

India Equity Strategy/Economics

FY18 Budget – Balanced with Capex Focus; Stay Constructive

Economics View:

- **Balancing fiscal consolidation and stimulus:** The FY18 budget pegs fiscal deficit at 3.2% of GDP in FY18 vs. 3.5% in FY17. It falls short of the government's earlier roadmap of 3% but is better than our estimate of 3.4%. Going forward, the FRBM committee has suggested making debt/GDP ratio the most important metric and wants it to be brought down to 60% of GDP by 2023 (~67% now).
- **Revenue projections appear credible:** No change in LT capital gains tax was sentiment-positive; unchanged corporate tax rate for large companies and income tax tweaking were also in line with our expectations. Gross tax revenue growth of 12% in FY18 is in line with the nominal GDP growth and it appears that compliance-related gains have not been factored in. Non-tax revenues are a tad optimistic though.
- **Expenditure skew shifts back to capex:** The total expenditure growth projected for FY18 was quite moderate at 7%YoY and skewed more towards capital spend (11% YoY) than revenue spend (6% YoY). The skew suggests that govt. refrained from turning populist in this budget despite the upcoming assembly elections.

Rates Strategy:

- **Positive for rates – but limited room to rally:** Lower-than-feared fiscal deficit target and smaller market borrowing are positive for rates. Yields could push lower and the paid positions in the ND-OIS curve may lighten. That said, the room for rate easing is limited – 25bps cut more likely in April than the Feb policy.

Equity Research View:

- **Largely along expected lines** – The key provisions in the Union budget were largely in line: (a) income tax cut for the lowest slab (from 10% to 5%) and for small enterprises (30% to 25%), (b) rural/infra push – spending up c11% yoy, (c) medium term initiatives like digital, divestments, etc. No long-term capital gains on equities came in as a relief. The budget tries to balance multiple priorities – spur consumption/rural/infra trying to stick close to the targets on fiscal consolidation. Our view remains constructive – target of 30k for Sensex (+7%).
- **Digital, political party funding, divestments – eye on the future** – The push on digital and “less cash” continues with further initiatives. The FM also spoke about the divestments of various public sector enterprises. Initiatives on political funding should also be a medium-term positive. Initiatives with an eye on the future are highlighted in Figure 13. *(Continued on page 2)*

Economics

Samiran Chakraborty^{AC}
+91-22-6175-9876
samiran.chakraborty@citi.com

Anurag Jha^{AC}
+91-22-6175-9877
anurag.jha@citi.com

Rates Strategy

Siddharth Mathur ^{AC}
+65-6657-4183
siddharth.mathur@citi.com

Equity Strategy

Surendra Goyal, CFA ^{AC}
+91-22-6175-9870
surendra.goyal@citi.com

Vijit Jain
+91-22-6175-9887
vijit.jain@citi.com

See Appendix A-1 for Analyst Certification, Important Disclosures and non-US research analyst disclosures.

Citi Research is a division of Citigroup Global Markets Inc. (the "Firm"), which does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the Firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision. Certain products (not inconsistent with the author's published research) are available only on Citi's portals.

- **Key sectors/stocks which benefit** – (a) **Consumption** (rural-focused names to benefit more) – M&M, Maruti, Hero, Emami; (b) **LNG Gas** – Petronet, IGL, GSPL; (c) **Cement** – push on affordable housing and infra - Ultratech, Shree; (d) **Defence** – Bharat Electronics. Any pick-up in growth should also help **financials** – while PSU banks have rallied higher, the PSU bank recap provision at Rs100bn may constrain growth, in our view – we continue relatively to prefer private banks.

Economics View: Balanced with Capex Focus

Economics

Samiran Chakraborty

+91-22-6175-9876

samiran.chakraborty@citi.com

Anurag Jha

+91-22-6175-9877

anurag.jha@citi.com

Midway between fiscal consolidation and stimulus

The finance minister projects the fiscal deficit to GDP ratio to come down to 3.2% in FY18 from 3.5% in FY17. It falls short of the government's earlier roadmap of 3% but is better than our estimate of 3.4%. Going forward, the FRBM committee has suggested making the debt/GDP ratio the most important metric and wants it to be brought down to 60% of GDP by 2023 (~67% now). To achieve this objective, the government will target the central fiscal deficit at 3% of GDP for three years beginning FY19.

Figure 1. Budget Snapshot – Rs bn, %YoY

Rs bn	FY16A	FY17BE	FY17RE	FY18BE	%YoY
a. Revenue receipts	11,950	13,770	14,236	15,158	6.5
Tax revenues	9438	10541	10888	12270	12.7
Non-tax	2513	3229	3348	2888	-13.7
b. Non-debt cap receipts	730	671	566	844	49.2
Recoveries of loans	308	106	111	119	7.8
Divestments	421	565	455	725	59.3
c. Total receipts (a+b)	12,680	14,442	14,801	16,002	8.1
d. Revenue expenditure	15378	17310	17346	18369	5.9
f. Capital expenditure	2530	2470	2798	3098	10.7
j. Total expenditure (d+f)	17,908	19,781	20,144	21,467	6.6
i. Fiscal Balance (c-j)	-5228	-5339	-5343	-5465	
% to GDP	-3.9	-3.5	-3.5	-3.2	
Revenue Balance (a-d)	-3427	-3540	-3110	-3212	
% to GDP	-2.5	-2.4	-2.1	-1.9	
Primary Balance (j-1)	-802	-412	-416	-539	
% to GDP	-0.6	-0.3	-0.3	-0.3	
GDP assumption	135,761	150,581	150,761	168,475	11.8

Source: Budget Documents, Citi Research

Revenue projections appear credible – tax relief for many

Tax projections driven by consideration of equitable distribution: Unchanged long-term capital gains tax sentiment positive, unchanged corporate tax rate for large companies and income tax tweaking were in line with our expectations. Sharp cut in corporate tax rate (from 30% to 25%) for companies with turnover < INR 500mn indicates the preference to grow MSMEs. Similarly the income tax adjustment was such that the benefits accrue more to the lower income segment while the tax burden of the higher income segment will go up. The proposed changes could increase the tax burden for 150,000 taxpayers (income > INR 0.5mn per annum) while it would benefit roughly 22.6mn people. The revenue foregone from direct taxes was INR 200bn, close to our estimate of INR 250bn. Major indirect tax changes were postponed keeping impending GST implementation in mind.

Figure 2. Trends in Revenues (Rs Bn)

Rs Bn	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17RE	FY18BE
Direct Tax	3,671	4,378	4,873	5,528	6,325	6,873	7,409	8,471	9,800
% YoY	14.9	19.2	11.3	13.4	14.4	8.7	7.8	14.3	15.7
% GDP	5.7	5.6	5.6	5.6	5.6	5.5	5.5	5.6	5.8
Corporation tax	2,447	2,987	3,228	3,563	3,947	4,289	4,532	4,939	5,387
% YoY	14.7	22.1	8.1	10.4	10.8	8.7	5.7	9.0	9.1
% GDP	3.8	3.8	3.7	3.6	3.5	3.4	3.3	3.3	3.2
Income tax	1,224	1,391	1,645	1,965	2,378	2,583	2,876	3,532	4,413
% YoY	15.4	13.6	18.3	19.5	21.0	8.6	11.3	22.8	24.9
% GDP	1.9	1.8	1.9	2.0	2.1	2.1	2.1	2.3	2.6
Indirect Tax	2,447	3,445	3,917	4,737	4,963	5,441	7,098	8,519	9,269
% YoY	-9.2	40.8	13.7	20.9	4.8	9.6	30.5	20.0	8.8
% GDP	3.8	4.4	4.5	4.8	4.4	4.4	5.2	5.7	5.5
Excise duty	1,030	1,377	1,449	1,758	1,695	1,881	2,881	3,874	4,069
% YoY	-5.2	33.7	5.2	21.3	-3.6	11.0	53.1	34.5	5.0
% GDP	1.6	1.8	1.7	1.8	1.5	1.5	2.1	2.6	2.4
Customs collections	833	1,358	1,493	1,653	1,721	1,880	2,103	2,170	2,450
% YoY	-16.6	63.0	10.0	10.7	4.1	9.3	11.9	3.2	12.9
% GDP	1.3	1.7	1.7	1.7	1.5	1.5	1.5	1.4	1.5
Service tax	584	710	975	1,326	1,548	1,680	2,114	2,475	2,750
% YoY	-4.1	21.6	37.3	36.0	16.7	8.5	25.9	17.1	11.1
% GDP	0.9	0.9	1.1	1.3	1.4	1.3	1.6	1.6	1.6
Gross Tax Collections	6,245	7,931	8,892	10,362	11,387	12,449	14,556	17,032	19,116
% YoY	3.2	27.0	12.1	16.5	9.9	9.3	16.9	17.0	12.2
% GDP	9.6	10.2	10.2	10.4	10.1	10.0	10.7	11.3	11.4
Net Tax Collections	4,565	5,699	6,298	7,419	8,159	9,036	9,438	10,888	12,270
% YoY	3.0	24.8	10.5	17.8	10.0	10.8	4.4	15.4	12.7
% GDP	7.0	7.3	7.2	7.5	7.2	7.2	7.0	7.2	7.3

Source: Budget Documents, Citi Research

Tax revenue expectations credible: Gross tax revenue growth of 12% in FY18 is in line with the nominal GDP growth and it appears to us that any positives from better tax-compliance have not been explicitly factored in. Income tax growth at 25% (23% in FY17) builds in some buoyancy from better tax collection/IDS1 but it is difficult to say how much has been budgeted from demonetization-led tax scrutiny. In our view, there is some scope for upside surprise in tax revenue collection; however, any near-term headwinds from GST implementation could be a balancing factor. In particular, service tax could be higher than budgeted, especially if digital payments increase tax compliance and the service tax rate goes up under GST. Excise duty growth expected at 5% for FY18 (34% in FY17) quite naturally bakes in the possibility that the petro-product excise windfall will dwindle in FY18.

Though some uncertainty exists around non-tax revenue projections

Budgeted divestment proceeds (Rs725bn) and RBI dividend (Rs749bn) appear to be optimistic. However, several suggestions are in place for higher divestment proceeds – improving revenue collection from strategic divestment of loss-making PSUs, listing of government-owned insurance companies and railways-linked companies, and a new ETF of PSUs. No specific revenue from additional telecom spectrum auction has been budgeted. Also, longer-term issues like monetization of land holdings were not discussed.

