

Gujarat Gas

BSE SENSEX

35,645

S&P CNX

10,770

CMP: INR729
TP: INR975 (+34%)
Buy

Motilal Oswal values your support in the Asiamoney Brokers Poll 2018 for India Research, Sales and Trading team. We [request your ballot](#).



Stock Info

Bloomberg	GUJGA IN
Equity Shares (m)	137.7
52-Week Range (INR)	974 / 715
1, 6, 12 Rel. Per (%)	-14/-21/-16
M.Cap. (INR b)	121.6
M.Cap. (USD b)	1.9
Avg Val, INRm	179.0
Free float (%)	49.6

Financials Snapshot (INR b)

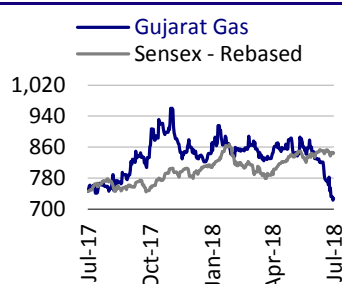
Y/E Mar	2018	2019E	2020E
Sales	61.7	79.4	88.7
EBITDA	9.0	9.8	12.0
NP	2.9	4.0	5.5
EPS (Rs)	21.2	28.7	40.1
EPS Gr. (%)	32.0	35.6	39.7
BV/Sh (INR)	134.1	157.5	190.1
P/E (x)	34.5	25.4	18.2
P/BV (x)	5.4	4.6	3.8
RoE (%)	16.7	19.7	23.1
RoCE (%)	16.5	18.0	22.8
EV/EBITDA(x)	13.5	12.0	9.5

Shareholding pattern (%)

As On	Mar-18	Dec-17	Mar-17
Promoter	50.4	60.9	60.9
DII	2.7	2.6	2.3
FII	14.2	14.3	15.4
Others	32.7	22.2	21.4

FII Includes depository receipts

Stock Performance (1-year)



Multiple triggers ahead

Expect strong volume growth

We met management of Gujarat Gas (GUJGA). Key highlights from our meeting.

Abundant potential...

- Gujarat is one of the most industrialized states in India, with presence of a number of industries such as refining, petrochemicals, chemicals, automobiles, pharmaceuticals, ceramics, textiles and engineering.
- Gujarat Industrial Development Corporation (GIDC) has a total of 202 estates across Gujarat, including 47 Special Economic Zones (SEZs)
- GUJGA has access to most part of Gujarat and is expanding its presence in places like Halol, Dahej, Bhavnagar/Jamnagar, Anand, Amreli, Dadra & Nagar Haveli and Thane.
- There is currently a court order in Ahmedabad staying any development work on gas network. Hearings are over and judgment is expected soon. Ahmedabad offers a peak potential of 0.3-0.4mmscmd.
- Dahej offers a peak potential of 0.5mmscmd. GUJGA is developing newer applications for replacement of LPG by gas. This could be used for ship breaking in Bhavnagar and foundries in Jamnagar – each a potential 0.2-0.3mmscmd market.
- GUJGA is developing Amritsar & Bhatinda city gas distribution (CGD) networks for GSPL. There is a possibility that these could also be transferred to GUJGA in future.

...but LNG prices could play a spoiler

- Global LNG consumption increased 13.7% in 2017 (higher than +5.4% in 2016 and +1.4% in 2015 and 2014 each), primarily due to increased consumption from China.
- As a result of high demand, increased outages and high oil prices, spot LNG prices averaged at USD9.5/mmBtu in Jan-May2018 v/s USD6.9/mmBtu in Jan-May 2017.
- Although ~110mmtpa of LNG liquefaction terminals are under construction, there appears to be a shift from more polluting fuel to natural gas worldwide, which would keep LNG prices high.
- We expect this to result in continued volatility in volumes and margins for GUJGA.
- There has been increased emphasis on CGD by GUJGA. It added 46 CNG outlets in FY18 and intends to add ~100 in FY19. It has been conducting 'Car Mela' in leading cities for the same.

