India GDP

Gains momentum in H2 FY25

Real GDP growth of 7.4% in Q4FY25 and 6.5% in FY25 surprised on the upside but was inline with the Government and RBI's projection. Economy gradually picked up after bottoming out in Q2FY25, Investments and government consumption were the key drivers while private consumption dragged. The pickup in H2 FY25 reflects the effectiveness of the monetary policy through rate actions as well as liquidity injections. However resilient growth would restrict RBI's ability to cut rates beyond 50bps, as signalled by the uptick in benchmark yields. Government's capex intensity improved substantially in Mar-25, meeting its budgeted target at the cost of slight fiscal deterioration. Our terminal rate expectation reverts to 5.5%. We expect growth in the range of 6.3-6.5% in FY26, provided India inks favourable trade deals in the upcoming months.

- Growth beats estimates: GDP growth of 7.4% in Q4 FY25 surprised on the upside as markets were building in growth of ~6.8%. Growth was majorly driven by Industry, while Agri and services dragged. On an annual basis, economic growth met the government and RBI's estimates of 6.5% for FY25 in real terms. Nominal growth of 9.8% in FY25 is marginally lower than the budgeted estimates, hence its impact on the fiscal deficit target of 4.8% was negligible. It is pertinent to note that the GDP deflator trended in tandem with the WPI inflation (Ex 5). We believe that changing growth-inflation dynamics in favour of the former, restricts the RBI's ability to ease further beyond 50bps in this cycle, hence our terminal rate expectation reverts to 5.5% as base case. Further easing would be in response to any sluggishness in the economy.
- Private consumption dragged in H2: On a broader level, if we break-up the performance in two halves, it is evident that investments (GFCF) and Government consumption picked up pace in H2FY25 while moderation in private consumption proved to be a major drag on the economy, sharp decline in imports aided growth. While on the supply side, weakness in the industrial activity pulled the overall performance lower even as Agri and service activities remained resilient (Ex 3 & 4). However the gradual pickup in quarterly GDP, indicates that bottom has formed in Q2FY25 (Ex 1). Private consumption has been patchy in last one year, however improving rural wages should support <u>rural demand in the upcoming months</u>. It is worth highlighting that the performance in Q4 FY25 was after considering the upward revision in the base quarter (Q4 FY24, Ex 7 & 8).
- Capex intensity picks up in FY26: India's fiscal situation marginally deteriorated to 100.5% of FY25RE, as receipts fell short of the revised target of INR 31.5Tn by 2.2% while a shortfall of 2.6% in Revenue spending aided in accommodating the higher capex of INR 10.52Tn (103.3% of FY25RE). The significant pickup in the capex intensity in FY25 was noteworthy, which is carried forward in the current fiscal as well. Capital expenditure of INR 1.6Tn was robust in Apr-25 considering it forms 14.3% of the budgeted estimates for FY26. A closer look reveals that while spending in Roads (20.3% of FY26BE) and Railways (12.3% of FY26BE) was robust, Defence lagged with just 2.4% of full year target (Ex 14). Government has set the fiscal deficit target of 4.4% of GDP for FY26, however it's the capex intensity which would be closely monitored in FY26.
- Expect growth in the range of 6.3-6.5% in FY26: The positive surprise in the GDP growth was both in case of Q4 as well as for fiscal 2025, the annual growth was in line with RBI and government's projection. This vouches for the effectiveness of the monetary policy through rate action as well as the liquidity injection measures. However the healthy growth would restrict RBI's incremental rate cuts to 50bps in this cycle, unless the central bank targets a higher potential domestic growth. The slight uptick in benchmark yields (4-5bps) post the release of Q4 GDP data, reflects the unwinding of incremental rate cut expectation. For the upcoming year, we expect growth in the range of 6.3-6.5% considering the headwinds which could emanate through the trade route, provided India inks favourable deals in the upcoming months. Our terminal rate expectations reverts to 5.5% vs 5.25% earlier.



