5 1.7 2.9 15.8 27.3 -10.9 72.1 140.2 166.9 11.9 17.8 9.7 12.8 30.7 17.9

Estimate change	
TP change	T T
Rating change	←→

CMP: INR488 TP: INR586 (+20%)

Buy

Growth to pick up from FY19

- Operationally in-line; PAT hit by higher interest/depreciation and tax outgo: In 4QFY18, Laurus delivered 18.3% YoY revenue growth to INR5.6b (our estimate: INR5.4b), led by 27% YoY growth in ARV-API sales (64% of total sales), 63% YoY growth in Synthesis business (8% of total sales), and addition of formulation sales of INR140m (2.4% of total sales). Pricing pressure in Hep-C and higher fixed overheads related to recently-commissioned facilities led to 410bp YoY decline in EBITDA margin to 20.9% (our estimate: 21%). Higher depreciation, interest and tax outgo led to 39% YoY fall in PAT to INR451m (our estimate: INR528m).
- Higher base in revenue and fixed operating cost impacted FY18 performance: After six years of strong growth, Laurus delivered its second consecutive year of moderate revenue growth (up 8.6% to INR20.7b) in FY18. Gross margin expanded 90bp to 48.6%, an all-time high. However, EBITDA margin shrank 140bp YoY to 20% due higher operating expenses related to recently commissioned facilities. Higher depreciation and tax outgo led to 12% YoY decline in PAT to INR1.7b.
- Valuation and view: We have cut our EPS estimates by 6% to INR27.4 for FY19 and by 3% to INR34.4 for FY20 to factor lower growth in ARV-API business, slower ramp-up in formulation business and higher tax rate. Accordingly, we have revised our price target to INR586 (from INR611 earlier), valuing the stock at 18x 12M forward earnings. We remain positive on Laurus on the back of healthy demand in ARV category, forward integration to formulations for ARV as well as regulated markets, and strong momentum in Synthesis business. RoE should improve from 12% in FY18 to 19% by FY20. Reiterate Buy.

Consol Quarterly Earning Model										(INRm)		
Y/E March		FY1	.7		FY18			FY17	FY18	FY18	vs Est	
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q			4QE	(%)
Net Sales	4,165	5,254	5,050	4,735	4,912	5,386	4,789	5,602	19,204	20,690	5,383	4.1
YoY Change (%)	NA	NA	12.2	-3.6	17.9	2.5	-5.2	18.3	104.0	7.7		
Total Expenditure	3,315	4,151	4,062	3,548	3,947	4,260	3,916	4,434	15,076	16,557	4,252	4.3
EBITDA	850	1,103	988	1,187	965	1,126	874	1,169	4,129	4,133	1,130	3.4
Margins (%)	20.4	21.0	19.6	25.1	19.6	20.9	18.2	20.9	21.5	20.0		
Depreciation	248	253	263	267	298	301	310	346	1,031	1,254	320	8.3
Interest	279	247	297	148	191	195	178	233	970	796	167	38.9
Other Income	23	76	128	89	75	66	99	51	316	292	70	-27.4
PBT before EO expense	346	680	555	861	552	696	486	641	2,443	2,374	713	-10.2
Extra-Ord expense	0	0	0	0	0	0	0	0	0	0		
PBT	346	680	555	861	552	696	486	641	2,443	2,374	713	-10.2
Tax	80	171	81	118	163	208	137	190	451	698	185	2.5
Rate (%)	23.0	25.2	14.6	13.7	29.5	29.9	28.2	29.7	18.4	29.4		
MI & Profit/Loss of Asso. Cos.	10	0	0	0	0	0	0	0	10	0		
Reported PAT	256	508	474	743	389	488	349	451	1,982	1,676	528	-14.6
Adj PAT	256	508	474	743	389	488	349	451	1,982	1,676	528	-14.6
YoY Change (%)	NA	NA	17.9	39.0	51.7	-4.1	-26.4	-39.3	111.6	-15.4		
Margins (%)	6.2	9.7	9.4	15.7	7.9	9.1	7.3	8.0	10.3	8.1		

Tushar Manudhane – Research analyst (Tushar.Manudhane@MotilalOswal.com); +91 022 6129 1536

Rajat Srivastava- Research analyst (Rajat.Srivastava@motilaloswal.com); +91 22 3010 2511