Swarnendu Bhushan- Research Analyst (Swarnendu.Bhushan@MotilalOswal.com); +91 22 6129 1529

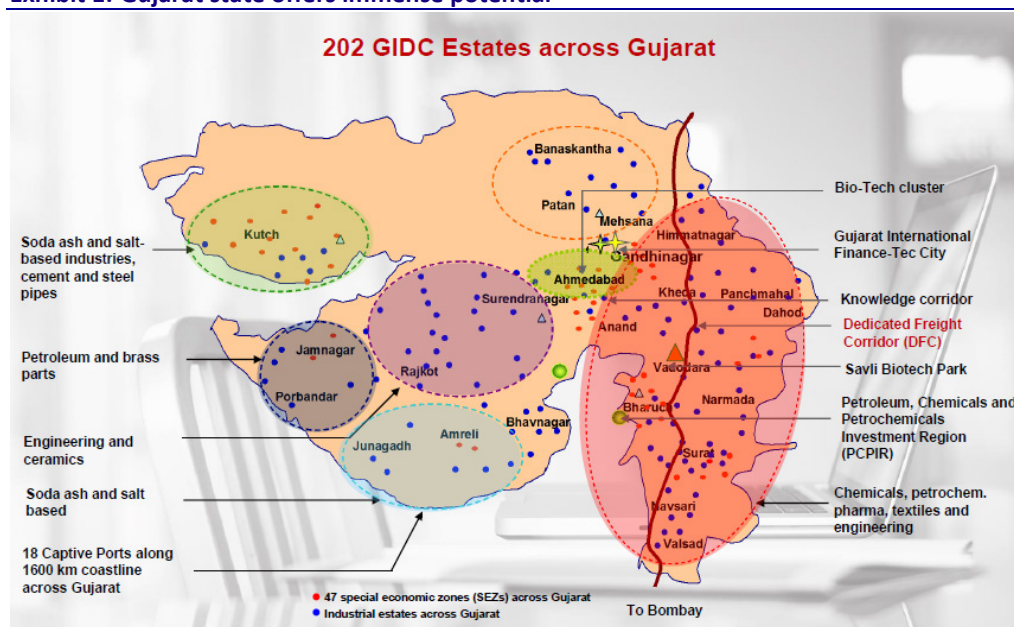
Abhinil Dahiwal- Research Analyst (Abhinil.Dahiwal@motilaloswal.com); +91 22 3980 4309

Investors are advised to refer through important disclosures made at the last page of the Research Report.

Motilal Oswal research is available on www.motilaloswal.com/Institutional-Equities, Bloomberg, Thomson Reuters, Factset and S&P Capital.

Valuation and view

- GUJGA sells ~6.5mmscmd of gas. Morbi is the company's biggest market (2.5mmscmd), followed by Bharuch/Ankleshwar/Surat/Vapi (2.3), Rajkot (0.3), Bhavnagar/Jamnagar (0.1) and other Geographical Areas (GAs).
- Recently, the Gujarat High Court has directed closure of coal gasifiers in Morbi-Wankaner area which are not complying with approved regulations. We note that Morbi itself is a 5-6mmscmd market where current gas sales are 2.5mmscmd, suggesting the high growth prospects.
- GUJGA is trading at 18x FY20 EPS of INR40. Due to expected tightness in spot LNG prices, we lower the P/E multiple by 10% from 27x to 24x. We cut our target price from INR1,122 to INR975 and reiterate our **Buy** rating on the stock.

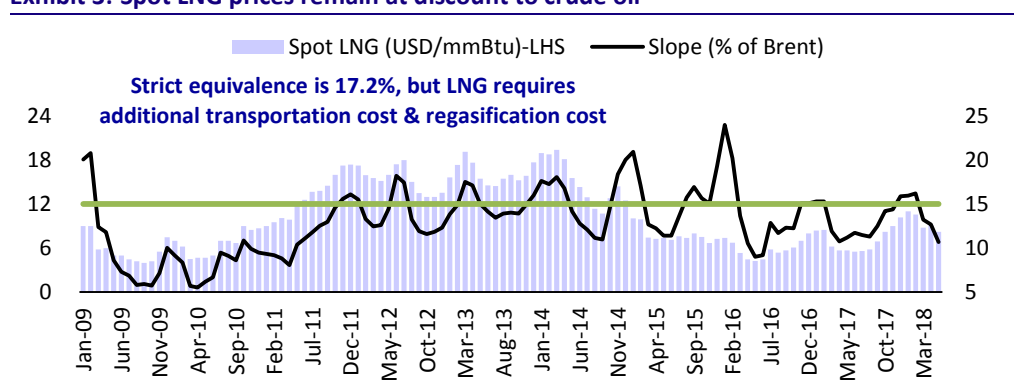
Exhibit 1: Gujarat state offers immense potential

Source: GIDC, MOSL

Exhibit 2: Sudden rise in LNG consumption globally (mmt)

