

13 March 2018

## Malaysia

### January's Industrial Activity Flat Amid Slower Manufacturing

Malaysia's industrial activities sustained at 3% in January, barely improving from 2.9% in Dec 2017, which was the slowest pace in 20 months. A rebound in mining and a pick-up in electricity output mitigated the drag from slower manufacturing. We were surprised by the slowdown in manufacturing output amidst a jump in exports in the same month. This was as exporters rush to ship their goods ahead of the shorter working days in February due to the festivities. Overall, we expect the economic activities to slow to 5.4% for 1Q18, from 5.9% in the previous quarter. Looking forward, we expect the country's real GDP to chart a more moderate growth of 5.2% in 2018 (2017: +5.9%). This is on the back of slower export growth after a surge in 2017 and a slowdown in public spending, in line with the Government's fiscal consolidation drive. However, real GDP growth would remain supported by resilient domestic demand, backed by relatively stronger consumer spending and private investments during the year.

**Manufacturing activities slowed in January.** A slowdown in growth recorded by the manufacture of food, beverages & tobacco (F&B) segment, petroleum, chemicals, rubber & plastics industries, textiles and wood products pushed manufacturing activities lower.

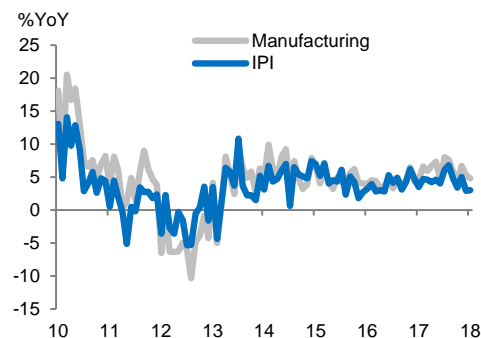
**Mining activities output bounced back** with both crude oil and natural gas staging rebounds during the month.

**Electricity output picked up pace** during the month.

**Manufacturing sales, in stark contrast with output numbers, posted stronger growth** during the month.

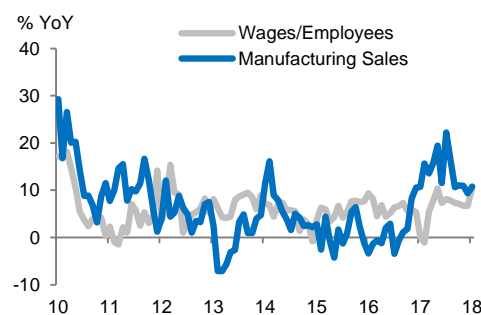
**Factories accelerated their hiring of workers while salaries & wages jumped strongly** with employee headcount in the sector climbing steadily. As a result, the manufacturing sector's productivity improved to 8% YoY in January, from +6.8 % in December.

IPI and manufacturing



Source: Bloomberg, RHB

Manufacturing sales and wages



Source: Bloomberg, RHB

#### Industrial production and manufacturing sales indicators

% YoY	2015	2016	2017	Sep 2017	Oct 2017	Nov 2017	Dec 2017	Jan 2018
Industrial								
Production	4.7	3.8	4.5	4.7	3.4	5.0	2.9	3.0
Manufacturing	4.8	4.3	6.1	5.7	4.2	6.7	5.3	4.8
Electricity	2.4	8.5	2.6	2.2	4.6	3.9	3.9	4.3
Mining	4.1	2.7	0.4	2.1	0.8	0.2	-4.1	1.5
Manufacturing								
Sales	1.2	1.3	13.7	10.6	11.0	10.9	9.4	10.8
Sales/Worker	1.3	1.4	11.2	7.9	8.5	8.4	6.8	8.0
Salaries/Worker	5.9	6.3	6.1	7.3	7.1	6.7	6.7	10.5