Hitesh Suvarna hitesh.suvarna@jmfl.com | Tel: (91 22) 66303351 Venkatesh Balasubramaniam

venkatesh.balasubramaniam@jmfl.com | Tel: (91 22) 66303081

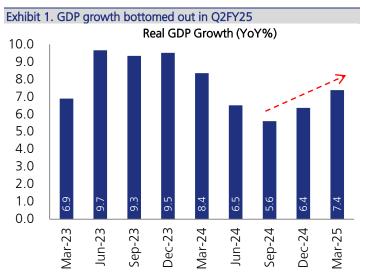
Shalin Choksy shalin.choksy@jmfl.com | Tel: (91 22) 66303380

Key Highlights

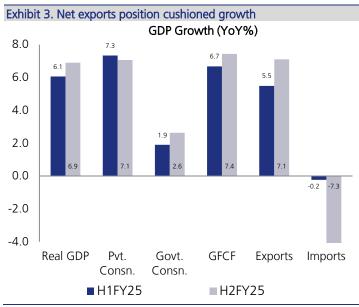
- Real GDP grew 7.4% in Q4FY25; 6.5% in FY25 in line with RBI and Government expectations
- Economic growth bottomed out in Q2FY25
- Growth led by Investments and Government consumption while Pvt consumption and imports dragged.
- Capex intensity improved in Mar-25 as well as Apr-25
- Expect GDP growth in the range of 6.3-6.5% in FY26.

JM Financial Research is also available on: Bloomberg - JMFR <GO>, Thomson Publisher & Reuters, S&P Capital IQ, FactSet and Visible Alpha

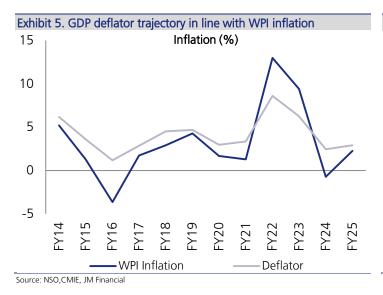
Please see Appendix I at the end of this report for Important Disclosures and Disclaimers and Research Analyst Certification.



Source: NSO, JM Financial



Source: NSO, JM Financial



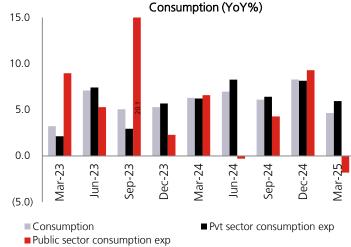
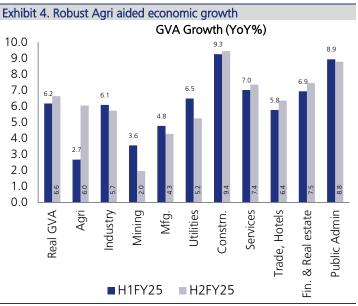
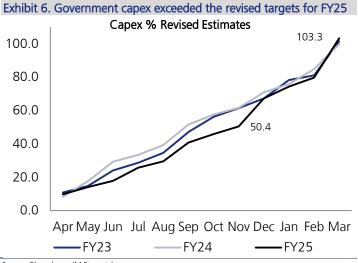


Exhibit 2. Consumption dragged by government spending

Source: NSO, JM Financial







Source: Bloomberg, JM Financial

FY26E

6.3

2.9

6.0

3.5

4.8

6.5

8.7

7.5

7.8

7.4

7.0

6.9

6.9

6.5

Exhibit 7. Upward revision in Industry & services in the base quarter							
	Q4F	_					
ΥοΥ%	Prior	Now	Change (ppt)				
Real GVA	6.3	7.3	1.0				
Agriculture, Forestry and Fishing	0.6	0.9	0.3				
Industry	8.4	9.5	1.1				
Mining and Quarrying	4.3	0.8	(3.5)				
Manufacturing	8.9	11.3	2.4				
Electricity, Gas, Water & Other Utilities	7.7	8.8	1.1				
Construction	8.7	8.7	0.0				
Services	6.7	7.8	1.1				
Trade, Hotels, Transport, Comm & Broadcasting	5.1	6.2	1.1				
Financial, Real Estate & Professional Service	7.6	9	1.4				
Public Administration, Defence & Oth Services	7.8	8.7	0.9				

