

Hang Xanh Motors Service JSC (HSX – HAX)

Benefiting from the favorable luxury car market

Particulars (VND B)	Q3-FY18	Q2-FY18	+/- QoQ	Q3-FY17	+/- YoY
Net revenue	1,142	1,155	-1.2%	945	20.8%
PAT	30	32	-4.8%	39	-22.8%
EBIT	52	49	6.8%	60	-12.8%
EBIT margin	4.6%	4.2%	34bps	6.3%	-177bps

Source: HAX, Rong Viet Securities

3Q 2018 Performance: Revenue was up, but profits went down

In 3Q 2018, total revenue increased by 21% YoY to VND 1,142 billion. Revenues from car sales reached VND 1,056 billion (+18% YoY), mostly from sales of CKD cars. Due to the challenges of Decree 116, no Mercedes Benz (MBV) cars were imported in the first eight months of the year. This situation made CBU cars sales decline considerably. Surprisingly, total sales of HAX in 3Q 2018 still improved sharply. This can be explained by the considerable rise in CKD cars sales, which compensated for the loss of CBU cars sales. Despite the increase in sales, 3Q 2018 NPAT still fell by 23% YoY due to the slump of incentives. In the quarter, this amount of incentives was only VND 19 billion (-50% YoY). As a result, in 9M 2018, revenue and NPAT reached VND 3,280 billion (+18% YoY) and VND 64 billion (+9% YoY), respectively.

2018 earnings may see a strong growth amid difficulties in cars import

As the supply of MBV showed signs of recovery in late 2018, the market share of HAX moved up significantly to 37% from 27% in 2017. We forecast that 2018 sales will reach 2,260 cars (+16.8% YoY), resulting in a 17% YoY increase in 2018 revenue.

In 2018, MBV faced challenges in importing CBU cars and change in the Vehicle Identification Number (VIN) convention of the key car line (GLC). Therefore, we forecast that the amount of incentives, which MBV offers to HAX, may decrease by 20% YoY to VND 87 billion. However, because of improved profit margin of the automotive distribution segment, a core business of HAX, we still expect 2018 NPAT to reach VND 112 billion (+34% YoY), corresponding to an EPS of 3,226 VND/share.

Valuation and Recommendation:

At current market price, HAX is trading at a P/E ratio of 5.4x, which we consider quite attractive given the positive prospects for 2019. We expect a growth in earnings of 9.2% YoY in 2019 thanks to anticipated improvement in the high-range automobile segment. In the long-term, we forecast that profits of the dealer will see a CAGR of 11% for the next five years. That is based on the strong position of MBV in the luxury auto industry and HAX's ambitions to expand market share of Mercedes car sales.

Our target price is **VND 19,600 per share**. This target price, coupled with a VND 1,500 cash dividend in the next 12 months, would yield a total return of **30%** (calculated based on the closing price on 21 December). Therefore, we have a **BUY** recommendation on HAX.

BUY
30%

CMP (VND)	16,200
Target Price (VND)	19,600
Cash Dividend (VND)	1,500

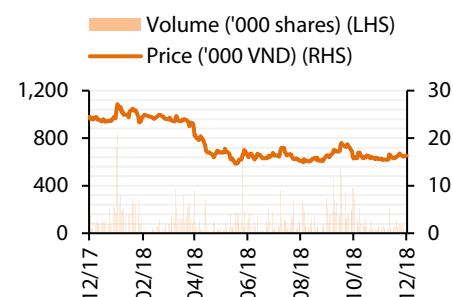
* Expected in the next 12 months

Stock Info

Sector	Automobile & Parts
Market Cap (VND B)	553.2
Current Shares O/S	35,013,399
Beta	0.53
Free Float (%)	36.9
52-week High	27,200
52-week Low	14,600
Avg. Daily Volume (20 sessions)	60,131

	FY2017	Current
EPS	3,611	2,571
EPS Growth (% YoY)	8.1	22
Adjusted EPS	2,407	2,571
P/E	9.7	5.4
P/B	1.4	1.2
EV/EBITDA	7.8	6.8
Cash Dividend	1,500	1,500
ROE (%)	21.8	21.5

Price performance



Major Shareholders (%)

