Ashoka Buildcon | BUY

Asset monetization to deleverage the balance sheet

Ashoka Buildcon's (ABL) 1Q25 adjusted PAT at INR 408mn missed JMFe of INR 544mn (consensus: INR 650mn) due to lower margins despite beat in execution. EBITDA margins contracted sharply by 170bps YoY on adjusted base to 6.5% (JMFe: 8.3%) due to certain one-offs. Gross debt increased sharply QoQ from INR 14.4bn in Mar-24 to INR 19.6bn in June-24 due to increase in working capital levels. Order inflows have been strong in YTD at INR 36bn. Order backlog stands at INR 125bn (1.5x TTM revenue) as on June-24. ABL remains bullish on prospects across verticals and has guided for order inflows of INR 100-120bn for FY25E. It has guided for revenue growth of 15-20% in FY25E to INR 89-93bn which in our view is optimistic and we have factored 4%/7% growth in FY25/26E. We have cut FY25 EPS by 10% factoring lower margins in 1Q25 and expected softness in 2Q25. We have increased FY26 EPS by 7% factoring higher revenues. Asset monetization remains work in progress as ABL targets to monetize 11 HAMs and 5 BOT assets in FY25E while that for Chennai ORR and Jaora Nayagaon remains delayed. Timely monetization of assets would help in deleveraging. We maintain BUY with revised SOTP based price target of INR 280.

- 1Q25 earnings miss JMFe due to lower margins: Revenue grew by 23% YoY to INR 18.8bn (JMFe: INR 17bn). EBITDA grew by 73% YoY to INR 1.2bn (JMFe: INR 1.4bn) on low base. EBITDA margins contracted sharply by 170bps YoY on adjusted base to 6.5% (JMFe: 8.3%) due to certain one-offs. Interest costs grew sharply by 29% YoY to INR 663mn (JMFe: INR 650mn) due to higher debt levels.
- Revenue growth guidance of 15-20% YoY for FY25 appears optimistic: ABL received order inflows of INR 36bn in YTD. ABL is bullish on prospects across verticals and has guided for order inflows of INR 100-120bn for FY25E. ABL targets to participate in highway bids of 2400km worth INR 780bn from NHAI/MoRTH. The company has guided for revenue growth of 15-20% in FY25E to INR 89-93bn which in our view is optimistic. We have factored revenue growth of 4%/7% in FY25/26 given the weaker order backlog. ABL expects EBITDA margins to improve in 2H25 to 9-10% and 10-11% in FY26E.
- Targets to monetize 11 HAMs and 5 BOTs in FY25E; sale of Chennai ORR and Jaora Nayagaon remains delayed: ABL expects to sign SHA for 11 HAM assets and 5 BOT assets by Sept-24. Monetization of Chennai ORR and Jaora-Nayagaon continues to remain delayed and the company has not indicated any timeline. ABL has to pay guaranteed return of INR 15.3bn to SBI-Macquarie which will be paid from proceeds of above deals.
- Maintain BUY with SoTP based revised price target of INR 280: We expect core EPS CAGR of 41% over FY24-27E led by margin expansion. Currently, ABL trades at 10x/8x FY26/27 core EPS (ex-other income) after adjusting for value of assets (16x/13x FY26/27 core EPS without adjusting for value of assets). Valuations have historically been at a discount to peers. We believe there is further room for re-rating if asset monetization goes as planned. We value ABL's EPC business at 12x Sept-26E core EPS, HAM portfolio at 1.4x P/B and other ABL assets at 0.5x P/B and arrive at an SOTP-based revised price target of INR 280. Maintain Buy.

