



Vietnam

ADD (no change)

Consensus ratings*:	Buy 4	Hold 0	Sell 2
Current price:		VNI	D11,750
Target price:		VNI	D15,800
Previous target:		VNI	D15,800
Up/downside:			34.5%
CGS-CIMB / Consens	sus:		3.3%
Reuters:			PM.HM
Bloomberg:		[OPM VN
Market cap:		USS	197.9m
		VND4,59	98,178m
Average daily turnove	er:	US	\$\$0.14m
		VNE	03,274m
Current shares o/s:			391.4m
Free float:			19.8%
*Source: Bloomberg			
	_		

Key changes in this note

FY20-21F EPS increased by 7%



		Source: E	lloomberg
Price performance	1M	ЗМ	12M
Absolute (%)	-6.4	-14.9	-47.6
Relative (%)	-4.5	-6.8	-51.1

Major shareholders	% held
PetroVietnam	59.6
Edgbaston	4.9
Nghe An Agricultural Materials and	3.9
Food JSC	

PetroVietnam Fertilizer and **Chemicals**

Moderate recovery in FY20F

- 4QFY19 revenue declined by 1.6% yoy; net profit surged by 57.2% yoy as 4Q19 gas input price slumped by 25% yoy, based on our estimates.
- FY19 revenue and net profit fell by 17.4% yoy and 46.0% yoy, respectively, to come in at 100.9% and 145.8% of our full-year forecasts.
- Reiterate Add, with an unchanged target price of VND15.8k.

Better 4Q19 results on lower gas input price

PetroVietnam Fertilizer and Chemicals Corporation's (DPM) 4Q19 revenue eased by 1.6% yoy as urea sales volume jumped by 36.2% yoy but with a 16.5% yoy decline in ASP. However, 4Q19 net profit surged by 57.2% yoy to VND234bn, thanks to: 1) a 3.7-pt yoy higher GPM on lower gas input prices, and 2) a 20.7% rise in financial income due to its higher cash balance. DPM's FY19 net revenue fell by 17.4% yoy, in line at 100.9% of our full-year forecast. FY19 net profit was VND377.7bn (-46.0% yoy), exceeding our full-year forecast by 45.8%, due to the 57.2% surge in 4Q19 net profit.

FY20F urea sales volume could rise by 15% you

After completing its 72-day maintenance period and running at full capacity since 1 May 2019, DPM recorded a 2H19 urea sales volume of 430,000 tonnes (+14.2% yoy). As we are not aware of any upcoming long maintenance plan in 2020, we forecast FY20F urea sales volume to increase by 15% yoy to 794,000 tonnes, or 1% above DPM's 2020 plan.

We raise FY20-21F GPM on lower gas input prices

We lower our forecast of FY20F average Brent crude oil price by 5% to US\$62/barrel, as further oversupply is expected on the oil market, and cut FY20F and FY21F gas input price by 8.7%. Following this, we raise FY20F GPM to 18.9% and FY21F GPM to 20.2% (vs. our previous forecasts of 18.3% and 19.7%, respectively.

We expect a moderate recovery in FY20F

We revise up FY20F net profit by 7% to VND544bn (+44.0% yoy), on the back of 1) a 0.7pt yoy higher GPM due to lower gas input prices, and 2) a 16.4% yoy rise in financial income due to higher cash balance.

Reiterate Add, with an unchanged TP of VND15,800

Our TP price is based on a 40:30:30 weighting of: 1) FY20-24F DCF valuation, 2) 8.0x FY20F EPS, and 3) 0.7x FY20F P/BV. We believe that the recovery of DPM's business results will extend through FY20F, thus we reiterate our Add call. Potential re-rating catalysts include: 1) better-than-expected new gas contract terms, and 2) favourable oil price movements. Downside risks include further delays in the amended VAT policy.

Analyst(s)

T (84) E hinh



DINH	
168 527 4887	
.dinh@vndirect.com.vn	

Financial Summary	Dec-18A	Dec-19A	Dec-20F	Dec-21F	Dec-22F
Revenue (VNDb)	9,297	7,684	9,063	9,717	10,222
Operating EBITDA (VNDb)	1,321	994	1,195	1,379	1,356
Net Profit (VNDb)	699.6	377.7	544.6	723.3	731.4
Core EPS (VND)	1,787	965	1,391	1,848	1,869
Core EPS Growth	0.7%	(46.0%)	44.2%	32.8%	1.1%
FD Core P/E (x)	6.57	12.18	8.44	6.36	6.29
DPS (VND)	1,999	1,000	1,000	1,500	1,500
Dividend Yield	17.0%	8.5%	8.5%	12.8%	12.8%
EV/EBITDA (x)	2.52	2.01	1.63	1.04	0.88
P/FCFE (x)	33.42	2.78	17.74	4.99	7.08
Net Gearing	(17.4%)	(34.0%)	(33.9%)	(39.6%)	(41.7%)
P/BV (x)	0.57	0.58	0.56	0.56	0.55
ROE	8.77%	4.70%	6.75%	8.80%	8.75%
% Change In Core EPS Estimates			7.06%	6.91%	0.76%
CGS-CIMB/Consensus EPS (x)			1.23	1.25	1.01

SOURCES: VND RESEARCH, COMPANY REPORTS





Moderate recovery in FY20F 4Q19 results showed signs of strong recovery

Figure 1: Results comp	oarison						
FYE Dec (VND bn)	4Q19	4Q18	% yoy chg	2019	2018	% yoy	vs FY19F Commentary
Brent crude oil (US\$/barrel)	62.6	68.6	-8.7%	64.2	71.7	-10.5%	100.0%
Gas input price (US\$/barrel)	5.0	6.6	-25.0%	6.2	6.3	-1.7%	$\begin{array}{l} \mbox{Average fuel oil price in 4Q19 declined sharply by 35\% yoy, leading} \\ \mbox{to 25\% yoy decrease in DPM's 4Q19 gas input price} \end{array}$
Urea sales volume	237	174	36.2%	691.2	812.0	-14.9%	4Q19 urea consumption surged by 23.2% qoq and 36.2% yoy to 237,000 tonnes, as DPM's plants operated at full capacity to 101.6% compensate for a drop in output in 1H19 due to a long maintenance period. However, 4Q19 urea ASP dropped by 16.5% yoy to VND6,388/tonne.
Average urea sales price (VND/kg)	6,388	7,650	-16.5%	7,024	7,042	-0.3%	97.9%
Net revenue	2,285.0	2,321.5	-1.6%	7,684	9,297	-17.4%	100.9%
Gross profit	557.0	479.7	16.1%	1,402.1	1,899.5	-26.2%	112.0%
Gross profit margin	24.4%	20.7%	+3.7pts	18.2%	20.4%	-2.2% pts	+2.0pts Gross profit margin increased to 24.4% in 4Q19 from 20.7% in 4Q18 thanks to (1) a 25% decline in 4Q19 gas input price, and (2) higher contribution of urea which has higher GPM than DPM's other products. Therefore, FY2019 GPM exceeded our expectation by 2.0pts.
Selling expenses	202.1	180.0	12.3%	554.8	612.3	-9.4%	Selling expenses in 4Q19 increased by 12.3% yoy, following by a 30% yoy increase in 4Q19 urea sales volume.
G&A expenses	95.6	111.8	-14.5%	415.3	485.7	-14.5%	97.4%
SG&A/net revenue (%)	13.0%	12.6%	+0.4pts	12.6%	11.8%	+0.8pts	+0.3pts
Operating income	259.3	187.9	38.0%	432.0	801.4	-46.1%	137.1%
Financial income	59.5	49.3	20.7%	140.0	123.7	13.2%	126.1% 4Q19 financial income rose significantly by 20.7% yoy thanks to the higher cash balance.
Financial expenses	26.4	32.6	-18.9%	107.6	73.8	45.9%	97.3%
Profit before tax	290.0	214.9	34.9%	467.1	870.6	-46.4%	Pre-tax and net profit surged in 4Q19, thanks to: 1) a sharp increase in urea sales volume in 4Q19, 2) a sharp decline in gas input price in 4Q19, and 3) a surge in 4Q19 financial income. FY2019 net profit surpassed our forecast by 46%.
Net profit	234.0	148.8	57.2%	377.7	699.6	-46.0%	145.8%
							Source: VND RESEARCH, Financial reports