MOTILAL OSWAL Laurus Labs



Key Concall Highlights

- For the **US formulation** business, Laurus expects to have 3 approvals in FY19 and has got TAD for all the 3 drugs. One of the three ANDAs is for Metformin and it has its TAD in Jul-18. The company is expecting revenue generation in 2HFY19 as TADs are spread over 2HFY19. Laurus has also guided for 10 ANDA filings for FY19 out of which it has already done validation for 6. Currently the company has filed 9 ANDAs and 1 NDA. 1 NDA is an ARV triple combination drug of Tenofovir, Lamivudine & Dolutegravir. Laurus has waiver for clinical trials from USFDA and WHO as clinical trials outcome is already in place for individual drugs. Aurobindo and Mylan are already having approval for similar combination.
- For the API business, Laurus has guided for stable revenues from Hep-C business based on volume growth for the coming quarters. Laurus had delivered 51% YoY growth in Oncology APIs revenues in FY18 and has guided for robust growth for FY19 as well on account of increase in capacity to support the rising demand. For ARV API the company sees 8%-10% growth for FY19 which is in line with the increase in the number of patients infected by HIV every year. The growth in ARV-API business would also be aided by new molecules (Lamivudine) to some extent.
- The **Synthesis** business will continue to grow at strong rate and is expected to contribute ~10% to total revenue for FY19 (~8% in FY18). The growth is coming from both Aspen and increased traction in existing contracts.
- The outlook for **Ingredients** business looks promising for FY19 even though the business saw muted growth in FY18. This is on the back of addition of new customers and increased capacity for natural extraction at unit 4.
- Laurus has maintained guidance for 6% of annual sales as R&D expenditure for FY19.
- The new formulations facility will have ~INR1b as total expenditure for FY19 with INR800m as operational expenses and INR320m as R&D cost.
- For FY19 the company has guided for INR2b capex as against INR3.5b in FY18. This will be used to increase capacity for APIs, ingredients & synthesis and formulations.
- Overall the company has guided for mid teen growth in revenues for FY19. Tax rate is expected to be higher due to lower deductions related to R&D and company is yet to accrue tax benefit from recently commissioned facilities.

MOTILAL OSWAL Laurus Labs

ARV-API and synthesis drives revenue for the guarter

After two quarters of muted growth, Laurus reported 18.3% YoY growth in revenue to INR5.6b for Q4FY18. ARV-API sales, which is up 27% YoY, continued to drive overall growth for Laurus. ARV-API sales formed 64% of total sales. Part of the growth has been due to addition of FDF sales (INR140m), which was absent in Q4FY17. In addition, synthesis and Oncology showed strong momentum of revenue growth for the quarter, by growing at 63% and 46% YoY for the quarter. Pricing pressure in Hep C and high base in other API business dragged overall sales growth for the quarter.

Exhibit 1: Revenue up YoY as well as QoQ

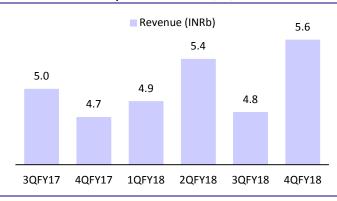
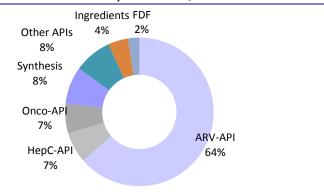


Exhibit 2: Revenue composition – 4QFY18



Source: MOSL, Company

Source: MOSL, Company

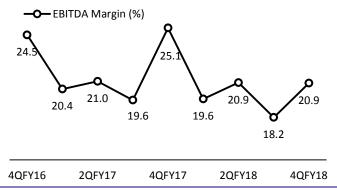
Trend of gross and EBITDA margin improves for the quarter

- Gross margin remained stable sequentially, while declined 600bp YoY to 48% for the quarter. This is largely due to sharp price cuts in Hep-C portfolio. In addition, Laurus incurred fixed overhead expense of INR310m related to formulation facility. There was also some fixed expense related to commissioning of Unit 5 and Unit 4. These expenses were minimal in Q4FY17. As a result, EBITDA margin contracted 410bp YoY to 20.9%. However, Laurus delivered better EBITDA margin compared to Q3FY18 EBITDA margin of 18.2%.
- R&D spent for the quarter was INR442m and formed 8% of net sales. For Fy18, Laurus spent INR1.2b (5.9% of total sales) towards R&D. Laurus has guided for xx spent towards R&D for FY19.

