Ashok Leyland | BUY

Prioritizing profitability to mitigate near-term headwinds

In 3QFY24, Ashok Leyland (AL) reported EBITDAM of 12%, 100bps above JMFe. Sequential improvement in margin (+80bps) was led by better price realisation, cost reduction initiatives and softening RM cost. Near-term demand momentum is expected to be muted owing to high base of last year and general election. The company re-iterated its focus on profitable growth. Medium-term demand drivers (higher infra spends, scrappage policy, etc.) remain intact and AL aims for higher share in MHCVs (to c.35%) led by network expansion (in North and East) and addressing product gaps. Benign commodity cost and cost control initiatives are expected to support profitability. We estimate EPS CAGR of c.30% during FY23-26E. Maintain BUY with Mar'25 TP of INR 200 (20x fwd. EPS). Increase in competitive intensity remains key monitorable going forward.

- 3QFY24 Margin beats estimate: In 3QFY24, AL reported net sales of INR 92.7bn (+3% YoY, -4%QoQ), 2% above our estimate. Blended realisation increased c.3% YoY (+1.5% QoQ). Total volume was flattish YoY (-5% QoQ). EBITDA margin stood at 12% (+320bps YoY, +80bps QoQ), 100bps above JMFe. Margin beat was led by lower than expected RM costs. EBITDA stood at INR 11bn (+40% YoY, +3% QoQ). Adj. PAT stood at INR 5.8bn (+63% YoY, flattish QoQ), c.6 % above JMFe.
- Demand outlook: AL indicated that volume growth during 3QFY24 was flattish on YoY basis owing to high base and state elections. The management expects CV demand to remain muted over next 2 quarters owing to high base (for 4Q) and upcoming general elections. Continued focus of GOI on infrastructure remains industry tailwind for medium-to-long term. Order book for state transport buses remains healthy. And the company expects bus, tractor trailers and tippers to lead the MHCV segment demand going forward. AL has lost MHCV market share in the recent quarters owing to aggressive competitive intensity. However, it's LCV / Bus segment market share has been gradually rising. The management indicated that focus is on profitable growth and the company will not resort to aggressive pricing to gain market share. AL is focusing on dealer network expansion to cover underpenetrated areas (added 44 touch points in North and East). In exports, volumes grew by (c.6% YoY) and the management indicated that other businesses (defence, aftermarket and powertrain) continue to perform well with healthy order pipeline (esp. for defence segment).
- Profitability outlook: During 3Q, gross margins improved c.130bps QoQ led by better price realisation, cost reduction efforts and softening RM costs. Realisations improved by c.1.5% QoQ led by lower discounts and better mix. The company re-iterated its focus on pricing discipline and profitable growth. Benign commodity price, cost control initiatives and better pricing (net of discount) is expected to support margins going forward.
- Update on EV business: During the quarter, the company invested INR 6.6bn in Switch Mobility / Optare PLC to fund the latter's investment for new product development. Switch Mobility has a healthy order book of 1,000 e-buses and has received LOIs for c.12k units of its e-LCV. Focus is on reducing the TCO. AL recently launched 14T electric truck in select markets and the company reiterated that new product pipeline for both

Financial Summary					(INR mn)
Y/E March	FY22A	FY23A	FY24E	FY25E	FY26E
Net Sales	216,883	361,441	380,386	407,145	433,008
Sales Growth	42.3%	66.7%	5.2%	7.0%	6.4%
EBITDA	9,946	29,307	43,989	48,542	47,456
EBITDA Margin	4.6%	8.1%	11.6%	11.9%	11.0%
Adjusted Net Profit	310	12,955	25,131	30,206	29,654
Diluted EPS (INR)	0.1	4.4	8.6	10.3	10.1
Diluted EPS Growth	0.0%	4,073.0%	94.0%	20.2%	-1.8%
ROIC	7.5%	29.6%	57.0%	69.3%	73.6%
ROE	0.4%	16.4%	27.0%	26.9%	22.2%
P/E (x)	1,692.9	40.6	20.9	17.4	17.7
P/B (x)	7.2	6.2	5.2	4.3	3.6
EV/EBITDA (x)	53.7	18.3	12.1	10.7	10.7
Dividend Yield	0.8%	0.6%	1.5%	1.7%	1.7%

Source: Company data, JM Financial. Note: Valuations as of 05/Feb/2024



Vivek Kumar vivek.kumar@jmfl.com | Tel: (91 22) 66303019 Ronak Mehta ronak.mehta@jmfl.com | Tel: (91 22) 66303125

