

Malaysia

HOLD (no change)

Consensus ratings*: Buy 6 Hold 9 Sell 2

Current price:	RM5.45
Target price:	RM5.70
Previous target:	RM6.36
Up/downside:	4.6%
CGS-CIMB / Consensus:	-7.2%
Reuters:	UMWS.KL
Bloomberg:	UMWH MK
Market cap:	US\$1,521m
	RM6,367m
Average daily turnover:	US\$2.16m
	RM8.84m
Current shares o/s:	1,168m
Free float:	37.8%
*Source: Bloomberg	

Key changes in this note

- FY19F EPS decreased by 9.6%.
- FY20F EPS decreased by 10.4%.
- FY21F EPS decreased by 4.6%.



Source: Bloomberg

Price performance	1M	3M	12M
Absolute (%)	-2.5	-7.2	-17.1
Relative (%)	-1.4	0.1	-3.6

Major shareholders	% held
Permodalan Nasional Bhd	42.1
EPF	12.0
KWAP	8.0

Analyst(s)

Mohd Shanaz NOOR AZAM

T (60) 3 2261 9078

E shanaz.azam@cimb.com

UMW Holdings

Stuck in second gear

- 1Q19 core EPS was below expectation at 18%/17% of our/consensus FY19F due to higher-than-expected D&A expenses from the new plant.
- While new model launches will drive auto division earnings in FY19F, higher D&A charges and a weaker ringgit could offset the earnings growth.
- Maintain Hold with a lower RM5.70 TP, still based on 14x FY20F P/E.

1Q19 results impacted by higher depreciation expense

UMW Holdings recorded a 6% yoy decline in headline net profit in 1Q19 mainly due to lower contribution from the automotive division as a result of higher depreciation and amortisation (D&A) expense incurred for its newly-commissioned Bukit Raja plant, which was partially offset by stronger performance from Perodua. The group incurred RM86m depreciation expenses in 1Q19 (vs. RM51m in 1Q18). Meanwhile, if we strip out non-recurring items, the group recorded 3.6% yoy growth in core net profit to RM82m.

Stronger auto sales volume to be driven by new model launches

The automotive division saw 15.2% yoy sales growth to 13,722 units in 1Q19, driven by higher volume growth from Toyota, which was underpinned by the newly-launched Vios. UMW projects sales volume of 75k units in 2019F (+12.7% yoy), fuelled by the launch of new models. Meanwhile, we forecast another strong year for Perodua in 2019F on the back of the new Aruz SUV and Myvi. Aruz received nearly 20k bookings since its launch in Jan 19. Overall, Perodua targets sales of 231k units in 2019F (+2% yoy).

Mixed performance from equipment and M&E

The equipment division reported 2.6% yoy revenue growth in 1Q19 on the back of higher heavy equipment sales but lower pretax profit (-6.3% yoy) due to margin compression from pricing competition at the heavy and industrial equipment division. Meanwhile, its manufacturing and engineering (M&E) division reported RM2m pretax profit in 1Q19 (vs. RM9m pretax losses in 1Q18) due to higher fan case delivery and an increase in auto components revenue.

Revising down FY19-21F EPS by 5-10%

We cut our FY19-21F EPS by 5-10% for higher depreciation expenses from its Bukit Raja plant and narrowing automotive margins given the depreciation in ringgit vs. US\$. Meanwhile, potential earnings improvement from new models, such as Toyota Yaris, could be offset by coupon payment related to its RM1.1bn perpetual sukuk issued in Apr 2018. UMW will incur a semi-annual coupon payment of RM35m each in Apr and Oct.

Maintain Hold with a lower RM5.70 TP

We maintain our Hold rating with a lower RM5.70 TP, still based on 14x FY20F P/E, in line with its historical mean. Higher automotive earnings, narrowing losses in aerospace and a stronger ringgit are potential upside risks while a weakening ringgit and delays in new model launches are key downside risks to our call. We prefer Bermaz.