JM	FINANCIAL

Vaibhav Shah vaibhav.shah@jmfl.com | Tel: (91 22) 66303068

We acknowledge the support of **Parth Thakkar** in the preparation of this report

Recommendation and Price Target						
Current Reco.	BUY					
Previous Reco.	BUY					
Current Price Target (12M)	280					
Upside/(Downside)	19.4%					
Previous Price Target	220					
Change	26.8%					

Key Data – ASBL IN	
Current Market Price	INR234
Market cap (bn)	INR65.7/US\$0.8
Free Float	46%
Shares in issue (mn)	280.7
Diluted share (mn)	280.7
3-mon avg daily val (mn)	INR686.8/US\$8.2
52-week range	272/99
Sensex/Nifty	80,437/24,541
INR/US\$	84.0

Price Performand	:e		
%	1M	6M	12M
Absolute	2.8	34.2	133.7
Relative*	3.0	21.3	88.7

* To the BSE Sensex

Financial Summary					(INR mn)
Y/E March	FY23A	FY24A	FY25E	FY26E	FY27E
Net Sales	63,723	77,267	80,357	85,982	98,880
Sales Growth	37.2%	21.3%	4.0%	7.0%	15.0%
EBITDA	5,337	5,765	6,982	9,030	10,381
EBITDA Margin	8.4%	7.5%	8.7%	10.5%	10.5%
Adjusted Net Profit	3,221	2,694	3,165	4,671	5,410
Diluted EPS (INR)	11.5	9.6	11.3	16.6	19.3
Diluted EPS Growth	-30.1%	-16.4%	17.5%	47.6%	15.8%
ROIC	9.5%	7.8%	9.1%	12.2%	13.9%
ROE	10.6%	7.5%	8.0%	10.4%	10.5%
P/E (x)	6.9	12.7	20.8	14.1	12.1
P/B (x)	0.7	0.9	1.6	1.4	1.2
EV/EBITDA (x)	5.7	7.5	11.0	7.8	6.6
Dividend Yield	-	-	-	-	-

Source: Company data, JM Financial. Note: Valuations as of 16/Aug/2024

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.

Exhibit 1. Quarterly	standalone re	esults									
INR mn	1QFY24	2QFY24	3QFY24	4QFY24	FY24P	1QFY25	1QFY25E	Variance	FY25E	FY26E	FY27E
Net Sales	15,321	15,613	21,335	24,998	77,267	18,771	17,000	10.4%	80,357	85,982	98,880
EBIDTA	702	1,439	1,765	1,859	5,765	1,214	1,412	-14.0%	6,982	9,030	10,381
EBIDTA margin (%)	4.6%	9.2%	8.3%	7.4%	7.5%	6.5%	8.3%		8.7%	10.5%	10.5%
Other income	253	284	285	329	1,150	238	255	-6.7%	932	744	349
Depreciation	222	247	276	302	1,046	224	290	-22.9%	1,043	1,167	1,321
Interest	514	527	620	620	2,281	663	650	1.9%	2,641	2,366	2,179
PBT	219	949	1,154	1,266	3,588	565	727	-22.2%	4,229	6,242	7,230
Tax	55	237	287	348	894	157	183	-14.2%	1,064	1,571	1,820
Effective tax rate (%)	25.1%	25.0%	24.9%	27.5%	24.9%	27.8%	25.2%		25.2%	25.2%	25.2%
Adjusted PAT	164	712	867	918	2,694	408	544	-24.9%	3,165	4,671	5,410
Extra-ordinary items	-	-	-	1,766	1,766	-	-		-	2,655	-
Reported PAT	164	712	867	2,685	4,461	408	544	-24.9%	3,165	7,326	5,410
YoY growth											
Net sales	3.6%	21.9%	36.8%	22.3%	21.3%	22.5%			4.0%	7.0%	15.0%
EBITDA	-51.4%	28.5%	50.8%	23.8%	8.0%	72.8%			21.1%	29.3%	15.0%
Other income	-19.0%	-4.2%	-6.4%	34.9%	8.9%	-5.9%			-19.0%	-20.2%	-53.1%
Depreciation	32.0%	35.4%	38.9%	56.0%	41.0%	0.9%			-0.3%	11.8%	13.2%
Interest	160.0%	46.2%	60.2%	33.4%	61.8%	29.0%			15.8%	-10.4%	-7.9%
PBT	-84.2%	8.7%	29.8%	16.5%	-15.4%	157.6%			17.9%	47.6%	15.8%
Adjusted PAT	-84.2%	8.8%	29.9%	7.3%	-16.4%	148.4%			17.5%	47.6%	15.8%
Reported PAT	-84.2%	8.8%	29.9%	-38.3%	-33.5%	148.4%			-29.1%	131.5%	-26.1%