2020F: We expect a moderate recovery

FY20F urea sales volume could rise by 15% yoy ➤

DPM's urea and NH3 plants were shut for a 72-day maintenance period in 1H19, causing 1H19 urea sales volume to drop by 40% yoy to 261,000 tonnes. Post maintenance, the plants have been running at full capacity since 1 May 2019, and DPM's 2H19 urea sales volume reached 430,000 tonnes (+14.2% yoy). As we are not aware of any upcoming long maintenance plan in 2020, we forecast FY20F urea sales volume to increase by 15% to 794,000 tonnes, or 1% above DPM's 2020 plan.

We raise FY20-21F GPM on lower gas input prices ➤

GPM increased significantly to 24.4% in 4Q19 from 20.7% in 4Q18 (vs. 15.7% in 9M19), thanks to: 1) a 25% decline in 4Q19 gas input, and 2) higher contribution of urea, which has higher GPM than DPM's other products. We lower our FY20F average Brent crude oil price forecast by 5% to US\$62/barrel, as oversupply is expected on the oil market, and cut FY20F and FY21F gas input price by 8.7%. Following this, we raise FY20F GPM to 18.9% and FY21F GPM to 20.2% (vs. our previous forecasts of 18.3% and 19.7%, respectively).





We expect a moderate recovery in FY20F ➤

We revise up FY20F net profit by 7% to VND544bn (+44.0% yoy), thanks to 1) a 0.7-pt yoy higher GPM as gas input price is expected to drop, and 2) a 16.4% yoy rise in financial income due to higher cash balance.

Earnings revision ▶

		2020F			2021F		2022F	Note
Unit: VNDbn, otherwise noted	Old	New	%∆	Old	New	%∆		
Brent crude oil (average, US\$/bbl)	65.0	62.0	-5%	68.6	65.4	-5%	66.8	As oil prices showed sharp correction in 4Q19, we revise down FY20F average oil price to US\$62/bbl
Urea ASP (VND/kg)	7,245	7,064	-2%	7,317	7,105	-3%	7,237	We revise down FY20-21F ASP assumption as 2019 price level was lower than our expectation due to supply surplus in the urea market
Urea volume ('000 tonnes)	794	794	0%	802	802	0%	810	
NPK volume ('000 tonnes)	124	150	21%	158	175	11%	200	We raise our forecast for DPM's NPK consumption in FY20-21F period following the improvement in 4Q19 sales volume.
Other fertilizers ('000 tonnes)	240	189	-21%	240	220	-8%	220	We adjust the FY20F sales volume to be in line with the company's 2020 target
Net revenue	9,273	9,063	-2%	9.804	9.717	-1%	10,222	
Gross profit	1,700	1,711	1%	1,936	1,965	2%	2,005	
Gross profit margin	18.3%	18.9%	+0.6pts	19.7%	20.2%	+0.5pts	19.6%	
Selling expenses	622	626	1%	647	661	2%	695	
G&A expenses	489	482	-1%	517	509	-2%	531	
Operating profit	590	604	2%	773	796	3%	779	
Financial income	124	163	32%	126	167	33%	175	We update DPM's financial income to reflect higher- than-expected cash balance in 2019
Financial expenses	96	104	8%	79	87	10%	70	
Pre-tax profit	631	672	7%	834	887	6%	896	
Net profit	509	545	7%	677	723	7%	731	
D : EDO ((NID/)	1,300	1,391	7%	1,729	1,848	7%	1,869	
Basic EPS (VND/share)	1,000	.,						

Reiterate Add, with an unchanged TP of VND15,800

Our TP price is based on a 40:30:30 weighting of: 1) FY20-24F DCF valuation, 2) 8.0x FY20F EPS, and 3) 0.7x FY20F P/BV.

We think that DPM's share price movement has not reflected the strong recovery of its 4Q19 business results due to the negative impact of the novel coronavirus (nCoV) outbreaks. We believed the recovery of DPM's business results will extend through FY20F. Therefore, we reiterate our Add rating on DPM, with a total return of 43.0%, including a potential price gain of 34.5% and a FY20F dividend yield of 8.5%.





General assumptions (in VND bn, otherwise noted)	2020F	2021F	2022F	2023F	2024F	Terminal
Net income	545	723	731	742	742	
Tax rate (%)	17.1%	17.1%	17.1%	17.2%	16.8%	
Interest expense	98	81	64	48	33	
-Changes in working capital	(284)	182	(86)	19	(49)	
-Net Capex	(349)	(359)	(369)	(380)	(391)	
+Depreciation & Amortisation	591	583	577	547	547	
FCFF	584	1,198	906	968	877	7,273
PV of FCFF	516	935	625	590	472	3,917
PV of DCF (5 years)	3,138		Risk	free rate (10-year	VGB yield)	4%
PV of Terminal value	3,917		Equit	y risk premium		10%
Enterprise Value	7,056		Beta	(Source: BB, adj.	beta)	1.0
Less: Total debt	1,241		WAC	C		13%
Less: Total liability relating to PVTex investment	1,311		Term	inal growth rate		1%
Less: Minority interest	165					
Plus: Cash and Cash equiv.	4,012					
Implied EV	8,350					
No. of o/s shares (m)	391					
Implied value per share (VND)	21,334					

Figure 4: P/E and P/BV valuation - key inputs		Figure 5: Blended target price						
	FY19F	Valuation	Implied value per		Weighted value			
EPS FY2020F (VND)	1,207	method	share (VND)	Weight (%)	per share (VND)			
Target multiple (x)	8.0	DCF	21,334	40%	8,534			
Implied value per share (VND)	9,656	P/E	9,656	30%	2,897			
		P/BV	14,893	30%	4,468			
BVPS FY2020F (VND)	21,276							
Target multiple (x)	0.7	Fair value			15,899			
Implied value per share (VND)	14,893	Target price (r	rounded down)		15,800			
SC	URCES: VND RESEARCH			SOURC	ES: VND RESEARCH			