Source :Department of Statistics (DOS), RHB

#### Economist

**Vincent Loo Yeong Hong**  
+603 9280 2172  
[vincent.loo@rhbgroupp.com](mailto:vincent.loo@rhbgroupp.com)



13 March 2018

## Sales Of Manufacturing Products Remain Brisk

### Slower real GDP growth expected for 1Q18

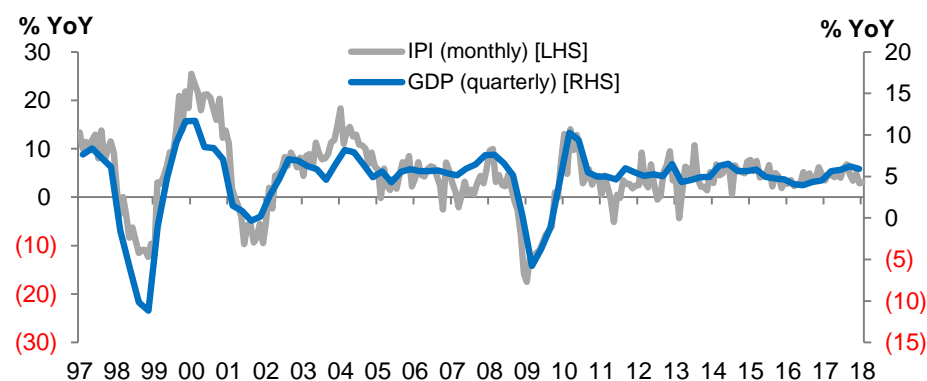
The Industrial Production Index (IPI) sustained at 3% YoY in January, hovering near its slowest pace in 20 months of +2.9% in Dec 2017. This is compared to +5% in Nov 2017. A rebound in mining and a pick-up in electricity output mitigated the drag from slower manufacturing. This came despite a jump in exports in the same month.

Overall, we expect the economic activities to slow to 5.4% for 1Q18, from 5.9% in the previous quarter. Looking forward, we expect the country's real GDP to chart a more moderate growth of 5.2% in 2018 (2017: +5.9%). This is on the back of:

- i. Slower export growth amid base effects after a surge in 2017;
- ii. Slowdown in public spending, in line with the Government's fiscal consolidation drive.

However, real GDP growth would remain supported by resilient domestic demand, backed by relatively strong consumer spending and private investments during the year.

Figure 1: Economic activities to moderate in 1Q18



Source: Bloomberg, RHB

As it stands, manufacturing activities (68.3% revised weight of the IPI) eased to 4.8% YoY in January, from the 5.3% in the preceding month, the second straight month of slowdown after expanding at +6.7% in Nov 2017.

A slowdown in growth recorded by the manufacture of food, beverages & tobacco (F&B) segment, petroleum, chemicals, rubber & plastics industries, textiles and wood products pushed manufacturing activities lower. Meanwhile, production of electrical & electronics (E&E) was sustained. However, a surge in the manufacture of basic & fabricated metals and transport equipment provided some mitigation.

On the contrary, mining output bounced back with an expansion of 1.5% YoY in January, after falling 4.1% in Dec 2017 with both crude oil and natural gas staging rebounds during the month.

Meanwhile, electricity output picked up pace to 4.3% YoY in January, from +3.9% in the preceding month.

In stark contrast with output numbers, manufacturing sales posted a stronger growth of 10.8% YoY during the month, from +9.4% in Dec 2017 and compared to +10.9% in Nov 2017 (Figure 3). As a result, factories accelerated their pace of hiring as employee headcount in the sector climbed steadily to 2.5% YoY in January, from +2.4% in the preceding month. Meanwhile, salaries & wages paid to workers jumped 13.3% YoY, from 9.2% in Nov-Dec 2017.

As a result, growth in wages per employee surged to 10.5% YoY during the month, from +6.7% in Nov-Dec 2017. As manufacturing sales outpaced the pick-up in worker headcount, the manufacturing sector's productivity (as measured by the sales value of manufactured products per employee) improved to 8% YoY in January, from +6.8% in Dec 2017.

13 March 2018

Figure 2: Industrial Production Index (IPI) (2010 = 100)

		Total	Mfg	Electricity	Mining
		(% YoY)			
2015		4.7	4.8	2.4	4.1
2016		3.8	4.3	8.5	2.7
2017	Q2	4.3	6.2	1.0	-0.6
	Q3	5.9	7.1	4.4	2.5
	Q4	3.7	5.4	4.1	-1.1
2017	Nov	5.0	6.7	3.9	0.2
	Dec	2.9	5.3	3.9	-4.1
2018	Jan	3.0	4.8	4.3	1.5
2017	Jan	3.5	4.6	1.0	1.1
2018	Jan	3.0	4.8	4.3	1.5