Financial Summary

	Dec-17A	Dec-18A	Dec-19F	Dec-20F	Dec-21F
Revenue (RMm)	11,067	11,401	11,895	12,601	12,696
Operating EBITDA (RMm)	763	753	885	991	1,061
Net Profit (RMm)	35.3	490.6	423.7	462.5	497.8
Core EPS (RM)	0.27	0.44	0.36	0.40	0.43
Core EPS Growth	255%	61%	(17%)	9%	8%
FD Core P/E (x)	19.90	12.33	14.83	13.59	12.63
DPS (RM)	0.00	0.08	0.10	0.13	0.15
Dividend Yield	0.00%	1.38%	1.83%	2.29%	2.75%
EV/EBITDA (x)	11.91	13.63	10.65	9.54	8.88
P/FCFE (x)	5.71	NA	4.74	11.62	9.02
Net Gearing	38.1%	26.7%	7.5%	3.8%	(0.8%)
P/BV (x)	2.09	1.91	1.79	1.67	1.57
ROE	8.1%	16.0%	12.3%	12.5%	12.6%
% Change In Core EPS Estimates			(9.6%)	(10.4%)	(4.6%)
CIMB/consensus EPS (x)			0.86	0.83	0.89

SOURCES: CIMB RESEARCH, COMPANY REPORTS

Figure 1: Results comparison

FYE Dec (RM m)	1Q19	1Q18	yoy % chg	4Q18	qoq % chg	Prev. FY9F	Comments
Revenue	2,775	2,415	14.9	2,682	3.5	11,895	Higher contribution from three core division - Auto, Equipment & M&E
Operating costs	(2,616)	(2,293)	14.1	(2,577)	1.5	(10,908)	
EBITDA	159	123	29.9	105	51.5	987	Below expectation
EBITDA margin (%)	5.7	5.1		3.9		8.3	
Depn & amort.	(86)	(51)	70.3	(54)	59.3	(277)	Above expectation
EBIT	73	72	1.3	51	43.1	709	
Interest expense	(19)	(14)	38.9	(32)	(40.1)	(84)	Total borrowings of RM2.6bn as at end Mar 2019
Interest & invt inc	18	22	(15.0)	22	(14.9)	52	Total cash of RM1.05bn as at end Mar 2019
Associates' contrib	66	56	16.7	96	(31.8)	291	Higher contribution from Perodua
Exceptionals	3	12	(71.9)	(33)	> 100	0	
Pretax profit	141	147	(4.5)	104	35.3	969	Above expectation
Tax	(29)	(30)	(0.5)	(30)	(1.2)	(233)	Below expectation
Tax rate (%)	20.9	20.1	4.2	28.7	(27.0)	24.0	
Minority interests	(26)	(27)	(3.9)	(59)	(56.6)	(268)	Below expectation
Net profit	86	91	(6.0)	15	> 100	469	
Core net profit	82	80	3.6	48	71.8	469	Below expectation
EPS (sen)	7.3	7.8	(6.0)	1.3	456.5	40.1	1Q19 net profit made up 18% of CIMB full-year forecast and 17% of Bloomberg consensus forecast
Core EPS (sen)	7.1	6.8	3.6	4.1	71.8	40.1	
DPS (sen)	-	5.0	-	2.5	-	10.0	

SOURCES: CIMB RESEARCH, COMPANY REPORTS

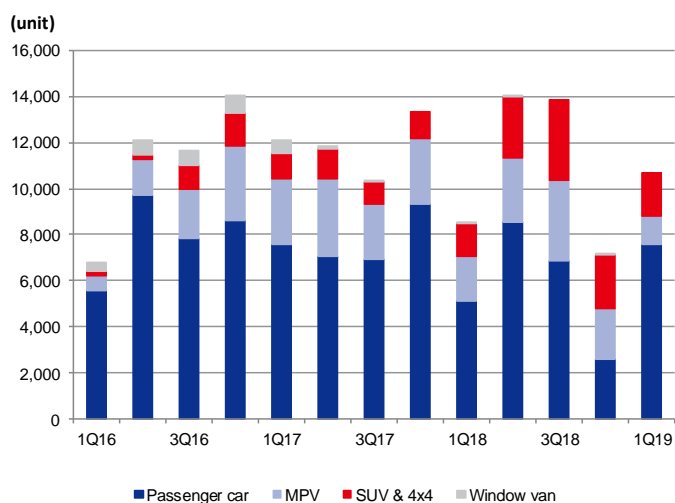
Figure 2: Revenue and pretax profit breakdown

