# Sona BLW Precision Forgings | BUY

Broadly in-line; Robust order backlog to drive growth

Sona BLW Precision Forgings (Sona Comstar) revenue was 2% above JMFe. EBITDAM at 28.1% was in-line. YoY margin improvement (+30bps) was led by favourable mix and higher operating leverage. Management indicated that light vehicle market (across most geographies barring EU) remained steady. However, weak OHV demand (India and US) is expected to be a drag on the performance. EV revenue grew 53% QoQ and the share of EV revenue stood at 33% during 1Q (29% in FY24) as the company continues to win new EV orders (c.79% of net order book). Strong net order book (INR 233bn as on Jun'24) and consistent expansion in product portfolio is expected to aid growth. Further, the company is evaluating inorganic opportunities which can help expand its product / technological capabilities (approved fund raise of up to INR24bn). Positive operating leverage is expected to support margins. Diversified revenue, increasing share of EVs/Hybrids and strong order book makes Sona Comstar one of the best plays in the EV space. We expect it to post a c.24% / 29% revenue / EPS CAGR over FY24-27E. Maintain BUY rating with Sept'25 TP of INR 760 (DCF based). Key risks are slower adoption of EVs and inability to win new customers/orders.

- 1QFY25 Broadly in-line performance: Sona Comstar reported consolidated revenue of INR 8.9bn (+22% YoY, +1%QoQ), 2% above JMFe led by new order execution. Total revenue growth was ahead of the light vehicle sales growth in key markets (NA, India & Europe) owing to scale-up of revenue from new programs. EBITDA margin stood at 28.1% (+30bps YoY, +10bps QoQ), in-line with JMFe. YoY margin improvement was led by favourable product mix and higher operating leverage partially offset by higher freight cost. EBITDA came-in at INR 2.5bn (+24% YoY, +1% QoQ), 2% above JMFe. PAT stood at INR 1.4bn (+23%YoY, -4%QoQ), broadly in-line with JMFe.
- EV business: EV revenue during 1Q increased +53% YoY (+4% QoQ) to INR 2.8bn. Sequential improvement in EV business was due to ramp-up of new programs. Share of BEV revenue stood at 33% during 1Q (29% in FY24). During the quarter, the company added one new EV program to supply In-Cabin Sensors (ACAM) for an electric car worth INR ~1.5bn (SOP in Q3FY27) for a new-age OEM customer in Asian region. The company also added order worth INR 6.8bn to supply driveline products for Class 5 electric CV for an exisiting OEM customer based in NA (SOP in Q4FY25). With these additions, the company now has 55 EV programs with 31 different customers. Of these, 15 programs are in ramp-up phase and production is yet to commence for 28 programs.
- Demand outlook: Light Vehicle production grew by 3% across key geographies like North America, EU and India. However, OHV demand remains weak across both North America and India. The company remains cautious on PV demand in EU. It also indicated that E2W Traction Motor revenues remain sluggish and below company's estimates. Aggregate value of the net order book increased by INR 7bn QoQ to INR 233bn (added / consumed INR 11bn / INR 4bn worth new orders); orders for EV/ PHEVs stood at 79% of the net order book as at the end of 1QFY25 amounting to INR 184bn. Basis the order wins and OEM program schedules the company expects EVs to continue to drive growth in the medium-to-longer term. Management believes that Hybrid technology may do well in the near-term and act as a bridge before the industry ultimately transitions to BEVs from 2035 onwards. The company may benefit even in the interim as its content per vehicle is

JM FINANCIAL

Ronak Mehta ronak.mehta@jmfl.com | Tel: (91 22) 66303125

Vivek Kumar vivek.kumar@jmfl.com | Tel: (91 22) 66303019

we acknowledge the support services of Dev Jogani and Neha Ayyar in preparation of this report

Recommendation and Price Target	
Current Reco.	BUY
Previous Reco.	BUY
Current Price Target (12M)	760
Upside/(Downside)	10.6%
Previous Price Target	715
Change	6.3%