Company	Bloomberg Ticker	Recom.	Share Price (local curr)	Target Price (local curr)	Market Cap (US\$	P/E	(x)	P/B\	/ (x)		irring E (%)	EV/E	BITDA ()		dend d (%)		
	HUNCH				(local cull)	(local cull)	m)	FY20F	FY21F	FY20F	FY21F	FY20F	FY21F	FY20F	FY21F	FY20F	FY21F
Fatima Fertilizer Co Ltd	FATIMA PA	NR	24	N/A	329.0	3.4	3.3	0.6	0.5	N/A	19.1	N/A	N/A	N/A	N/A		
Stanley Agricultural Group Co Ltd	002588 CH	NR	4	N/A	692.8	34.8	17.4	1.1	1.0	3.3	6.1	N/A	N/A	0.5	0.7		
Engro Fertilizers Ltd	EFERT PA	NR	66	N/A	568.0	5.5	5.2	1.9	1.8	35.5	36.7	3.1	2.9	18.1	17.9		
Fauji Fertilizer Co Ltd	FFC PA	NR	105	N/A	864.1	7.3	6.9	2.6	1.8	31.2	42.4	4.0	3.7	11.5	11.6		
Engro Corp Ltd	ENGRO PA	NR	327	N/A	1,219.8	9.4	7.2	1.1	1.0	11.4	13.0	6.3	4.7	8.5	9.3		
Hubei Xinyangfeng Fertilizer Co Ltd	000902 CH	NR	7	N/A	1,355.0	10.9	9.2	1.4	1.2	12.8	14.0	6.4	5.3	2.3	2.8		
Average					838.1	11.9	8.2	1.4	1.2	18.8	21.9	5.0	4.1	8.2	8.5		
Median					778.5	8.4	7.1	1.2	1.1	12.8	16.5	5.2	4.2	8.5	9.3		
PetroVietnam Ca Mau	DCM VN	ADD	5,800	9,900	132.2	9.4	9.5	0.5	0.5	5.3	5.1	0.8	N/A	6.9	7.8		
PetroVietnam Fertilizer and Chemicals	DPM VN	ADD	11,750	15,800	197.9	8.4	6.4	0.6	0.6	6.8	8.8	1.6	1.0	8.5	12.8		

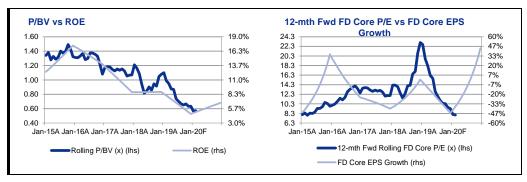


Petrochemical | Vietnam





BY THE NUMBERS



Profit & Loss					
(VNDb)	Dec-18A	Dec-19A	Dec-20F	Dec-21F	Dec-22F
Total Net Revenues	9,297	7,684	9,063	9,717	10,222
Gross Profit	1,899	1,402	1,711	1,965	2,005
Operating EBITDA	1,321	994	1,195	1,379	1,356
Depreciation And Amortisation	(519)	(562)	(591)	(583)	(577)
Operating EBIT	801	432	604	796	779
Financial Income/(Expense)	50	32	60	81	105
Pretax Income/(Loss) from Assoc.	0	0	0	0	0
Non-Operating Income/(Expense)	19	3	9	11	12
Profit Before Tax (pre-EI)	871	467	672	887	896
Exceptional Items					
Pre-tax Profit	871	467	672	887	896
Taxation	(158)	(78)	(115)	(152)	(153)
Exceptional Income - post-tax					
Profit After Tax	712	389	557	736	743
Minority Interests	(13)	(11)	(13)	(13)	(12)
Preferred Dividends					
FX Gain/(Loss) - post tax					
Other Adjustments - post-tax					
Net Profit	700	378	545	723	731
Recurring Net Profit	700	378	545	723	731
Fully Diluted Recurring Net Profit	700	378	545	723	731

Cash Flow					
(VNDb)	Dec-18A	Dec-19A	Dec-20F	Dec-21F	Dec-22F
EBITDA	1,321	994	1,195	1,379	1,356
Cash Flow from Invt. & Assoc.					
Change In Working Capital	(754)	566	(284)	182	(86)
(Incr)/Decr in Total Provisions					
Other Non-Cash (Income)/Expense	(84)	34	(2)	(1)	(1)
Other Operating Cashflow	(18)	54	(5)	6	7
Net Interest (Paid)/Received	60	24	65	86	111
Tax Paid	(144)	(46)	(115)	(152)	(153)
Cashflow From Operations	381	1,626	854	1,500	1,233
Capex	(891)	(43)	(349)	(359)	(369)
Disposals Of FAs/subsidiaries	5	2	0	0	0
Acq. Of Subsidiaries/investments					
Other Investing Cashflow	64	59	(49)	(23)	(18)
Cash Flow From Investing	(822)	18	(398)	(382)	(387)
Debt Raised/(repaid)	578	7	(196)	(196)	(196)
Proceeds From Issue Of Shares	0	0	0	0	0
Shares Repurchased	0	0	0	0	0
Dividends Paid	(783)	(392)	(391)	(587)	(587)
Preferred Dividends					
Other Financing Cashflow	0	0	(9)	(2)	(9)
Cash Flow From Financing	(204)	(385)	(597)	(786)	(793)
Total Cash Generated	(645)	1,260	(141)	333	53
Free Cashflow To Equity	138	1,652	259	922	649
Free Cashflow To Firm	(378)	1,751	554	1,200	910

SOURCES: CGS-CIMB RESEARCH, COMPANY REPORTS



Petrochemical | Vietnam





BY THE NUMBERS... cont'd

Balance Sheet					
(VNDb)	Dec-18A	Dec-19A	Dec-20F	Dec-21F	Dec-22F
Total Cash And Equivalents	2,672	4,012	3,870	4,203	4,256
Total Debtors	521	289	406	401	440
Inventories	1,663	1,351	1,652	1,691	1,792
Total Other Current Assets	317	292	344	369	388
Total Current Assets	5,172	5,944	6,273	6,664	6,876
Fixed Assets	4,453	3,932	3,694	3,474	3,270
Total Investments	47	45	45	45	45
Intangible Assets	860	858	867	870	873
Total Other Non-Current Assets	602	660	706	722	732
Total Non-current Assets	5,962	5,496	5,312	5,111	4,921
Short-term Debt	202	177	133	89	44
Current Portion of Long-Term Debt					
Total Creditors	1,178	1,375	1,468	1,664	1,703
Other Current Liabilities	133	509	600	643	677
Total Current Liabilities	1,514	2,061	2,201	2,396	2,424
Total Long-term Debt	1,032	1,064	912	760	608
Hybrid Debt - Debt Component					
Total Other Non-Current Liabilities	334	155	145	143	134
Total Non-current Liabilities	1,365	1,218	1,057	903	741
Total Provisions	0	0	0	0	0
Total Liabilities	2,879	3,279	3,258	3,298	3,165
Shareholders' Equity	8,087	7,996	8,149	8,285	8,430
Minority Interests	168	165	178	191	203
Total Equity	8,255	8,161	8,327	8,476	8,632