Revenue	1Q19	1Q18	yoy % chg	4Q18	qoq % chg	
Automotive	2,163	1,877	15.2	2,046	5.7	Toyota and Perodua sales volume grew 8% and 9% yoy
Equipment	383	373	2.6	398	(3.8)	
Manufacturing & Engineering	237	168	40.7	242	(2.2)	Higher contribution from Aerospace
Others	(8)	(3)	> 100	(4)	72.0	
Total	2,775	2,415	14.9	2,682	3.5	

PBT	1Q19	1Q18	yoy % chg	4Q18	qoq % chg	
Automotive	124	126	(1.4)	126	(1.0)	Impacted by higher depreciation expenses for new plant amidst higher sales
Equipment	42	45	(6.3)	26	61.9	Changes in sales mix due to lower parts and export sales
Manufacturing & Engineering	2	(3)	> 100	9	(75.4)	
Others	(28)	(21)	34.9	(57)	(50.9)	
Total	141	147	(4.5)	104	35.3	

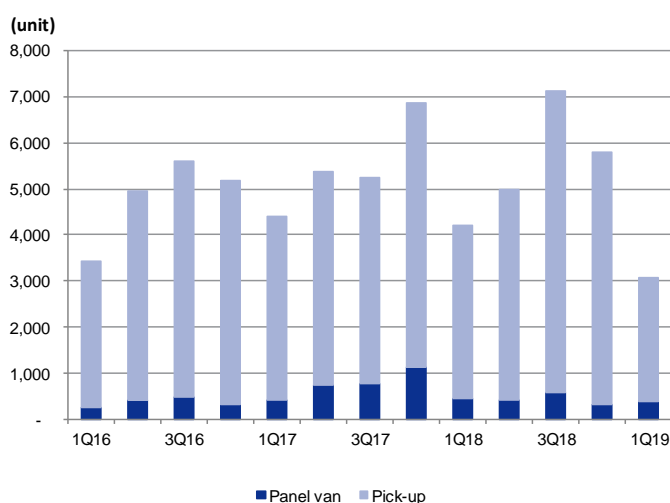
SOURCES: CIMB RESEARCH, COMPANY REPORTS

Figure 3: Historical Toyota passenger vehicle sales volume



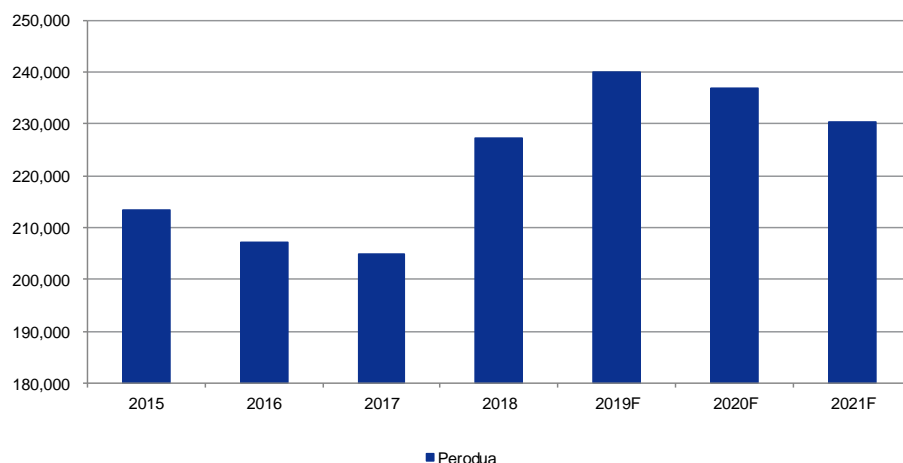
SOURCES: CIMB RESEARCH, COMPANY REPORTS

Figure 4: Historical Toyota commercial vehicle sales volume



SOURCES: CIMB RESEARCH, COMPANY REPORTS

Figure 4: Historical and projected Perodua sales volume for 2019-2021F



SOURCES: CIMB, MAA

Figure 5: Earnings revision

	Previous			Revised			Changes		
	2019F	2020F	2021F	2019F	2020F	2021F	2019F	2020F	2021F
Revenue	11,895	12,601	12,696	11,895	12,601	12,696	0%	0%	0%
EBITDA	987	1,086	1,103	885	991	1,061	-10%	-9%	-4%
EBIT	709	805	819	580	689	762	-18%	-14%	-7%
Pretax Profit	969	1,076	1,079	847	925	996	-13%	-14%	-8%
Net Profit	469	516	522	424	462	498	-10%	-10%	-5%
EPS	40	44	45	36	40	43	-10%	-10%	-5%