Year	Japan^	South Korea^	China^	India^	Taiwan^	Total imports
2017	83.6	33.0	39.0	21.0	16.8	293.1
2016	83.3	33.7	26.8	19.2	15.0	257.9
2015	85.5	33.3	19.9	14.7	14.6	244.6
2014	88.9	38.0	20.0	14.6	13.6	241.1
2013	87.8	40.8	18.6	12.9	12.8	237.7
2012	87.3	36.8	14.8	14.0	12.8	237.7
2011	78.8	35.8	12.9	12.8	12.2	241.5
2010	70.6	34.1	9.5	9.3	11.6	223.8

^Top five importers Source: IGU, MOSL

Exhibit 3: Spot LNG prices remain at discount to crude oil

Source: IGU, MOSL

Exhibit 4: We value Gujarat Gas at INR975/share (24x FY20E EPS)

FY20 EPS (INR)	40.1
Valuation PE (x)	24.3
Target price (INR/share)	975

Source: Company, MOSL

Story in charts

Exhibit 5: Volume growth expected to be strong

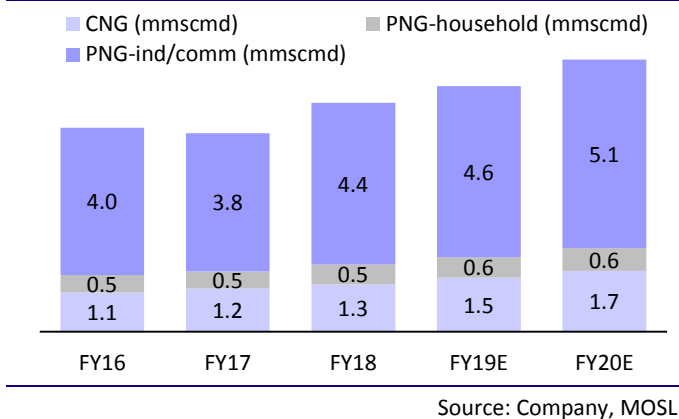


Exhibit 6: EBITDA/scm likely to grow; volatility would be key

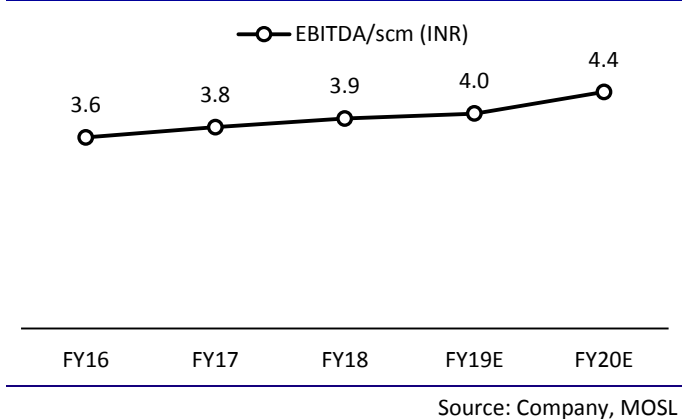


Exhibit 7: Return ratios to improve

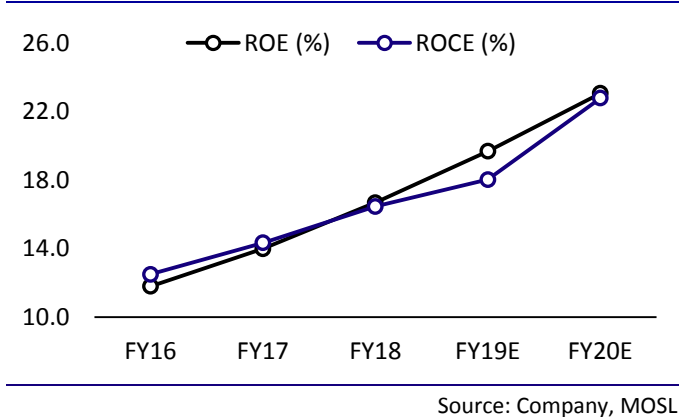
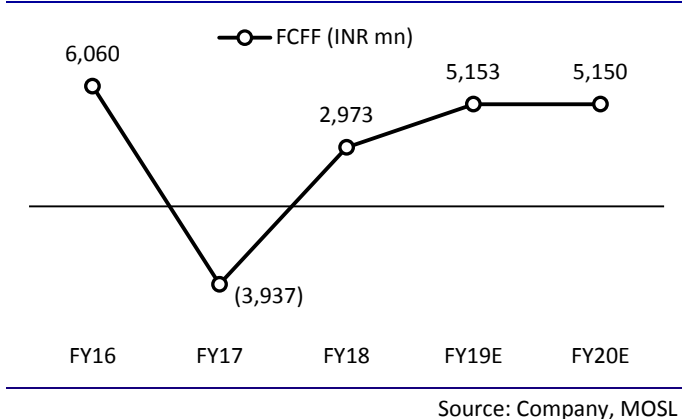