Exhibit 8. On the demand side led by consumption							
	Q4F						
YoY%	Prior	Now	Change (ppt)				
Real GDP	7.8	8.4	0.6				
Final Consumption Expenditure	3.4	6.3	2.9				
Private	4	6.2	2.2				
Government	0.9	6.6	5.7				
Gross Fixed Capital Formation	6.5	6	(0.5)				
Change in Stocks	5	52	47.0				
Valuables	72.8	63.1	(9.7)				
Exports of Goods and Services	8.1	7.7	(0.4)				
Import of Goods and Services	8.3	11.4	3.1				

Source: NSO, JM Financial

Exhibit 9. Expect GDP growth at 6.5% in FY26 YoY% FY21 FY22 FY23 FY24 FY25 Real GVA (4.1) 9.4 7.2 8.6 6.4 Agriculture, Forestry and Fishing 4.0 4.6 6.3 2.7 4.6 Industry (0.4) 12.2 2.5 10.8 5.9 Mining and Quarrying (8.2) 6.3 3.4 3.2 2.7 3.1 10.0 4.5 Manufacturing (1.7) 12.3 Electricity, Gas, Water & Other Utilities (4.2) 10.3 10.8 8.6 5.9 Construction (4.6) 19.9 9.1 10.4 9.4 Services (8.4) 9.2 10.3 9.0 7.2 Trade, Hotels, Transport, Comm & Broadcasting (19.9) 15.2 12.3 7.5 6.1 10.3 Financial, Real Estate & Professional Service 1.9 5.7 10.8 7.2 Public Administration, Defence & Other Services (7.6) 7.5 8.8 8.9 6.7 Private sector GVA (5.2) 10.8 7.5 9.8 6.4 Non-Agri GVA (5.6) 10.3 7.4 9.6 6.7 Real GDP (5.8) 9.7 7.6 9.2 6.5

Source: NSO, JM Financial

Source: NSO, JM Financial

Exhibit 10. Growth in Q4FY25 mainly led by capital formation while consumption moderated sequentially										
YoY%	Mar-23	Jun-23	Sep-23	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24	Mar-25	
Real GDP	6.9	9.7	9.3	9.5	8.4	6.5	5.6	6.4	7.4	
Final Consumption Expenditure	3.2	7.1	5.1	5.3	6.3	7.0	6.1	8.3	4.7	
Private	2.1	7.4	3.0	5.7	6.2	8.3	6.4	8.1	6.0	
Government	9.0	5.3	20.1	2.3	6.6	(0.3)	4.3	9.3	(1.8)	
Gross Fixed Capital Formation	5.6	8.4	11.7	9.3	6.0	6.7	6.7	5.2	9.4	
Change in Stocks	28.4	46.5	59.8	55.8	52.0	7.5	2.1	3.5	4.8	
Valuables	(21.6)	(25.4)	(6.4)	54.7	63.1	(23.1)	25.8	(0.5)	(29.8)	
Exports of Goods and Services	9.4	(7.0)	4.6	3.0	7.7	8.3	3.0	10.8	3.9	
Import of Goods and Services	(1.8)	18.0	14.3	11.3	11.4	(1.6)	1.0	(2.1)	(12.7)	