Source: Company, JM Financial

Exhibit 2. Key assumptions									
INR mn	FY23	FY24	FY25E	FY26E	FY27E				
Order inflows	88,683	19,440	110,000	130,000	130,000				
EBITDA Margins	8.4%	7.5%	8.7%	10.5%	10.5%				
Capex	1,057	1,129	1,100	1,300	1,700				
NWC days*	68	63	75	75	75				

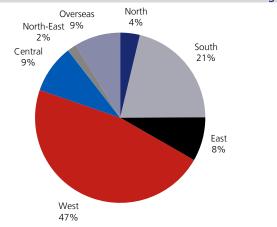
Source: Company, JM Financial; *: ex of free cash and L&A to subsidiaries/JVs

Exhibit 3. Core PAT computation	1			
INR mn	FY24	FY25E	FY26E	FY27E
PBT	3,588	4,229	6,242	7,230
Less: other income	1,150	932	744	349
Core PAT*	1,824	2,466	4,112	5,147
Core EPS	6.5	8.8	14.6	18.3
Core PE	36.0	26.6	16.0	12.8
Core PE adjusted for assets	23.5	17.4	10.4	8.3

Source: Company, JM Financial; *: Core PAT = [(PBT less of other income)*(1-tax rate)]

Exhibit 4. Well diversified June'24 order backlog of INR 125bn Water treatment/ Water Supply 4% Power T&D 32% Highways Highways -

Exhibit 5. West/South account for 47%/21% of June'24 backlog



Source: Company, Company, JM Financial

Source: Company, Company, JM Financial

Exhibit 6. SoTP-based price target of INR 280									
INR mn	Basis of valuation	Base value	Multiple	Equity value	ABL's value	INR/share			
Construction	PEx Sept-26 core PAT*	4,630	12.0	55,557	55,557	198			
HAM assets	P/B Mar-25E	11,620	1.4	16,268	16,268	58			
5 BOT projects in ACL#	Premium to previous deal value			15,525	5,765	21			
Other ABL assets	P/B	1,747	0.5	873	873	3			
Total					78,464	280			

HAM

6%

Source: Company, JM Financial; *: core PAT is ex of other income; #: assumed INR 5.5bn of the INR 15.3bn obligation towards SBI-M (assumed cap value) to be met from proceeds of other asset sales in FY26E. Balance obligation of INR 9.8bn netted off from the equity valuation of 5 BOT assets

Key conference call takeaways

- FY25 Guidance: Revenue: 15-20% growth to INR 89-93bn (looks optimistic); Order inflows: INR 100-120bn (YTD: INR 36bn); Capex: INR 1.1bn.
- Asset monetization update: Monetization of ABL's 11 HAM and 5 BOT assets is at an advance stage with SHA expected to be signed by Sept-24. However, monetization of Chennai ORR and Jaora Nayagaon remains delayed.
- EBITDA margins weak at 6.5% in 1Q25 due to one-offs. ABL expects margins to improve to 9-10% in 2H25 and 10-11% in FY26E.
- **Bid pipeline:** ABL will participate in highway bids of 2400km worth INR 780bn from NHAI/MoRTH.
- Pending equity requirement for HAM assets stand at INR 1.2bn, which will be invested largely in FY25.

HAM assets (INR mn)	Awarding Authority	Status	BPC	Equity	Debt	Equity invested*	Debt drawn*
Kharar-Ludhiana	NHAI	COD	20,700	1,600	6,000	1,570	5,680
Ranastalam-Anandpuram	NHAI	COD	11,871	1,100	4,150	1,050	3,910
Vadodara Kim	NHAI	COD	16,870	1,500	6,000	1,510	5,680
Khairatunda-Barwa Adda	NHAI	COD	8,601	710	2,700	720	2,540
Belgaum-Khanapur	NHAI	COD(P)	8,562	770	2,950	590	1,760
Tumkur-Shivamogga –II	NHAI	COD(P)	12,185	970	3,850	1,140	3,290
Tumkur-Shivamogga –I	NHAI	COD(P)	9,170	710	2,750	670	2,390
Kandi-Ramsanpalle	NHAI	COD	10,000	690	2,350	690	2,340
Tumkur-Shivamogga –IV	NHAI	UC	13,820	880	4,300	850	2,480
Tumkur-Shivamogga –III	NHAI	COD(P)	10,355	600	2,500	720	2,060
Basawantpur Singnodi	NHAI	UC	10,790	1,440	3,900	950	3,010
Total			132,924	10,970#	41,450	10,450	35,140