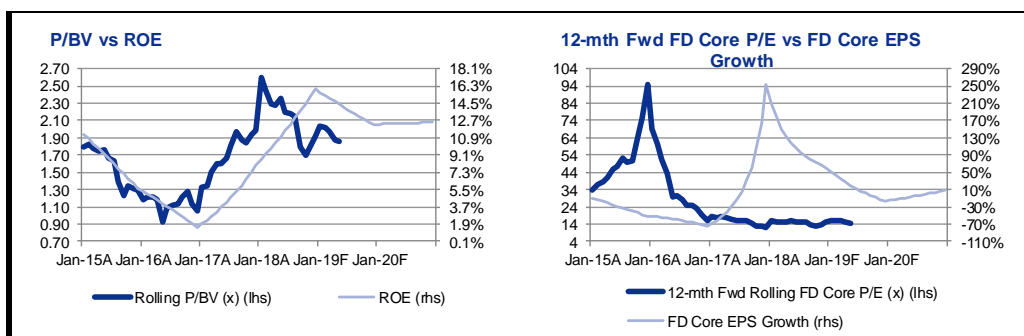
SOURCES: CIMB, COMPANY REPORTS

Figure 6: Sector comparison

Company	Recom.	Price (RM)	Target Price (RM)	Mkr Cap (US\$ m)	P/E (x)		P/BV (x)		Recurring ROE (%)		EV/EBITDA (x)		Dividend Yield (%)	
					CY19F	CY20F	CY19F	CY20F	CY19F	CY20F	CY19F	CY20F	CY19F	CY20F
Bermaz Auto Berhad	Add	2.30	2.85	637	11.5	11.3	4.5	4.2	41.9%	38.6%	7.9	7.7	6.7%	6.9%
Tan Chong Motor Holdings	Hold	1.59	1.52	248	9.8	11.7	0.4	0.3	3.7%	3.0%	6.5	7.1	1.9%	1.9%
UMW Holdings	Hold	5.45	5.70	1,521	15.0	13.8	1.8	1.7	12.4%	12.5%	10.6	9.5	1.8%	2.3%
Sime Darby Bhd	Hold	2.17	2.50	3,525	15.8	14.5	1.0	1.0	6.4%	6.7%	7.4	6.8	4.1%	4.5%
Sector average					14.7	13.8	1.1	1.1	7.9%	8.1%	8.1	7.6	3.7%	4.1%

SOURCES: CIMB RESEARCH, COMPANY REPORTS

BY THE NUMBERS



Profit & Loss

(RMm)	Dec-17A	Dec-18A	Dec-19F	Dec-20F	Dec-21F
Total Net Revenues	11,067	11,401	11,895	12,601	12,696
Gross Profit	1,605	1,938	1,784	2,016	2,031
Operating EBITDA	763	753	885	991	1,061
Depreciation And Amortisation	(265)	(203)	(304)	(303)	(299)
Operating EBIT	498	549	580	689	762
Financial Income/(Expense)	(39)	(2)	(18)	(19)	(7)
Pretax Income/(Loss) from Assoc.	182	266	285	255	241
Non-Operating Income/(Expense)	0	0	0	0	0
Profit Before Tax (pre-EI)	641	813	847	925	996
Exceptional Items	(374)	(26)			
Pre-tax Profit	267	786	847	925	996
Taxation	(122)	(142)	(203)	(213)	(229)
Exceptional Income - post-tax					
Profit After Tax	145	644	644	713	767
Minority Interests	(110)	(153)	(220)	(250)	(269)
Preferred Dividends	0	0	0	0	0
FX Gain/(Loss) - post tax					
Other Adjustments - post-tax					
Net Profit	35	491	424	462	498
Recurring Net Profit	316	510	424	462	498
Fully Diluted Recurring Net Profit	316	510	424	462	498