Source: DOS, RHB

Figure 3: Monthly change in IPI (2010 = 100)

		% MoM							
		Total IPI	Total Mfg	Electricity	Mining				
2017	Nov	-1.4	-1.7	-4.2	0.2				
	Dec	2.2	2.2	1.7	2.4				
2018	Jan	-4.5	-5.8	-1.6	2.4				
		(Seasonally Adjusted)							
		% MoM				% YoY			
		IPI	Mfg.	Electri city	Mining	IPI	Mfg.	Electri city	Mining
2017	Nov	0.2	-0.2	-1.9	1.3	4.3	5.9	3.6	0.3
	Dec	-0.2	0.7	0.2	-2.1	3.5	6.7	4.1	-5.4
2018	Jan	-1.0	-1.4	-0.7	2.3	2.8	4.3	4.4	1.6

Source: DOS, RHB

Figure 4: Manufacturing sales

		Total Sales		Sales/Worker		Salaries/Worker	
		MYRbn	% YoY	MYR'000	% YoY	MYR	% YoY
2015		664.3	1.2	646.1	1.3	35,329	5.9
2016		673.2	1.3	655.4	1.4	37,549	6.3
2017	Nov	66.6	10.9	63.2	8.4	3,347	6.7
	Dec	67.3	9.4	63.6	6.8	3,569	6.7
2018	Jan						
2017	Jan	61.2	10.7	58.6	9.2	3,160	0.1
2018	Jan	67.8	10.8	63.3	8.0	3,494	10.5

Source: DOS, RHB

Figure 5: Monthly change in manufacturing sales

		Total Sales		% MoM Sales/ Employee		Wages/ Employee			
2017	Nov	0.5		0.4		-0.5			
	Dec	0.9		0.7		6.6			
2018	Jan	0.7		-0.5		-2.1			
(Seasonally Adjusted)									
		Total Sales	% MoM Sales/ Emp.	Wages/ Emp.			Total Sales	% YoY Sales/ Emp.	Wages/ Emp.
2017	Nov	2.9	2.8	-0.4	2017	Nov	10.7	8.2	6.5
	Dec	-0.1	-0.4	0.3		Dec	9.7	7.1	7.1
2018	Jan	1.3	0.1	0.2	2018	Jan	10.8	8.0	10.5

Source: DOS, RHB

13 March 2018

Figure 6: Regional economic indicators

ASEAN & CHINA ECONOMIC INDICATORS																
Country	GDP growth (%)				Inflation (%)				Policy rate (end period,%)				Exchange rate (end period, vs. USD)			
	2015	2016	2017	2018F	2015	2016	2017	2018F	2015	2016	2017	2018F	2015	2016	2017	2018F
Indonesia	4.9	5.0	5.1	5.3	6.4	3.5	3.8	3.6	6.25	4.75	4.25	4.25	13856	13540	13588	13700
Malaysia	5.0	4.2	5.9	5.2	2.1	2.1	3.7	3.0	3.25	3.00	3.00	3.25	4.29	4.49	4.06	3.95
Philippines	5.9	6.8	6.7	6.5	1.4	1.8	3.2	3.3	4.00	3.00	3.00	3.25	46.86	49.62	49.83	49.79
Singapore	2.0	2.4	3.6	3.0	-0.5	-0.5	0.6	1.6	-	-	-	-	1.42	1.45	1.34	1.32
Thailand	2.8	3.2	3.9	4.2	-1.2	0.2	0.7	1.2	1.50	1.50	1.50	1.50	36.02	35.85	32.57	32.10
Vietnam*	6.7	6.2	6.8	6.3	0.6	2.7	3.5	3.4	6.50	6.50	6.00	6.00	22485	22770	22709	22700
China**	6.9	6.7	6.9	6.4	1.4	2.0	1.5	2.3	4.35	4.35	4.35	4.35	6.49	6.95	6.51	6.70