Source: Company, JM Financial; *: as on June-24; #: including PIM, ABL's equity investment would be INR 11.62bn; UC: under construction, COD: Commercial Operation Date, COD(P): Provisional Commercial Operation date

Financial Tables (Standalone)

Income Statement			(INR mn)	
Y/E March	FY23A	FY24A	FY25E	FY26E	FY27E
Net Sales	63,723	77,267	80,357	85,982	98,880
Sales Growth	37.2%	21.3%	4.0%	7.0%	15.0%
Other Operating Income	0	0	0	0	0
Total Revenue	63,723	77,267	80,357	85,982	98,880
Cost of Goods Sold/Op. Exp	55,247	67,062	68,802	72,070	83,039
Personnel Cost	1,915	2,331	2,634	2,844	3,157
Other Expenses	1,225	2,109	1,940	2,037	2,302
EBITDA	5,337	5,765	6,982	9,030	10,381
EBITDA Margin	8.4%	7.5%	8.7%	10.5%	10.5%
EBITDA Growth	-4.0%	8.0%	21.1%	29.3%	15.0%
Depn. & Amort.	742	1,046	1,043	1,167	1,321
EBIT	4,594	4,719	5,939	7,864	9,060
Other Income	1,057	1,150	932	744	349
Finance Cost	1,410	2,281	2,641	2,366	2,179
PBT before Excep. & Forex	4,241	3,588	4,229	6,242	7,230
Excep. & Forex Inc./Loss(-)	0	0	0	0	0
PBT	4,241	3,588	4,229	6,242	7,230
Taxes	1,020	894	1,064	1,571	1,820
Extraordinary Inc./Loss(-)	3,492	1,766	0	2,655	0
Assoc. Profit/Min. Int.(-)	0	0	0	0	0
Reported Net Profit	6,713	4,461	3,165	7,326	5,410
Adjusted Net Profit	3,221	2,694	3,165	4,671	5,410
Net Margin	5.1%	3.5%	3.9%	5.4%	5.5%
Diluted Share Cap. (mn)	280.7	280.7	280.7	280.7	280.7
Diluted EPS (Symbole)	11.5	9.6	11.3	16.6	19.3
Diluted EPS Growth	-30.1%	-16.4%	17.5%	47.6%	15.8%
Total Dividend + Tax	0	0	0	0	0
Dividend Per Share (`)	0.0	0.0	0.0	0.0	0.0

5.1. 61					(13.15)
Balance Sheet					(INR mn)
Y/E March	FY23A	FY24A	FY25E	FY26E	FY27E
Shareholders' Fund	33,697	38,125	41,290	48,615	54,026
Share Capital	1,404	1,404	1,404	1,404	1,404
Reserves & Surplus	32,294	36,721	39,886	47,212	52,622
Preference Share Capital	0	0	0	0	0
Minority Interest	0	0	0	0	0
Total Loans	9,973	14,427	13,750	8,500	7,000
Def. Tax Liab. / Assets (-)	-683	-891	-891	-891	-891
Total - Equity & Liab.	42,988	51,661	54,149	56,224	60,135
Net Fixed Assets	3,107	3,295	3,352	3,485	3,864
Gross Fixed Assets	8,080	9,577	10,677	11,977	13,677
Intangible Assets	0	0	0	0	0
Less: Depn. & Amort.	5,258	6,304	7,347	8,514	9,835
Capital WIP	285	22	22	22	22
Investments	13,537	14,842	14,842	14,496	14,496
Current Assets	54,242	68,311	74,855	79,224	88,404
Inventories	2,984	4,327	5,466	6,713	7,508
Sundry Debtors	11,490	14,281	17,613	17,668	20,589
Cash & Bank Balances	1,865	5,106	2,986	3,473	3,753
Loans & Advances	10,005	12,374	13,874	19,374	20,239
Other Current Assets	27,898	32,224	34,917	31,996	36,316
Current Liab. & Prov.	27,897	34,787	38,900	40,981	46,630
Current Liabilities	15,247	20,531	20,967	21,786	24,536
Provisions & Others	12,650	14,257	17,933	19,195	22,094
Net Current Assets	26,345	33,524	35,955	38,243	41,774
Total – Assets	42,988	51,661	54,149	56,224	60,135