Key Ratios					
	Dec-18A	Dec-19A	Dec-20F	Dec-21F	Dec-22F
Revenue Growth	16.3%	(17.4%)	18.0%	7.2%	5.2%
Operating EBITDA Growth	53.3%	(24.7%)	20.2%	15.4%	(1.7%)
Operating EBITDA Margin	14.2%	12.9%	13.2%	14.2%	13.3%
Net Cash Per Share (VND)	3,674	7,080	7,220	8,571	9,208
BVPS (VND)	20,662	20,429	20,821	21,169	21,538
Gross Interest Cover	12.81	4.04	6.15	9.78	12.08
Effective Tax Rate	18.2%	16.7%	17.1%	17.1%	17.1%
Net Dividend Payout Ratio	112%	104%	72%	81%	80%
Accounts Receivables Days	11.11	15.72	11.84	12.85	12.68
Inventory Days	71.19	87.55	74.75	78.70	77.35
Accounts Payables Days	17.60	25.98	24.02	24.45	24.79
ROIC (%)	14.5%	6.1%	11.0%	14.2%	14.9%
ROCE (%)	10.2%	6.0%	8.2%	10.3%	10.3%
Return On Average Assets	6.19%	3.16%	4.33%	5.63%	5.43%

Key Drivers					
	Dec-18A	Dec-19A	Dec-20F	Dec-21F	Dec-22F
Oil Price (US\$/bbl)	71.2	64.2	62.0	65.4	66.8
Volume Growth (%)	2.2%	-14.9%	14.9%	1.0%	1.0%
Ratio Of Up To Downstream (x)	N/A	N/A	N/A	N/A	N/A
Operating Cash Cost (US\$/bbl)	N/A	N/A	N/A	N/A	N/A
Ratio Of High To Low Margin (x)	N/A	N/A	N/A	N/A	N/A

SOURCES: CGS-CIMB RESEARCH, COMPANY REPORTS





DISCLAIMER

The content of this report (including the views and opinions expressed therein, and the information comprised therein) has been prepared by and belongs to VNDIRECT Securities Corporation, and is distributed by CGS-CIMB pursuant to an arrangement between VNDIRECT Securities Corporation and CGS-CIMB. VNDIRECT Securities Corporation is not an affiliate of CGS-CIMB.

This report is not directed to, 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 or regulation.

By accepting this report, the recipient hereof represents and warrants that he is entitled to receive such report in accordance with the restrictions set forth below and agrees to be bound by the limitations contained herein (including the "Restrictions on Distributions" set out below). Any failure to comply with these limitations may constitute a violation of law. This publication is being supplied to you strictly on the basis that it will remain confidential. No part of this report may be (i) copied, photocopied, duplicated, stored or reproduced in any form by any means or (ii) redistributed or passed on, directly or indirectly, to any other person in whole or in part, for any purpose without the prior written consent of CGS-CIMB.

The information contained in this research report is prepared from data believed to be correct and reliable at the time of issue of this report.

VNDIRECT Securities Corporation may or may not issue regular reports on the subject matter of this report at any frequency and may cease to do so or change the periodicity of reports at any time. Neither VNDIRECT Securities Corporation nor CGS-CIMB is under any obligation to update this report in the event of a material change to the information contained in this report. Neither VNDIRECT Securities Corporation nor CGS-CIMB has any and will accept any, obligation to (i) check or ensure that the contents of this report remain current, reliable or relevant, (ii) ensure that the content of this report constitutes all the information a prospective investor may require, (iii) ensure the adequacy, accuracy, completeness, reliability or fairness of any views, opinions and information, and accordingly, VNDIRECT Securities Corporation, CGS-CIMB and their respective affiliates and related persons including China Galaxy International Financial Holdings Limited ("CGIFHL") and CIMB Group Sdn. Bhd. ("CIMBG") and their respective related corporations (and their respective directors, associates, connected persons and/or employees) shall not be liable in any manner whatsoever for any consequences (including but not limited to any direct, indirect or consequential losses, loss of profits and damages) of any reliance thereon or usage thereof. In particular, VNDIRECT Securities Corporation and CGS-CIMB disclaim all responsibility and liability for the views and opinions set out in this report.

Unless otherwise specified, this report is based upon reasonable sources. Such sources will, unless otherwise specified, for market data, be market data and prices available from the main stock exchange or market where the relevant security is listed, or, where appropriate, any other market. Information on the accounts and business of company(ies) will generally be based on published statements of the company(ies), information disseminated by regulatory information services, other publicly available information and information resulting from our research. Whilst every effort is made to ensure that statements of facts made in this report are accurate, all estimates, projections, forecasts, expressions of opinion and other subjective judgments contained in this report are based on assumptions considered to be reasonable as of the date of the document in which they are contained and must not be construed as a representation that the matters referred to therein will occur. Past performance is not a reliable indicator of future performance. The value of investments may go down as well as up and those investing may, depending on the investments in question, lose more than the initial investment. No report shall constitute an offer or an invitation by or on behalf of CGS-CIMB or VNDIRECT Securities Corporation, or their respective affiliates (including CGIFHL, CIMBG and their respective related corporations) to any person to buy or sell any investments.

CGS-CIMB and/or VNDIRECT Securities Corporation and/or their respective affiliates and related corporations (including CGIFHL, CIMBG and their respective related corporations), their respective directors, associates, connected parties and/or employees may own or have positions in securities of the company(ies) covered in this research report or any securities related thereto and may from time to time add to or dispose of, or may be materially interested in, any such securities. Further, CGS-CIMB and/or VNDIRECT Securities Corporation, and/or their respective affiliates and their respective related corporations (including CGIFHL, CIMBG and their respective related corporations) do and seek to do business with the company(ies) covered in this research report and may from time to time act as market maker or have assumed an underwriting commitment in securities of such company(ies), may sell them to or buy them from customers on a principal basis and may also perform or seek to perform significant investment banking, advisory, underwriting or placement services for or relating to such company(ies) as well as solicit such investment, advisory or other services from any entity mentioned in this report.

CGS-CIMBand/or VNDIRECT Securities Corporation and/or their respective affiliates (including CGIFHL, CIMBG and their respective related corporations) may enter into an agreement with the company(ies) covered in this report relating to the production of research reports. CGS-CIMB and/or VNDIRECT Securities Corporation may disclose the contents of this report to the company(ies) covered by it and may have amended the contents of this report following such disclosure.

The analyst responsible for the production of this report hereby certifies that the views expressed herein accurately and exclusively reflect his or her personal views and opinions about any and all of the issuers or securities analysed in this report and were prepared independently and autonomously. No part of the compensation of the analyst(s) was, is, or will be directly or indirectly related to the inclusion of specific recommendations(s) or view(s) in this report. The analyst(s) who prepared this research report is prohibited from receiving any compensation, incentive or bonus based on specific investment banking transactions or for providing a specific recommendation for, or view of, a particular company. Information barriers and other arrangements may be established where necessary to prevent conflicts of interests arising. However, the analyst(s) may receive compensation that is based on his/their coverage of company(ies) in the performance of his/their duties or the performance of his/their recommendations and the research personnel involved in the preparation of this report may also participate in the solicitation of the businesses as described above. In reviewing this research report, an investor should be aware that any or all of the foregoing, among other things, may give rise to real or potential conflicts of interest. Additional information is, subject to the duties of confidentiality, available on request.

The term "VNDIRECT Securities Corporation" shall, unless the context otherwise requires, mean VNDIRECT Securities Corporation and its affiliates, subsidiaries and related companies. The term "CGS-CIMB" shall denote, where appropriate, the relevant entity distributing or disseminating the report in the particular jurisdiction referenced below, or, in every other case except as otherwise stated herein, CGS-CIMB Securities International Pte. Ltd. and its affiliates, subsidiaries and related corporations.