Mr. Do Tien Dung	23.9
Foreign Ownership room (%)	36.9

Son Phan

(084) 028 – 6299 2006 – Ext 1519

son.pnt@vdsc.com.vn

Vy Nguyen

(084) 028- 6299 2006 – Ext 1528

vy.ntk@vdsc.com.vn

Exhibit 1: Q3 2018 Results

Particulars (VND B)	Q3-FY18	Q2-FY18	+/- (QoQ)	Q3-FY17	+/- (YoY)	3Q-FY18	+/- (YoY)
Net revenue	1,142	1,155	-1.2%	945	20.8%	3,281	18.9%
Gross profit	70	64	8.0%	55	26.1%	166	58.6%
SG&A	37	35	4.7%	33	10.4%	114	19.3%
Operating income	33	29	12.0%	22	50.4%	53	-247.3%
EBITDA	62	58	6.5%	60	2.4%	142	22.0%
EBIT	52	49	6.8%	60	-12.8%	113	10.4%
Financial expenses	14	9	58.5%	10	37.7%	32	30.9%
- Interest Expenses	14	9	59.5%	10	37.7%	32	30.8%
Dep. and amortization	10	9	4.9%	1	1,637.5%	29	105.9%
Non-recurring items (*)							
Extraordinary items (*)							
PBT	38	40	-4.7%	50	-23.2%	81	9.8%
PAT	30	32	-4.8%	39	-22.8%	64	4.1%
(*) Adjusted PAT	30	32	-4.8%	39	-22.8%	64	

Source: HAX, Rong Viet Securities

Exhibit 2: Q3 2018 Performance Analysis

Particulars	Q3-FY18	Q2-FY18	+/- (QoQ)	Q3-FY17	+/- (YoY)
Profitability Ratios (%)					
Gross Margin	6.1	5.6	51.7bps	5.8	25.9bps
EBITDA Margin	5.4	5.0	39.2 bps	6.4	-97.4bps
EBIT Margin	4.6	4.2	34.2 bps	6.3	-176.5bps
Net Margin	2.7	2.8	-10.2 bps	4.2	-150.0bps
Adjusted Net Margin	2.7	2.8	-10.2 bps	4.2	-150.0bps
Turnover *(x)					
-Inventories	7	7	-0.9	5	1.3
-Receivables	11.3	11.8	-0.4	15.1	-3.8
-Payables	18	28	-10.5	40	-22.5
Leverage (%)					
Total Debt/ Equity	271.0	296.2	-2,522.6 bps	317.1	-4,611.4 bps

Source: HAX, (*) Annualized turnover

Exhibit 3: Q4 2018 Performance Forecast

Particulars (VND Billion)	Q4-2018	+/- (QoQ)	+/- (YoY)
Revenue	1,208	5.9%	12.5%
Gross profit	63	-9.2%	54.2%
EBIT	64	21.7%	43.7%
NPAT	48	58.8%	86.7%

Source: HAX, Rong Viet Securities

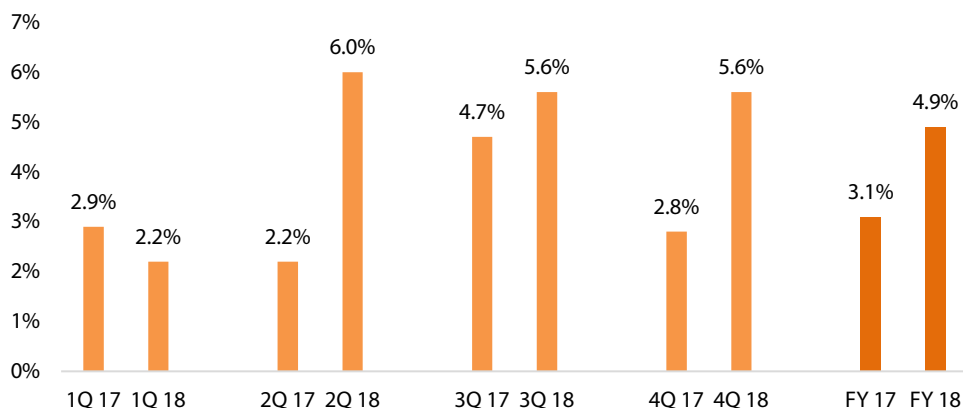
Update

Gross Profit Margin of the Automobile Business May Peak in 2018

GPM of HAX's core business has benefited from difficulties in the automobile market since 2Q 2018. Although CBU cars could not enter the Vietnamese market from January 2018 due to Decree 116, the lack of automobile supply has just started to become evident since the second quarter. In 1Q 2018, HAX had a large inventories, which were cars from 2017. Hence, HAX offered discounts to clear its old inventories. However, since 2Q 2018, as other automobile brands, supply of Mercedes - Benz brand could not meet pent-up demand. In 2Q and 3Q 2018, the firm therefore did not have to give customers a discount to boost sales as they did in 1Q 2018, leading to an uptick in GPM. Given this, GPM of HAX increased from 2.6% and 5.8 % in 2Q and 3Q 2017 to 5.6% and 6.1% in 2Q and 3Q 2018, respectively.