Exhibit 3: Gross margin stable sequentially

Gross Margin (%)
53.9
50.0
47.8
48.7
48.1

Exhibit 4: EBITDA margin down 410bp YoY



4QFY16 2QFY17 4QFY17 2QFY18 4QFY18

Source: MOSL, Company

Source: MOSL, Company

Tax rate for Q4FY18 was very higher at 29.7% compared to 13.7% for Q4FY18. The reduction in EBITDA, coupled with higher interest, depreciation and higher tax outgo, led 39% fall in PAT to INR450m.

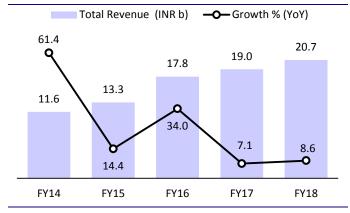
MOTILAL OSWAL Laurus Labs

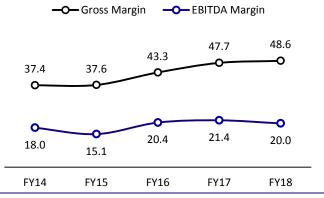
Hep-C business and fixed overheads drags profitability for FY18

After six years of strong YoY growth, Laurus delivered second consecutive year of moderate YoY growth of 8.6% in revenue to INR20.7b for FY18. Sharp decline in Hep-C sales, down from INR2.5b to INR1.7b in FY18, impacted overall sales growth. Strong growth in synthesis, Oncology API, and healthy growth in base ARV-API business helped Laurus overcome decline in business on overall basis.

Exhibit 5: Growth rate to bottom out in FY18

Exhibit 6: Increased margins on rising share of high margin products





Source: MOSL, Company

Source: MOSL, Company

Gross margin inched up 90bp to 48.6% and is at all-time high for the company. However, EBITDA margin is down 140bp YoY to 20% due higher operating expenses related to recently commissioned facilities. Other expenses increased 31% YoY to INR3.3b and formed 16% of net sales for FY18. Higher depreciation and tax outgo led 12% YoY decline in PAT to INR1.7b.

Outlook and Valuation

- We have tweaked downwards our EPS estimates by 6% and 4% for FY19 and FY20 to INR27.4 and 34.4 to factor lower growth in ARV-API business, slower ramp-up in formulation business and higher tax rate. Accordingly, we have revised our price target to INR586 (from INR611 earlier) valuing at 18x 12M forward earnings.
- Laurus has already built asset worth INR6b and intend to do capex of INR2b in FY19. The improvement in return ratios from these assets would be visible FY20 onwards.
- We remain positive on Laurus on the back of enhanced product basket in ARV space, benefit from industry demand remaining healthy on back of addition of ~1.5m patients per year in ARV category, forward integration to formulation for ARV as well as regulated market and strong momentum in Synthesis business. Re-iterate Buy.

Exhibit 7: Change in Estimates

Old est	timates	New es	timates	Change (%)		
FY19E	FY20E	FY19E	FY20E	FY19E	FY20E	
25,298	29,192	24,586	28,982	(2.8)	(0.7)	
5,743	6,802	5,514	6,674	(4.0)	(1.9)	
22.7	23.3	22.4	23.0			
3,064	3,765	2,884	3,629	(5.9)	(3.6)	
29	35.6	27.3	34.3	(5.9)	(3.6)	
613		586		(4.4)		
	FY19E 25,298 5,743 22.7 3,064 29	25,298 29,192 5,743 6,802 22.7 23.3 3,064 3,765 29 35.6	FY19E FY20E FY19E 25,298 29,192 24,586 5,743 6,802 5,514 22.7 23.3 22.4 3,064 3,765 2,884 29 35.6 27.3	FY19E FY20E FY19E FY20E 25,298 29,192 24,586 28,982 5,743 6,802 5,514 6,674 22.7 23.3 22.4 23.0 3,064 3,765 2,884 3,629 29 35.6 27.3 34.3	FY19E FY20E FY19E FY20E FY19E 25,298 29,192 24,586 28,982 (2.8) 5,743 6,802 5,514 6,674 (4.0) 22.7 23.3 22.4 23.0 3,064 3,765 2,884 3,629 (5.9) 29 35.6 27.3 34.3 (5.9)	