Source: NSO, JM Financial

India GDP

ΥοΥ%	Mar-23	Jun-23	Sep-23	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24	Mar-25
Real GVA	6.6	9.9	9.2	8.0	7.3	6.5	5.8	6.5	6.8
Agriculture, Forestry and Fishing	9.4	5.7	3.7	1.5	0.9	1.5	4.1	6.6	5.4
Industry	3.8	7.3	15.1	11.8	9.5	8.5	3.8	4.8	6.5
Mining and Quarrying	4.6	4.1	4.1	4.7	0.8	6.6	(0.4)	1.3	2.5
Manufacturing	1.5	7.3	17.0	14.0	11.3	7.6	2.2	3.6	4.8
Electricity, Gas, Water & Other Utilities	8.6	4.1	11.7	10.1	8.8	10.2	3.0	5.1	5.4
Construction	7.1	9.2	14.6	10.0	8.7	10.1	8.4	7.9	10.8
Services	7.6	12.5	7.5	8.3	7.8	6.8	7.2	7.4	7.3
Trade, Hotels, Transport, Comm & Broadcasting	7.5	11.0	5.4	8.0	6.2	5.4	6.1	6.7	6.0
Financial, Real Estate & Professional Service	10.9	15.0	8.3	8.4	9.0	6.6	7.2	7.1	7.8
Public Administration, Defence & Oth Services	2.5	9.3	8.9	8.4	8.7	9.0	8.9	8.9	8.7
Private sector GVA	6.7	10.9	10.2	9.7	8.4	7.1	5.6	6.0	6.7
Non-Agri GVA	6.1	10.7	10.0	9.5	8.5	7.4	6.0	6.5	7.0

Source: NSO, JM Financial

Exhibit 12. Contribution to real GVA

Contribution to Real GVA (%)	Mar-23	Jun-23	Sep-23	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24	Mar-25
Real GVA	6.6	9.9	9.2	8.0	7.3	6.5	5.8	6.5	6.8
Agriculture, Forestry and Fishing	1.5	0.8	0.5	0.3	0.1	0.2	0.5	1.2	0.8
Industry	1.3	2.3	4.4	3.4	3.1	2.5	1.1	1.4	2.1
Mining and Quarrying	0.1	0.1	0.1	0.1	0.0	0.1	(0.0)	0.0	0.1
Manufacturing	0.3	1.3	2.9	2.2	2.0	1.3	0.4	0.6	0.9
Electricity, Gas, Water & Other Utilities	0.2	0.1	0.3	0.2	0.2	0.3	0.1	0.1	0.1
Construction	0.7	0.8	1.1	0.9	0.8	0.9	0.7	0.7	1.1
Services	3.9	6.9	4.4	4.3	4.1	3.8	4.2	3.9	3.8
Trade, Hotels, Transport, Comm & Broadcasting	1.5	1.8	1.0	1.5	1.2	0.9	1.1	1.3	1.2
Financial, Real Estate & Professional Service	2.1	3.9	2.2	1.7	1.8	1.8	1.9	1.5	1.6
Public Administration, Defence & Oth Services	0.3	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1
Private sector GVA	4.8	8.0	7.6	6.7	6.1	5.3	4.2	4.2	4.9
Non-Agri GVA	5.1	9.1	8.8	7.7	7.1	6.3	5.3	5.3	6.0

Source: NSO, JM Financial

Exhibit 13. Contribution to real GDF	þ								
Contribution to Real GDP (%)	Mar-23	Jun-23	Sep-23	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24	Mar-25
Real GDP	6.9	9.7	9.3	9.5	8.4	6.5	5.6	6.4	7.4
Final Consumption Expenditure	2.2	4.8	3.4	3.7	4.1	4.6	4.0	5.5	3.0
Private	1.2	4.3	1.7	3.5	3.4	4.7	3.6	4.8	3.2
Government	1.0	0.6	1.7	0.2	0.7	(0.0)	0.4	0.7	(0.2)
Gross Fixed Capital Formation	1.9	2.9	3.9	3.0	2.1	2.3	2.3	1.7	3.1
Change in Stocks	0.3	0.6	0.7	0.6	0.7	0.1	0.0	0.1	0.1
Valuables	(0.3)	(0.2)	(0.2)	0.6	0.6	(0.2)	0.6	(0.0)	(0.4)
Exports of Goods and Services	2.1	(1.7)	1.1	0.7	1.7	1.7	0.7	2.3	0.9
Import of Goods and Services	(0.4)	4.5	3.7	2.7	2.4	(0.4)	0.3	(0.5)	(2.8)