Exhibit 8: Free cash flow to improve



Financials and Valuations

Standalone - Income Statement

(INR Million)

Y/E March	FY14	FY15	FY16	FY17	FY18	FY19E	FY20E
Income from Operations	77,974	90,063	61,059	50,927	61,743	79,414	88,695
Total Income from Operations	77,974	90,063	61,059	50,927	61,743	79,414	88,695
Change (%)		15.5	-32.2	-16.6	21.2	28.6	11.7
Total Expenditure	72,233	79,001	53,794	43,488	52,793	69,589	76,703
% of Sales	92.6	87.7	88.1	85.4	85.5	87.6	86.5
EBITDA	5,741	11,062	7,264	7,440	8,951	9,825	11,992
Margin (%)	7.4	12.3	11.9	14.6	14.5	12.4	13.5
Depreciation	2,826	2,377	2,457	2,675	2,718	3,060	3,163
EBIT	2,915	8,685	4,808	4,765	6,232	6,765	8,830
Int. and Finance Charges	3,003	3,332	2,475	2,090	1,961	1,445	1,235
Other Income	1,101	1,071	445	371	357	579	647
PBT bef. EO Exp.	1,012	6,424	2,779	3,047	4,629	5,899	8,242
EO Items	-90	-10	-256	0	0	0	0
PBT after EO Exp.	922	6,414	2,523	3,047	4,629	5,899	8,242
Current Tax	638	1,979	648	839	1,715	1,947	2,720
Tax Rate (%)	69.2	30.8	25.7	27.6	37.0	33.0	33.0
Reported PAT	284	4,436	1,875	2,207	2,914	3,952	5,522
Adjusted PAT	312	4,443	2,065	2,207	2,914	3,952	5,522
Change (%)		1,323.3	-53.5	6.9	32.0	35.6	39.7
Margin (%)	0.4	4.9	3.4	4.3	4.7	5.0	6.2

Standalone - Balance Sheet

(INR Million)

Y/E March	FY14	FY15	FY16	FY17	FY18	FY19E	FY20E
Equity Share Capital	1,377	1,377	1,377	1,377	1,377	1,377	1,377
Total Reserves	14,981	18,532	13,718	15,072	17,087	20,302	24,794
Net Worth	16,358	19,909	15,095	16,449	18,464	21,679	26,171
Deferred Tax Liabilities	2,892	3,528	9,865	9,849	10,455	10,455	10,455
Total Loans	33,311	31,960	17,066	22,987	22,143	19,143	16,143
Capital Employed	52,561	55,397	42,025	49,285	51,062	51,277	52,769
Gross Block	47,550	50,114	54,153	59,393	64,021	65,880	68,368
Less: Accum. Deprn.	2,815	5,247	7,704	10,376	13,094	16,155	19,317
Net Fixed Assets	44,735	44,867	46,449	49,017	50,927	49,726	49,051
Capital WIP	2,701	3,574	4,682	5,071	4,797	7,437	9,950
Total Investments	8,410	10,990	1,218	683	161	161	161
Curr. Assets, Loans&Adv.	10,694	9,495	7,544	8,714	10,449	13,617	15,507
Inventory	375	411	413	417	568	748	825
Account Receivables	5,451	3,606	3,005	3,475	3,917	5,038	5,627
Cash and Bank Balance	2,116	2,378	678	608	1,363	1,913	2,445
Loans and Advances	2,752	3,101	3,447	4,214	4,601	5,918	6,609
Curr. Liability & Prov.	13,978	13,529	17,868	14,199	15,271	19,664	21,899
Account Payables	5,260	4,262	2,515	3,140	2,931	3,863	4,258
Other Current Liabilities	8,613	8,193	14,986	10,660	11,957	15,380	17,177
Provisions	105	1,074	367	399	383	421	463
Net Current Assets	-3,284	-4,034	-10,324	-5,485	-4,823	-6,047	-6,392
Appl. of Funds	52,561	55,397	42,025	49,285	51,062	51,277	52,769