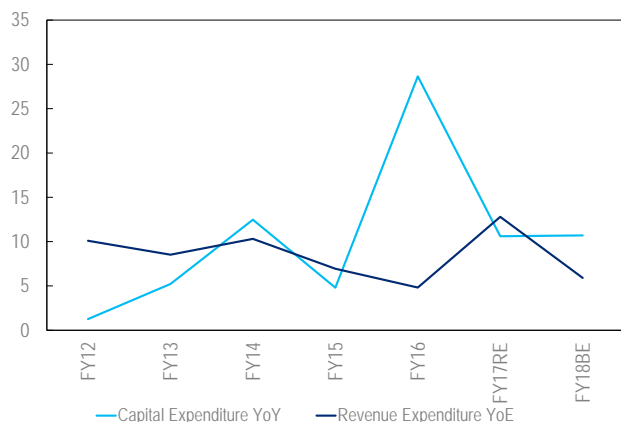
Expenditure Skew Shifts Back to Capex

Spending on rural/social and infra continues

The total expenditure growth projected for FY18 was quite moderate at 7%YoY and skewed more towards capital spend (11% YoY) than revenue spend (6% YoY). This

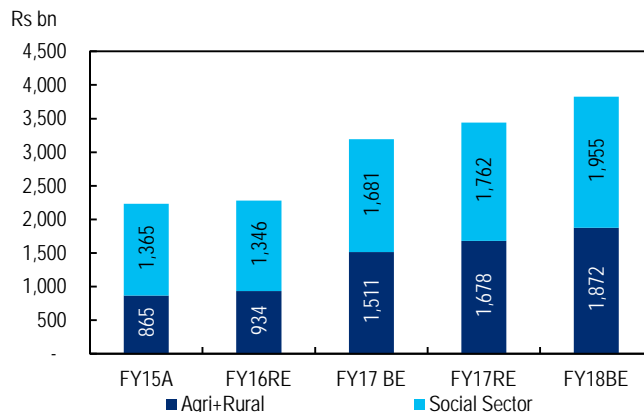
restores the quality of government expenditure, which deteriorated somewhat in FY17 on account of pay commission payouts. Also, in our view, this skew reflects that the government refrained from turning overly populist in this budget despite the upcoming assembly elections.

Figure 3. Govt. expenditure skew shifts back to Capex



Source: Budget Documents, Citi Research

Figure 4. Rural/Social Sector remains the focus area (Rs Bn)



Source: Budget Documents, Citi Research

Rural spending gets a 12% boost while infrastructure spending is budgeted at INR 3.96trn. Transport infra gets 61% of the overall infra spend, giving affordable housing infrastructure status can increase capex in that sector. It's interesting to note that the government is increasingly focused on streamlining expenditure into key flagship schemes rather than introducing new schemes.

Figure 5. Allocation for the flagship government schemes (Rs bn)

Scheme	FY17 BE	FY17 RE	FY18 BE	%YoY
MGNREGS	385	475	480	1%
Sarva Shiksha Abhiyan+ edun mission	280	282	296	5%
Pradhan Mantri Awas Yojna (PMAY)	201	209	290	39%
National Health Mission (NHM)	208	226	271	20%
Pradhan Mantri Gram Sadak Yojna	190	190	190	0%
Integrated Child Development Scheme	161	166	208	25%
Green Revolution+White Revolution	137	117	154	32%
Swachh Bharat Abhiyan (SBA)	113	128	162	27%
National Programme of Mid-day Meals	97	97	100	3%
Pradhan Mantri Krishi Sinchai Yojna	57	52	74	42%
National Rural Drinking Water Programme	50	60	61	1%
Employment gen other than MGNREGS	81	107	116	9%
National Livelihood Mission (NLM)	32	33	48	45%
Total	1992	2142	2451	14%

Source: Budget Documents, Citi Research

Some hits on reforms....: Plan to abolish the Foreign Investment Promotion Board (FIPB) which used to vet FDI proposals under the approval route would be the right step towards a more liberalized FDI regime. The anti-corruption stance of the government gets a further boost as it clamps down on cash funding of political parties (max Rs2,000 permitted now as a cash donation) and proposes to issue electoral bonds. Restricting any transaction above Rs0.3mn in cash would also promote digital/formal payment of large transactions. Expansion of National Agricultural Market to 585 mandis (from 250 now) and urging states to remove perishables from the APMC Act could help farmers in better price discovery. The

spending on rural infrastructure – roads, irrigation, electrification, housing and sanitation – seems to be moving in the right direction and the government is keen to continue on that path.

Figure 6. Push for some of the Key Infrastructure Ministries – Roads, Railways, Power (Rs bn)

	FY15A	FY16RE	FY17BE	FY17RE	FY18BE	FY18YoY
Road and Highways	330	471	578	525	649	24%
Railways	301	320	450	462	550	19%
Petroleum, Natural Gas	603	313	292	302	292	-3%
Urban Development	132	180	245	325	342	5%
Telecommunications	109	203	184	243	267	10%
Power	132	80	123	105	139	32%
Atomic Energy	90	114	117	120	125	4%
Space	58	70	75	80	91	14%
Water Resources	55	70	62	48	69	44%
New Renewable Energy	5	3	50	44	55	25%
Civil Aviation	66	42	26	35	27	-23%
Shipping	10	14	15	15	18	20%
Coal	7	6	4	6	7	17%
Sub total	1900	1885	2221	2310	2631	14%

Source: Budget Documents, Citi Research,

....and some misses: Except for a broad push towards affordable housing which can create jobs, any new job creation program was missing in the budget. It talks about introducing some labor reforms during the course of the year which could be more in the form of simplification and rationalization. The allocation towards bank recapitalization (Rs100bn) was in line with the government's earlier plans but given the extent of the problem, the market was hoping for a stronger push or a new strategy.

Financing the deficit – Less Reliance on Market Borrowing

The fiscal deficit projected for FY18 (Rs5.46trn) is marginally higher than the FY17RE of Rs5.34trn. However, the financing pattern of FY17 deficit has changed substantially from what was budgeted. In the budget estimate ~82% of the deficit was likely to be financed through market borrowing but because of extremely high collections in small savings (Rs903bn vs. Rs221bn budgeted), only ~68% of the deficit had to be financed through market borrowing. The government is hoping that this trend will continue in FY18 as well and budgeting collection from small savings at Rs1trn. As a result, the proportion of deficit likely to be financed by market borrowings in FY18 will only be ~64%. A higher interest differential between bank deposits and small saving rates encouraged the large build-up in small savings in FY17 and it remains to be seen whether this trend will continue in FY18 as well. The Rs535bn budgeted under "other receipts" to fund the deficit is also unusually high.

Government's fiscal prudence is positive for fixed income. The better than feared deficit target and commitment to fiscal consolidation will keep hopes of a RBI rate cut alive. The effective gross issuance requirement of Rs5.8tn (lower than FY17's Rs5.82tn) should also calm sentiment in bond markets. The net market borrowing for FY18 at RS3.48trn looks lower because the government has explicitly planned to buy back RS750bn of securities in FY18. In fact, even for FY17 there is a plan of a Rs595bn buyback of securities which will bring down the net borrowing to Rs3.47trn, similar to the FY18 estimate. Plans for bond buybacks in the final two months of FY17 should also support sentiment. While the timing of RBI cuts remains uncertain, investors are now unlikely to question the possibility of one 25bp rate cut that is currently priced into the OIS curve. Yields are likely to push lower and the paid positions in the ND-OIS curve may lighten. Accordingly, we have

closed our paid 5y INR ND-OIS position. That said, we recognize that room for a fixed income rally is limited as inflation likely is bottoming and global reflationary expectations strengthen. The budget reinforces our view of another 25bps cut in repo rate, but more likely in April policy than Feb.

INR may also find some breathing room but external factors likely will remain dominant. The positive equities sentiment in response to the budget may keep INR bears at bay for now. However, we believe that the medium-term trend remains dependent upon the broader USD trend, global risk sentiment and oil prices. The tailwinds from declining oil prices and widening real rates are now dissipating, and issues of competitiveness may soon arise. We are tactically neutral INR for now, and are no longer bullish for the medium term.

Figure 7. Financing of Fiscal Deficit – Net Market Borrowing to Decline (Rs bn)

INR bn	FY 2017-18	FY 2016-17 BE	FY 2016-17 RE
Fiscal deficit	5,465.32	5,339.04	5,342.74
Net small savings	1,001.57	221.08	903.77
Other forms of funding	981.48	866.15	966.78
Net bond issuance	3,482.26	3,501.81	3,472.19
Net short term issuance	20.02	166.49	186.30
Net issuance	3,502.28	3,668.30	3,658.48
Redemptions originally due in 2017-18	2,280.99		
Switches due by end-March 2017	405.10		
Buybacks due by end-March 2017	308.15		
Effective redemptions due in 2017-18	1,567.74	1,748.19	1,752.92
Buybacks scheduled for 2017-18	750.00	-	594.90
Effective gross issuance in 2017-18	5,800.00	5,250.00	5,820.00
Additionally: switches scheduled	250.00	750.00	405.10
Gross issuance including switches	6,050.00	6,000.00	6,225.10

Source: Budget Documents, Citi Research

Government Finances

Figure 8. Snapshot of Indian Government Finances (Rs Bn)

Rs bn, year end March	FY12	FY13	FY14	FY15	FY16	FY17RE	FY18BE
Revenue							
a. Gross Tax Revenue	8,892	10,359	11,387	12,449	14,556	17,032	19,116
% to GDP	10.2	10.4	10.1	10.0	10.7	11.3	11.4
% YoY	12.1	16.5	9.9	9.3	16.9	17.0	12.2
Corporation tax	3,228	3,563	3,947	4,289	4,532	4,939	5,387
Income tax	1,645	1,965	2,378	2,583	2,876	3,532	4,413
Excise duty	1,449	1,758	1,695	1,881	2,881	3,874	4,069
Import duty	1,493	1,653	1,721	1,880	2,103	2,170	2,450
Service Tax	975	1,326	1,548	1,680	2,114	2,475	2,750
Other Taxes	101	93	99	135	50	43	47
b. (-) Devolvement to States & UTs	2,594	2,944	3,229	3,413	5,119	6,145	6,846
c. Net tax revenues (a-b)	6,298	7,415	8,159	9,036	9,438	10,888	12,270
d. Non tax revenues	1,217	1,374	1,989	1,979	2,513	3,348	2,888
e. Net revenue receipts (c+d)	7,514	8,792	10,147	11,015	11,950	14,236	15,158
f. Non-debt capital receipts	369	410	419	515	730	566	844
Recovery of loans	189	151	125	137	308	111	119
Privatisation/Disinvestment	181	259	294	377	421	455	725
g. TOTAL REVENUES (e+f)	7,884	9,202	10,566	11,530	12,680	14,801	16,002
% YoY	-4.3	16.7	14.8	9.1	10.0	16.7	8.1
Expenditure							
h. Revenue expenditure	11,458	12,435	13,718	14,670	15,378	17,346	18,369
Interest (1)	2,732	3,132	3,743	4,024	4,426	4,831	5,231
Defence	1,030	1,113	1,244	1,367	1,501	1,750	1,825
Subsidies	2,179	2,571	2,546	2,583	2,578	2,605	2,723
Pensions	612	695	749	936	957	1,282	1,312
i. Capital expenditure	1,586	1,669	1,877	1,967	2,530	2,798	3,098
l. TOTAL EXPENDITURE (h+i) = (j+k)	13,044	14,104	15,594	16,637	17,908	20,144	21,467
% YoY	8.9	8.1	10.6	6.7	7.6	12.5	6.6
Deficit trends							
m. Fiscal Balance (g-l)	-5,160	-4,902	-5,029	-5,107	-5,228	-5,343	-5,465
% to GDP	-5.9	-4.9	-4.5	-4.1	-3.9	-3.5	-3.2
Revenue Balance (e-h)	-3,943	-3,643	-3,570	-3,655	-3,427	-3,110	-3,212
% to GDP	-4.5	-3.7	-3.2	-2.9	-2.5	-2.1	-1.9
PrimaryBalance (m-1)	-2,428	-1,770	-1,286	-1,083	-802	-512	-235
	-2.8	-1.8	-1.1	-0.9	-0.6	-0.3	-0.1
Financing the deficit							
Market borrowings (Net)	4,362	4,674	4,536	4,451	4,041	3,472	3,482
PPF & special deposits	108	109	98	119	119	130	140
Small savings	-103	86	124	322	525	904	1,002
Net external assistance	124	72	73	129	127	149	158
Others	828	471	391	-692	385	286	555
Cash Drawdown	-160	-510	-192	777	32	402	128
Total financing	5,160	4,902	5,029	5,107	5,228	5,343	5,465
Gross Borrowing (incl buyback/switch)	5098	5580	5641	5903	6233	6225	6050