Source: JM Financial

India GDP

R Bn	F	ŕ 25	Apr-25
linistry wise Capex	INR Bn	% of RE	% of FY26B
Ministry of agriculture	1	64.0	0.5
Department of atomic energy	124	99.2	3.8
Ministry of communications	750	98.4	30.3
Ministry of electronics and information technology	3	91.4	2.3
Ministry of defence	1,706	100.1	2.4
Ministry of development of north eastern region	23	90.4	8.3
Ministry of Finance	1,811	114.5	0.4
Transfers to state and UT governments	1,657	118.9	0.6
Direct taxes	23	96.9	2.5
Indirect taxes	18	74.7	0.1
Ministry of jal shakti	3	96.4	1.3
Ministry of micro, small and medium enterprises	6	99.9	0.4
Ministry of new and renewable energy	0	91.3	0.0
Ministry of petroleum and natural gas	3	99.9	0.0
Ministry of power	11	99.6	45.6
Ministry of road transport and highways	2,853	104.7	20.3
Department of space	40	85.1	3.9
Ministry of housing and urban affairs	316	99.9	0.2
Ministry of railways	2,519	100.0	12.3

28 May 2025

APPENDIX I

JM Financial Institutional Securities Limited

Corporate Identity Number: U67100MH2017PLC296081

Member of BSE Ltd. and National Stock Exchange of India Ltd.

SEBI Registration Nos.: Stock Broker - INZ000163434, Research Analyst - INH000000610

Registered Office: 7th Floor, Cnergy, Appasaheb Marathe Marg, Prabhadevi, Mumbai 400 025, India.

Board: +91 22 6630 3030 | Fax: +91 22 6630 3488 | Email: jmfinancial.research@jmfl.com | www.jmfl.com

Compliance Officer: Mr. Sahil Salastekar | Tel: +91 22 6224 1073 | Email: sahil.salastekar@jmfl.com Grievance officer: Mr. Sahil Salastekar | Tel: +91 22 6224 1073 | Email: instcompliance@jmfl.com

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

Definition of	ratings
Rating	Meaning
Buy	Total expected returns of more than 10% for stocks with market capitalisation in excess of INR 200 billion and REITs* and more than 15% for all other stocks, over the next twelve months. Total expected return includes dividend yields.
Hold	Price expected to move in the range of 10% downside to 10% upside from the current market price for stocks with market capitalisation in excess of INR 200 billion and REITs* and in the range of 10% downside to 15% upside from the current market price for all other stocks, over the next twelve months.
Sell	Price expected to move downwards by more than 10% from the current market price over the next twelve months.

* REITs refers to Real Estate Investment Trusts.

Research Analyst(s) Certification

The Research Analyst(s), with respect to each issuer and its securities covered by them in this research report, certify that:

All of the views expressed in this research report accurately reflect his or her or their personal views about all of the issuers and their securities; and

No part of his or her or their compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed in this research report.

Important Disclosures

This research report has been prepared by JM Financial Institutional Securities Limited (JM Financial Institutional Securities) to provide information about the company(ies) and sector(s), if any, covered in the report and may be distributed by it and/or its associates solely for the purpose of information of the select recipient of this report. This report and/or any part thereof, may not be duplicated in any form and/or reproduced or redistributed without the prior written consent of JM Financial Institutional Securities. This report has been prepared independent of the companies covered herein.

JM Financial Institutional Securities is registered with the Securities and Exchange Board of India (SEBI) as a Research Analyst and a Stock Broker having trading memberships of the BSE Ltd. (BSE) and National Stock Exchange of India Ltd. (NSE). No material disciplinary action has been taken by SEBI against JM Financial Institutional Securities in the past two financial years which may impact the investment decision making of the investor. Registration granted by SEBI and certification from the National Institute of Securities Market (NISM) in no way guarantee performance of JM Financial Institutional Securities or provide any assurance of returns to investors.