MOTILAL OSWAL

Financials and Valuations

Income Statement							(INI	R Million
Y/E Mar	2013	2014	2015	2016	2017	2018	2019E	2020E
Net Sales	7,185	11,597	13,266	17,776	19,046	20,690	24,586	28,982
Change (%)	59.4	61.4	14.4	34.0	7.1	8.6	18.8	17.9
EBITDA	1,448	2,089	2,002	3,622	4,076	4,133	5,514	6,674
EBITDA Margin (%)	20.2	18.0	15.1	20.4	21.4	20.0	22.4	23.0
Depreciation	226	329	615	864	1,060	1,255	1,377	1,560
EBIT	1,222	1,760	1,387	2,758	3,016	2,879	4,137	5,114
Interest	412	639	1,062	1,111	999	796	660	682
Other Income	51	88	341	44	334	292	369	406
Extraordinary items	0	0	0	0	0	0	0	0
РВТ	861	1,209	666	1,690	2,352	2,374	3,846	4,838
Тах	-21	236	-15	349	439	698	961	1,210
Tax Rate (%)	-2.5	19.6	-2.3	20.6	18.7	29.4	25.0	25.0
Min. Int. & Assoc. Share	0	0	-2	4	11	0	0	0
Reported PAT	882	972	683	1,337	1,903	1,676	2,884	3,629
Adjusted PAT	882	972	683	1,337	1,903	1,676	2,884	3,629
Change (%)	308.9	10.2	-29.7	95.7	42.3	-11.9	72.1	25.8
Balance Sheet							(INI	R Million
Y/E Mar	2013	2014	2015	2016	2017	2018	2019E	2020E
Share Capital	152	154	155	158	1,058	1,060	1,060	1,060
Reserves	1,816	2,806	6,419	7,744	12,247	13,766	16,593	20,149
Net Worth	1,968	2,960	6,574	7,902	13,304	14,826	17,653	21,210
Debt	3,545	6,053	8,877	10,943	8,417	9,649	10,649	10,649
Deferred Tax	-118	118	113	-549	-699	-529	-529	-529
Total Capital Employed	5,396	9,131	15,565	18,296	21,023	23,946	27,773	31,330
Gross Fixed Assets	3,303	6,230	9,865	11,063	14,088	17,851	20,407	22,918
Less: Acc Depreciation	948	1,240	1,855	853	1,886	3,141	4,518	6,078
Net Fixed Assets	2,356	4,989	8,010	10,210	12,202	14,711	15,889	16,840
Capital WIP	728	1,161	1,097	696	1,433	1,632	1,576	1,565
Investments	0	0	74	70	34	34	34	34
Current Assets	3,833	6,578	9,757	10,710	12,069	13,165	16,827	20,599
Inventory	1,562	3,281	4,755	4,871	5,090	5,848	6,736	7,879
Debtors	1,567	1,949	2,851	4,449	5,676	5,706	7,184	9,263
Cash & Bank	27	232	589	288	41	31	1,029	1,244
Loans & Adv, Others	678	1,117	1,562	1,103	1,262	1,580	1,878	2,214
Curr Liabs & Provns	1,521	3,601	3,373	3,390	4,812	5,692	6,650	7,806
Curr. Liabilities	1,436	3,492	3,230	3,246	4,619	5,439	6,349	7,452
Provisions	85	109	143	144	193	253	301	355
Net Current Assets	2,312	2,977	6,383	7,320	7,257	7,473	10,177	12,793
Total Assets	5,396	9,131	15,565	18,296	21,023	23,946	27,773	31,330