Cash Flow

(RMm)	Dec-17A	Dec-18A	Dec-19F	Dec-20F	Dec-21F
EBITDA	763	753	885	991	1,061
Cash Flow from Inv. & Assoc.					
Change In Working Capital	1,099	(937)	892	(93)	(9)
(Incr)/Decr in Total Provisions					
Other Non-Cash (Income)/Expense					
Other Operating Cashflow	333	199	304	303	299
Net Interest (Paid)/Received	(39)	(2)	(18)	(19)	(7)
Tax Paid	(132)	(139)	(203)	(213)	(229)
Cashflow From Operations	2,024	(126)	1,860	970	1,115
Capex	(1,004)	(915)	(600)	(500)	(500)
Disposals Of FAs/subsidiaries	0	0	0	0	0
Acq. Of Subsidiaries/investments	0	0			
Other Investing Cashflow	80	86	66	71	83
Cash Flow From Investing	(924)	(829)	(534)	(429)	(417)
Debt Raised/(repaid)	0	0	0	0	0
Proceeds From Issue Of Shares	0	0	0	0	0
Shares Repurchased	0	0	0	0	0
Dividends Paid	0	(88)	(117)	(146)	(175)
Preferred Dividends					
Other Financing Cashflow		(35)	(70)	(70)	(70)
Cash Flow From Financing	0	(123)	(187)	(216)	(245)
Total Cash Generated	1,100	(1,078)	1,138	325	452
Free Cashflow To Equity	1,100	(955)	1,325	541	697
Free Cashflow To Firm	1,219	(867)	1,409	631	787

SOURCES: CIMB RESEARCH, COMPANY REPORTS

BY THE NUMBERS... cont'd

Balance Sheet

(RMm)	Dec-17A	Dec-18A	Dec-19F	Dec-20F	Dec-21F
Total Cash And Equivalents	1,170	1,312	2,372	2,578	2,890
Total Debtors	1,029	1,032	1,081	1,145	1,153
Inventories	1,411	1,532	2,095	2,219	2,236
Total Other Current Assets	1,652	1,309	1,309	1,309	1,309
Total Current Assets	5,262	5,185	6,857	7,252	7,589
Fixed Assets	2,658	3,119	3,415	3,612	3,813
Total Investments	1	2	2	2	2
Intangible Assets	0	0	0	0	0
Total Other Non-Current Assets	2,174	2,385	2,385	2,385	2,385
Total Non-current Assets	4,834	5,505	5,801	5,998	6,199
Short-term Debt	692	535	535	535	535
Current Portion of Long-Term Debt					
Total Creditors	685	534	2,038	2,134	2,150
Other Current Liabilities	2,276	1,439	1,439	1,439	1,439
Total Current Liabilities	3,653	2,509	4,012	4,108	4,124
Total Long-term Debt	2,070	2,298	2,298	2,298	2,298
Hybrid Debt - Debt Component					
Total Other Non-Current Liabilities	195	188	195	195	195
Total Non-current Liabilities	2,264	2,486	2,493	2,493	2,493
Total Provisions	0	0	0	0	0
Total Liabilities	5,917	4,995	6,505	6,601	6,617
Shareholders' Equity	3,047	3,327	3,564	3,810	4,063
Minority Interests	1,131	2,369	2,589	2,839	3,108
Total Equity	4,178	5,696	6,153	6,649	7,171

Key Ratios

	Dec-17A	Dec-18A	Dec-19F	Dec-20F	Dec-21F
Revenue Growth	0.93%	3.02%	4.33%	5.94%	0.75%
Operating EBITDA Growth	11.6%	(1.4%)	17.5%	12.1%	7.0%
Operating EBITDA Margin	6.90%	6.60%	7.44%	7.87%	8.36%
Net Cash Per Share (RM)	(1.36)	(1.30)	(0.39)	(0.22)	0.05
BVPS (RM)	2.61	2.85	3.05	3.26	3.48
Gross Interest Cover	4.19	6.23	6.93	7.68	8.50
Effective Tax Rate	45.6%	18.1%	24.0%	23.0%	23.0%
Net Dividend Payout Ratio	NA	13.3%	18.6%	21.6%	24.1%
Accounts Receivables Days	33.40	33.00	32.42	32.32	33.03
Inventory Days	64.46	56.75	65.46	74.59	76.24
Accounts Payables Days	49.45	23.53	46.43	72.12	73.30
ROIC (%)	3.04%	6.91%	5.88%	7.59%	8.06%
ROCE (%)	5.73%	8.21%	7.37%	8.23%	8.67%
Return On Average Assets	5.08%	7.83%	7.37%	7.25%	7.41%