JM Financial Institutional Securities renders stock broking services primarily to institutional investors and provides the research services to its institutional clients/investors. JM Financial Institutional Securities and its associates are part of a multi-service, integrated investment banking, investment management, brokerage and financing group. JM Financial Institutional Securities and/or its associates might have provided or may provide services in respect of managing offerings of securities, corporate finance, investment banking, mergers & acquisitions, broking, financing or any other advisory services to the company(ies) covered herein. JM Financial Institutional Securities and/or its associates might have received during the past twelve months or may receive compensation from the company(ies) mentioned in this report for rendering any of the above services.

JM Financial Institutional Securities and/or its associates, their directors and employees may; (a) from time to time, have a long or short position in, and buy or sell the securities of the company(ies) mentioned herein or (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) covered under this report or (c) act as an advisor or lender/borrower to, or may have any financial interest in, such company(ies) or (d) considering the nature of business/activities that JM Financial Institutional Securities is engaged in, it may have potential conflict of interest at the time of publication of this report on the subject company(ies).

Neither JM Financial Institutional Securities nor its associates or the Research Analyst(s) named in this report or his/her relatives individually own one per cent or more securities of the company(ies) covered under this report, at the relevant date as specified in the SEBI (Research Analysts) Regulations, 2014.

The Research Analyst(s) principally responsible for the preparation of this research report and their immediate relatives are prohibited from buying or selling debt or equity securities, including but not limited to any option, right, warrant, future, long or short position issued by company(ies) covered under this report. The Research Analyst(s) principally responsible for the preparation of this research report or their immediate relatives (as defined under SEBI (Research Analysts) Regulations, 2014); (a) do not have any financial interest in the company(ies) covered under this report or (b) did not receive any compensation from the company(ies) covered under this report, or from any third party, in connection with this report or (c) do not have any other material conflict of interest at the time of publication of this report. Research Analyst(s) are not serving as an officer, director or employee of the company(ies) covered under this report. While reasonable care has been taken in the preparation of this report, it does not purport to be a complete description of the securities, markets or developments referred to herein, and JM Financial Institutional Securities does not warrant its accuracy or completeness. JM Financial Institutional Securities may not be in any way responsible for any loss or damage that may arise to any person from any inadvertent error in the information contained in this report. This report is provided for information only and is not an investment advice and must not alone be taken as the basis for an investment decision.

This research report is based on the fundamental research/analysis conducted by the Research Analyst(s) named herein. Accordingly, this report has been prepared by studying/focusing on the fundamentals of the company(ies) covered in this report and other macro-economic factors. JM Financial Institutional Securities may have also issued or may issue, research reports and/or recommendations based on the technical/quantitative analysis of the company(ies) covered in this report by studying and using charts of the stock's price movement, trading volume and/or other volatility parameters. As a result, the views/recommendations expressed in such technical research reports could be inconsistent or even contrary to the views contained in this report.

The investment discussed or views expressed or recommendations/opinions given herein may not be suitable for all investors. The user assumes the entire risk of any use made of this information. The information contained herein may be changed without notice and JM Financial Institutional Securities reserves the right to make modifications and alterations to this statement as they may deem fit from time to time.

This report is neither an offer nor solicitation of an offer to buy and/or sell any securities mentioned herein and/or not an official confirmation of any transaction.

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 JM Financial Institutional Securities and/or its affiliated company(ies) 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 a certain category of investors. Persons in whose possession this report may come, are required to inform themselves of and to observe such restrictions.

Additional disclosure only for U.S. persons: JM Financial Institutional Securities has entered into an agreement with JM Financial Securities, Inc. ("JM Financial Securities"), a U.S. registered broker-dealer and member of the Financial Industry Regulatory Authority ("FINRA") in order to conduct certain business in the United States in reliance on the exemption from U.S. broker-dealer registration provided by Rule 15a-6, promulgated under the U.S. Securities Exchange Act of 1934 (the "Exchange Act"), as amended, and as interpreted by the staff of the U.S. Securities and Exchange Commission ("SEC") (together "Rule 15a-6").