CGS-CIMB

Country	CGS-CIMB Entity	Regulated by
Hong Kong	CGS-CIMB Securities (Hong Kong) Limited	Securities and Futures Commission Hong Kong
India	CGS-CIMB Securities (India) Private Limited	Securities and Exchange Board of India (SEBI)
Indonesia	PT CGS-CIMB Sekuritas Indonesia	Financial Services Authority of Indonesia
Malaysia	CGS-CIMB Securities Sdn. Bhd. (formerly known as Jupiter Securities Sdn. Bhd.)	Securities Commission Malaysia
Singapore	CGS-CIMB Research Pte. Ltd.	Monetary Authority of Singapore
South Korea	CGS-CIMB Securities (Hong Kong) Limited, Korea Branch	Financial Services Commission and Financial Supervisory Service
Thailand	CGS-CIMB Securities (Thailand) Co. Ltd.	Securities and Exchange Commission Thailand

(i) As of January 31, 2020 VNDIRECT Securities Corporation has a proprietary position in the securities (which may include but not limited to shares, warrants, call warrants and/or any other derivatives) in the following company or companies covered or recommended in this report:

(a) -

(ii) As of February 10, 2020, the analyst(s) who prepared this report, and the associate(s), has / have an interest in the securities (which may include but not limited to shares, warrants, call warrants and/or any other derivatives) in the following company or companies covered or recommended in this report:

(a) -

This report does not purport to contain all the information that a prospective investor may require. CGS-CIMB, VNDIRECT Securities Corporation and their respective affiliates (including CGIFHL, CIMBG and their related corporations) do not make any guarantee, representation or warranty, express or implied, as to the adequacy, accuracy, completeness, reliability or fairness of any such information and opinion contained in this report. None of CGS-CIMB, VNDIRECT Securities Corporation and their respective affiliates and related persons (including CGIFHL, CIMBG and their related corporations) shall be liable in any manner whatsoever for any consequences (including but not limited to any direct, indirect or consequential losses, loss of profits and damages) of any reliance thereon or usage thereof.

This report is general in nature and has been prepared for information purposes only. It is intended for circulation amongst CGS-CIMB's and its affiliates' (including CGIFHL's, CIMBG's and their respective related corporations') clients generally and does not have regard to the specific investment objectives, financial situation and the particular needs of any specific person who may receive this report. The information and opinions in this report are not and should not be construed or considered as an offer, recommendation or solicitation to buy or sell the subject securities, related investments or other financial instruments or any derivative instrument, or any rights pertaining thereto.

Investors are advised to make their own independent evaluation of the information contained in this research report, consider their own individual investment objectives, financial situation and particular needs and consult their own professional and financial advisers as to the legal, business, financial, tax and other aspects before participating in any transaction in respect of the securities of company(ies) covered in this research report. The securities of such company(ies) may not be eligible for sale in all jurisdictions or to all categories of investors.

Restrictions on Distributions

Australia: Despite anything in this report to the contrary, this research is issued by VNDIRECT Securities Corporation and provided in Australia by CGS-CIMB Securities (Singapore) Pte. Ltd. and CGS-CIMB Securities (Hong Kong) Limited. This research is only available in Australia to persons who are "wholesale clients" (within the meaning of the Corporations Act 2001 (Cth) and is supplied solely for the use of such wholesale clients and shall not be distributed or passed on to any other person. You represent and warrant that if you are in Australia, you are a "wholesale client". This research is of a general nature only and has been prepared without taking into account the objectives, financial situation or needs of the individual recipient. CGS-CIMB Securities (Singapore) Pte. Ltd. and CGS-CIMB Securities (Hong Kong) Limited do not hold, and are not required to hold an Australian financial services license. CGS-CIMB Securities (Singapore) Pte. Ltd. and CGS-CIMB Securities (Hong Kong) Limited rely on "passporting" exemptions for entities appropriately licensed by the Monetary Authority of Singapore (under ASIC Class Order 03/1102) and the Securities and Futures Commission in Hong Kong (under ASIC Class Order 03/1103).

Canada: This research report has not been prepared in accordance with the disclosure requirements of Dealer Member Rule 3400 – Research Restrictions and Disclosure Requirements of the Investment Industry Regulatory Organization of Canada. For any research report distributed by CIBC, further disclosures related to CIBC conflicts of interest can be found at https://researchcentral.cibcwm.com.

China: For the purpose of this report, the People's Republic of China ("PRC") does not include the Hong Kong Special Administrative Region, the Macau Special Administrative Region or Taiwan. The distributor of this report has not been approved or licensed by the China Securities Regulatory Commission or any other relevant regulatory authority or governmental agency in the PRC. This report contains only marketing information. The distribution of this report is not an offer to buy or sell to any person within or outside PRC or a solicitation to any person within or outside of PRC to buy or sell any instruments described herein. This report is being issued outside the PRC to a limited number of institutional investors and may not be provided to any person other than the original recipient and may not be reproduced or used for any other purpose.

France: Only qualified investors within the meaning of French law shall have access to this report. This report shall not be considered as an offer to subscribe to, or used in connection with, any offer for subscription or sale or marketing or direct or indirect distribution of financial instruments and it is not intended as a solicitation for the purchase of any financial instrument.

Germany: This report is only directed at persons who are professional investors as defined in sec 31a(2) of the German Securities Trading Act





(WpHG). This publication constitutes research of a non-binding nature on the market situation and the investment instruments cited here at the time of the publication of the information.

The current prices/yields in this issue are based upon closing prices from Bloomberg as of the day preceding publication. Please note that neither the German Federal Financial Supervisory Agency (BaFin), nor any other supervisory authority exercises any control over the content of this report.

Hong Kong: This report is issued by VNDIRECT Securities Corporation and distributed in Hong Kong by CGS-CIMB Securities (Hong Kong) Limited ("CHK") which is licensed in Hong Kong by the Securities and Futures Commission for Type 1 (dealing in securities), Type 4 (advising on securities) and Type 6 (advising on corporate finance) activities. Any investors wishing to purchase or otherwise deal in the securities covered in this report should contact the Head of Sales at CGS-CIMB Securities (Hong Kong) Limited. The views and opinions in this research report are of VNDIRECT Securities Corporation as of the date hereof and are subject to change. If the Financial Services and Markets Act of the United Kingdom or the rules of the Financial Conduct Authority apply to a recipient, our obligations owed to such recipient therein are unaffected. CHK has no obligation to update the opinion or the information in this research report.

CHK does not make a market on other securities mentioned in the report.