Source: Budget Documents

Equity Strategy

Surendra Goyal, CFA

+91-22-6175-9870

surendra.goyal@citi.com

Vijit Jain

vijit.jain@citi.com

Equity Research View – Largely in Line

This budget was expected to focus on rural, infrastructure and direct taxes in the near term – it came in line with outlays on rural and infrastructure rising c11% YoY. The government also cut direct income taxes for the vast majority of the tax payers – should boost consumption, at the margin. The feared long-term capital gains taxes didn't materialize – causing relief to investors.

The budget maintained an eye to the future – the government announced a series of proposed legislative/policy reforms designed to push the digital economy, spur manufacturing and job creation, curb black money and promote financial inclusion. Finally, we are also constructive on the government's focus on a) improving targeting of government spending and b) improving/monitoring outcomes.

Consumption Stimulus

96% of domestic companies (MSMEs) and 99% of individual income tax filers (20mn) are expected to benefit from the cut in the corporate tax rate to 25% from 30% and the change in the lowest tax slab from 10% to 5% in personal income taxes (see Figure 9). The cuts in the income tax rate coupled with focus on rural spending (up ~11% YoY) in the budget should aid consumption recovery, in our view.

Figure 9. Major Tax Changes: Boost to consumption and smaller enterprises

Tax	Change
Corporate Tax	Corporate income tax rate for SMEs with annual turnover <Rs500mn cut to 25% from 30% 96% of Indian corporates expected to benefit, as per the Finance Minister
Personal Tax	1. Personal Tax Rate for Rs0.25mn-Rs0.5mn cut to 5% from 10% earlier 2. New surcharge of 10% for individuals with income between Rs5mn-10mn

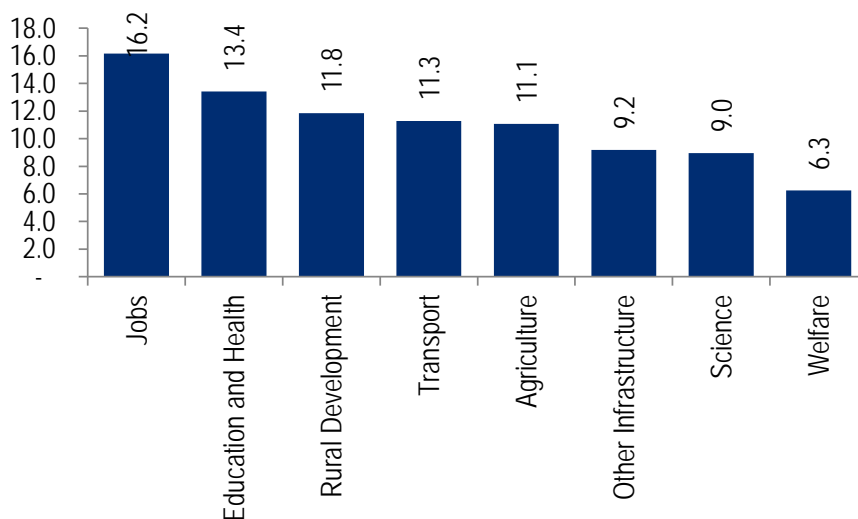
Source: Budget Speech, Citi Research

Figure 10. Impact on personal income taxes

Tax Slabs	Current income tax	Impact on Direct Tax
Rs0.25mn-Rs0.5mn	<25,000	50%
Rs 0.5mn-1mn	25,000-125,000	10-50%
Rs1mn-5mn	125,000-1.4mn	1-10%
Rs5mn-10mn	1.4-3mn	-10% - 0%
>Rs10mn	>3mn	<1%

Source: Government of India, Citi Research

Figure 11. YoY growth in allocation to various focus sectors (vs. FY17RE)



Source: Government of India, Citi Research

Focus of spending remains on Infrastructure

Figure 12. Focus on rural, infrastructure and overall capital spending

Sector	Outlay
Rural	Rs1.87tn (Up 24% vs FY17BE and Up 11% vs FY17RE) Rural Housing: Up 50% to Rs230bn
Infrastructure	Roads: Up 11% YoY to Rs650bn Railways: Up 19% YoY to Rs550bn (Metro: Up 15% YoY to Rs180bn) Total Transportation: Up 11% to Rs2.4tn Total Infrastructure: Up 11% to Rs4.0tn
Total Capital Expenditures	Up ~11% YoY (vs revised FY17E ests) and ~25% yoy (vs FY17E budgeted estimate)

Source: Government of India, Citi Research Note: FY17BE: Mar-16 Budgeted estimate for FY17 in last year's budget FY17RE: Feb-17 Revised estimate of actual spending in FY17

Eye to the future

Figure 13. Key Long-Term Reforms Announced

Reform Area	Announcement
Digital Economy	Launch of Aadhar Pay – merchant version of Aadhar Enabled Payment System, comprehensive payment regulation reforms
Labor	Announced proposal to rationalize labor reforms (70+ labor laws) into 4 codes
Disinvestments	To revise mechanism for listing of PSUs
FDI	FIPB to be abolished
Black Money	1. Disallow cash transactions > Rs300,000 Political Party Funding: 1. Cash donations to be capped at Rs2,000 2. To Amend RBI Act to allow issue of electoral bonds
Bankruptcy Reform	Specialized resolution mechanism to deal with bankruptcy in financial companies – Bill to be introduced in the current session of parliament
Financial Inclusion	Doubled lending target under Mudra Yojana for priority lending to SC/ST/Women/Minorities etc. to Rs2.4tn
Infrastructure	New Metro Rail Policy to be announced Affordable Housing to be accorded infrastructure status
Higher Education	UGC Reforms to give greater autonomy to quality institutions of higher education, new framework for outcome based accreditation

Source: Citi Research

Sectors/stocks

- **Autos/Consumer** – impetus to rural economy and agri sector in particular should help. Increase in disposable income is also a positive. Key ideas – **M&M, Maruti, Hero, Emami**. Modest excise duty increase is a positive for **ITC**.
- **Gas** – reduction in customs duties on LNG from 5% to 2.5% is a positive. We have a positive view on the space given the medium-term visibility of earnings. Key ideas – **PLNG, IGL, GSPL**.
- **Cement** – Multiple initiatives on housing, roads, etc., should help – (a) affordable housing to be given infrastructure status; (b) 100% deduction on profits for developing housing projects with carpet area <30/60 sq. m in metros/other locations; (c) 10 m houses to be constructed in rural areas; (d) increase in allocation to road transport and highways. Key ideas – **Ultratech, Shree**.
- **Defence** – Increased capital outlay (+21%) is a positive for **Bharat Electronics**.
- **Financials**– Rural/agri push and pickup in consumption should have a positive rub-off. Infrastructure status to affordable housing is also a positive although the restriction on set off of loss from house property against income against any other heads could be a negative. Push towards digital is also a structural positive. PSU bank recap is not enough to drive growth – we relatively prefer **private banks**.

Figure 14. Key Sector Announcements

Sector	Announcements	Impact	Positive /Negative /Neutral	Companies Impacted
Autos				
#1	Impetus to overall rural economy and agricultural sector in particular (higher agri credit, extension of interest waiver)	Boosts rural demand	Positive	M&M, Maruti, Hero MotoCorp
#2	Relaxation in tax burden at lower income group	Buoys disposable income	Positive	Maruti, Hero MotoCorp, Bajaj Auto
#3	Higher defence outlay	Will help in higher defence equipment demand	Positive	Bharat Forge, Ashok Leyland
#4	Increase in infrastructure related expenditure (including Make In India)	Higher infrastructure capex	Positive	Bharat Forge, Ashok Leyland, Tata Motors
Banking				
#1	Affordable Housing - Infrastructure status provided to affordable housing and the defined area has been changed from built up area to carpet area (size remaining same; 30 to 60 sq. mtr.)	Helps in decreasing borrowing costs for developers and increases the area of affordable housing by ~30%	Positive	LIC Housing Finance, HDFC, housing finance NBFCs
	Set off of loss from house property (let out) to be restricted to Rs0.2m vs. no limit earlier	Potential reduction in demand for houses for investment purposes (esp. higher ticket houses in metros)	Negative	Housing finance companies, Banks with large housing portfolios
#2	PSU Banks recapitalization - No additional capital infusion	Under capitalized banks need capital to meet Basel III requirements by March 2019	Negative	Public sector banks
#3	Promoting Digitalization - Banks will be encouraged to introduce 2 million Aadhar based PoS by September 2017; limit on cash transactions (Rs0.3m)	Will encourage formal financing channel	Positive	All banks
#4	Tax exemption on allowable provision for NPA from 7.5% to 8.5% of income	Helps reducing tax on the provisions set aside for NPA'S	Positive	Companies with asset quality challenges
#5	Listing and Trading of Security receipts issued by a securitization company or a reconstruction company in SEBI registered stock exchanges	Potential impetus for sales of NPLs to ARCs	Positive	Companies with asset quality challenges
#6	Systematically important NBFC's regulated by RBI and above a certain net worth will be categorized as QIBs and eligible for participation in IPOs	Will strengthen IPO market	Positive	
Cement				
#1	Affordable housing to be given infrastructure status	Lower cost of funding for developers leading to increase in affordable housing projects	Positive	All cement producers
#2	100% deduction of profits/gains for developing housing projects for carpet area <30/60sqm in metros/other locations and extend period of completion from 3 to 5 years	Better profitability leading to increase in affordable housing projects.	Positive	All cement producers
#3	10m houses to be constructed by FY19 in rural areas (already announced earlier)	Higher cement demand	Positive	All cement producers
#4	Additional Rs200m to be contributed to long term irrigation fund under NABARD.	Higher cement demand	Positive	All cement producers
#5	~24% increase in allocation to road transport and highways.	Higher cement demand	Positive	All cement producers
Consumer				
#1	Modest 6% increase in excise duties for cigarettes	Could support industry volumes	Positive	ITC, VST, Godfrey
Agriculture / Healthcare				
#1	Sops for Agriculture - Several announcements, including raise in agri credit, NABARD funding, dedicated micro irrigation fund, model law on contract farming, Fasal Bima Yojna etc.	Easier availability of credit and higher disposable income for farmers	Positive	All Agchem companies
#2	Status quo has been maintained in Pharma - No major announcement for Pharma and healthcare sector in the budget	Lower drug prices	Neutral	All Pharma companies

Source: Citi Research

Figure 15. Key Sector Announcements (contd.)