Key Data – SONACOMS IN	
Current Market Price	INR687
Market cap (bn)	INR403.2/US\$4.8
Free Float	62%
Shares in issue (mn)	586.4
Diluted share (mn)	586.4
3-mon avg daily val (mn)	INR1,181.3/US\$14.1
52-week range	765/488
Sensex/Nifty	80,149/24,414
INR/US\$	83.7

Price Performance			
%	1M	6M	12M
Absolute	7.8	17.4	18.4
Relative*	5.0	3.5	-2.0

\* To the BSE Sensex

Financial Summary					(INR mn)
Y/E March	FY23A	FY24A	FY25E	FY26E	FY27E
Net Sales	25,875	31,166	38,935	49,414	59,062
Sales Growth (%)	26.1	20.4	24.9	26.9	19.5
EBITDA	6,958	9,021	11,173	14,334	18,006
EBITDA Margin (%)	26.0	28.3	28.1	28.4	29.5
Adjusted Net Profit	3,953	5,265	6,546	8,660	11,192
Diluted EPS (INR)	6.8	9.0	11.2	14.8	19.1
Diluted EPS Growth (%)	21.9	32.9	24.3	32.3	29.2
ROIC (%)	18.4	20.5	21.7	26.2	30.8
ROE (%)	18.4	21.3	22.9	25.8	27.9
P/E (x)	101.7	76.5	61.5	46.5	36.0
P/B (x)	17.6	15.2	13.1	11.1	9.2
EV/EBITDA (x)	57.9	44.9	36.1	28.0	22.0
Dividend Yield (%)	0.3	0.4	0.6	0.7	1.0

Source: Company data, JM Financial. Note: Valuations as of 24/Jul/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.

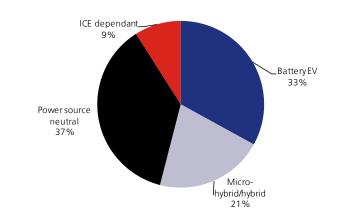
highest in a Plug-in Hybrid. (high-torque DA + Starter Motor + Traction Motor).

Other highlights: 1) Company board has approved fund raise of up to INR 24bn (in equity) towards inorganic opportunities (acquisition(s) or JV(s)) in the mobility space with advanced technological capabilities. 2) Company commercialised two products during 1Q - a) Park Gear for E-CVs and b) In-Cabin Sensor for child presence detection for electric PV. Further, the company added two new products in its technology roadmap - a) Integrated Hub Motor Controller and b) Integrated HV Motor Controller. 3) Company is pivoting Novelic from being an engineering services-led business to a product (Radar Sensors) and semiconductor chip design business by allocating more resources towards R&D and product development. 4) Company has been approved for 4 products (in E2Ws / E3Ws) so far for PLI benefit (few pending for approval). The company will recognise PLI benefits on receipt basis (likely from FY26).

Exhibit 1. Quarterly financial performance - consolidated								
(INR mn)	Q1FY25	Q1FY24	% YoY	Q4FY24	% QoQ	Q1FY25E	Var (%)	
Sales	8,930	7,322	22.0	8,853	0.9	8,764	1.9	
RM	3,788	3,153	20.1	3,858	(1.8)	3,847	(1.6)	
as a % of sales	42.4	43.1	-60bps	43.6	-120bps	43.9	-150bps	
Employee Exp	761	491	54.8	728	4.5	745	2.1	
as a % of sales	8.5	6.7	180bps	8.2	30bps	8.5	0bps	
Other Costs	1,870	1,644	13.8	1,785	4.8	1,709	9.4	
as a % of sales	20.9	22.4	-150bps	20.2	80bps	19.5	140bps	
Expenditure	6,419	5,288	21.4	6,371	0.7	6,301	1.9	
EBITDA	2,512	2,034	23.5	2,481	1.2	2,463	2.0	
EBITDA Margin (%)	28.1	27.8	30bps	28.0	10bps	28.1	0bps	
Other Income	70	54	29.7	75	(7)	85	(18.2)	
Interest	86	53	61.4	71	21	70	23.1	
Depreciation	606	511	18.7	598	1	610	(0.7)	
PBT	1,889	1,523	24.0	1,886	0	1,867	1.1	
Tax	472	375	25.9	405	16	429	9.8	
Exceptional item	0	(28)		0		-		
PAT (Adjusted)	1,417	1,149	23.4	1,481	(4.3)	1,438	(1.4)	
EPS (INR)	2.4	2.0	23.4	2.5	(4.3)	2.5	(1.4)	