We acknowledge the support services of Naman Shah in preparation of this report

Recommendation and Price Target		
Current Reco.	BUY	
Previous Reco.	BUY	
Current Price Target (12M)	200	
Upside/(Downside)	11.6%	
Previous Price Target	200	
Change	0.0%	
Key Data – AL IN		

Key Data – AL IN	
Current Market Price	INR180
Market cap (bn)	INR526.3/US\$6.3
Free Float	65%
Shares in issue (mn)	2,845.9
Diluted share (mn)	2,936.1
3-mon avg daily val (mn)	INR2,481.7/US\$29.9
52-week range	192/133
Sensex/Nifty	71,731/21,772
INR/US\$	83.1

Price Performance			
%	1M	6M	12M
Absolute	-0.1	-1.8	16.5
Relative*	0.3	-10.0	-1.2

* To the BSE Sensex

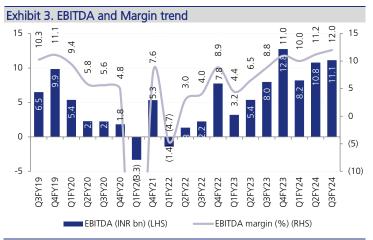
JM Financial Research is also available on: Bloomberg - JMFR <GO>, Thomson Publisher & Reuters, S&P Capital IQ, FactSet and Visible Alpha

Please see Appendix I at the end of this report for Important Disclosures and Disclaimers and Research Analyst Certification. India and EU market remains healthy. Management expects Switch India to acheive cash breakeven by FY25 end.

Other highlights: 1) HLFL performed well; Current order book stands at c.450bn, PAT Margin was c.13% and NPA c.2.8%. 2) Capex during 3QFY24 stood at INR 0.9bn (9MFY24: INR 2.9bn). 3) Net Debt stands at INR 17.5bn and the company expects reduction in net debt during 4Q.

Exhibit 1. Standalone quarterly performed	rmance						
AL (INR mn)	Q3FY24	Q3FY23	% YoY	Q2FY24	% QoQ	Q3FY24E	% A/E
MHCV (Units)	29,485	30,790	-4.2	32,086	-8.1	29,485	0.0
LCV (Units)	17,756	16,772	5.9	17,760	0.0	17,756	0.0
Total Volumes (Units)	47,241	47,562	-0.7	49,846	-5.2	47,241	0.0
Average Realisation (Net, INR)	1,962,916	1,898,505	3.4	1,933,563	1.5	1,926,928	1.9
Sales	92,730	90,297	2.7	96,380	-3.8	91,030	1.9
RM	66,977	68,859	-2.7	70,866	-5.5	67,089	-0.2
As a % of sales	72.2	76.3	-400bps	73.5	-130bps	73.7	-150bps
Employee Exp	5,695	5,495	3.6	5,728	-1	5,462	4.3
As a % of sales	6.1	6.1	10bps	5.9	20bps	6.0	10bps
Other Costs	8,919	7,970	11.9	8,989	-0.8	8,466	5.4
As a % of sales	9.6	8.8	80bps	9.3	30bps	9.3	30bps
Expenditure	81,591	82,323	-0.9	85,583	-4.7	81,017	0.7
EBITDA	11,139	7,973	40	10,798	3.2	10,013	11.2
EBITDA Margin	12.0	8.8	320bps	11.2	80bps	11.0	100bps
PAT (Adjusted)	5,806	3,544	63.8	5,839	-0.6	5,453	6.5
PAT Margin (Adjusted)	6.3	3.9	230bps	6.1	20bps	6.0	30bps
EPS (Rs)	2.0	1.21	63.8	1.99	-0.6	1.9	6.5
Source: Company, JM Financial							





Source: Company, JM Financial; Note: 1QFY21 margin at -51%

xhibit 4. AL - change in assumptions (standalone)									
	Ne	New assumption			ld assumptio	n		% Change	
	FY24E	FY25E	FY26E	FY24E	FY25E	FY26E	FY24E	FY25E	FY26E
Revenue (INR mn)	380,386	407,145	433,008	410,033	451,310	468,758	-7.2%	-9.8%	-7.6%
MHCV vol. (nos.)	123,703	130,693	139,770	136,497	148,346	154,287	-9.4%	-11.9%	-9.4%
Growth (%)	0%	6%	7%	10%	9%	10%			
LCV vol. (nos.)	68,505	71,930	76,605	71,501	75,791	79,580	-4.2%	-5.1%	-3.7%
Growth (%)	1%	5%	0%	5%	6%	0%			
EBITDA (INR mn)	43,989	48,542	47,456	44,890	50,968	46,916	-2.0%	-4.8%	1.1%
EBITDAM (%)	11.6%	11.9%	11.0%	10.9%	11.3%	10.0%	70bps	60bps	100bps
PAT (INR mn)	25,131	30,206	29,654	24,785	31,277	28,499	1.4%	-3.4%	4.1%
EPS (INR)	8.6	10.3	10.1	8.4	10.7	9.7	1.4%	-3.4%	4.1%