India:

This report is issued by VNDIRECT Securities Corporation and distributed in India by CGS-CIMB Securities (India) Private Limited ("CGS-CIMB India"). CGS-CIMB India is a subsidiary of CGS-CIMB Securities International Pte. Ltd. which in turn is a 50:50 joint venture company of CGIFHL and CIMBG. The details of the members of the group of companies of CGS-CIMB can be found at www.cgs-cimb.com, CGIFHL at www.chinastock.com.hk/en/ACG/ContactUs/index.aspx and CIMBG at www.cimb.com/en/who-we-are.html. CGS-CIMB India is registered with the National Stock Exchange of India Limited and BSE Limited as a trading and clearing member (Merchant Banking Number: INM000012037) under the Securities and Exchange Board of India (Stock Brokers and Sub-Brokers) Regulations, 1992. In accordance with the provisions of Regulation 4(g) of the Securities and Exchange Board of India (Investment Advisers) Regulations, 2013, CGS-CIMB India is not required to seek registration with the Securities and Exchange Board of India ("SEBI") as an Investment Adviser. CGS-CIMB India is registered with SEBI (SEBI Registration Number: INZ000157134) as a Research Analyst (INH000000669) pursuant to the SEBI (Research Analysts) Regulations, 2014 ("Regulations").

This report does not take into account the particular investment objectives, financial situations, or needs of the recipients. It is not intended for and does not deal with prohibitions on investment due to law/jurisdiction issues etc. which may exist for certain persons/entities. Recipients should rely on their own investigations and take their own professional advice before investment.

The report is not a "prospectus" as defined under Indian Law, including the Companies Act, 2013, and is not, and shall not be, approved by, or filed or registered with, any Indian regulator, including any Registrar of Companies in India, SEBI, any Indian stock exchange, or the Reserve Bank of India. No offer, or invitation to offer, or solicitation of subscription with respect to any such securities listed or proposed to be listed in India is being made, or intended to be made, to the public, or to any member or section of the public in India, through or pursuant to this report.

The research analysts, strategists or economists principally responsible for the preparation of this research report are segregated from the other activities of CGS-CIMB India and they have received compensation based upon various factors, including quality, accuracy and value of research, firm profitability or revenues, client feedback and competitive factors. Research analysts', strategists' or economists' compensation is not linked to investment banking or capital markets transactions performed or proposed to be performed by CGS-CIMB India or its affiliates.

CGS-CIMB India does not have actual / beneficial ownership of 1% or more securities of the subject company in this research report, at the end of the month immediately preceding the date of publication of this research report. However, since affiliates of CGS-CIMB India are engaged in the financial services business, they might have in their normal course of business financial interests or actual / beneficial ownership of one per cent or more in various companies including the subject company in this research report.

CGS-CIMB India or its associates, may: (a) from time to time, have long or short position in, and buy or sell the securities of the subject company in this research report; 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 subject company in this research report or act as an advisor or lender/borrower to such company or may have any other potential conflict of interests with respect to any recommendation and other related information and opinions.

CGS-CIMB India, its associates and the analyst engaged in preparation of this research report have not received any compensation for investment banking, merchant banking or brokerage services from the subject company mentioned in the research report in the past 12 months.

CGS-CIMB India, its associates and the analyst engaged in preparation of this research report have not managed or co-managed public offering of securities for the subject company mentioned in the research report in the past 12 months. The analyst from CGS-CIMB India engaged in preparation of this research report or his/her relative (a) do not have any financial interests in the subject company mentioned in this research report; (b) do not own 1% or more of the equity securities of the subject company mentioned in the research report as of the last day of the month preceding the publication of the research report; (c) do not have any material conflict of interest at the time of publication of the research report.

Indonesia: This report is issued by VNDIRECT Securities Corporation and distributed by PT CGS-CIMB Sekuritas Indonesia ("CGS-CIMB Indonesia"). The views and opinions in this research report are not our own but of VNDIRECT Securities Corporation as of the date hereof and are subject to change. CGS-CIMB Indonesia has no obligation to update the opinion or the information in this research report. This report is for private circulation only to clients of CGS-CIMB Indonesia. Neither this report nor any copy hereof may be distributed in Indonesia or to any Indonesian citizens wherever they are domiciled or to Indonesian residents except in compliance with applicable Indonesian capital market laws and regulations.

This research report is not an offer of securities in Indonesia. The securities referred to in this research report have not been registered with the Financial Services Authority (Otoritas Jasa Keuangan) pursuant to relevant capital market laws and regulations, and may not be offered or sold within the territory of the Republic of Indonesia or to Indonesian citizens through a public offering or in circumstances which constitute an offer within the meaning of the Indonesian capital market law and regulations.

Ireland: CGS-CIMB is not an investment firm authorised in the Republic of Ireland and no part of this document should be construed as CGS-CIMB acting as, or otherwise claiming or representing to be, an investment firm authorised in the Republic of Ireland.

Malaysia: This report is issued by VNDIRECT Securities Corporation and distributed in Malaysia by CGS-CIMB Securities Sdn. Bhd. (formerly known as Jupiter Securities Sdn. Bhd.) ("CGS-CIMB Malaysia") solely for the benefit of and for the exclusive use of our clients. Recipients of this report are





to contact CGS-CIMB Malaysia, at 29th Floor Menara CIMB No. 1 Jalan Stesen Sentral 2, Kuala Lumpur Sentral 50470 Kuala Lumpur, Malaysia, in respect of any matters arising from or in connection with this report. CGS-CIMB Malaysia has no obligation to update, revise or reaffirm the opinion or the information in this research report after the date of this report.

New Zealand: In New Zealand, this report is for distribution only to persons who are wholesale clients pursuant to section 5C of the Financial Advisers Act 2008.

Singapore: This report is issued by VNDIRECT Securities Corporation and distributed by CGS-CIMB Research Pte Ltd ("CGS-CIMBR"). CGS-CIMBR is a financial adviser licensed under the Financial Advisers Act, Cap 110 ("FAA") for advising on investment products, by issuing or promulgating research analyses or research reports, whether in electronic, print or other form. Accordingly CGS-CIMBR is a subject to the applicable rules under the FAA unless it is able to avail itself to any prescribed exemptions.

Recipients of this report are to contact CGS-CIMB Research Pte Ltd, 50 Raffles Place, #16-02 Singapore Land Tower, Singapore in respect of any matters arising from, or in connection with this report. CGS-CIMBR has no obligation to update the opinion or the information in this research report. This publication is strictly confidential and is for private circulation only. If you have not been sent this report by CGS-CIMBR directly, you may not rely, use or disclose to anyone else this report or its contents.

If the recipient of this research report is not an accredited investor, expert investor or institutional investor, CGS-CIMBR accepts legal responsibility for the contents of the report without any disclaimer limiting or otherwise curtailing such legal responsibility. If the recipient is an accredited investor, expert investor or institutional investor, the recipient is deemed to acknowledge that CGS-CIMBR is exempt from certain requirements under the FAA and its attendant regulations, and as such, is exempt from complying with the following:

- (a) Section 25 of the FAA (obligation to disclose product information);
- (b) Section 27 (duty not to make recommendation with respect to any investment product without having a reasonable basis where you may be reasonably expected to rely on the recommendation) of the FAA;
- (c) MAS Notice on Information to Clients and Product Information Disclosure [Notice No. FAA-N03];
- (d) MAS Notice on Recommendation on Investment Products [Notice No. FAA-N16];
- (e) Section 36 (obligation on disclosure of interest in securities), and
- (f) any other laws, regulations, notices, directive, guidelines, circulars and practice notes which are relates to the above, to the extent permitted by applicable laws, as may be amended from time to time, and any other laws, regulations, notices, directive, guidelines, circulars, and practice notes as we may notify you from time to time. In addition, the recipient who is an accredited investor, expert investor or institutional investor acknowledges that a CGS-CIMBR is exempt from Section 27 of the FAA, the recipient will also not be able to file a civil claim against CGS-CIMBR for any loss or damage arising from the recipient's reliance on any recommendation made by CGS-CIMBR which would otherwise be a right that is available to the recipient under Section 27 of the FAA, the recipient will also not be able to file a civil claim against CGS-CIMBR for any loss or damage arising from the recipient's reliance on any recommendation made by CGS-CIMBR which would otherwise be a right that is available to the recipient under Section 27 of the FAA.