Source: Company, JM Financial

Exhibit 2. 1QFY25 revenue mix - by powertrain

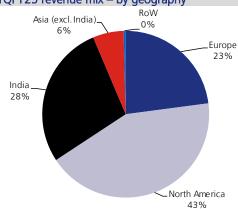


Source: Company, Industry

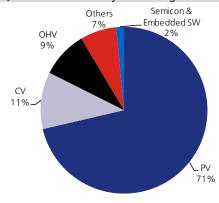
Exhibit 3. 1QFY25 revenue mix – by product Sensors & Others (incl. Other drive line. Software \_traction motors) parts 3% Conventional. starter motors . Differential gears 8% 33% Differential. assembly Micro-Hybrid starter motors 21%

Source: Company, Industry

### Exhibit 4. 1QFY25 revenue mix - by geography

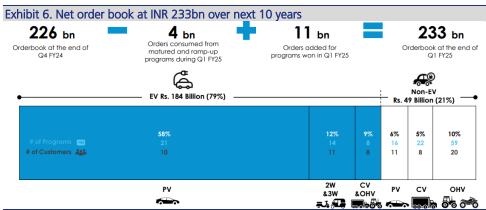


## Exhibit 5. 1QFY25 revenue mix by vehicle segment



Source: Company, JM Financial

Source: Company, JM Financial



Source: Company, JM Financial; Note: net order book means the aggregate revenue from awarded programs which are either yet to start production or are yet to fully ramp up, in the next 10 years, after adjusting for the negative impact of all programs that are expected to reach end of life or be phased out. The company has also applied a discount to accommodate any unforeseen delays or changes in program launches that may happen in the future.

Exhibit 7. DCF based valuation		
	Value (INR bn)	Per share value (INR)
Enterprise value (based on DCF)	444	759
Less: Net debt (FY24)	-1	-1
Fair value		760

Source: Company, JM Financial

Exhibit 8. Sona BLW Precision Forgings - Change in estimates									
Sona Comstar	Nev	v assumpti	on	Old assumption			% Change		
	FY25E	FY26E	FY27E	FY25E	FY26E	FY27E	FY25E	FY26E	FY27E
Revenue (INR mn)	39,713	50,478	61,078	40,472	51,159	NA	-2%	-1%	NA
EBITDA (INR mn)	11,173	14,334	18,006	11,172	14,210	NA	0%	1%	NA
EBITDAM (%)	28.1%	28.4%	29.5%	27.6%	27.8%	NA	50bps	60bps	NA
PAT (INR mn)	6,546	8,660	11,192	6,533	8,653	NA	0%	0.1%	NA
EPS (INR)	11.2	14.8	19.1	11.1	14.8	NA	0%	0.1%	NA