Source: Company, JM Financial

Source: Company, JM Financial

Cash Flow Statement				(INR mn)
Y/E March	FY23A	FY24A	FY25E	FY26E	FY27E
Profit before Tax	4,241	3,588	4,229	8,897	7,230
Depn. & Amort.	742	1,046	1,043	1,167	1,321
Net Interest Exp. / Inc. (-)	1,410	2,281	2,641	2,366	2,179
Inc (-) / Dec in WCap.	-1,287	-1,153	-3,052	-1,105	-2,387
Others	0	0	0	0	0
Taxes Paid	-1,020	-894	-1,064	-1,571	-1,820
Operating Cash Flow	4,087	4,868	3,797	9,753	6,523
Capex	-1,057	-1,129	-1,100	-1,300	-1,700
Free Cash Flow	3,029	3,739	2,697	8,453	4,823
Inc (-) / Dec in Investments	-5,486	-2,323	-1,500	-350	-865
Others	-89	-347	0	0	0
Investing Cash Flow	-6,632	-3,799	-2,600	-1,650	-2,565
Inc / Dec (-) in Capital	0	0	0	0	0
Dividend + Tax thereon	0	0	0	0	0
Inc / Dec (-) in Loans	4,380	4,453	-677	-5,250	-1,500
Others	-1,410	-2,281	-2,641	-2,366	-2,179
Financing Cash Flow	2,971	2,172	-3,318	-7,616	-3,679
Inc / Dec (-) in Cash	425	3,241	-2,121	488	280
Opening Cash Balance	1,440	1,865	5,106	2,986	3,473
Closing Cash Balance	1,865	5,106	2,986	3,473	3,753

Dupont Analysis					
Y/E March	FY23A	FY24A	FY25E	FY26E	FY27E
Net Margin	5.1%	3.5%	3.9%	5.4%	5.5%
Asset Turnover (x)	1.5	1.5	1.4	1.5	1.6
Leverage Factor (x)	1.4	1.4	1.4	1.3	1.2
RoE	10.6%	7.5%	8.0%	10.4%	10.5%

Key Ratios					
Y/E March	FY23A	FY24A	FY25E	FY26E	FY27E
BV/Share (')	120.0	135.8	147.1	173.2	192.5
ROIC	9.5%	7.8%	9.1%	12.2%	13.9%
ROE	10.6%	7.5%	8.0%	10.4%	10.5%
Net Debt/Equity (x)	0.2	0.2	0.3	0.1	0.1
P/E (x)	6.9	12.7	20.8	14.1	12.1
P/B (x)	0.7	0.9	1.6	1.4	1.2
EV/EBITDA (x)	5.7	7.5	11.0	7.8	6.6
EV/Sales (x)	0.5	0.6	1.0	0.8	0.7
Debtor days	66	67	80	75	76
Inventory days	17	20	25	28	28
Creditor days	71	86	86	86	86

Source: Company, JM Financial

Source: Company, JM Financial

Recommendation History

History of Recommendation and Target Price					
Date	Recommendation	Target Price	% Chg.		
20-Jul-23	Buy	155			
22-Aug-23	Buy	155	0.1		
18-Nov-23	Buy	170	9.6		
13-Feb-24	Buy	205	20.2		
23-May-24	Buy	220	7.6		

Ashoka Buildcon 280 230 180 Aug-21 Feb-22 Aug-22 Feb-23 Aug-23 Feb-24 Aug-24

Target Price

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., 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.

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 31-103 Registration Requirements, Exemptions and Ongoing Registrant Obligations. 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 the information contained herein.