Sector	Announcements	Impact	Positive /Negative /Neutral	Companies Impacted
Industrials				
#1	Defence outlay(ex-pensions) has been increased 17%YoY to Rs2592bn. Defence capital outlay has been increased 21%YoY to Rs865bn	Will lead to increase in defence sector orders.	Positive	Bharat Electronics, L&T under our coverage
Infrastructure				
#1	Railways - a) has targeted investments of Rs1310bn in FY18; budgetary allocation has increased 19%YoY to Rs550bn. b) will implement end-to-end solutions for select commodity transport. c) has set up JVs with states; 70 projects have been identified for construction and development d) A new metro rail policy will be announced and a new metro rail act enacted	Will provide a boost to railway infrastructure.	Positive	L&T
#2	Road transport and highway outlay has been increased 24%YoY to Rs649bn	Will provide an impetus to road award/construction activity.	Positive	Road EPC companies/L&T
#3	Select airports in tier 2 cities will be taken up for operation and maintenance under PPP mode	Will strengthen airport infrastructure	Positive	GMR
#4	A programme for development of multi-modal logistics parks, together with multi-modal transport facilities will be drawn up and implemented	Will strengthen logistics infrastructure	Positive	
#5	The required mechanism for streamlining resolution of disputes in infra related construction contracts would be instituted as a part of the Arbitration and Conciliation Act 1996; an amendment bill would be introduced for the same	Will fasten dispute resolution	Positive	All infrastructure companies which have pending disputes
#6	The interest paid by an Indian company or permanent establishment of a foreign company, in excess of 30% of EBITDA, or interest paid to its associated enterprise, whichever is less, shall not be allowed as deduction in computing its taxable profit. It has also been proposed to allow carry forward and set off of the interest so disallowed for 8 assessment years	Profitability of some infrastructure companies to be impacted.	Negative	Some infrastructure companies may be impacted.
IT				
#1	Measures to boost Digital Economy like proposal to create Payments Regulatory Board, launching Aadhar Pay, new schemes to promote usage of BHIM etc	Greater quantum of work from India	Positive	Companies with relatively greater focus on India like Wipro, L&T Infotech
#2	Measures focused on education and skill building (SWAYAM platform, setting up National Testing Agency, etc)	Reforms are longer-term positive for education and skill building	Positive	All sector companies
Metals and Mining				
#1	Import duty on Nickel (currently 2.5%) removed	Lower costs for stainless steel producers	Positive	Positive for stainless steel producers (1-2% of SAIL's volumes)
#2	Import duty on HRC steel used in the manufacture of tubes/pipes has been reduced from 12.5% to 10%	Lower cost of imported HRC	Neutral	Limited impact for major steel producers
#3	15% export duty has been introduced on aluminum ores including laterite (Not bauxite as bauxite already attracts 20% export duty)	Lower exports of aluminium ores	Neutral	Negligible impact for Indian aluminium producers
#4	CVD @ 12.5% imposed (nil earlier) on silver (>99.9% silver content)	Higher silver prices	Positive	Slight positive for Hindustan Zinc as silver accounts for ~20% of EBITDA

Source: Citi Research

Figure 16. Key Sector Announcements (contd.)

Sector	Announcements	Impact	Positive /Negative /Neutral	Companies Impacted
Oil and Gas				
#1	Reduction in customs duty on LNG from 5% to 2.5%	Cost of imported LNG will fall	Positive	Companies in the LNG value chain such as importers (PLNG, GAIL), transporters (GSPL, GAIL), and distributors (IGL, MGL)
#3	Proposal to create integrated PSU oil major	Too early to determine. In the past, nothing fructified of such proposals given complexity. Negatives (integration issues, not good for competition/customers) outweigh positives (size & scale)	Too early to determine	
#4	Enhance capacity of strategic crude oil reserves (from 3 to 5 facilities, taking total capacity to 15.33 MMT)	Improves national energy security at the margin	Neutral	None
Real Estate				
#1	Affordable housing to be given infrastructure status	Lower cost of funding	Positive	None - large listed developers do not cater to this segment
#2	100% deduction of profits/gains for developing housing projects for carpet area <30/60sqm in metros/other locations and extend period of completion from 3 to 5 years	More projects come under the purview as definition changed from built up area to carpet area	Positive	None - large listed developers do not cater to this segment
#3	NHB to refinance individual housing loans of Rs200bn and interest subvention for housing loans announced by PM	Boosts end user demand	Positive	None - large listed developers do not cater to this segment
#4	Restricts set off of loss from second house property to up to Rs0.2mn - loss not so set off allowed to be carried forward for set off against house property income for 8 AY	Puts pressure on investor-led demand	Negative	All developers, especially those with greater exposure to NCR/Mumbai with relatively higher investor demand
#5	Period for availing LTCG benefit for land/property reduced to 2 years from 3 years	Marginally positive for investment demand	Marginally positive	All developers, especially those with greater exposure to NCR/Mumbai with relatively higher investor demand
Telecom				
#1	Government has budgeted revenue of Rs443bn from the telecom sector	This implies no new spectrum auction planned during the year	Positive	Operators B/S are already stretched so any auction would have been a negative. Positive for Airtel, Idea
#2	Incentive schemes for electronic manufacturing. The custom duty on PCBs for use for manufacture of mobile phones increased to 2% from 0% earlier	Encourage domestic manufacturing	N/A	N/A
Internet				
#1	Introduction of Aadhar enabled Payment System	Encourage digital payment	N/A	N/A
#2	High speed broadband connectivity in more than 150k gram panchayats	Encourage data usage	N/A	N/A
#3	Relaxation of condition to carry forward losses in start-ups. Profit exemption available to start-ups for 3 years out of 5 years is changed to 3 out of 7 years. Condition of continuous holding of 51% of voting rights has been related subject to the original promoters continuing in the company	Encourage entrepreneurship	Positive	All internet start ups
#4	Referral bonus scheme to promote for individuals, cashback scheme for merchants to use BHIM app	Encourage digital payments	N/A	N/A
Utilities				
#1	100% rural electrification target to be met by 1st May 2018.	Will support power demand growth.	Positive	All sector companies
#2	Allocation under IDPS and DDUGJY has been increased to Rs106bn from Rs79bn.	Will support power demand growth.	Positive	All sector companies
#3	The second phase of solar park development for additional 20GW solar capacity will be taken up.	Will support renewable energy generation in India	Positive	L&T

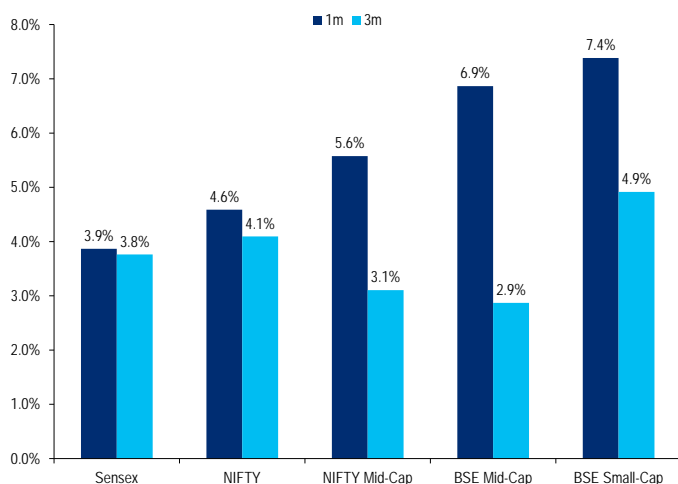
Source: Citi Research

Markets: Initial reaction positive

Indian equities have done well in the run-up to the budget this year – Sensex is up c4% in the last one month and was up ~2% on the budget day – the mid-cap/small-cap indices have done better and among sectors, cyclicals (Metals, Consumer Durables and Banks) have outperformed. MSCI India has been flat vs. MSCI EM and has O/P against MSCI World in the last 1m (3m: U/P vs. both).

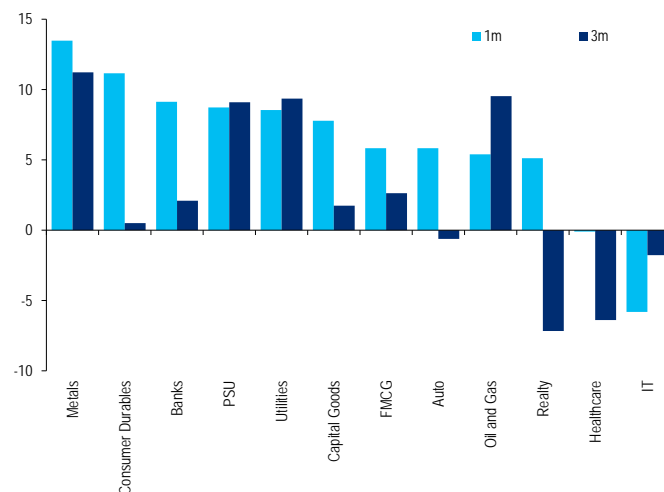
Historically, market performance following the budget has been mixed – in fact, in the last five years, Sensex has delivered significant positive returns in only FY17 (Figure 21 - broader EM rally coincided). Capital Goods, Autos, IT and Healthcare sectors have the best 1m post budget average returns over the past 15 years. Banks and Energy have fared the worst (see Figure 20).