In the last quarter of 2018, the shortage of automobiles may support GPM. Currently, Mercedes – Benz Vietnam has not had enough CBU and CKD vehicles to meet the high domestic demand. In terms of CBU cars, long inspection time has forced the firm to delay deliveries to customers. According to Decree 116, once vehicles arrive in Vietnam, a sample is selected from every batch of imports to run tests for emission, quality and technical safety. The inspection is repeated shipment after shipment even if it is the same car model. Therefore, after arrival at the port, it takes around two to three months for delivering vehicles to customers. Regarding CKD automobiles, change in VIN convention of GLC car line, which is the key car line of Mercedes – Benz Vietnam, has made MBV postpone registry for those cars in recent months. Hence, delivery of these cars has been delayed. To sum up, as Mercedes – Benz cars demand exceeds supply, we expect that selling prices will remain favorable for HAX in 4Q 2018. We forecast that GPM will be high in the fourth quarter, at around 5.6%. As a result, the figure for 2018 is expected to reach 4.9%.

Figure 1: Gross Profit margin of the automobile business per quarter



Source: HAX, Rong Viet Securities

Distribution of other brands supports long-term growth

In 2019, HAX plans to distribute Nissan and Vinfast vehicles. In the short-term, the benefits from this could be negligible. Can Tho Automobile Engineering JSC will open a Nissan showroom in December 2018. Currently, Nissan just accounts for a minority of the market in the Vietnam auto market, 1%, with more than 20 dealerships nationwide. Therefore, we forecast that the average sale per showroom will be 200 units next year. Revenue and earnings from the distribution of Nissan cars in 2019 is expected to reach VND 105 billion and VND 2 billion, respectively, contributing to 2% of HAX's revenue and profits. Regarding Vinfast, PTM, a subsidiary of HAX, registered to be a dealer of this new brand. In 2019, we estimate that the Vinfast retail activity will bring marginal profits to HAX, considering that Vinfast needs time to solidify its position in a highly competitive auto industry. However, we believe that the distribution of Nissan and Vinfast will pave the way for long-term earnings growth.

The outlook of HAX in 2019 will benefit from the favorable luxury car market

Sales of HAX in 2019 are forecasted to grow significantly thanks to a positive outlook for the luxury market. Supply of luxury cars may recover strongly in 2019 as most imported cars can enter the Vietnamese market as of late 2018. In addition, demand for high-end cars in 2019 may

remain strong for three main reasons: (1) limited supply in 2018 has not met the high demand for luxury cars. (2) Vietnam-EU FTA may be a catalyst to stimulate demand for the sector and (3) the so-called 'affluent' population is growing, at a CAGR of 29% (2012- 2020), according to a report by the Boston Consulting Group (BCG). Therefore, sales of HAX in 2019 are expected to grow by 20% YoY.

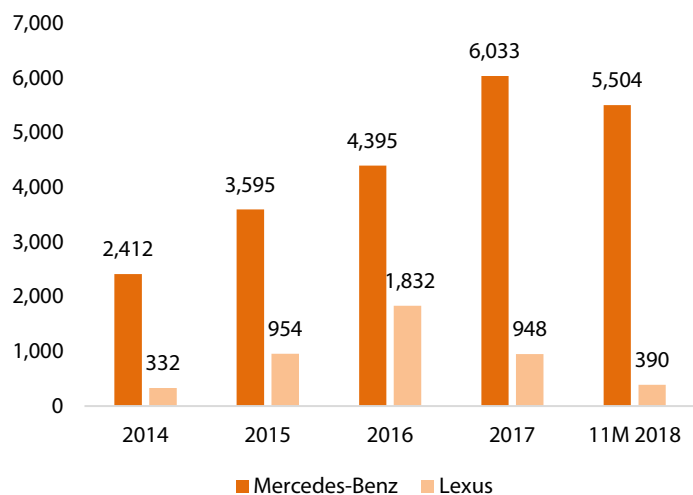
Incentives may compensate for the decrease in GPM, resulting in a slight improvement in NPAT. As above mention, GPM of the company may have peaked in 2018. We forecast that the figure will decrease in 2019. The automotive market in 2019 will be more competitive, as it is not anticipated to suffer from the shortages of auto supply as in 2018. Hence, to maintain their market share, car dealers may have to decrease selling prices, resulting in a slight fall in gross profit margin (GPM). The figure is forecasted to go down to 4% in 2019, from 4.8% in 2018.