Source: Company, JM Financial

Financial Tables (Standalone)

Income Statement				((INR mn)
Y/E March	FY22A	FY23A	FY24E	FY25E	FY26E
Net Sales	216,883	361,441	380,386	407,145	433,008
Sales Growth	42.3%	66.7%	5.2%	7.0%	6.4%
Other Operating Income	0	0	0	0	0
Total Revenue	216,883	361,441	380,386	407,145	433,008
Cost of Goods Sold/Op. Exp	167,611	278,492	277,650	297,378	320,420
Personnel Cost	16,946	21,139	23,371	24,989	26,594
Other Expenses	22,381	32,504	35,376	36,236	38,538
EBITDA	9,946	29,307	43,989	48,542	47,456
EBITDA Margin	4.6%	8.1%	11.6%	11.9%	11.0%
EBITDA Growth	110.6%	194.7%	50.1%	10.4%	-2.2%
Depn. & Amort.	7,528	7,320	7,270	7,866	8,346
EBIT	2,418	21,987	36,719	40,676	39,110
Other Income	761	1,161	1,742	2,003	2,304
Finance Cost	3,011	2,891	2,559	2,134	1,609
PBT before Excep. & Forex	168	20,258	35,901	40,546	39,805
Excep. & Forex Inc./Loss(-)	0	0	0	0	0
PBT	168	20,258	35,901	40,546	39,805
Taxes	-142	7,303	10,770	10,339	10,150
Extraordinary Inc./Loss(-)	5,108	846	0	0	0
Assoc. Profit/Min. Int.(-)	0	0	0	0	0
Reported Net Profit	5,418	13,801	25,131	30,206	29,654
Adjusted Net Profit	310	12,955	25,131	30,206	29,654
Net Margin	0.1%	3.6%	6.6%	7.4%	6.8%
Diluted Share Cap. (mn)	2,935.5	2,936.1	2,936.1	2,936.1	2,936.1
Diluted EPS (INR)	0.1	4.4	8.6	10.3	10.1
Diluted EPS Growth	0.0%	4,073.0%	94.0%	20.2%	-1.8%
Total Dividend + Tax	4,403	2,936	7,634	8,808	8,808
Dividend Per Share (INR)	1.5	1.0	2.6	3.0	3.0

Balance Sheet					(INR mn)
Y/E March	FY22A	FY23A	FY24E	FY25E	FY26E
Shareholders' Fund	73,369	84,258	101,755	123,153	143,999
Share Capital	2,936	2,936	2,936	2,936	2,936
Reserves & Surplus	70,434	81,322	98,819	120,217	141,063
Preference Share Capital	0	0	0	0	0
Minority Interest	0	0	0	0	0
Total Loans	35,539	32,248	26,248	20,248	14,248
Def. Tax Liab. / Assets (-)	1,444	5,035	5,035	5,035	5,035
Total - Equity & Liab.	110,351	121,541	133,039	148,437	163,283
Net Fixed Assets	67,952	64,367	64,597	64,231	63,385
Gross Fixed Assets	107,300	111,652	119,152	126,653	134,153
Intangible Assets	0	0	0	0	0
Less: Depn. & Amort.	41,291	48,611	55,881	63,747	72,093
Capital WIP	1,943	1,325	1,325	1,325	1,325
Investments	48,196	66,636	79,136	91,636	104,136
Current Assets	87,190	94,914	93,891	105,905	119,095
Inventories	20,752	27,745	31,265	33,464	35,590
Sundry Debtors	31,111	40,627	36,475	39,041	41,521
Cash & Bank Balances	10,470	5,013	3,546	9,664	17,062
Loans & Advances	24,858	21,529	22,605	23,736	24,922
Other Current Assets	0	0	0	0	0
Current Liab. & Prov.	92,986	104,375	104,585	113,335	123,333
Current Liabilities	68,752	71,751	68,462	73,326	79,008
Provisions & Others	24,234	32,624	36,123	40,009	44,326
Net Current Assets	-5,797	-9,461	-10,694	-7,430	-4,239
Total – Assets	110,351	121,541	133,039	148,437	163,283