\*prime rate; \*\*1-yr lending rate

Country	Exports growth (%)				Imports growth (%)				Industrial Production growth (%)				Unemployment rate (% labour force)			
	2015	2016	2017	2018F	2015	2016	2017	2018F	2015	2016	2017	2018F	2015	2016	2017	2018F
Indonesia	-14.6	-3.9	16.2	10.0	-19.9	-4.9	15.6	11.0	4.6	5.0	5.1	5.3	6.2	5.6	5.5	5.4
Malaysia	1.8	1.1	18.9	6.5	0.4	1.9	19.9	6.2	4.5	3.8	5.2	4.5	3.2	3.5	3.4	3.3
Philippines	-5.3	-2.4	9.5	8.0	8.7	18.3	10.2	9.0	-4.4	6.4	6.2	6.2	6.3	5.5	5.7	5.6
Singapore	-7.3	-4.4	8.5	6.7	-12.1	-4.2	10.6	10.9	-5.1	3.7	10.1	7.6	2.0	2.2	2.1	2.0
Thailand	-5.8	0.5	9.9	7.0	-10.7	-3.9	14.7	8.6	0.3	1.6	1.6	2.9	0.9	0.9	1.0	0.9
Vietnam	7.7	9.2	21.4	9.5	10.7	5.6	21.4	8.7	9.8	6.9	10.0	8.1	3.4	3.3	3.5	3.6
China	-2.8	1.8	6.8	5.2	-14.1	3.8	7.3	5.6	6.1	6.1	6.5	5.5	4.1	4.1	4.1	4.1

Country	Fiscal Balance (% GDP)				Current Acc. (% GDP)				Forex Reserves (USD bn)				External Debt (USD bn)			
	2015	2016	2017F	2018F	2015	2016	2017F	2018F	2015	2016	2017	2018F	2015	2016	2017F	2018F
Indonesia	-2.5	-2.5	-2.6	-2.7	-2.0	-1.8	-1.6	-1.8	106	116	130	147	311	319	335	348
Malaysia	-3.2	-3.1	-3.0	-2.8	3.0	2.4	3.0	2.7	95	95	102	114	194	201	213	222
Philippines	-0.9	-2.4	-2.7	-2.8	2.6	0.2	0.3	0.6	81	81	82	90	77	75	73	71
Singapore	-1.0	1.3	0.5	0.8	19.7	19.0	18.8	17.8	248	247	280	265	-	-	-	-
Thailand	-2.4	-2.6	-1.8	-2.9	8.0	11.4	9.6	8.4	157	172	203	208	147	152	155	159
Vietnam	-5.3	-5.0	-5.3	-5.2	1.4	2.7	1.9	2.1	28	43	40	45	72	76	79	83
China	-3.4	-3.5	-3.6	-3.3	2.8	1.8	1.3	1.1	3330	3010	3140	3000	1416	1400	1450	1400

Country	Deposit Growth (%)				Loan Growth (%)				L/D Ratio (%)				Money Supply* (%)			
	2015	2016	2017	2018F	2015	2016	2017	2018F	2015	2016	2017	2018F	2015	2016	2017	2018F
Indonesia	8.0	9.6	11.0	11.9	10.1	7.8	10.0	12.8	94.2	92.7	91.9	94.3	9.0	10.0	11.0	12.4
Malaysia	1.8	1.5	5.7	4.6	7.9	5.3	4.1	5.2	88.7	89.8	90.5	90.9	2.6	3.0	4.7	5.0
Philippines	8.0	14.3	11.9	11.8	12.7	16.1	18.1	18.0	69.0	70.7	74.1	74.1	9.4	12.8	11.9	10.0
Singapore	0.2	2.7	3.2	5.4	0.0	0.5	8.0	5.8	108.5	107.9	104.5	104.9	4.1	8.1	4.1	6.2
Thailand	4.2	3.8	4.1	5.3	5.5	3.6	4.1	5.1	93.5	93.3	93.1	92.9	4.4	4.2	5.2	5.3
Vietnam	13.6	15.0	10.0	11.2	17.2	18.0	15.0	13.5	78.1	79.6	81.0	83.0	13.6	16.0	17.0	18.0
China	12.4	11.0	10.7	9.6	14.3	13.5	12.0	10.3	69.2	70.8	71.7	72.2	13.3	11.3	11.0	10.6

Note: As at 01 Mar 2018

Note 2: \*M2 is used for all countries except for Thailand M1 is used and Philippines M3 is used instead.