In addition, we predict that MBV will have to ease incentive policies to stimulate dealers to push sales. Hence, we estimate that the amount of incentive, which MBV will offer to HAX in 2019, may increase 36% YoY to VND 118 billion. As a result, 2019 NPAT is forecasted to witness a growth of 9.2% to VND 123 billion, corresponding to an EPS of VND 3,523.

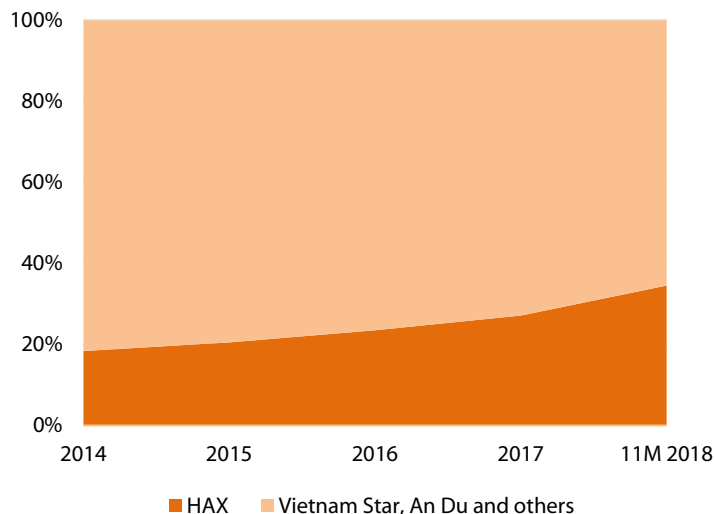
Valuation and Recommendation:

At current market price, HAX is trading at a P/E ratio of 5.4x, which we consider quite attractive given the positive prospects for 2019. We expect a growth in earnings of 9.2% YoY in 2019 thanks to anticipated improvement in the high-range automobile segment. In the long-term, we forecast that profits of the dealer will see a CAGR of 11% for the next five years. That is based on the strong position of MBV in the luxury auto industry and HAX's ambitions to expand market share of Mercedes car sales.

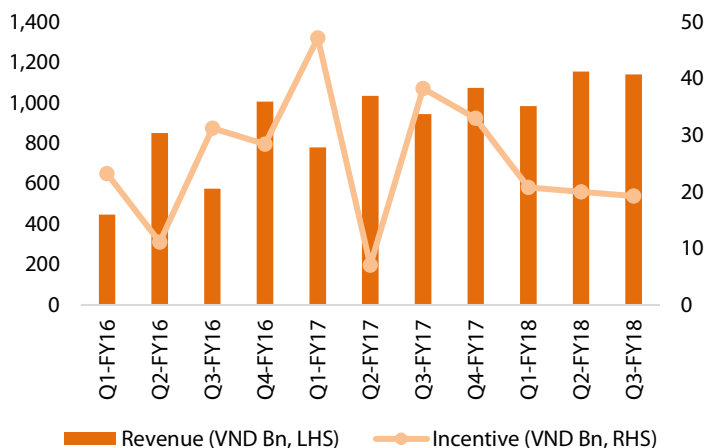
*Our target price is **VND 19,600 per share**. This target price, coupled with a VND 1,500 cash dividend in the next 12 months, would yield a total return of **30%** (calculated based on the closing price on 21 December). Therefore, we have a **BUY** recommendation on HAX.*

Figure 2: Mercedes and Lexus sales in Vietnam


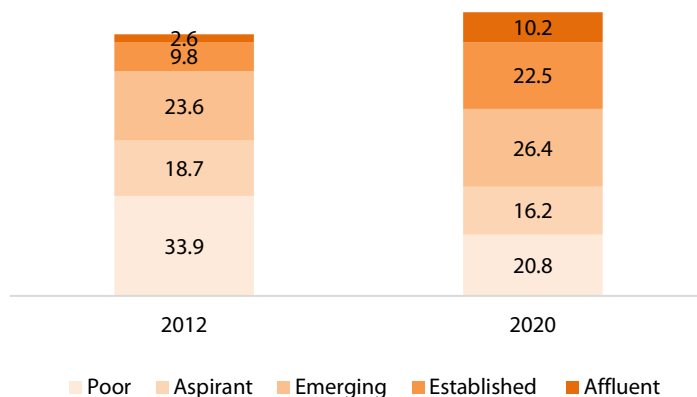
Source: VAMA, Rong Viet Securities

Figure 3: HAX's market share


Source: HAX, Rong Viet Securities

Figure 4: HAX's revenues from selling cars and incentive from MBV


Source: HAX, Rong Viet Securities

Figure 5: Vietnam has a fast-growing middle and affluent class population (millions)