Figure 17. Performance of benchmark indices going into the budget



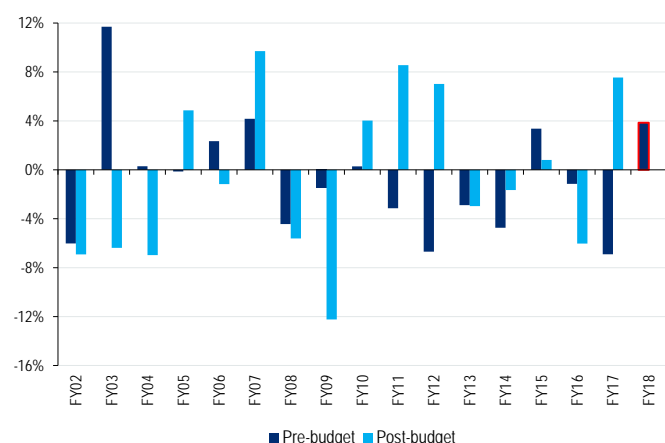
Source: Bloomberg and Citi Research

Figure 18. Sector performance going into the budget



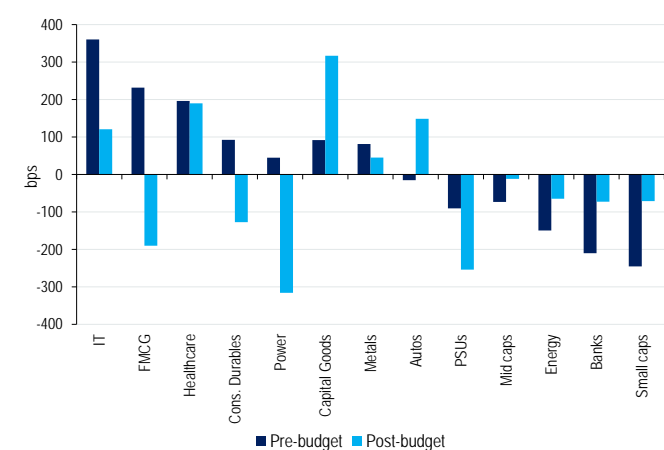
Source: Bloomberg and Citi Research

Figure 19. Sensex 1m performance historically in the run up to/post budget



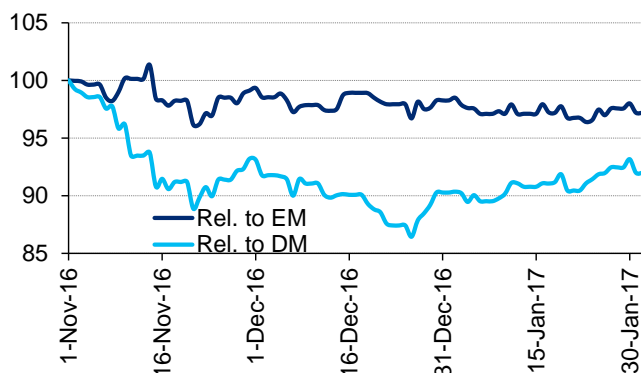
Source: Bloomberg and Citi Research

Figure 20. Sectors performance historically in the run-up-to/post budget



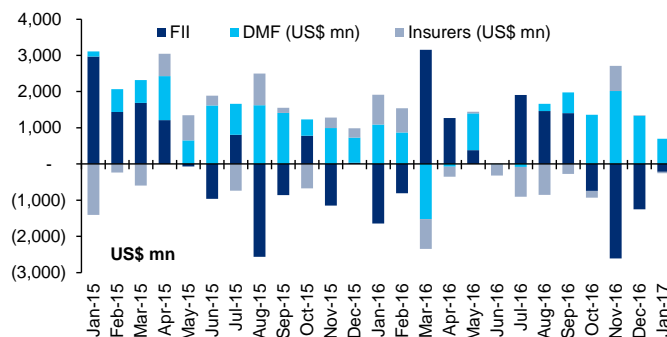
Source: Bloomberg and Citi Research

Figure 21. MSCI India performance relative to EM/DM indices



Source: Bloomberg and Citi Research

Figure 22. FII/DII Flow Trends



Source: Bloomberg and Citi Research

Companies: Ashok Leyland (ASOK.BO; Rs92.15; 1); Bajaj Auto (BAJA.BO; Rs2,856.65; 3); Bharat Electronics (BAJE.NS; Rs1,568.40; 1); Bharat Forge (BFRG.BO; Rs970.05; 2); Bharti Infratel (BHRI.BO; Rs295.30; 1); Bharti Airtel (BRTI.BO; Rs345.05; 1); Eicher Motors (EICH.BO; Rs24,007.95; 1); Emami (EMAM.BO; Rs1,106.15; 1); Exide Industries (EXID.BO; Rs202.95; 1); GAIL (GAIL.BO; Rs484.75; 3); Godfrey Phillips India Ltd (GDFR.NS; Rs1,024.95; Not Rated); GMR Infrastructure (GMRI.BO; Rs13.08; 2); Gujarat State Petronet (GSPT.BO; Rs156.25; 1); Housing Development Finance (HDFC.BO; Rs1,414.95; 1); Hero MotoCorp (HROM.BO; Rs3,284.10; 2); Hindustan Zinc (HZNC.BO; Rs305.65; 1); IDEA Cellular (IDEA.BO; Rs107.45; 3); Indraprastha Gas (IGAS.BO; Rs960.80; 1); ITC (ITC.BO; Rs269.70; 1); Larsen & Toubro (LART.BO; Rs1,490.75; 1); LIC Housing Finance (LICH.BO; Rs570.20; 2); L&T Infotech (LRTI.BO; Rs664.80; 2); Mahindra & Mahindra (MAHM.BO; Rs1,296.90; 1); Mahanagar Gas (MGAS.BO; Rs883.40; 2); Maruti Suzuki India (MRTI.BO; Rs6,172.85; 2); Oil India (OILI.BO; Rs331.35; 3); Oil & Natural Gas (ONGC.BO; Rs200.25; 2); Petronet LNG (PLNG.BO; Rs387.65; 1); Steel Authority of India (SAIL.BO; Rs65.70; 3); Shree Cement (SHCM.BO; Rs15,951.15; 1); Tata Motors (TAMO.BO; Rs541.70; 1); UltraTech Cement (ULTC.BO; Rs3,783.25; 1); VST Industries Ltd (VSTI.NS; Rs2,458.85; Not Rated); Wipro (WIPR.BO; Rs455.25; 3)

Appendix A-1

Analyst Certification

The research analysts primarily responsible for the preparation and content of this research report are either (i) designated by "AC" in the author block or (ii) listed in bold alongside content which is attributable to that analyst. If multiple AC analysts are designated in the author block, each analyst is certifying with respect to the entire research report other than (a) content attributable to another AC certifying analyst listed in bold alongside the content and (b) views expressed solely with respect to a specific issuer which are attributable to another AC certifying analyst identified in the price charts or rating history tables for that issuer shown below. Each of these analysts certify, with respect to the sections of the report for which they are responsible: (1) that the views expressed therein accurately reflect their personal views about each issuer and security referenced and were prepared in an independent manner, including with respect to Citigroup Global Markets Inc. and its affiliates; and (2) no part of the research analyst's compensation was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed by that research analyst in this report.

IMPORTANT DISCLOSURES

Due to Citigroup Global Markets Limited's involvement as advisor to Cairn Plc in relation to the proposed merger between Cairn India and Vedanta India Limited, Citi Research restricted publication of new research reports and suspended its rating and target price on the 14th of June 2015 ("the Suspension Date"). Please note that the Company price chart that appears in this report and available on Citi Research's disclosure website does not reflect that Citi Research did not have a rating or target price between the Suspension Date and the July 25th 2016 when Citi Research resumed full coverage.

A member of Research Management has a position that may be considered material to that individual in the securities of Petronet LNG

Citigroup Global Markets India Private Limited is mandated to provide a fairness opinion for HDFC Standard Life Insurance Co Ltd with regards to a potential combination through a merger of Max Life Insurance Company Limited and Max Financial Services Limited with HDFC Standard Life Insurance Co Ltd by way of a scheme of arrangement. Consequently, Citigroup is restricted from offering any view, rating or opinion on Housing Development Finance, Max Financial Services Ltd, Mitsui Sumitomo Insurance Co Ltd and Standard Life Plc.

Due to Citi acting as sole financial advisor to Kuwait Investment Authority on a Foreign Currency Convertible Bonds (FCCB) investment in GMR Infrastructure Ltd, Citi Research restricted publication of new research reports on GMR Infrastructure Limited, and suspended its rating and target price on 4 December 2015 (the 'Suspension Date'). Please note the Company price chart for GMR Infrastructure Limited that appears in this report and available on Citi Research's disclosure website does not reflect that Citi Research did not have a rating or target price between the Suspension Date and 15 December 2015 when Citi Research resumed full coverage.

Due to Citigroup Global Markets Limited's involvement as sole financial advisor to Oil and Natural Gas Corporation Videsh Limited on the announced acquisition of 15% of Rosneft Oil Company's Vankor Field, Citi Research restricted publication of new research reports on Oil and Natural Gas Corporation ('the Company'), and suspended its rating and target price on 4 September 2015 ('the Suspension Date'). Please note the Company price chart that appears in this report and available on Citi Research's disclosure website does not reflect that Citi Research did not have a rating or target price between the Suspension Date and the 10th June 2016, when Citi Research resumed full coverage.

Citigroup Global Markets Inc. owns a position of 1 million USD or more in the debt securities of Bharti Airtel Ltd

Citigroup Global Markets Inc. or its affiliates has a net long position of 0.5% or more of any class of common equity securities of Tata Motors.

Within the past 12 months, Citigroup Global Markets Inc. or its affiliates has acted as manager or co-manager of an offering of securities of Hindustan Zinc, Eicher Motors, Petronet LNG, Bharat Electronics, Bharat Forge, Oil & Natural Gas, L&T Infotech, GAIL, Larsen & Toubro.

Citigroup Global Markets Inc. or its affiliates has received compensation for investment banking services provided within the past 12 months from Steel Authority of India, Mahindra & Mahindra, Maruti Suzuki India, Eicher Motors, ITC, Ashok Leyland, Petronet LNG, Oil India, Housing Development Finance, Mahanagar Gas, GMR Infrastructure, Bharat Forge, Wipro, Tata Motors, UltraTech Cement, Oil & Natural Gas, L&T Infotech, GAIL, Larsen & Toubro, India.

Citigroup Global Markets Inc. or its affiliates expects to receive or intends to seek, within the next three months, compensation for investment banking services from Steel Authority of India, Hindustan Zinc, Petronet LNG, Oil India, Mahanagar Gas, Oil & Natural Gas, GAIL, Larsen & Toubro, India.

Citigroup Global Markets Inc. or an affiliate received compensation for products and services other than investment banking services from Steel Authority of India, Hindustan Zinc, Mahindra & Mahindra, Maruti Suzuki India, Eicher Motors, ITC, Ashok Leyland, Petronet LNG, Bajaj Auto, Oil India, IDEA Cellular, Housing Development Finance, Mahanagar Gas, Godfrey Phillips India Ltd, Emami, Bharti Infratel, VST Industries Ltd, Bharat Forge, Wipro, Tata Motors, UltraTech Cement, Oil & Natural Gas, LIC Housing Finance, Bharti Airtel, Hero MotoCorp, Exide Industries, GAIL, Larsen & Toubro, India in the past 12 months.

Citigroup Global Markets Inc. currently has, or had within the past 12 months, the following as investment banking client(s): Hindustan Zinc, Oil & Natural Gas, Mahanagar Gas, L&T Infotech, Steel Authority of India, Mahindra & Mahindra, Maruti Suzuki India, Eicher Motors, ITC, Ashok Leyland, Petronet LNG, Oil India, Housing Development Finance, GMR Infrastructure, Bharat Forge, Wipro, Tata Motors, UltraTech Cement, GAIL, Larsen & Toubro, India.

Citigroup Global Markets Inc. currently has, or had within the past 12 months, the following as clients, and the services provided were non-investment-banking, securities-related: Steel Authority of India, Mahindra & Mahindra, Maruti Suzuki India, ITC, Ashok Leyland, Petronet LNG, Bajaj Auto, Oil India, IDEA Cellular, Housing Development Finance, Mahanagar Gas, GMR Infrastructure, Godfrey Phillips India Ltd, Emami, Bharti Infratel, Bharat Forge, Wipro, Tata Motors, UltraTech Cement, Oil & Natural Gas, LIC Housing Finance, Bharti Airtel, Hero MotoCorp, Exide Industries, GAIL, Larsen & Toubro, India.