Source: Company, JM Financial

# Financial Tables (Consolidated)

Income Statement				(	INR mn)
Y/E March	FY23A	FY24A	FY25E	FY26E	FY27E
Net Sales	25,875	31,166	38,935	49,414	59,062
Sales Growth	26.1%	20.4%	24.9%	26.9%	19.5%
Other Operating Income	881	682	779	1,064	2,016
Total Revenue	26,756	31,848	39,713	50,478	61,078
Cost of Goods Sold/Op. Exp	12,200	13,741	17,366	22,055	26,264
Personnel Cost	1,804	2,501	2,718	3,429	4,040
Other Expenses	5,794	6,584	8,456	10,659	12,766
EBITDA	6,958	9,021	11,173	14,334	18,006
EBITDA Margin	26.0%	28.3%	28.1%	28.4%	29.5%
EBITDA Growth	24.5%	29.6%	23.9%	28.3%	25.6%
Depn. & Amort.	1,780	2,202	2,666	2,974	3,348
EBIT	5,178	6,819	8,507	11,360	14,658
Other Income	116	239	294	354	409
Finance Cost	169	258	244	244	244
PBT before Excep. & Forex	5,125	6,800	8,557	11,470	14,823
Excep. & Forex Inc./Loss(-)	0	0	0	0	0
PBT	5,125	6,800	8,557	11,470	14,823
Taxes	1,171	1,535	2,011	2,810	3,632
Extraordinary Inc./Loss(-)	0	-87	0	0	0
Assoc. Profit/Min. Int.(-)	0	0	0	0	0
Reported Net Profit	3,953	5,178	6,546	8,660	11,192
Adjusted Net Profit	3,953	5,265	6,546	8,660	11,192
Net Margin	14.8%	16.5%	16.5%	17.2%	18.3%
Diluted Share Cap. (mn)	585.4	586.4	586.4	586.4	586.4
Diluted EPS (INR)	6.8	9.0	11.2	14.8	19.1
Diluted EPS Growth	21.9%	32.9%	24.3%	32.3%	29.2%
Total Dividend + Tax	1,200	1,795	2,269	3,001	3,879
Dividend Per Share (INR)	2.1	3.1	3.9	5.1	6.6

Balance Sheet					(INR mn)
Y/E March	FY23A	FY24A	FY25E	FY26E	FY27E
Shareholders' Fund	22,902	26,503	30,781	36,439	43,752
Share Capital	5,854	5,864	5,864	5,864	5,864
Reserves & Surplus	17,048	20,639	24,916	30,575	37,888
Preference Share Capital	0	0	0	0	0
Minority Interest	0	1,498	1,498	1,498	1,498
Total Loans	2,952	4,121	4,032	3,947	3,866
Def. Tax Liab. / Assets (-)	0	0	0	0	0
Total - Equity & Liab.	25,854	32,122	36,310	41,884	49,116
Net Fixed Assets	15,029	19,624	20,142	21,348	22,278
Gross Fixed Assets	19,253	23,324	26,508	30,689	34,967
Intangible Assets	0	0	0	0	0
Less: Depn. & Amort.	5,135	7,337	10,003	12,977	16,326
Capital WIP	911	3,636	3,636	3,636	3,636
Investments	2,418	527	3,027	5,027	9,027
Current Assets	13,151	18,499	21,223	24,935	28,499
Inventories	3,229	3,475	5,165	6,588	7,820
Sundry Debtors	6,089	6,483	7,859	9,960	11,726
Cash & Bank Balances	698	2,742	2,286	2,354	2,793
Loans & Advances	0	0	0	0	0
Other Current Assets	3,134	5,799	5,913	6,033	6,159
Current Liab. & Prov.	4,744	6,527	8,082	9,426	10,688
Current Liabilities	3,629	4,936	6,411	7,672	8,847
Provisions & Others	1,115	1,591	1,670	1,754	1,842
Net Current Assets	8,406	11,972	13,142	15,509	17,811
Total – Assets	25,854	32,122	36,310	41,884	49,116