MOTILAL OSWAL

Financials and Valuations

Ratios								
Y/E Mar	2013	2014	2015	2016	2017	2018	2019E	2020E
Basic (INR)								
EPS	8.3	9.2	6.5	12.4	17.8	15.8	27.3	34.3
Cash EPS	10.5	12.3	12.3	20.6	27.8	27.7	40.3	49.1
Book Value	24.5	33.9	68.5	81.0	125.8	140.2	166.9	200.6
DPS	0.0	0.0	0.0	0.3	0.3	0.3	0.5	0.6
Payout (incl. Div. Tax.)	0.0	0.0	0.0	2.8	2.0	2.0	2.0	2.0
Valuation(x)								
P/E				39.1	27.4	30.7	17.9	14.2
Price / Book Value				6.0	3.9	3.5	2.9	2.4
EV/Sales				3.5	3.1	3.0	2.5	2.1
EV/EBITDA				17.0	14.7	14.8	11.1	9.1
Dividend Yield (%)				0.1	0.1	0.1	0.1	0.1
Profitability Ratios (%)								
RoE	41.2	31.5	12.6	16.9	17.4	11.9	17.8	18.7
RoCE	27.6	20.5	14.4	13.0	13.4	9.7	12.8	13.8
RoIC	36.7	25.4	14.0	14.6	13.5	9.7	13.1	14.3
Turnover Ratios (%)								
Asset Turnover (x)	1.3	1.3	0.9	1.0	0.9	0.9	0.9	0.9
Debtors (No. of Days)	80	61	78	91	109	101	107	117
Inventory (No. of Days)	79	103	131	100	98	103	100	99
Creditors (No. of Days)	67	72	64	51	50	55	53	53
Leverage Ratios (%)								
Net Debt/Equity (x)	1.1	1.4	1.0	1.2	0.6	0.6	0.5	0.4
Cash Flow Statement							(INI	R Million)
Y/E Mar	2013	2014	2015	2016	2017	2018	2019E	2020E
Adjusted EBITDA	1,448	2,089	2,002	3,622	4,076	4,133	5,514	6,674
Non cash opr. exp (inc)	-20	-37	142	-29	267	0	0	0
(Inc)/Dec in Wkg. Cap.	-405	-593	-2,507	-1,544	-525	-226	-1,706	-2,401
Tax Paid	-184	-234	-168	-333	-501	-698	-961	-1,210
Other operating activities	43	-13	-116	103	3	0	0	0
CF from Op. Activity	882	1,212	-647	1,820	3,320	3,209	2,846	3,063
(Inc)/Dec in FA & CWIP	-1,186	-3,058	-3,821	-3,262	-2,774	-3,962	-2,500	-2,500
Free cash flows	-304	-1,846	-4,468	-1,443	546	-753	346	563
(Pur)/Sale of Invt	-57	-60	-148	140	-113	0	0	0
Others	59	-28	112	-34	-143	292	369	406
CF from Inv. Activity	-1,184	-3,146	-3,858	-3,156	-3,030	-3,670	-2,131	-2,094
Inc/(Dec) in Net Worth	0	1	2,944	3	2,860	3	0	0
Inc / (Dec) in Debt	669	2,503	2,745	2,063	-2,387	1,278	1,000	0
Interest Paid	-325	-474	-828	-1,033	-950	-796	-660	-682
Divd Paid (incl Tax) & Others	0	0	0	2	-60	-33	-58	-72
CF from Fin. Activity	344	2,030	4,861	1,035	-537	451	283	-754
Inc/(Dec) in Cash	42	96	356	-301	-247	-10	998	215
Add: Opening Balance	93	136	232	588	287	40	31	1,029
Closing Balance	136	232	588	287	40	31	1,029	1,244
							•	,

MOTILAL OSWAL

NOTES

Explanation of Investment Rating

Investment Rating Expected return (over 12-month)

BUY >=15% SELL < - 10% NFUTRAL > - 10 % to 15%

LINDER REVIEW Rating may undergo a change

NOT RATED We have forward looking estimates for the stock but we refrain from assigning recommendation

ndation given by the Research Analyst becomes inconsistent with the stment rating legend, the Research Analyst shall within 28 days of the inconsistency, take appr sasures 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 Securities Ltd. (MOSL) is a SEBI Registered Research Analyst having registration no. INH000000412. MOSL. 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. MOSL is a subsidiary company of Motilal Oswal Financial Service Ltd. (MOFSL). MOFSL is a listed public company, the details in respect of which are available on www.motilaloswal.com. 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), Metropolitan Stock Exchange of India Ltd. (MSE) for its stock broking activities & is Depository participant with Central Depository Services Limited (CDSL) & National Securities Depository Limited (NSDL) and is member of Association of Mutual Funds of India (AMFI) for distribution of financial products. Details of associate entities of Motilal Oswal Securities Limited are available on the website at http://onlinereports.motilaloswal.com/Dormant/documents/Associate%20Details.pdf

MOSL, it's associates, Research Analyst or their relative may have any financial interest in the subject company. MOSL and/or its associates and/or Research Analyst may have 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. MOSL 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(les) discussed herein or act as an advisor or lender/borrower to such company(les) 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 MOSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report. Research Analyst may have served as director/officer, etc. in the subject company in the last 12 month period. MOSL and/or its associates may have received any compensation from the subject company in the past 12 months.