Citigroup Global Markets Inc. currently has, or had within the past 12 months, the following as clients, and the services provided were non-investment-banking, non-securities-related: Steel Authority of India, Hindustan Zinc, Mahindra & Mahindra, Maruti Suzuki India, Eicher Motors, ITC, Ashok Leyland, Petronet LNG, Bajaj Auto, Oil India, IDEA Cellular, Housing Development Finance, Mahanagar Gas, Godfrey Phillips India Ltd, Emami, Bharti Infratel, VST

Industries Ltd, Bharat Forge, Wipro, Tata Motors, UltraTech Cement, Oil & Natural Gas, LIC Housing Finance, Bharti Airtel, Hero MotoCorp, Exide Industries, GAIL, Larsen & Toubro, India.

Citigroup Global Markets Inc. or an affiliate received compensation in the past 12 months from L&T Infotech.

Citigroup Global Markets Inc. and/or its affiliates has a significant financial interest in relation to Hindustan Zinc, IDEA Cellular, Housing Development Finance, Wipro, Tata Motors, LIC Housing Finance, Bharti Airtel, Larsen & Toubro, India. (For an explanation of the determination of significant financial interest, please refer to the policy for managing conflicts of interest which can be found at www.citiVelocity.com.)

Disclosure for investors in the Republic of Turkey: Under Capital Markets Law of Turkey (Law No: 6362), the investment information, comments and advices given herein are not part of investment advisory activity. Investment advisory services are provided by authorized institutions to persons and entities privately by considering their risk and return preferences. Whereas the comments and advices included herein are of general nature. Therefore, they may not fit to your financial situation and risk and return preferences. For this reason, making an investment decision only by relying on the information given herein may not give rise to results that fit your expectations. Furthermore, Citi Research is a division of Citigroup Global Markets Inc. (the "Firm"), which does and seeks to do business with companies and/or trades on securities covered in this research reports. As a result, investors should be aware that the Firm may have a conflict of interest that could affect the objectivity of this report.

Analysts' compensation is determined by Citi Research management and Citigroup's senior management and is based upon activities and services intended to benefit the investor clients of Citigroup Global Markets Inc. and its affiliates (the "Firm"). Compensation is not linked to specific transactions or recommendations. Like all Firm employees, analysts receive compensation that is impacted by overall Firm profitability which includes investment banking, sales and trading, and principal trading revenues. One factor in equity research analyst compensation is arranging corporate access events between institutional clients and the management teams of covered companies. Typically, company management is more likely to participate when the analyst has a positive view of the company.

For securities recommended in the Product in which the Firm is not a market maker, the Firm is a liquidity provider in the issuers' financial instruments and may act as principal in connection with such transactions. The Firm is a regular issuer of traded financial instruments linked to securities that may have been recommended in the Product. The Firm regularly trades in the securities of the issuer(s) discussed in the Product. The Firm may engage in securities transactions in a manner inconsistent with the Product and, with respect to securities covered by the Product, will buy or sell from customers on a principal basis.

For important disclosures (including copies of historical disclosures) regarding the companies that are the subject of this Citi Research product ("the Product"), please contact Citi Research, 388 Greenwich Street, 28th Floor, New York, NY, 10013, Attention: Legal/Compliance [E6WYB6412478]. In addition, the same important disclosures, with the exception of the Valuation and Risk assessments and historical disclosures, are contained on the Firm's disclosure website at https://www.citivelocity.com/cvr/eppublic/citi_research_disclosures. Valuation and Risk assessments can be found in the text of the most recent research note/report regarding the subject company. Pursuant to the Market Abuse Regulation a history of all Citi Research recommendations published during the preceding 12-month period can be accessed via Citi Velocity (<https://www.citivelocity.com/cv2>) or your standard distribution portal. Historical disclosures (for up to the past three years) will be provided upon request.

Citi Research Equity Ratings Distribution

<i>Data current as of 31 Dec 2016</i>	12 Month Rating			Catalyst Watch		
	Buy	Hold	Sell	Buy	Hold	Sell
Citi Research Global Fundamental Coverage	47%	39%	14%	1%	99%	0%
% of companies in each rating category that are investment banking clients	65%	61%	60%	72%	63%	50%

Guide to Citi Research Fundamental Research Investment Ratings:

Citi Research stock recommendations include an investment rating and an optional risk rating to highlight high risk stocks.

Risk rating takes into account both price volatility and fundamental criteria. Stocks will either have no risk rating or a High risk rating assigned.

Investment Ratings: Citi Research investment ratings are Buy, Neutral and Sell. Our ratings are a function of analyst expectations of expected total return ("ETR") and risk. ETR is the sum of the forecast price appreciation (or depreciation) plus the dividend yield for a stock within the next 12 months. The Investment rating definitions are: Buy (1) ETR of 15% or more or 25% or more for High risk stocks; and Sell (3) for negative ETR. Any covered stock not assigned a Buy or a Sell is a Neutral (2). For stocks rated Neutral (2), if an analyst believes that there are insufficient valuation drivers and/or investment catalysts to derive a positive or negative investment view, they may elect with the approval of Citi Research management not to assign a target price and, thus, not derive an ETR. Analysts may place covered stocks "Under Review" in response to exceptional circumstances (e.g. lack of information critical to the analyst's thesis) affecting the company and / or trading in the company's securities (e.g. trading suspension). As soon as practically possible, the analyst will publish a note re-establishing a rating and investment thesis. To satisfy regulatory requirements, we correspond Under Review and Neutral to Hold in our ratings distribution table for our 12-month fundamental rating system. However, we reiterate that we do not consider Under Review to be a recommendation. Investment ratings are determined by the ranges described above at the time of initiation of coverage, a change in investment and/or risk rating, or a change in target price (subject to limited management discretion). At other times, the expected total returns may fall outside of these ranges because of market price movements and/or other short-term volatility or trading patterns. Such interim deviations from specified ranges will be permitted but will become subject to review by Research Management. Your decision to buy or sell a security should be based upon your personal investment objectives and should be made only after evaluating the stock's expected performance and risk.

Prior to May 1, 2014 Citi Research may have also assigned a three-month relative call (or rating) to a stock to highlight expected out-performance (most preferred) or under-performance (least preferred) versus the geographic and industry sector over a 3 month period. The relative call may have highlighted a specific near-term catalyst or event impacting the company or the market that was anticipated to have a short-term price impact on the equity securities of the company. Absent any specific catalyst the analyst(s) may have indicated the most and least preferred stocks in the universe of stocks under consideration, explaining the basis for this short-term view. This three-month view may have been different from and did not affect a stock's fundamental equity rating, which reflected a longer-term total absolute return expectation.

Catalyst Watch Upside/Downside calls:

Citi Research may also include a Catalyst Watch Upside or Downside call to highlight specific near-term catalysts or events impacting the company or the market that are expected to influence the share price over a specified period of 30 or 90 days. A Catalyst Watch Upside (Downside) call indicates that the analyst expects the share price to rise (fall) in absolute terms over the specified period. A Catalyst Watch Upside/Downside call will automatically expire at the end of the specified 30/90 day period; the analyst may also close a Catalyst Watch call prior to the end of the specified period in a published research note. A Catalyst Watch Upside or Downside call may be different from and does not affect a stock's fundamental equity rating, which reflects a longer-term total absolute return expectation. For purposes of FINRA ratings-distribution-disclosure rules, a Catalyst Watch Upside call corresponds to a buy recommendation and a Catalyst Watch Downside call corresponds to a sell recommendation. Any stock not assigned to a Catalyst Watch Upside or Catalyst Watch Downside call is considered Catalyst Watch Non-Rated (CWNR). For purposes of FINRA ratings-distribution-disclosure rules, we correspond CWNR to Hold in our ratings distribution table for our Catalyst Watch Upside/Downside rating system. However, we reiterate that we do not consider CWNR to be a recommendation. For all Catalyst Watch Upside/Downside calls, risk exists that the catalyst(s) and associated share-price movement will not materialize as expected.

NON-US RESEARCH ANALYST DISCLOSURES

Non-US research analysts who have prepared this report (i.e., all research analysts listed below other than those identified as employed by Citigroup Global Markets Inc.) are not registered/qualified as research analysts with FINRA. Such research analysts may not be associated persons of the member organization and therefore may not be subject to the FINRA Rule 2241 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account. The legal entities employing the authors of this report are listed below:

Citigroup Global Markets India Private Limited	Samiran Chakraborty; Anurag Jha; Surendra Goyal, CFA; Vijit Jain; Saurabh Handa; Rishi V Iyer; Abhishek Sahoo; Venkatesh Balasubramaniam; Gaurav Malhotra, CFA; Atul Tiwari; Arvind Sharma; Raashi Chopra, CFA; Aditya Mathur
Citigroup Global Markets Singapore PTE LIMITED	Siddharth Mathur; Jamshed Dadabhoy
Citigroup Global Markets Ltd	Chris Montagu

OTHER DISCLOSURES

Any price(s) of instruments mentioned in recommendations are as of the prior day's market close on the primary market for the instrument, unless otherwise stated.

The completion and first dissemination of any recommendations made within this research report are as of the Eastern date-time displayed at the top of the Product. If the Product references views of other analysts then please refer to the price chart or rating history table for the date/time of completion and first dissemination with respect to that view.

European regulations require that where a recommendation differs from any of the author's previous recommendations concerning the same financial instrument or issuer that has been published during the preceding 12-month period that the change(s) and the date of that previous recommendation are indicated. For fundamental coverage please refer to the price chart or rating change history within this disclosure appendix or the issuer disclosure summary at https://www.citivelocity.com/cvr/epublic/citi_research_disclosures.

European regulations require that where a recommendation differs from any of the author's previous recommendations concerning the same financial instrument or issuer that has been published during the preceding 12-month period that the change(s) and the date of that previous recommendation are indicated. Please refer to the trade history in the published research or contact the research analyst.

European regulations require that a firm must establish, implement and make available a policy for managing conflicts of interest arising as a result of publication or distribution of investment research. The policy applicable to Citi Research's Products can be found at https://www.citivelocity.com/cvr/epublic/citi_research_disclosures.

The proportion of all Citi Research fundamental research recommendations that were the equivalent to "Buy", "Hold", "Sell" at the end of each quarter over the prior 12 months (with the % of these that had received investment firm services from Citi in the prior 12 months shown in brackets) is as follows: Q4 2016 Buy 31% (71%), Hold 45% (64%), Sell 24% (58%); Q3 2016 Buy 32% (68%), Hold 44% (64%), Sell 24% (61%); Q2 2016 Buy 31% (68%), Hold 45% (63%), Sell 24% (61%); Q1 2016 Buy 31% (67%), Hold 45% (63%), Sell 24% (61%).