Key Drivers

	Dec-17A	Dec-18A	Dec-19F	Dec-20F	Dec-21F
ASP (% chg, main prod./serv.)	0.0%	1.5%	1.5%	1.5%	1.5%
Unit sales grth (% , main prod./serv.)	6.4%	-5.5%	16.8%	7.3%	2.1%
Util. rate (% , main prod./serv.)	N/A	N/A	N/A	N/A	N/A
ASP (% chg, 2ndary prod./serv.)	N/A	N/A	N/A	N/A	N/A
Unit sales grth (% ,2ndary prod/serv)	N/A	N/A	N/A	N/A	N/A
Util. rate (% , 2ndary prod/serv)	N/A	N/A	N/A	N/A	N/A
ASP (% chg, tertiary prod/serv)	N/A	N/A	N/A	N/A	N/A
Unit sales grth (% ,tertiary prod/serv)	N/A	N/A	N/A	N/A	N/A
Util. rate (% , tertiary prod/serv)	N/A	N/A	N/A	N/A	N/A

SOURCES: 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 CGS-CIMB or CIMB Investment Bank Berhad ("CIMB"), as the case may be. Reports relating to a specific geographical area are produced and distributed by the corresponding CGS-CIMB entity as listed in the table below. Reports relating to Malaysia are produced and distributed by 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 or CIMB, as the case may be.

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. CGS-CIMB or CIMB, as the case may be, 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 CGS-CIMB nor CIMB has an obligation to update this report in the event of a material change to the information contained in this report. Neither CGS-CIMB nor CIMB accepts 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, CGS-CIMB and CIMB, 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, CGS-CIMB and CIMB disclaim all responsibility and liability for the views and opinions set out in this report.

Unless otherwise specified, this report is based upon sources which CGS-CIMB or CIMB, as the case may be, considers to be reasonable. 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 CIMB, as the case may be, or any of their respective affiliates (including CGIFHL, CIMBG and their respective related corporations) to any person to buy or sell any investments.

CGS-CIMB, CIMB, their respective affiliates and related corporations (including CGIFHL, CIMBG and their respective related corporations) and/or 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, CIMB, 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-CIMB, CIMB 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 or CIMB, as the case may be, 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.

Reports relating to a specific geographical area are produced by the corresponding CGS-CIMB entity as listed in the table below. 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.

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
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

Reports relating to Malaysia are produced by CIMB as listed in the table below:

Country	CIMB Entity	Regulated by
Malaysia	CIMB Investment Bank Berhad	Securities Commission Malaysia

Other Significant Financial Interests:

(i) As of May 21, 2019 CGS-CIMB / CIMB 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) UMW Holdings

(ii) Analyst Disclosure: As of May 22, 2019, 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. Neither CGS-CIMB or CIMB, as the case may be, nor any of their respective affiliates (including CGIFHL, CIMBG and their related corporations) 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. Neither CGS-CIMB or CIMB, as the case may be, nor any of their respective affiliates nor their 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 or CIMB's (as the case may be) 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.

Australia: Despite anything in this report to the contrary, this research is 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 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 our own 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 its opinion or the information in this research report.

This publication is strictly confidential and is for private circulation only to clients of CHK.

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

India: This report is issued 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 is 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: INM00012037) 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 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 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 and distributed by PT CGS-CIMB Sekuritas Indonesia ("CGS-CIMB Indonesia"). The views and opinions in this research report are our own as of the date hereof and are subject to change. CGS-CIMB Indonesia has no obligation to update its opinion or the information in this research report. 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 distributed in Malaysia by CIMB solely for the benefit of and for the exclusive use of our clients. Recipients of this report are to contact CIMB, at 17th 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. CIMB has no obligation to update, revise or reaffirm its opinion or the information in this research reports 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 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 its 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 specified products), 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 as 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 specified products of the company(ies) covered in this research report or any specified products related thereto and may from time to time add to or dispose of, or may be materially interested in, any such specified products. 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 specified products 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 May 21, 2019, CGS-CIMBR does not have a proprietary position in the recommended specified products in this report.