Source: Company, JM Financial

Source: Company, JM Financial

Cash Flow Statement				(	INR mn)
Y/E March	FY23A	FY24A	FY25E	FY26E	FY27E
Profit before Tax	5,125	6,800	8,557	11,470	14,823
Depn. & Amort.	1,780	2,202	2,666	2,974	3,348
Net Interest Exp. / Inc. (-)	169	258	244	244	244
Inc (-) / Dec in WCap.	-646	-147	-1,689	-2,365	-1,932
Others	0	1,411	0	0	0
Taxes Paid	-1,171	-1,535	-2,011	-2,810	-3,632
Operating Cash Flow	5,257	8,989	7,767	9,513	12,852
Capex	-3,252	-6,796	-3,184	-4,181	-4,279
Free Cash Flow	2,004	2,192	4,583	5,332	8,573
Inc (-) / Dec in Investments	-2,288	1,891	-2,500	-2,000	-4,000
Others	0	-1,760	0	0	0
Investing Cash Flow	-5,541	-6,666	-5,684	-6,181	-8,279
Inc / Dec (-) in Capital	11	10	0	0	0
Dividend + Tax thereon	-1,200	-1,795	-2,269	-3,001	-3,879
Inc / Dec (-) in Loans	1,271	911	-333	-329	-324
Others	128	593	63	66	70
Financing Cash Flow	210	-280	-2,539	-3,264	-4,134
Inc / Dec (-) in Cash	-74	2,043	-456	68	440
Opening Cash Balance	773	698	2,742	2,286	2,354
Closing Cash Balance	698	2,742	2,286	2,354	2,793

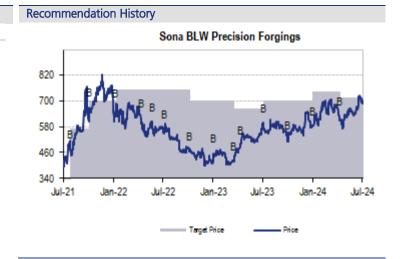
Dupont Analysis								
Y/E March	FY23A	FY24A	FY25E	FY26E	FY27E			
Net Margin	14.8%	16.5%	16.5%	17.2%	18.3%			
Asset Turnover (x)	1.1	1.1	1.1	1.2	1.3			
Leverage Factor (x)	1.1	1.2	1.2	1.2	1.2			
RoE	18.4%	21.3%	22.9%	25.8%	27.9%			

Key Ratios					
Y/E March	FY23A	FY24A	FY25E	FY26E	FY27E
BV/Share (INR)	39.1	45.2	52.5	62.1	74.6
ROIC	18.4%	20.5%	21.7%	26.2%	30.8%
ROE	18.4%	21.3%	22.9%	25.8%	27.9%
Net Debt/Equity (x)	0.0	0.0	0.0	-0.1	-0.2
P/E (x)	101.7	76.5	61.5	46.5	36.0
P/B (x)	17.6	15.2	13.1	11.1	9.2
EV/EBITDA (x)	57.9	44.9	36.1	28.0	22.0
EV/Sales (x)	15.0	12.7	10.1	7.9	6.5
Debtor days	83	74	72	72	70
Inventory days	44	40	47	48	47
Creditor days	67	79	82	77	75

Source: Company, JM Financial

Source: Company, JM Financial

History of Recommendation and Target Price					
Date	Recommendation	Target Price	% Chg.		
19-Aug-21	Buy	570			
28-Oct-21	Buy	700	22.8		
1-Feb-22	Buy	750	7.1		
5-May-22	Buy	750	0.0		
15-Jun-22	Buy	750	0.0		
28-Jul-22	Buy	750	0.0		
30-Oct-22	Buy	700	-6.7		
25-Jan-23	Buy	700	0.0		
10-Apr-23	Buy	665	-5.0		
3-May-23	Buy	665	0.0		
27-Jul-23	Buy	700	5.3		
25-Oct-23	Buy	700	0.0		
23-Jan-24	Buy	740	5.7		
1-May-24	Buy	715	-3.4		



#### 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	ition 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.			

<sup>\*</sup> 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 45-106 Prospectus Exemptions and a "permitted client" 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 lo