Source: BCG, Rong Viet Securities

* The MAC cutoff is monthly per capita income of USD 190

	VND Billion			
INCOME STATEMENT	FY2016	FY2017	FY2018E	FY2019F
Revenue	2,880	3,833	4,489	5,382
COGS	2,780	3,688	4,260	5,146
Gross profit	100	146	229	236
Selling Expense	59	84	103	120
G&A Expense	23	41	46	54
Finance Income	1	0	1	1
Finance Expense	12	36	36	40
Other profits	91	125	96	130
PBT	97	110	141	154
Prov. of Tax	18	26	28	31
Minority's Interest	0	0	0	0
PAT to Equity S/H	78	84	113	123
EBIT	109	146	177	194
EBITDA	124	175	204	222

%

FINANCIAL	FY2016	FY2017	FY2018E	FY2019F
Growth				
Revenue	58.1	33.1	17.1	19.9
Operating Income	113.5	34.1	21.5	9.3
EBITDA	142.9	41.1	16.8	8.8
PAT	170.7	8.1	34.0	9.2
Total Assets	107.2	71.5	4.8	14.3
Equity	133.2	28.0	21.2	15.1
Profitability				
Gross margin	3.5	3.8	5.1	4.4
EBITDA margin	4.3	4.6	4.5	4.1
EBIT margin	3.8	3.8	4.0	3.6
Net margin	2.7	2.2	2.5	2.3
ROA	9.1	5.7	7.3	7.0
ROE	25.9	21.8	24.2	22.9
Efficiency				
Receivables Turnover	13.4	10.7	10.4	10.4
Inventories Turnover	7.1	5.9	6.6	6.6
Payables Turnover	12.8	18.7	17.4	17.4
Liquidity				
Current	1.2	1.0	1.1	1.1
Solvency				
Total Debt/Equity	112.1	229.5	176.9	172.1
Current Debt/Equity	112.1	229.5	176.9	172.1
Long-term Debt/Equity	0.0	0.0	0.0	0.0

	VND Billion			
BALANCE SHEET	FY2016	FY2017	FY2018E	FY2019F
Cash and cash equivalents	41	69	57	53
Short-term investments	0	0	0	0
Accounts receivable	215	359	430	516
Inventories	390	629	642	775
Other current assets	18	48	43	56
Property, plant & equipment	116	293	298	291
Acquired intangible assets	78	71	69	68
Long-term investments	0	0	0	0
Other non-current assets	5	8	8	9
Total assets	861	1,476	1,547	1,768
Accounts payable	217	198	245	296
Short-term borrowings	338	885	827	927
Long-term borrowings	0	0	0	0
Other non-current liabilities	1	4	3	3
Bonus and Welfare fund	0	0	0	0
Technology-science, dev. fund	0	0	0	0
Total liabilities	556	1,087	1,076	1,226
Common stock and APIC	206	297	350	350
Treasury stock (enter as -)	0	0	0	0
Retained earnings	88	84	113	184
Other comprehensive income	0	0	0	0
Inv. and Dev. Fund	8	4	4	4
Total equity	301	386	468	539
Minority Interest	4	4	4	4

VALUATION RATIO	FY2016	FY2017	FY2018E	FY2019F
EPS (dong)	2,227	2,407	3,226	3,523
P/E (x)	7.4	9.7	5.0	4.6
BV (dong)	21,184	16,525	13,357	15,380
P/B (x)	1.9	2.2	1.2	1.0
DPS (dong/cp)	0	1,500	1,500	1,500
Dividend yield (%)	0.0	6.4	9.3	9.3

VALUATION MODEL	Price	Weight	Average
PE	23,016	50%	11,508
EV/EBITDA	16,241	50%	8,120
Target price (dong)			19,629

VALUATION HISTORY	Price	Recommendation	Period
02/5/2018	29,000	Neutral	1-year
04/16/2018	29,500	Buy	1-year

RESULT UPDATE

This report is created for the purpose of providing investors with an insight into the discussed company that may assist them in the decision-making process. The report comprises analyses and projections that are based on the most up-to-date information with the objective that is to determine the reasonable value of the stock at the time such analyses are performed. Through this report, we strive to convey the complete assessment and opinions of the analyst relevant to the discussed company. To send us feedbacks and/or receive more information, investors may contact the assigned analyst or our client support department.