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

South Korea: This report is issued 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 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 its 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, AMATA, AOT, AP, BANPU, BBL, BCH, BCP, BCPG, BDMS, BEAUTY, BEM, BGRIM, BJC, BH, BLA, BLAND, BPP, BTS, CBG, CENTEL, CHG, CK, CKP, COM7, CPALL, CPF, CPN, DELTA, DTAC, EA, EGCO, EPG, ERW, ESSO, GGC, GFPT, GLOBAL, GLOW, GPSC, GUNKUL, HANA, HMPRO, INTUCH, IRPC, ITD, IVL, KBANK, KCE, KKP, KTB, KTC, LH, LPN, MAJOR, MEGA, MINT, MTL, ORI, PRM, PSH, PSL, PTG, PTT, PTTEP, PTTGC, QH, RATCH, ROBINS, RS, SAWAD, SCB, SCC, SGP, SIRI, SPALI, SPRC, STA, STEC, SUPER, TASCOS, TCAP, THAI, THANI, TISCO, TKN, TMB, TOA, TOP, TPIPL, TPIPP, TRUE, TTW, TU, TVO, UV, WHA, WHAUP, 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 also 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 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 Research Pte Ltd, PT CGS-CIMB Sekuritas Indonesia, CGS-CIMB Securities (Thailand) Co. Ltd, CGS-CIMB Securities (Hong Kong) Limited, 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.

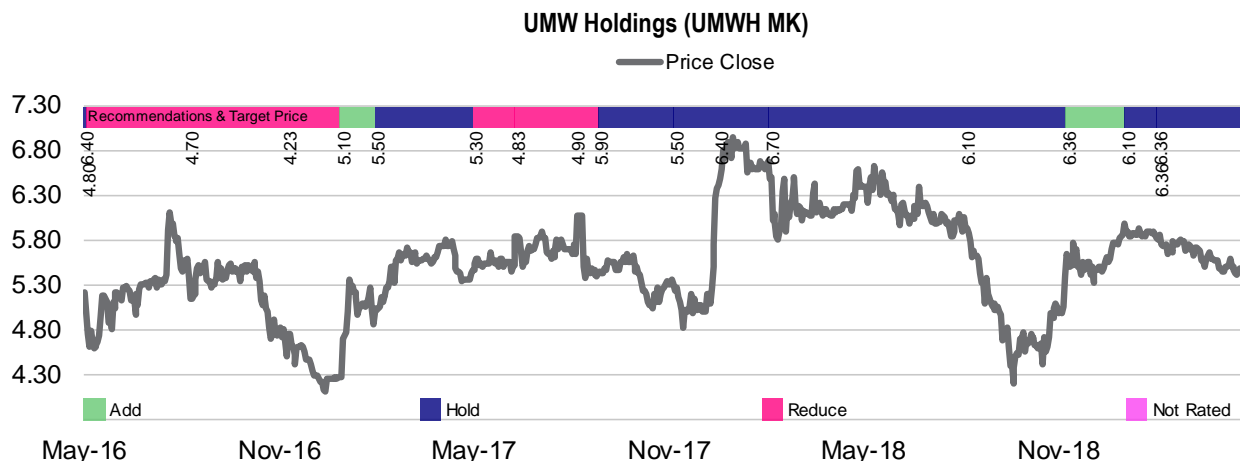
CGS-CIMB Securities (USA) Inc. has not received compensation for investment banking services from any of the company mentioned in the past 12 months.

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 08 April 2019		
771 companies under coverage for quarter ended on 08 April 2019		
	Rating Distribution (%)	Investment Banking clients (%)
Add	57.8%	4.0%
Hold	27.0%	2.1%
Reduce	15.2%	0.4%

Spitzer Chart for stock being researched (2 year data)



Corporate Governance Report of Thai Listed Companies (CGR). CG Rating by the Thai Institute of Directors Association (Thai IOD) in 2018, Anti-Corruption 2018