Citigroup Global Markets India Private Limited and/or its affiliates may have, from time to time, actual or beneficial ownership of 1% or more in the debt securities of the subject issuer.

Citi Research generally disseminates its research to the Firm's global institutional and retail clients via both proprietary (e.g., Citi Velocity and Citi Personal Wealth Management) and non-proprietary electronic distribution platforms. Certain research may be disseminated only via the Firm's proprietary distribution platforms; however such research will not contain changes to earnings forecasts, target price, investment or risk rating or investment thesis or be otherwise inconsistent with the author's previously published research. Certain research is made available only to institutional investors to satisfy regulatory requirements. Individual Citi Research analysts may also opt to circulate published research to one or more clients by email; such email distribution is discretionary and is done only after the research has been disseminated. The level and types of services provided by Citi Research analysts to clients may vary depending on various factors such as the client's individual preferences as to the frequency and manner of receiving communications from analysts, the client's risk profile and investment focus and perspective (e.g. market-wide, sector specific, long term, short-term etc.), the size and scope of the overall client relationship with the Firm and legal and regulatory constraints.

Pursuant to Comissão de Valores Mobiliários Rule 483, Citi is required to disclose whether a Citi related company or business has a commercial relationship with the subject company. Considering that Citi operates multiple businesses in more than 100 countries around the world, it is likely that Citi has a commercial relationship with the subject company.

Securities recommended, offered, or sold by the Firm: (i) are not insured by the Federal Deposit Insurance Corporation; (ii) are not deposits or other obligations of any insured depository institution (including Citibank); and (iii) are subject to investment risks, including the possible loss of the principal

amount invested. The Product is for informational purposes only and is not intended as an offer or solicitation for the purchase or sale of a security. Any decision to purchase securities mentioned in the Product must take into account existing public information on such security or any registered prospectus. Although information has been obtained from and is based upon sources that the Firm believes to be reliable, we do not guarantee its accuracy and it may be incomplete and condensed. Note, however, that the Firm has taken all reasonable steps to determine the accuracy and completeness of the disclosures made in the Important Disclosures section of the Product. The Firm's research department has received assistance from the subject company(ies) referred to in this Product including, but not limited to, discussions with management of the subject company(ies). Firm policy prohibits research analysts from sending draft research to subject companies. However, it should be presumed that the author of the Product has had discussions with the subject company to ensure factual accuracy prior to publication. All opinions, projections and estimates constitute the judgment of the author as of the date of the Product and these, plus any other information contained in the Product, are subject to change without notice. Prices and availability of financial instruments also are subject to change without notice. Notwithstanding other departments within the Firm advising the companies discussed in this Product, information obtained in such role is not used in the preparation of the Product. Although Citi Research does not set a predetermined frequency for publication, if the Product is a fundamental equity or credit research report, it is the intention of Citi Research to provide research coverage of the covered issuers, including in response to news affecting the issuer. For non-fundamental research reports, Citi Research may not provide regular updates to the views, recommendations and facts included in the reports. Notwithstanding that Citi Research maintains coverage on, makes recommendations concerning or discusses issuers, Citi Research may be periodically restricted from referencing certain issuers due to legal or policy reasons. Citi Research may provide different research products and services to different classes of customers (for example, based upon long-term or short-term investment horizons) that may lead to differing conclusions or recommendations that could impact the price of a security contrary to the recommendations in the alternative research product, provided that each is consistent with the rating system for each respective product.

Investing in non-U.S. securities, including ADRs, may entail certain risks. The securities of non-U.S. issuers may not be registered with, nor be subject to the reporting requirements of the U.S. Securities and Exchange Commission. There may be limited information available on foreign securities. Foreign companies are generally not subject to uniform audit and reporting standards, practices and requirements comparable to those in the U.S. Securities of some foreign companies may be less liquid and their prices more volatile than securities of comparable U.S. companies. In addition, exchange rate movements may have an adverse effect on the value of an investment in a foreign stock and its corresponding dividend payment for U.S. investors. Net dividends to ADR investors are estimated, using withholding tax rates conventions, deemed accurate, but investors are urged to consult their tax advisor for exact dividend computations. Investors who have received the Product from the Firm may be prohibited in certain states or other jurisdictions from purchasing securities mentioned in the Product from the Firm. Please ask your Financial Consultant for additional details. Citigroup Global Markets Inc. takes responsibility for the Product in the United States. Any orders by US investors resulting from the information contained in the Product may be placed only through Citigroup Global Markets Inc.

Important Disclosures for Bell Potter Customers: Bell Potter is making this Product available to its clients pursuant to an agreement with Citigroup Global Markets Australia Pty Limited. Neither Citigroup Global Markets Australia Pty Limited nor any of its affiliates has made any determination as to the suitability of the information provided herein and clients should consult with their Bell Potter financial advisor before making any investment decision.

The Citigroup legal entity that takes responsibility for the production of the Product is the legal entity which the first named author is employed by. The Product is made available in **Australia** through Citigroup Global Markets Australia Pty Limited. (ABN 64 003 114 832 and AFSL No. 240992), participant of the ASX Group and regulated by the Australian Securities & Investments Commission. Citigroup Centre, 2 Park Street, Sydney, NSW 2000. Citigroup Global Markets Australia Pty Limited is not an Authorised Deposit-Taking Institution under the Banking Act 1959, nor is it regulated by the Australian Prudential Regulation Authority. The Product is made available in Australia to Private Banking wholesale clients through Citigroup Pty Limited (ABN 88 004 325 080 and AFSL 238098). Citigroup Pty Limited provides all financial product advice to Australian Private Banking wholesale clients through bankers and relationship managers. If there is any doubt about the suitability of investments held in Citigroup Private Bank accounts, investors should contact the Citigroup Private Bank in Australia. Citigroup companies may compensate affiliates and their representatives for providing products and services to clients. The Product is made available in **Brazil** by Citigroup Global Markets Brasil - CCTVM SA, which is regulated by CVM - Comissão de Valores Mobiliários ("CVM"), BACEN - Brazilian Central Bank, APIMEC - Associação dos Analistas e Profissionais de Investimento do Mercado de Capitais and ANBIMA - Associação Brasileira das Entidades dos Mercados Financeiro e de Capitais. Av. Paulista, 1111 - 14º andar(parte) - CEP: 01311920 - São Paulo - SP. If the Product is being made available in certain provinces of **Canada** by Citigroup Global Markets (Canada) Inc. ("CGM Canada"), CGM Canada has approved the Product. Citigroup Place, 123 Front Street West, Suite 1100, Toronto, Ontario M5J 2M3. This product is available in **Chile** through Banchile Corredores de Bolsa S.A., an indirect subsidiary of Citigroup Inc., which is regulated by the Superintendencia de Valores y Seguros. Agustinas 975, piso 2, Santiago, Chile. The Product is distributed in **Germany** by Citigroup Global Markets Deutschland AG ("CGMD"), which is regulated by Bundesanstalt fuer Finanzdienstleistungsaufsicht (BaFin). CGMD, Reuterweg 16, 60323 Frankfurt am Main. Research which relates to "securities" (as defined in the Securities and Futures Ordinance (Cap. 571 of the Laws of Hong Kong)) is issued in **Hong Kong** by, or on behalf of, Citigroup Global Markets Asia Limited which takes full responsibility for its content. Citigroup Global Markets Asia Ltd. is regulated by Hong Kong Securities and Futures Commission. If the Research is made available through Citibank, N.A., Hong Kong Branch, for its clients in Citi Private Bank, it is made available by Citibank N.A., Citibank Tower, Citibank Plaza, 3 Garden Road, Hong Kong. Citibank N.A. is regulated by the Hong Kong Monetary Authority. Please contact your Private Banker in Citibank N.A., Hong Kong, Branch if you have any queries on or any matters arising from or in connection with this document. The Product is made available in **India** by Citigroup Global Markets India Private Limited (CGM), which is regulated by the Securities and Exchange Board of India (SEBI), as a Research Analyst (SEBI Registration No. INH000000438). CGM is also actively involved in the business of merchant banking, stock brokerage, and depository participant, in India, and is registered with SEBI in this regard. CGM's registered office is at 1202, 12th Floor, FIFC, G Block, Bandra Kurla Complex, Bandra East, Mumbai - 400051. CGM's Corporate Identity Number is U99999MH2000PTC126657, and its contact details are: Tel:+9102261759999 Fax:+9102261759961. The Product is made available in **Indonesia** through PT Citigroup Securities Indonesia. 5/F, Citibank Tower, Bapindo Plaza, Jl. Jend. Sudirman Kav. 54-55, Jakarta 12190. Neither this Product nor any copy hereof may be distributed in Indonesia or to any Indonesian citizens wherever they are domiciled or to Indonesian residents except in compliance with applicable capital market laws and regulations. This Product is not an offer of securities in Indonesia. The securities referred to in this Product have not been registered with the Capital Market and Financial Institutions Supervisory Agency (BAPEPAM-LK) pursuant to relevant capital market laws and regulations, and may not be offered or sold within the territory of the Republic of Indonesia or to Indonesian citizens through a public offering or in circumstances which constitute an offer within the meaning of the Indonesian capital market laws and regulations. The Product is made available in **Israel** through Citibank NA, regulated by the Bank of Israel and the Israeli Securities Authority. Citibank, N.A.,