RATING GUIDANCE

Ratings	BUY	ACCUMULATE	REDUCE	SELL
Total Return including Dividends in 12-month horizon	>20%	5% to 20%	-20% to -5%	<-20%

ABOUT US

RongViet Securities Corporation (RongViet) was established in 2007, licensed to perform the complete range of securities services including brokerage, financial investment, underwriting, financial and investment advisory and securities depository. RongViet now has an operating network that spreads across the country. Our major shareholders, also our strategic partners, are reputable institutions, i.e Eximbank, Viet Dragon Fund Management, etc... Along with a team of the professional and dynamic staffs, RongViet has the man power as well as the financial capacity to bring our clients the most suitable and efficient products and services. Especially, RongViet was one of the very first securities firms to pay the adequate attention to the development of a team of analysts and the provision of useful research report to investors.

The **Analysis and Investment Advisory Department** of RongViet Securities provides research reports on the macro-economy, securities market and investment strategy along with industry and company reports and daily and weekly market reviews.

ANALYSIS & INVESTMENT ADVISORY DEPARTMENT

Bernard Lapointe

Head of Research

bernard.lapointe@vdsc.com.vn

+ 84 28 62992006 (1525)

Lam Nguyen

Senior Strategist

lam.ntp@vdsc.com.vn

+ 84 28 6299 2006 (1313)

- Banking
- Market Strategy

Hieu Nguyen

Senior Analyst

hieu.nd@vdsc.com.vn

+ 84 28 6299 2006 (1514)

- Market Strategy
- Pharmaceuticals
- Aviation

Duong Lai

Senior Analyst

duong.ld@vdsc.com.vn

+ 84 28 6299 2006 (1522)

- Real Estate
- Building Materials

Vu Tran

Senior Analyst

vu.thx@vdsc.com.vn

+ 84 28 6299 2006 (1518)

- Oil & Gas
- Fertilizer

Son Phan

Analyst

son.pnt@vdsc.com.vn

+ 84 28 6299 2006 (1519)

- Utilities
- Natural Rubber

Tu Vu

Analyst

tu.va@vdsc.com.vn

+ 84 28 6299 2006 (1511)

- Macroeconomics

Son Tran

Analyst

son.tt@vdsc.com.vn

+ 84 28 6299 2006 (1527)

- Market Strategy
- Retail
- Technology

Tung Do

Analyst

tung.dt@vdsc.com.vn

+ 84 28 6299 2006 (1521)

- Logistics
- Aviation

Thu Pham

Analyst

thu.pa@vdsc.com.vn

+ 84 28 6299 2006 (1520)

- Industrial Real Estate
- Infrastructure & BOT

Thao Dang

Analyst

thao.dtp@vdsc.com.vn

+ 84 28 6299 2006 (1529)

- Food & Beverage
- Textiles

Tam Pham

Analyst

tam.ptt@vdsc.com.vn

+ 84 28 6299 2006 (1530)

- Insurance
- Fishery

Anh Nguyen

Analyst

anh2.ntt@vdsc.com.vn

+ 84 28 6299 2006 (1531)

- Banking

Vy Nguyen

Analyst

vy.ntk@vdsc.com.vn

+ 84 28 6299 2006 (1528)

- Automobile & Parts

Trinh Le

Analyst

trinh.lx@vdsc.com.vn

+ 84 28 6299 2006 (1536)

- Industrials
- Agricultural Medicine

Thinh Bui

Analyst

thinh.bnh@vdsc.com.vn

+ 84 28 6299 2006 (1315)

- Market Strategy
- Steel

Anh Tran

Analyst

anh.tm@vdsc.com.vn

+ 84 28 6299 2006 (1293)

- Building Materials
- Construction

Hoang Nguyen

Analyst

hoang.nt@vdsc.com.vn

+ 84 28 6299 2006 (1538)

- Macroeconomics

Ha Tran

Assistant

ha.ttn@vdsc.com.vn

+ 84 28 6299 2006 (1526)

Vi Truong

Assistant

vi.ttt@vdsc.com.vn

+ 84 28 6299 2006 (1517)

DISCLAIMERS

This report is prepared in order to provide information and analysis to clients of Rong Viet Securities only. It is and should not be construed as an offer to sell or a solicitation of an offer to purchase any securities. No consideration has been given to the investment objectives, financial situation or particular needs of any specific. The readers should be aware that Rong Viet Securities may have a conflict of interest that can compromise the objectivity this research. This research is to be viewed by investors only as a source of reference when making investments. Investors are to take full responsibility of their own decisions. VDSC shall not be liable for any loss, damages, cost or expense incurring or arising from the use or reliance, either full or partial, of the information in this publication.