ADVANC – Excellent, Certified, **AEONTS** – Good, n/a, **AH** – Very Good, n/a, **AMATA** – Excellent, Declared, **ANAN** – Excellent, Declared, **AOT** – Excellent, Declared, **AP** – Excellent, Certified, **ASP** – Very Good, Certified, **BANPU** – Excellent, Certified, **BAY** – Excellent, Certified, **BBL** – Very Good, Certified, **BCH** – Good, Certified, **BCP** - Excellent, Certified, **BCPG** – Excellent, Certified, **BEM** – Very Good, n/a, **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, Declared, **BJCHI** – Very Good, Certified, **BLA** – Very Good, Certified, **BPP** – Very Good, Declared, **BR** - Good, Declared, **BTS** - Excellent, Certified, **CBG** – Very Good, n/a, **CCET** – Good, n/a, **CENTEL** – Very Good, Certified, **CHG** – Very Good, Declared, **CK** – Excellent, n/a, **COL** – Excellent, Declared, **CPALL** – Very Good, Certified, **CPF** – Excellent, Certified, **CPN** - Excellent, Certified, **DELTA** - Excellent, n/a, **DEMCO** – Excellent, Certified, **DDD** – Very Good, Declared, **DIF** – not available, n/a, **DREIT** – not available, 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, **GGC** – Excellent, Certified, **GLOBAL** – Very Good, n/a, **GLOW** – Very Good, Certified, **GPSC** – Excellent, Certified, **GULF** – Very Good, n/a, **GUNKUL** – Excellent, Certified, **HANA** - Excellent, Certified, **HMPRO** - Excellent, Certified, **HREIT** - Excellent, Certified, **ICHI** – Excellent, Declared, **HUMAN** – not available, n/a, **III** – Good, n/a, **INTUCH** - Excellent, Certified, **IRPC** – Excellent, Certified, **ITD*** – Very Good, n/a, **IVL** - Excellent, Certified, **JASIF** – not available, n/a, **JWD** – Very Good, n/a, **KBANK** - Excellent, Certified, **KCE** - Excellent, Certified, **KKP** – Excellent, Certified, **KSL** – Excellent, Certified, **KTB** - Excellent, Certified, **KTC** – Excellent, Certified, **LH** - Very Good, n/a, **LPN** – Excellent, Certified, **M** – Very Good, Certified, **MACO** – Very Good, n/a, **MAJOR** – Very Good, n/a, **MAKRO** – Excellent, Declared, **MALEE** – Very Good, Certified, **MC** – Very Good, Certified, **MCOT** – Excellent, Certified, **MEGA** – Very Good, n/a, **MINT** - Excellent, Certified, **MTC** – Excellent, Declared, **NETBAY** – Good, n/a, **OSP** – not available, n/a, **PLANB** – Excellent, Declared, **PLAT** – Very Good, Certified, **PR9** – not available, n/a, **PSH** – Excellent, Certified, **PSTC** – Good, Certified, **PTT** - Excellent, Certified, **PTTEP** - Excellent, Certified, **PTTGC** - Excellent, Certified, **QH** – Excellent, Certified, **RATCH** – Excellent, Certified, **ROBINS** – Excellent, Certified, **RS** – Very Good, n/a, **RSP** – not available, n/a, **S** – Very Good, n/a, **SAMART** - Excellent, n/a, **SAPPE** – Very Good, Declared, **SAT** – Excellent, Certified, **SAWAD** – Very Good, n/a, **SC** – Excellent, Declared, **SCB** - Excellent, Certified, **SCC** – Excellent, Certified, **SCN** – Very Good, Certified, **SF** – Good, n/a, **SIRI** – Very Good, Certified, **SPA** - Good, n/a, **SPALI** - Excellent, n/a, **SPRC** – Excellent, Certified, **STA** – Very Good, Certified, **STEC** – Excellent, n/a, **SVI** – Excellent, Certified, **SYNEX** – Very Good, Declared, **TASCO** – Excellent, Certified, **TCAP** – Excellent, Certified, **THANI** – Excellent, Certified, **TIPCO** – Very Good, Certified, **TISCO** - Excellent, Certified, **TKN** – Very Good, Declared, **TMB** - Excellent, Certified, **TNR** – Very Good, Declared, **TOP** - Excellent, Certified, **TPCH** – Good, n/a, **TPIPP** – Good, n/a, **TRUE** – Excellent, Certified, **TU** – Excellent, Certified, **TVO** – Very Good, Declared, **UNIQ** – Good, n/a, **VGI** – Excellent, Certified, **WHA** – Excellent, Certified, **WHART** – not available, n/a, **WICE** – Very Good, Certified, **WORK** – Good, n/a.

Companies participating in Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) under Thai Institute of Directors (as of August 31, 2018) are categorized into:

- Companies that have declared their intention to join CAC, and
- Companies certified by CAC

* The company, its director or management had been reportedly accused for breaching proper corporate governance such as violation of the SEC's regulations or charged with corruption.

Recommendation Framework

Stock Ratings

Definition:

- Add** The stock's total return is expected to exceed 10% over the next 12 months.
- Hold** The stock's total return is expected to be between 0% and positive 10% over the next 12 months.
- Reduce** The stock's total return is expected to fall below 0% or more 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.

#01