Platinum Building, 21 Ha'arba'ah St, Tel Aviv, Israel. The Product is made available in **Italy** by Citigroup Global Markets Limited, which is authorised by the PRA and regulated by the FCA and the PRA. Via dei Mercanti, 12, Milan, 20121, Italy. The Product is made available in **Japan** by Citigroup Global Markets Japan Inc. ("CGMJ"), which is regulated by Financial Services Agency, Securities and Exchange Surveillance Commission, Japan Securities Dealers Association, Tokyo Stock Exchange and Osaka Securities Exchange. Shin-Marunouchi Building, 1-5-1 Marunouchi, Chiyoda-ku, Tokyo 100-6520 Japan. If the Product was distributed by SMBC Nikko Securities Inc. it is being so distributed under license. In the event that an error is found in an CGMJ research report, a revised version will be posted on the Firm's Citi Velocity website. If you have questions regarding Citi Velocity, please call (81 3) 6270-3019 for help. The Product is made available in **Korea** by Citigroup Global Markets Korea Securities Ltd., which is regulated by the Financial Services Commission, the Financial Supervisory Service and the Korea Financial Investment Association (KOFIA). Citibank Building, 39 Da-dong, Jung-gu, Seoul 100-180, Korea. KOFIA makes available registration information of research analysts on its website. Please visit the following website if you wish to find KOFIA registration information on research analysts of Citigroup Global Markets Korea Securities Ltd. <http://dis.kofia.or.kr/websquare/index.jsp?w2xPath=/wq/fundMgr/DISFundMgrAnalystList.xml&divisionId=MDIS03002002000000&serviceId=SDIS030020020000>. The Product is made available in Korea by Citibank Korea Inc., which is regulated by the Financial Services Commission and the Financial Supervisory Service. Address is Citibank Building, 39 Da-dong, Jung-gu, Seoul 100-180, Korea. The Product is made available in **Malaysia** by Citigroup Global Markets Malaysia Sdn Bhd (Company No. 460819-D) ("CGMM") to its clients and CGMM takes responsibility for its contents. CGMM is regulated by the Securities Commission of Malaysia. Please contact CGMM at Level 43 Menara Citibank, 165 Jalan Ampang, 50450 Kuala Lumpur, Malaysia in respect of any matters arising from, or in connection with, the Product. The Product is made available in **Mexico** by Acciones y Valores Banamex, S.A. de C. V., Casa de Bolsa, Integrante del Grupo Financiero Banamex ("Accival") which is a wholly owned subsidiary of Citigroup Inc. and is regulated by Comision Nacional Bancaria y de Valores. Reforma 398, Col. Juarez, 06600 Mexico, D.F. In **New Zealand** the Product is made available to 'wholesale clients' only as defined by s5C(1) of the Financial Advisers Act 2008 ('FAA') through Citigroup Global Markets Australia Pty Ltd (ABN 64 003 114 832 and AFSL No. 240992), an overseas financial adviser as defined by the FAA, participant of the ASX Group and regulated by the Australian Securities & Investments Commission. Citigroup Centre, 2 Park Street, Sydney, NSW 2000. The Product is made available in **Pakistan** by Citibank N.A. Pakistan branch, which is regulated by the State Bank of Pakistan and Securities Exchange Commission, Pakistan. AWT Plaza, 1.1. Chundrigar Road, P.O. Box 4889, Karachi-74200. The Product is made available in the **Philippines** through Citicorp Financial Services and Insurance Brokerage Philippines, Inc., which is regulated by the Philippines Securities and Exchange Commission. 20th Floor Citibank Square Bldg. The Product is made available in the Philippines through Citibank NA Philippines branch, Citibank Tower, 8741 Paseo De Roxas, Makati City, Manila. Citibank NA Philippines NA is regulated by The Bangko Sentral ng Pilipinas. The Product is made available in **Poland** by Dom Maklerski Banku Handlowego SA an indirect subsidiary of Citigroup Inc., which is regulated by Komisja Nadzoru Finansowego. Dom Maklerski Banku Handlowego S.A. ul.Senatorska 16, 00-923 Warszawa. The Product is made available in the **Russian Federation** through ZAO Citibank, which is licensed to carry out banking activities in the Russian Federation in accordance with the general banking license issued by the Central Bank of the Russian Federation and brokerage activities in accordance with the license issued by the Federal Service for Financial Markets. Neither the Product nor any information contained in the Product shall be considered as advertising the securities mentioned in this report within the territory of the Russian Federation or outside the Russian Federation. The Product does not constitute an appraisal within the meaning of the Federal Law of the Russian Federation of 29 July 1998 No. 135-FZ (as amended) On Appraisal Activities in the Russian Federation. 8-10 Gasheka Street, 125047 Moscow. The Product is made available in **Singapore** through Citigroup Global Markets Singapore Pte. Ltd. ("CGMSPL"), a capital markets services license holder, and regulated by Monetary Authority of Singapore. Please contact CGMSPL at 8 Marina View, 21st Floor Asia Square Tower 1, Singapore 018960, in respect of any matters arising from, or in connection with, the analysis of this document. This report is intended for recipients who are accredited, expert and institutional investors as defined under the Securities and Futures Act (Cap. 289). The Product is made available by The Citigroup Private Bank in Singapore through Citibank, N.A., Singapore Branch, a licensed bank in Singapore that is regulated by Monetary Authority of Singapore. Please contact your Private Banker in Citibank N.A., Singapore Branch if you have any queries on or any matters arising from or in connection with this document. This report is intended for recipients who are accredited, expert and institutional investors as defined under the Securities and Futures Act (Cap. 289). This report is distributed in Singapore by Citibank Singapore Ltd ("CSL") to selected Citigold/Citigold Private Clients. CSL provides no independent research or analysis of the substance or in preparation of this report. Please contact your Citigold/Citigold Private Client Relationship Manager in CSL if you have any queries on or any matters arising from or in connection with this report. This report is intended for recipients who are accredited investors as defined under the Securities and Futures Act (Cap. 289). Citigroup Global Markets (Pty) Ltd. is incorporated in the **Republic of South Africa** (company registration number 2000/025866/07) and its registered office is at 145 West Street, Sandton, 2196, Saxonwold. Citigroup Global Markets (Pty) Ltd. is regulated by JSE Securities Exchange South Africa, South African Reserve Bank and the Financial Services Board. The investments and services contained herein are not available to private customers in South Africa. The Product is made available in the **Republic of China** through Citigroup Global Markets Taiwan Securities Company Ltd. ("CGMTS"), 14 and 15F, No. 1, Songzhi Road, Taipei 110, Taiwan and/or through Citibank Securities (Taiwan) Company Limited ("CSTL"), 14 and 15F, No. 1, Songzhi Road, Taipei 110, Taiwan, subject to the respective license scope of each entity and the applicable laws and regulations in the Republic of China. CGMTS and CSTL are both regulated by the Securities and Futures Bureau of the Financial Supervisory Commission of Taiwan, the Republic of China. No portion of the Product may be reproduced or quoted in the Republic of China by the press or any third parties [without the written authorization of CGMTS and CSTL]. If the Product covers securities which are not allowed to be offered or traded in the Republic of China, neither the Product nor any information contained in the Product shall be considered as advertising the securities or making recommendation of the securities in the Republic of China. The Product is for informational purposes only and is not intended as an offer or solicitation for the purchase or sale of a security or financial products. Any decision to purchase securities or financial products mentioned in the Product must take into account existing public information on such security or the financial products or any registered prospectus. The Product is made available in **Thailand** through Citicorp Securities (Thailand) Ltd., which is regulated by the Securities and Exchange Commission of Thailand. 399 Interchange 21 Building, 18th Floor, Sukhumvit Road, Klongtoey Nua, Wattana, Bangkok 10110, Thailand. The Product is made available in **Turkey** through Citibank AS which is regulated by Capital Markets Board. Tekfen Tower, Eski Buyukdere Caddesi # 209 Kat 2B, 23294 Levent, Istanbul, Turkey. In the **U.A.E.**, these materials (the "Materials") are communicated by Citigroup Global Markets Limited, DIFC branch ("CGML"), an entity registered in the Dubai International Financial Center ("DIFC") and licensed and regulated by the Dubai Financial Services Authority ("DFSA") to Professional Clients and Market Counterparties only and should not be relied upon or distributed to Retail Clients. A distribution of the different Citi Research ratings distribution, in percentage terms for Investments in each sector covered is made available on request. Financial products and/or services to which the Materials relate will only be made available to Professional Clients and Market Counterparties. The Product is made available in **United Kingdom** by Citigroup Global Markets Limited, which is authorised by the Prudential Regulation Authority ("PRA") and regulated by the Financial Conduct Authority ("FCA") and the PRA. This material may relate to investments or services of

a person outside of the UK or to other matters which are not authorised by the PRA nor regulated by the FCA and the PRA and further details as to where this may be the case are available upon request in respect of this material. Citigroup Centre, Canada Square, Canary Wharf, London, E14 5LB. The Product is made available in **United States** by Citigroup Global Markets Inc, which is a member of FINRA and registered with the US Securities and Exchange Commission. 388 Greenwich Street, New York, NY 10013. Unless specified to the contrary, within EU Member States, the Product is made available by Citigroup Global Markets Limited, which is authorised by the PRA and regulated by the FCA and the PRA.

The Product is not to be construed as providing investment services in any jurisdiction where the provision of such services would not be permitted.

Subject to the nature and contents of the Product, the investments described therein are subject to fluctuations in price and/or value and investors may get back less than originally invested. Certain high-volatility investments can be subject to sudden and large falls in value that could equal or exceed the amount invested. Certain investments contained in the Product may have tax implications for private customers whereby levels and basis of taxation may be subject to change. If in doubt, investors should seek advice from a tax adviser. The Product does not purport to identify the nature of the specific market or other risks associated with a particular transaction. Advice in the Product is general and should not be construed as personal advice given it has been prepared without taking account of the objectives, financial situation or needs of any particular investor. Accordingly, investors should, before acting on the advice, consider the appropriateness of the advice, having regard to their objectives, financial situation and needs. Prior to acquiring any financial product, it is the client's responsibility to obtain the relevant offer document for the product and consider it before making a decision as to whether to purchase the product. Citi Research product may source data from dataCentral. dataCentral is a Citi Research proprietary database, which includes the Firm's estimates, data from company reports and feeds from Thomson Reuters. The printed and printable version of the research report may not include all the information (e.g., certain financial summary information and comparable company data) that is linked to the online version available on the Firm's proprietary electronic distribution platforms.

© 2017 Citigroup Global Markets Inc. Citi Research is a division of Citigroup Global Markets Inc. Citi and Citi with Arc Design are trademarks and service marks of Citigroup Inc. and its affiliates and are used and registered throughout the world. All rights reserved. The research data in this report is not intended to be used for the purpose of (a) determining the price or amounts due in respect of one or more financial products or instruments and/or (b) measuring or comparing the performance of a financial product or a portfolio of financial instruments, and any such use is strictly prohibited without the prior written consent of Citi Research. Any unauthorized use, duplication, redistribution or disclosure of this report (the "Product"), including, but not limited to, redistribution of the Product by electronic mail, posting of the Product on a website or page, and/or providing to a third party a link to the Product, is prohibited by law and will result in prosecution. The information contained in the Product is intended solely for the recipient and may not be further distributed by the recipient to any third party. Where included in this report, MSCI sourced information is the exclusive property of Morgan Stanley Capital International Inc. (MSCI). Without prior written permission of MSCI, this information and any other MSCI intellectual property may not be reproduced, disseminated or used to create any financial products, including any indices. This information is provided on an "as is" basis. The user assumes the entire risk of any use made of this information. MSCI, its affiliates and any third party involved in, or related to, computing or compiling the information hereby expressly disclaim all warranties of originality, accuracy, completeness, merchantability or fitness for a particular purpose with respect to any of this information. Without limiting any of the foregoing, in no event shall MSCI, any of its affiliates or any third party involved in, or related to, computing or compiling the information have any liability for any damages of any kind. MSCI, Morgan Stanley Capital International and the MSCI indexes are services marks of MSCI and its affiliates. The Firm accepts no liability whatsoever for the actions of third parties. The Product may provide the addresses of, or contain hyperlinks to, websites. Except to the extent to which the Product refers to website material of the Firm, the Firm has not reviewed the linked site. Equally, except to the extent to which the Product refers to website material of the Firm, the Firm takes no responsibility for, and makes no representations or warranties whatsoever as to, the data and information contained therein. Such address or hyperlink (including addresses or hyperlinks to website material of the Firm) is provided solely for your convenience and information and the content of the linked site does not in any way form part of this document. Accessing such website or following such link through the Product or the website of the Firm shall be at your own risk and the Firm shall have no liability arising out of, or in connection with, any such referenced website.

ADDITIONAL INFORMATION IS AVAILABLE UPON REQUEST