- In the last 12 months period ending on the last day of the month immediately preceding the date of publication of this research report, MOSL or any of its associates may have:

 a) managed or co-managed public offering of securities from subject company of this research report,

 b) received compensation for investment banking or merchant banking or brokerage services from subject company of this research report,

 c) received compensation for products or services other than investment banking or merchant banking or brokerage services from the subject company of this research report.
- Subject Company may have been a client of MOSL or its associates during twelve months preceding the date of distribution of the research report.

MOSL and it's associates have not received any compensation or other benefits from the subject company or third party in connection with the research report. To enhance transparency, MOSL has incorporated a Disclosure of Interest Statement in this document. This should, however, not be treated as endorsement of the views expressed in the report. MOSL 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 MOSL 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

Terms & Conditions:

This report has been prepared by MOSL 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 MOSL. 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. MOSL will not treat recipients as customers by virtue of their receiving this report.

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.

Disclosure of Interest Statement

Analyst ownership of the stock

Laurus Labs No

A graph of daily closing prices of securities is available at www.nseindia.com, <a href="www.nseindia.co expressed their views.

Regional Disclosures (outside India)

Regular Discussive Sudariae minda/ 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 MOSL & its group companies to registration or licensing requirements within such jurisdictions.

For Hong Kong:

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 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 Securities Limited (MOSL) 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 MOSL is not a registered investment advisers Act of 1940, as amended (the "Advisers Act of 1940, as amended (the "Advisers Act" and together with the 1934 Act, the "Acts), and under applicable stale laws in the United States. Accordingly, in the absence of specific exemption under the Acts, any brokerage and investment services provided by MOSL, 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., MOSL has entered into a chaperoning agreement with a U.S. registered broker-dealer, Motilal Oswal Securities International Private Limited. ("MOSIPL"). Any business interaction pursuant to this report will have to be executed within the provisions of this chaperoning agreement.

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

For Singapore

In Singapore, this report is being distributed by Motilal Oswal Capital Markets Singapore Pte Ltd ("MOCMSPL") (Co.Reg. NO. 2011294012) 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.

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 self 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. MOSL, 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 MOSL. 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 MOSL 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 MOSL or any of its affiliates or employees from, any and all responsibility/liability arising from such misuse and agrees not to hold MOSL 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: Molital Oswal Tower, Rahimfullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022-3980 4263; www.molitaloswal.com. Correspondence Address: Palm Spring Centre, 2nd Floor, Palm Court Complex, New Link Road, Malad (West), Mumbai-400 064. Tel No: 022 3080 1000. Compliance Officer: Neeraj Agarwal, Email Id: na@molitaloswal.com, Contact No::022-38281085.

Registration details of group entities.: MOSL: SEBI Registration: INZ000158836 (BSE/NSE/MCX/NCDEX); CDSL: IN-DP-16-2015; NSDL: IN-DP-NSDL-152-2000; Research Analyst: INH000000412. AMFI: ARN 17397. Investment Adviser: INA000007100.IRDA Corporate Agent-CA0541. Motilal Oswal Asset Management Company Ltd. (MOAMC): PMS (Registration No.: INP000000670) offers PMS and Mutual Funds products. Motilal Oswal Wealth Management Ltd. (MOWML): PMS (Registration No.: INP0000004409) offers wealth management solutions. "Motilal Oswal Securities Ltd. is a distributor of Mutual Funds, PMS, Fixed Deposit, Bond, NCDs, Insurance and IPO products. "Motilal Oswal Commodities Broker Pvt. Ltd. offers Commodities Products. * Motilal Óswal Real Estate Investment Advisors II Pvt. Ltd. offers Real Estate products. * Motilal Oswal Private Equity Investment Advisors Pvt. Ltd. offers Private Equity products