The opinions expressed in this research report reflect only the analyst's personal views of the subject securities or matters; and no part of the research analyst's compensation was, is, or will be, directly or indirectly, related to the specific recommendations or opinions expressed in the report.

The information herein is compiled by or arrived at Rong Viet Securities from sources believed to be reliable. We, however, do not guarantee its accuracy or completeness. Opinions, estimations and projections expressed in this report are deemed valid up to the date of publication of this report and can be subject to change without notice.

This research report is copyrighted by Rong Viet Securities. All rights reserved. Therefore, copy, reproduction, republish or redistribution by any person or party for any purpose is strictly prohibited without the written permission of VDSC. Copyright 2016 Viet Dragon Securities Corporation.

IMPORTANT DISCLOSURES FOR U.S. PERSONS

This research report was prepared by Viet Dragon Securities Corp. ("VDSC"), a company authorized to engage in securities activities in Vietnam. VDSC is not a registered broker-dealer in the United States and, therefore, is not subject to U.S. rules regarding the preparation of research reports and the independence of research analysts. This research report is provided for distribution to "major U.S. institutional investors" in reliance on the exemption from registration provided by Rule 15a-6 of the U.S. Securities Exchange Act of 1934, as amended (the "Exchange Act").

Additional Disclosures

This research report is for distribution only under such circumstances as may be permitted by applicable law. This research report has no regard to the specific investment objectives, financial situation or particular needs of any specific recipient, even if sent only to a single recipient. This research report is not guaranteed to be a complete statement or summary of any securities, markets, reports or developments referred to in this research report. Neither VDSC nor any of its directors, officers, employees or agents shall have any liability, however arising, for any error, inaccuracy or incompleteness of fact or opinion in this research report or lack of care in this research report's preparation or publication, or any losses or damages which may arise from the use of this research report.

VDSC may rely on information barriers, such as "Chinese Walls" to control the flow of information within the areas, units, divisions, groups, or affiliates of VDSC.

Investing in any non-U.S. securities or related financial instruments (including ADRs) discussed in this research report may present certain risks. The securities of non-U.S. issuers may not be registered with, or be subject to the regulations of, the U.S. Securities and Exchange Commission. Information on such non-U.S. securities or related financial instruments may be limited. Foreign companies may not be subject to audit and reporting standards and regulatory requirements comparable to those in effect within the United States.

The value of any investment or income from any securities or related financial instruments discussed in this research report denominated in a currency other than U.S. dollars is subject to exchange rate fluctuations that may have a positive or adverse effect on the value of or income from such securities or related financial instruments.

Past performance is not necessarily a guide to future performance and no representation or warranty, express or implied, is made by VDSC with respect to future performance. Income from investments may fluctuate. The price or value of the investments to which this research report relates, either directly or indirectly, may fall or rise against the interest of investors. Any recommendation or opinion contained in this research report may become outdated as a consequence of changes in the environment in which the issuer of the securities under analysis operates, in addition to changes in the estimates and forecasts, assumptions and valuation methodology used herein.

No part of the content of this research report may be copied, forwarded or duplicated in any form or by any means without the prior.

RESEARCH DISCLOSURES

Third Party Research

This is third party research. It was prepared by RongViet Securities Corporation (RongViet), with headquarters in Ho Chi Minh City, Vietnam. RongViet is authorized to engage in securities activities according to its domestic legislation. This research is not a product of Exotix USA, Inc, a U.S. registered broker-dealer. RongViet has sole control over the contents of this research report. Exotix USA, Inc does not exercise any control over the contents of, or the views expressed in, research reports prepared by RongViet.

RongViet is not registered as a broker-dealer in the United States and, therefore, is not subject to U.S. rules regarding the preparation of research reports and the independence of research analysts. This research report is provided for distribution to "major U.S. institutional investors" and other "U.S. institutional investors" in reliance on the exemption from registration provided by Rule 15a-6 of the U.S. Securities Exchange Act of 1934, as amended (the "Exchange Act").

Any U.S. recipient of this research report wishing to effect any transaction to buy or sell securities or related financial instruments based on the information provided in this research report should do so only through Exotix USA, Inc, located at Floor 36, 444 Madison Avenue, Floor 36, New York, NY 10022. A representative of Exotix USA, Inc. is contactable on +1 (212) 551 3480. Under no circumstances should any U.S. recipient of this research report effect any transaction to buy or sell securities or related financial instruments through RongViet. Exotix USA, Inc accepts responsibility for the contents of this research report, subject to the terms set out below, to the extent that it is delivered to a U.S. person other than a major U.S. institutional investor.