Source: Company, JM Financial

Source: Company, JM Financial

Cash Flow Statement					(INR mn)
Y/E March	FY22A	FY23A	FY24E	FY25E	FY26E
Profit before Tax	168	20,258	35,901	40,546	39,805
Depn. & Amort.	7,528	7,320	7,270	7,866	8,346
Net Interest Exp. / Inc. (-)	3,011	2,891	2,559	2,134	1,609
Inc (-) / Dec in WCap.	12,070	-1,792	-235	2,855	4,206
Others	0	0	0	0	0
Taxes Paid	142	-7,303	-10,770	-10,339	-10,150
Operating Cash Flow	22,919	21,374	34,726	43,062	43,815
Capex	-1,257	-3,735	-7,500	-7,500	-7,500
Free Cash Flow	21,662	17,639	27,226	35,561	36,315
Inc (-) / Dec in Investments	-17,509	-18,440	-12,500	-12,500	-12,500
Others	-3,011	-2,891	-2,559	-2,134	-1,609
Investing Cash Flow	-21,777	-25,065	-22,559	-22,134	-21,609
Inc / Dec (-) in Capital	0	1	0	0	0
Dividend + Tax thereon	-4,403	-2,936	-7,634	-8,808	-8,808
Inc / Dec (-) in Loans	-1,924	-3,291	-6,000	-6,000	-6,000
Others	7,426	4,461	0	0	0
Financing Cash Flow	1,098	-1,765	-13,634	-14,808	-14,808
Inc / Dec (-) in Cash	2,240	-5,457	-1,467	6,119	7,397
Opening Cash Balance	8,230	10,470	5,013	3,546	9,664
Closing Cash Balance	10,470	5,013	3,546	9,664	17,062

Dupont Analysis Y/E March FY22A FY23A FY24E FY25E FY26E 3.6% 6.6% Net Margin 0.1% 7.4% 6.8% Asset Turnover (x) 2.0 3.2 3.1 3.0 2.9 Leverage Factor (x) 1.3 1.2 1.5 1.4 1.1 RoE 0.4% 16.4% 27.0% 26.9% 22.2%

Y/E March	FY22A	FY23A	FY24E	FY25E	FY26E
	FIZZA	FIZSA	FTZ4C	FIZSE	FIZUE
BV/Share (INR)	25.0	28.7	34.7	41.9	49.0
ROIC	7.5%	29.6%	57.0%	69.3%	73.6%
ROE	0.4%	16.4%	27.0%	26.9%	22.2%
Net Debt/Equity (x)	0.3	0.3	0.2	0.1	0.0
P/E (x)	1,692.9	40.6	20.9	17.4	17.7
P/B (x)	7.2	6.2	5.2	4.3	3.6
EV/EBITDA (x)	53.7	18.3	12.1	10.7	10.7
EV/Sales (x)	2.5	1.5	1.4	1.3	1.2
Debtor days	52	41	35	35	35
Inventory days	35	28	30	30	30
Creditor days	121	79	74	75	75

Source: Company, JM Financial

Ashok Leyland

History of Recommendation and Target Price				
Date	Recommendation	Target Price	% Chg.	
17-Feb-20	Hold	85		
21-Apr-20	Buy	70	-17.6	
4-Jun-20	Buy	70	0.0	
26-Jun-20	Buy	70	0.0	
13-Aug-20	Buy	80	14.3	
21-Sep-20	Buy	100	25.0	
9-Nov-20	Buy	100	0.0	
21-Dec-20	Buy	120	20.0	
12-Feb-21	Buy	150	25.0	
25-Jun-21	Buy	150	0.0	
13-Aug-21	Buy	150	0.0	
15-Nov-21	Buy	160	6.7	
14-Feb-22	Buy	150	-6.3	
22-May-22	Buy	170	13.3	
1-Aug-22	Buy	177	4.1	
13-Nov-22	Buy	190	7.3	
2-Feb-23	Buy	200	5.3	
25-May-23	Buy	180	-10.0	
15-Jun-23	Buy	180	0.0	
24-Jul-23	Buy	200	11.1	



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	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, JM Financial Securities, Inc. located at 1325 Avenue of the Americas, 28th Floor, Office No. 2821, New York, New York 10019. Telephone +1 (332) 900 4958 which is registered with the SEC and is a member of FINRA and SIPC.</u>

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