This research report is distributed in the United States by JM Financial Securities in compliance with Rule 15a-6, and as a "third party research report" for purposes of FINRA Rule 2241. In compliance with Rule 15a-6(a)(3) this research report is distributed only to "major U.S. institutional investors" as defined in Rule 15a-6 and is not intended for use by any person or entity that is not a major U.S. institutional investor. If you have received a copy of this research report and are not a major U.S. institutional investor, you are instructed not to read, rely on, or reproduce the contents hereof, and to destroy this research or return it to JM Financial Institutional Securities or to JM Financial Securities.

This research report is a product of JM Financial Institutional Securities, which is the employer of the research analyst(s) solely responsible for its content. The research analyst(s) preparing this research report is/are resident outside the United States and are not associated persons or employees of any U.S. registered broker-dealer. Therefore, the analyst(s) are not subject to supervision by a U.S. broker-dealer, or otherwise required to satisfy the regulatory licensing requirements of FINRA and may not be subject to the Rule 2241 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account.

Any U.S. person who is recipient of this report that wishes further information regarding, or to effect any transaction in, any of the securities discussed in this report, must contact, and deal directly through a U.S. registered representative affiliated with a broker-dealer registered with the SEC and a member of FINRA. In the U.S., <u>JM Financial Institutional Securities has an affiliate</u>, JM Financial Securities, Inc. located at 1325 Avenue of the Americas, 28th Floor, Office No. 2821, <u>New York, New York 10019</u>. Telephone +1 (332) 900 4958 which is registered with the SEC and is a member of FINRA and SIPC.

Additional disclosure only for U.K. persons: Neither JM Financial Institutional Securities nor any of its affiliates is authorised in the United Kingdom (U.K.) by the Financial Conduct Authority. As a result, this report is for distribution only to persons who (i) have professional experience in matters relating to investments falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended, the "Financial Promotion Order"), (ii) are persons falling within Article 49(2)(a) to (d) ("high net worth companies, unincorporated associations etc.") of the Financial Promotion Order, (iii) are outside the United Kingdom, or (iv) are persons to whom an invitation or inducement to engage in investment activity (within the meaning of section 21 of the Financial Services and Markets Act 2000) in connection with the matters to which this report relates may otherwise lawfully be communicated or caused to be communicated (all such persons together being referred to as "relevant persons"). This report is directed only at relevant persons and must not be acted on or relied on by persons who are not relevant persons. Any investment or investment activity to which this report relates is available only to relevant persons and will be engaged in only with relevant persons.

Additional disclosure only for Canadian persons: This report is not, and under no circumstances is to be construed as, an advertisement or a public offering of the securities described herein in Canada or any province or territory thereof. Under no circumstances is this report to be construed as an offer to sell securities or as a solicitation of an offer to buy securities in any jurisdiction of Canada. Any offer or sale of the securities described herein in Canada will be made only under an exemption from the requirements to file a prospectus with the relevant Canadian securities regulators and only by a dealer properly registered under applicable securities laws or, alternatively, pursuant to an exemption from the registration requirement in the relevant province or territory of Canada in which such offer or sale is made. This report is not, and under no circumstances is it to be construed as, a prospectus or an offering memorandum. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed upon these materials, the information contained herein or the merits of the securities described herein and any representation to the contrary is an offence. If you are located in Canada, this report has been made available to you based on your representation that you are an "accredited investor" as such term is defined in National Instrument 45-106 Prospectus Exemptions and a "permitted client" as such term is defined in National Instrument 45-106 Prospectus Exemptions. Under no circumstances is the information contained herein to be construed as investment advice in any province or territory of Canada nor should it be construed as being tailored to the needs of the recipient. Canadian recipients are advised that JM Financial Securities, Inc., JM Financial Institutional Securities Limited, their affiliates and authorized agents are not responsible for, nor do they accept, any liability whatsoever for any direct or consequential loss arising from any use of this research report or