None of the materials provided in this report may be used, reproduced, or transmitted, in any form or by any means, electronic or mechanical, including recording or the use of any information storage and retrieval system, without written permission from.

RongViet is the employer of the research analyst(s) responsible for the content of this report and research analysts preparing this report are resident outside the U.S. and are not associated persons of any U.S. regulated broker-dealer. The analyst whose name appears in this research report is not registered or qualified as a research analyst with the Financial Industry Regulatory Authority ("FINRA") and may not be an associated person of Exotix USA, Inc and, therefore, may not be subject to applicable restrictions under FINRA Rules on communications with a subject company, public appearances and trading securities held by a research analyst account.

Exotix USA, Inc. or its affiliates has not managed or co-managed a public offering of securities for the subject company in the past 12 months, has not received compensation for investment banking services from the subject company in the past 12 months, and does not expect to receive or intend to seek compensation for investment banking services from the subject company in the next three months. Exotix USA, Inc. has never owned any class of equity securities of the subject

company. There are no other actual, or potential, material conflicts of interest of Exotix USA, Inc. at the time of the publication of this report. As of the publication of this report, Exotix USA, Inc. does not make a market in the subject securities.

About Exotix Capital

Exotix Capital is a registered trade mark of Exotix Partners LLP. Exotix Partners LLP and its subsidiaries ("Exotix Capital") provide specialist investment banking services to trading professionals in the wholesale markets. Exotix Capital draws together liquidity and matches buyers and sellers so that deals can be executed by its customers. Exotix Capital may at any time, hold a trading position in the securities and financial instruments discussed in this report. Exotix Capital has procedures in place to identify and manage any potential conflicts of interests that arise in connection with its research. A copy of Exotix Capital's conflict of interest policy is available at www.exotix.com/regulatory-information.

Distribution

This report is not intended for distribution to the public and may not be reproduced, redistributed or published, in whole or in part, for any purpose without the written permission of Exotix Capital. Exotix Capital shall accept no liability whatsoever for the actions of third parties in this respect. This report is for distribution only under such circumstances as may be permitted by applicable law.

This report may not be used to create any financial instruments or products or any indices. Neither Exotix Capital, nor its members, directors, representatives, or employees accept any liability for any direct or consequential loss or damage arising out of the use of all or any part of the information herein.

United Kingdom: Distributed by Exotix Partners LLP only to Eligible Counterparties or Professional Clients (as defined in the FCA Handbook). The information herein does not apply to, and should not be relied upon by, Retail Clients (as defined in the FCA Handbook); neither the FCA's protection rules nor compensation scheme may be applied.

UAE: Distributed in the Dubai International Financial Centre by Exotix Partners LLP (Dubai) which is regulated by the Dubai Financial Services Authority ("DFSA"). Material is intended only for persons who meet the criteria for Professional Clients under the Rules of the DFSA and no other person should act upon it.

Other distribution: The distribution of this report in other jurisdictions may be restricted by law and persons into whose possession this document comes should inform themselves about, and observe, any such restriction.

Disclaimers

Exotix Capital and/or its members, directors or employees may have interests, or long or short positions, and may at any time make purchases or sales as a principal or agent of the securities referred to herein. Exotix Capital may rely on information barriers, such as "Chinese Walls" to control the flow of information within the areas, units, divisions, groups of Exotix Capital.

Investing in any non-U.S. securities or related financial instruments (including ADRs) discussed in this report may present certain risks. The securities of non-U.S. issuers may not be registered with, or be subject to the regulations of, the U.S. Securities and Exchange Commission. Information on such non-U.S. securities or related financial instruments may be limited. Foreign companies may not be subject to audit and reporting standards and regulatory requirements comparable to those in effect within the United States. The value of any investment or income from any securities or related financial instruments discussed in this report denominated in a currency other than U.S. dollars is subject to exchange rate fluctuations that may have a positive or adverse effect on the value of or income from such securities or related financial instruments.

Frontier and Emerging Market laws and regulations governing investments in securities markets may not be sufficiently developed or may be subject to inconsistent or arbitrary interpretation or application. Frontier and Emerging Market securities are often not issued in physical form and registration of ownership may not be subject to a centralised system. Registration of ownership of certain types of securities may not be subject to standardised procedures and may even be effected on an ad hoc basis. The value of investments in Frontier and Emerging Market securities may also be affected by fluctuations in available currency rates and exchange control regulations. Not all of these or other risks associated with the relevant company, market or instrument which are the subject matter of the report are necessarily considered.