Note 3: \*\*Starting 3 Jun 2016, the Philippines' policy rate was changed to purely Bangko Sentral ng Pilipinas' overnight reverse repurchase (RRP) facility at 3%

Source: International Monetary Fund (IMF), Oxford Economics, Various central banks, RHB

13 March 2018

**Investment Research Disclaimers**

RHB has issued this report for information purposes only. This report is intended for circulation amongst RHB and its affiliates' clients generally or such persons as may be deemed eligible by RHB to receive this report 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. This report is not intended, and should not under any circumstances be construed as, an offer or a solicitation of an offer to buy or sell the securities referred to herein or any related financial instruments.

This report may further consist of, whether in whole or in part, summaries, research, compilations, extracts or analysis that has been prepared by RHB's strategic, joint venture and/or business partners. No representation or warranty (express or implied) is given as to the accuracy or completeness of such information and accordingly investors should make their own informed decisions before relying on the same.

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 the applicable laws or regulations. By accepting this report, the recipient hereof (i) represents and warrants that it is lawfully able to receive this document under the laws and regulations of the jurisdiction in which it is located or other applicable laws and (ii) acknowledges and agrees to be bound by the limitations contained herein. Any failure to comply with these limitations may constitute a violation of applicable laws.

All the information contained herein is based upon publicly available information and has been obtained from sources that RHB believes to be reliable and correct at the time of issue of this report. However, such sources have not been independently verified by RHB and/or its affiliates and this report does not purport to contain all information that a prospective investor may require. The opinions expressed herein are RHB's present opinions only and are subject to change without prior notice. RHB is not under any obligation to update or keep current the information and opinions expressed herein or to provide the recipient with access to any additional information. Consequently, RHB does not guarantee, represent or warrant, expressly or impliedly, as to the adequacy, accuracy, reliability, fairness or completeness of the information and opinion contained in this report. Neither RHB (including its officers, directors, associates, connected parties, and/or employees) nor does any of its agents accept any liability for any direct, indirect or consequential losses, loss of profits and/or damages that may arise from the use or reliance of this research report and/or further communications given in relation to this report. Any such responsibility or liability is hereby expressly disclaimed.

Whilst every effort is made to ensure that statement 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 and must not be construed as a representation that the matters referred to therein will occur. Different assumptions by RHB or any other source may yield substantially different results and recommendations contained on one type of research product may differ from recommendations contained in other types of research. The performance of currencies may affect the value of, or income from, the securities or any other financial instruments referenced in this report. Holders of depositary receipts backed by the securities discussed in this report assume currency risk. Past performance is not a guide to future performance. Income from investments may fluctuate. The price or value of the investments to which this report relates, either directly or indirectly, may fall or rise against the interest of investors.

This report does not purport to be comprehensive or to contain all the information that a prospective investor may need in order to make an investment decision. The recipient of this report is making its own independent assessment and decisions regarding any securities or financial instruments referenced herein. Any investment discussed or recommended in this report may be unsuitable for an investor depending on the investor's specific investment objectives and financial position. The material in this report is general information intended for recipients who understand the risks of investing in financial instruments. This report does not take into account whether an investment or course of action and any associated risks are suitable for the recipient. Any recommendations contained in this report must therefore not be relied upon as investment advice based on the recipient's personal circumstances. Investors should make their own independent evaluation of the information contained herein, consider their own investment objective, financial situation and particular needs and seek their own financial, business, legal, tax and other advice regarding the appropriateness of investing in any securities or the investment strategies discussed or recommended in this report.

This report may contain forward-looking statements which are often but not always identified by the use of words such as "believe", "estimate", "intend" and "expect" and statements that an event or result "may", "will" or "might" occur or be achieved and other similar expressions. Such forward-looking statements are based on assumptions made and information currently available to RHB and are subject to known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievement to be materially different from any future results, performance or achievement, expressed or implied by such forward-looking statements. Caution should be taken with respect to such statements and recipients of this report should not place undue reliance on any such forward-looking statements. RHB expressly disclaims any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or circumstances after the date of this publication or to reflect the occurrence of unanticipated events.

The use of any website to access this report electronically is done at the recipient's own risk, and it is the recipient's sole responsibility to take precautions to ensure that it is free from viruses or other items of a destructive nature. This report may also provide the addresses of, or contain hyperlinks to, websites. RHB takes no responsibility for the content contained therein. Such addresses or hyperlinks (including addresses or hyperlinks to RHB own website material) are provided solely for the recipient's convenience. The information and the content of the linked site do not in any way form part of this report. Accessing such website or following such link through the report or RHB website shall be at the recipient's own risk.