CGS-CIMBR, its affiliates and related corporations, their directors, associates, connected parties and/or employees may own or have positions in securities of the company(ies) covered in this research report or any securities related thereto and may from time to time add to or dispose of, or may be materially interested in, any such securities. Further, CGS-CIMBR, its affiliates and its related corporations do and seek to do business with the company(ies) covered in this research report and may from time to time act as market maker or have assumed an underwriting commitment in securities of such company(ies), may sell them to or buy them from customers on a principal basis and may also perform or seek to perform significant investment banking, advisory, underwriting or placement services for or relating to such company(ies) as well as solicit such investment, advisory or other services from any entity mentioned in this report.

As of February 10, 2020,, CGS-CIMBR does not have a proprietary position in the recommended securities in this report.

CGS-CIMBR does not make a market on the securities mentioned in the report.

South Korea: This report is issued by VNDIRECT Securities Corporation and distributed in South Korea by CGS-CIMB Securities (Hong Kong) Limited, Korea Branch ("CGS-CIMB Korea") which is licensed as a cash equity broker, and regulated by the Financial Services Commission and Financial Supervisory Service of Korea. In South Korea, this report is for distribution only to professional investors under Article 9(5) of the Financial Investment Services and Capital Market Act of Korea ("FSCMA").

Spain: This document is a research report and it is addressed to institutional investors only. The research report is of a general nature and not personalised and does not constitute investment advice so, as the case may be, the recipient must seek proper advice before adopting any investment decision. This document does not constitute a public offering of securities.

CGS-CIMB is not registered with the Spanish Comision Nacional del Mercado de Valores to provide investment services.

Sweden: This report contains only marketing information and has not been approved by the Swedish Financial Supervisory Authority. The distribution of this report is not an offer to sell to any person in Sweden or a solicitation to any person in Sweden to buy any instruments described herein and may not be forwarded to the public in Sweden.

Switzerland: This report has not been prepared in accordance with the recognized self-regulatory minimal standards for research reports of banks issued by the Swiss Bankers' Association (Directives on the Independence of Financial Research).

Thailand: This report is issued by VNDIRECT Securities Corporation and distributed by CGS-CIMB Securities (Thailand) Co. Ltd. ("CGS-CIMB Thailand") based upon sources believed to be reliable (but their accuracy, completeness or correctness is not guaranteed). The statements or expressions of opinion herein were arrived at after due and careful consideration for use as information for investment. Such opinions are subject to change without notice and CGS-CIMB Thailand has no obligation to update the opinion or the information in this research report.

CGS-CIMB Thailand may act or acts as Market Maker, and issuer and offerer of Derivative Warrants and Structured Note which may have the following securities as its underlying securities. Investors should carefully read and study the details of the derivative warrants in the prospectus before making investment decisions.

AAV, ADVANC, AEONTS, AMATA, AOT, AWC, BANPU, BBL, BCH, BCP, BCPG, BDMS, BEC, BEM, BGC, BGRIM, BH, BJC, BPP, BTS, CBG, CENTEL, CHG, CK, CKP, COM7, CPALL, CPF, CPN, DELTA, DTAC, EA, EGCO, EPG, ERW, ESSO, GFPT, GLOBAL, GPSC, GULF, GUNKUL,





HANA, HMPRO, INTUCH, IRPC, IVL, JAS, JMT, KBANK, KCE, KKP, KTB, KTC, LH, MAJOR, MBK, MEGA, MINT, MTC, ORI, OSP, PLANB, PRM, PSH, PSL, PTG, PTT, PTTEP, PTTGC, QH, RATCH, RS, SAWAD, SCB, SCC, SGP, SPALI, SPRC, STA, STEC, STPI, SUPER, TASCO, TCAP, THAI, THANI, THG, TISCO, TKN, TMB, TOA, TOP, TPIPP, TQM, TRUE, TTW, TU, VGI, WHA, BEAUTY, JMART, LPN, SISB, WORK.

Corporate Governance Report:

The disclosure of the survey result of the Thai Institute of Directors Association ("IOD") regarding corporate governance is made pursuant to the policy of the Office of the Securities and Exchange Commission. The survey of the IOD is based on the information of a company listed on the Stock Exchange of Thailand and the Market for Alternative Investment disclosed to the public and able to be accessed by a general public investor. The result, therefore, is from the perspective of a third party. It is not an evaluation of operation and is not based on inside information.

The survey result is as of the date appearing in the Corporate Governance Report of Thai Listed Companies. As a result, the survey result may be changed after that date. CGS-CIMB Thailand does not confirm nor certify the accuracy of such survey result.

Score Range:	90 - 100	80 – 89	70 - 79	Below 70 or	No Survey Result
Description:	Excellent	Very Good	Good	N/A	

United Arab Emirates: The distributor of this report has not been approved or licensed by the UAE Central Bank or any other relevant licensing authorities or governmental agencies in the United Arab Emirates. This report is strictly private and confidential and has not been reviewed by, deposited or registered with UAE Central Bank or any other licensing authority or governmental agencies in the United Arab Emirates. This report is being issued outside the United Arab Emirates to a limited number of institutional investors and must not be provided to any person other than the original recipient and may not be reproduced or used for any other purpose. Further, the information contained in this report is not intended to lead to the sale of investments under any subscription agreement or the conclusion of any other contract of whatsoever nature within the territory of the United Arab Emirates.

United Kingdom and European Economic Area (EEA): In the United Kingdom and European Economic Area, this material is issued by VNDIRECT Securities Corporation and is being distributed by CGS-CIMB Securities (UK) Limited ("CGS-CIMB UK"). CGS-CIMB UK is authorized and regulated by the Financial Conduct Authority and its registered office is at 27 Knightsbridge, London, SW1X7YB. The material distributed by CGS-CIMB UK has been prepared in accordance with CGS-CIMB's policies for managing conflicts of interest arising as a result of publication and distribution of this material. This material is for distribution only to, and is solely directed at, selected persons on the basis that those persons: (a) are eligible counterparties and professional clients of CGS-CIMB UK; (b) 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 "Order"), (c) fall within Article 49(2)(a) to (d) ("high net worth companies, unincorporated associations etc") of the Order; (d) are outside the United Kingdom subject to relevant regulation in each jurisdiction, material(all such persons together being referred to as "relevant persons"). This material 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 material relates is available only to relevant persons and will be engaged in only with relevant persons.

Where this material is labelled as non-independent, it does not provide an impartial or objective assessment of the subject matter and does not constitute independent "research" (cannot remove research from here under the applicable rules of the Financial Conduct Authority in the UK. Consequently, any such non-independent material will not have been prepared in accordance with legal requirements designed to promote the independence of research (cannot remove research from here) and will not subject to any prohibition on dealing ahead of the dissemination of research. Any such non-independent material must be considered as a marketing communication.