E: MOSL Estimates

Financials and Valuations

Ratios

Y/E March	FY14	FY15	FY16	FY17	FY18	FY19E	FY20E
Basic (INR)							
EPS	2.3	32.3	15.0	16.0	21.2	28.7	40.1
Cash EPS	22.8	49.5	32.8	35.5	40.9	50.9	63.1
BV/Share	118.8	144.6	109.6	119.5	134.1	157.5	190.1
DPS	0.0	5.0	2.5	3.0	4.0	4.4	6.2
Payout (%)	0.0	18.7	21.7	22.3	22.9	18.7	18.7
Valuation (x)							
P/E				45.5	34.5	25.4	18.2
Cash P/E				20.6	17.8	14.3	11.6
P/BV				6.1	5.4	4.6	3.8
EV/Sales				2.4	2.0	1.5	1.3
EV/EBITDA				16.5	13.5	12.0	9.5
Dividend Yield (%)				0.4	0.6	0.6	0.9
FCF per share				-28.6	21.6	37.4	37.4
Return Ratios (%)							
RoE	3.8	24.5	11.8	14.0	16.7	19.7	23.1
RoCE	16.2	19.2	12.5	14.3	16.5	18.0	22.8
Working Capital Ratios							
Asset Turnover (x)	1.5	1.6	1.5	1.0	1.2	1.5	1.7
Inventory (Days)	2	2	2	3	3	3	3
Debtor (Days)	26	15	18	25	23	23	23
Creditor (Days)	25	17	15	23	17	18	18
Working Cap. Turnover (Days)	-25	-26	-66	-44	-37	-37	-36
Leverage Ratio (x)							
Current Ratio	0.8	0.7	0.4	0.6	0.7	0.7	0.7
Interest Cover Ratio	1.0	2.6	1.9	2.3	3.2	4.7	7.1
Debt/Equity	2.0	1.6	1.1	1.4	1.2	0.9	0.6

Standalone - Cash Flow Statement

(INR Million)

Y/E March	FY14	FY15	FY16	FY17	FY18	FY19E	FY20E
OP/(Loss) before Tax	922	6,414	2,779	3,047	4,629	5,899	8,242
Depreciation	2,826	2,377	2,457	2,675	2,718	3,060	3,163
Interest & Finance Charges	3,003	3,332	2,029	1,718	1,604	866	588
Direct Taxes Paid	-1,599	-1,461	-648	-839	-1,715	-1,947	-2,720
(Inc)/Dec in WC	-309	1,852	4,590	-4,909	92	1,774	878
CF from Operations	4,844	12,514	11,207	1,692	7,328	9,653	10,150
Others	-726	-716	0	0	0	0	0
CF from Operating incl EO	4,119	11,798	11,207	1,692	7,328	9,653	10,150
(Inc)/Dec in FA	-3,371	-3,508	-5,147	-5,629	-4,355	-4,500	-5,000
Free Cash Flow	748	8,290	6,060	-3,937	2,973	5,153	5,150
(Pur)/Sale of Investments	-12,397	-2,563	9,773	535	522	0	0
Others	2,374	167	189	371	357	579	647
CF from Investments	-13,394	-5,904	4,815	-4,722	-3,476	-3,921	-4,353
Issue of Shares	5,000	0	0	0	0	0	0
Inc/(Dec) in Debt	7,923	-756	-14,894	5,921	-844	-3,000	-3,000
Interest Paid	-1,351	-4,874	-2,475	-2,090	-1,961	-1,445	-1,235
Dividend Paid	-601	-2	-408	-493	-668	-737	-1,030
Others	0	0	56	-378	376	0	0
CF from Fin. Activity	10,971	-5,632	-17,721	2,960	-3,097	-5,182	-5,265
Inc/Dec of Cash	1,696	262	-1,699	-70	755	550	532
Opening Balance	420	2,116	2,378	678	609	1,363	1,913
Closing Balance	2,116	2,378	678	609	1,363	1,913	2,445

NOTES

Explanation of Investment Rating

Investment Rating

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 becomes inconsistent with the investment rating legend, the Research Analyst shall within 28 days of the inconsistency, 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 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://online-reports.motilaloswal.com/Dormant/documents/Associate%20Details.pdf>

MOSL, its 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 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. 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(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 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:

- managed or co-managed public offering of securities from subject company of this research report,
- received compensation for investment banking or merchant banking or brokerage services from subject company of this research report,
- 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 its 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

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 MOSL or its associates maintains arm's length distance with Research Team as all the activities are segregated from MOSL 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 MOSL & 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 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 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 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. 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 Advisers 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 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. 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, nor 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 responsible for any such misuse and further agrees 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: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022-3980 4263; www.motilaloswal.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@motilaloswal.com, Contact No.:022-38281085.

Registration details of group entities: MOSL: SEBI Registration: INZ000158836 (BSE/NSE/MCX/NCD/EX); 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.: INP000004409) 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 Oswal Real Estate Investment Advisors II Pvt. Ltd. offers Real Estate products. * Motilal Oswal Private Equity Investment Advisors Pvt. Ltd. offers Private Equity products