United States: This research report is issued by VNDIRECT Securities Corporation and distributed in the United States of America by CGS-CIMB Securities (USA) Inc, a U.S. registered broker-dealer and a related company of CGS-CIMB Securities Sdn. Bhd. (formerly known as Jupiter Securities Sdn. Bhd.), CGS-CIMB Research Pte Ltd, PT CGS-CIMB Sekuritas Indonesia, CGS-CIMB Securities (Thailand) Co. Ltd, CGS-CIMB Securities (Hong Kong) Limited and CGS-CIMB Securities (India) Private Limited, and is distributed solely to persons who qualify as "U.S. Institutional Investors" as defined in Rule 15a-6 under the Securities and Exchange Act of 1934. This communication is only for Institutional Investors whose ordinary business activities involve investing in shares, bonds, and associated securities and/or derivative securities and who have professional experience in such investments. Any person who is not a U.S. Institutional Investor or Major Institutional Investor must not rely on this communication. The delivery of this research report to any person in the United States of America is not a recommendation to effect any transactions in the securities discussed herein, or an endorsement of any opinion expressed herein. CGS-CIMB Securities (USA) Inc, is a FINRA/SIPC member and takes responsibility for the content of this report. For further information or to place an order in any of the above-mentioned securities please contact a registered representative of CGS-CIMB Securities (USA) Inc.

CGS-CIMB Securities (USA) Inc. does not make a market on other securities mentioned in the report.

CGS-CIMB Securities (USA) Inc. has not managed or co-managed a public offering of any of the securities mentioned in the past 12 months.

CGS-CIMB Securities (USA) Inc. has not received compensation for investment banking services from any of the company mentioned in the past 12 months.

CGS-CIMB Securities (USA) Inc. neither expects to receive nor intends to seek compensation for investment banking services from any of the company mentioned within the next 3 months.

Other jurisdictions: In any other jurisdictions, except if otherwise restricted by laws or regulations, this report is only for distribution to professional, institutional or sophisticated investors as defined in the laws and regulations of such jurisdictions.

Distribution of stock ratings and investment banking clients for quarter ended on 31 December 2019				
798 companies under coverage for quarter ended on 31 December 2019				
	Rating Distribution (%)	Investment Banking clients (%)		
Add	61.4%	0.0%		
Hold	25.2%	0.0%		
Reduce	13.4%	0.0%		







Spitzer Chart for stock being researched (2 year data)

PetroVietnam Fertilizer and Chemicals (DPM VN)







PetroVietnam Fertilizer and Chemicals | February 10, 2020



Corporate Governance Report of Thai Listed Companies (CGR). CG Rating by the Thai Institute of Directors Association (Thai IOD) in 2019. Anti-Corruption 2019

ADVANC – Excellent, Certified, ASP – Very Good, n/a, AH – Very Good, n/a, AMATA – Excellent, Declared, ANAN – Excellent, Declared, AOT – Excellent, Certified, ASP – Very Good, Certified, BAM – not available, n/a, BANPU – Excellent, Certified, BBM – Very Good, Certified, BCP – Excellent, Certified, BCP – Excellent, Certified, BDMS – Very Good, n/a, BEC – Very Good, n/a, BCP – Excellent, Certified, BCP – Excellent, Certified, BDMS – Very Good, n/a, BEAUTY – Good, n/a, BEC – Very Good, n/a, BGRIM – Very Good, Declared, BH - Good, n/a, BJC – Very Good, n/a, BJCH – Very Good, Certified, BPP – Very Good, Declared, BR - Good, n/a, BTS - Excellent, Certified, CBG – Very Good, n/a, CCET – Good, n/a, CENTEL – Very Good, Certified, CPN – Excellent, Certified, CPN – Very Good, n/a, DTAC – Excellent, Certified, EA – Excellent, n/a, ECL – Very Good, Certified, EGCO – Excellent, Certified, EPG – Very Good, n/a, ERW – Very Good, n/a, GFPT – Excellent, Certified, GCC – Excellent, Certified, EPG – Very Good, n/a, ERW – Very Good, n/a, GULF – Very Good, n/a, GUNKUL – Excellent, Certified, GLOBAL – Very Good, n/a, GLOW – Very Good, n/a, INTUCH - Excellent, Certified, HMPRO – Excellent, Certified, HMPRO – Excellent, Certified, HMPRO – Excellent, Certified, HMPRO – Excellent, Certified, MKC – Excellent, Certified, KKP – Excellent, Certified, KFC – Excellent, Certified, KFC – Excellent, Certified, MCC – Very Good, n/a, MANC – Excellent, Certified, MC – Excellent, Certified, MC – Very Good, n/a, MANC – Excellent, Certified, MC – Excellent, Certified, Certified, STA – Very Go

- 1 CG Score 2019 from Thai Institute of Directors Association (IOD)
- 2 AGM Level 2018 from Thai Investors Association
- 3 Companies participating in Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) under Thai Institute of Directors (as of November 30, 2018) are categorised into:
- companies that have declared their intention to join CAC, and companies certified by CAC.
- 4 The Stock Exchange of Thailand: the record of listed companies with corporate sustainable development "Thai sustainability Investment 2018" included:
- SET and mai listed companies passed the assessment conducted by the Stock Exchange of Thailand: THSI (SET) and THSI (mai)
- SET listed companies passed the assessment conducted by the Dow Jones Sustainability Indices (DJSI)

RECOMMENDATION FRAMEWORK

ALEGORIMETON TO MILETON		
Stock Ratings	Definition:	
Add	The stock's total return is expected to reach 15% or higher over the next 12 months.	
Hold	The stock's total return is expected to be between negative 10% and positive 15% over the next 12 months.	
Reduce	The stock's total return is expected to fall below negative 10% over the next 12 months.	

The total expected return of a stock is defined as the sum of the:(i) percentage difference between the target price and the current price and (ii) the forward net dividend yields of the stock. Stock price targets have an investment horizon of 12 months.

Sector Ratings	Definition:
Overweight	An Overweight rating means stocks in the sector have, on a market cap-weighted basis, a positive absolute recommendation.
Neutral	A Neutral rating means stocks in the sector have, on a market cap-weighted basis, a neutral absolute recommendation.
Underweight	An Underweight rating means stocks in the sector have, on a market cap-weighted basis, a negative absolute recommendation.
Country Ratings	Definition:
Overweight	An Overweight rating means investors should be positioned with an above-market weight in this country relative to benchmark.
Neutral	A Neutral rating means investors should be positioned with a neutral weight in this country relative to benchmark.
Underweight	An Underweight rating means investors should be positioned with a below-market weight in this country relative to benchmark.

Hien Tran Khanh - Deputy Head of Research

Email: hien.trankhanh@vndirect.com.vn

Hinh DINH -

Email: hinh.dinh@vndirect.com.vn



 $\mbox{Petrochemical} \ | \ \mbox{Vietnam}$ $\mbox{PetroVietnam Fertilizer and Chemicals} \ | \ \mbox{February 10, 2020}$



VNDIRECT Securities Corporation

1 Nguyen Thuong Hien Str – Hai Ba Trung Dist – Ha Noi | Tel: +84 2439724568

Email: research@vndirect.com.vn | Website: https://vndirect.com.vn