This report may contain information obtained from third parties. Third party content providers do not guarantee the accuracy, completeness, timeliness or availability of any information and are not responsible for any errors or omissions (negligent or otherwise), regardless of the cause, or for the results obtained from the use of such content. Third party content providers give no express or implied warranties, including, but not limited to, any warranties of merchantability or fitness for a particular purpose or use. Third party content providers shall not be liable for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including lost income or profits and opportunity costs) in connection with any use of their content.

The research analysts 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

13 March 2018

autonomously. The research analysts that authored this report are precluded by RHB in all circumstances from trading in the securities or other financial instruments referenced in the report, or from having an interest in the company(ies) that they cover.

RHB and/or its affiliates and/or their directors, officers, associates, connected parties and/or employees, may have, or have had, interests in the securities or qualified holdings, in subject company(ies) mentioned in this 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, RHB and/or its affiliates may have, or have had, business relationships with the subject company(ies) mentioned in this report and may from time to time seek to provide investment banking or other services to the subject company(ies) referred to in this research report. As a result, investors should be aware that a conflict of interest may exist.

The contents of this report is strictly confidential and may not be copied, reproduced, published, distributed, transmitted or passed, in whole or in part, to any other person without the prior express written consent of RHB and/or its affiliates. This report has been delivered to RHB and its affiliates' clients for information purposes only and upon the express understanding that such parties will use it only for the purposes set forth above. By electing to view or accepting a copy of this report, the recipients have agreed that they will not print, copy, videotape, record, hyperlink, download, or otherwise attempt to reproduce or re-transmit (in any form including hard copy or electronic distribution format) the contents of this report. RHB and/or its affiliates accepts no liability whatsoever for the actions of third parties in this respect.

The contents of this report are subject to copyright. Please refer to Restrictions on Distribution below for information regarding the distributors of this report. Recipients must not reproduce or disseminate any content or findings of this report without the express permission of RHB and the distributors.

The securities mentioned in this publication may not be eligible for sale in some states or countries or certain categories of investors. The recipient of this report should have regard to the laws of the recipient's place of domicile when contemplating transactions in the securities or other financial instruments referred to herein. The securities discussed in this report may not have been registered in such jurisdiction. Without prejudice to the foregoing, the recipient is to note that additional disclaimers, warnings or qualifications may apply based on geographical location of the person or entity receiving this report.

The term "RHB" shall denote, where appropriate, the relevant entity distributing or disseminating the report in the particular jurisdiction referenced below, or, in every other case, RHB Investment Bank Berhad and its affiliates, subsidiaries and related companies.

## RESTRICTIONS ON DISTRIBUTION

### Malaysia

This report is issued and distributed in Malaysia by RHB Research Institute Sdn Bhd. The views and opinions in this report are our own as of the date hereof and is 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. RHB Research Institute Sdn Bhd has no obligation to update its opinion or the information in this report.

### Thailand

This report is issued and distributed in the Kingdom of Thailand by RHB Securities (Thailand) PCL, a licensed securities company that is authorised by the Ministry of Finance, regulated by the Securities and Exchange Commission of Thailand and is a member of the Stock Exchange of Thailand. The Thai Institute of Directors Association has disclosed the Corporate Governance Report of Thai Listed Companies made pursuant to the policy of the Securities and Exchange Commission of Thailand. RHB Securities (Thailand) PCL does not endorse, confirm nor certify the result of the Corporate Governance Report of Thai Listed Companies.

### Indonesia

This report is issued and distributed in Indonesia by PT RHB Sekuritas Indonesia. This research does not constitute an offering document and it should not be construed as an offer of securities in Indonesia. Any securities offered or sold, directly or indirectly, in Indonesia or to any Indonesian citizen or corporation (wherever located) or to any Indonesian resident in a manner which constitutes a public offering under Indonesian laws and regulations must comply with the prevailing Indonesian laws and regulations.

### Singapore

This report is issued and distributed in Singapore by RHB Research Institute Singapore Pte Ltd and it may only be distributed in Singapore to accredited investors, expert investors and institutional investors as defined in the Financial Advisers Regulations and the Securities and Futures Act (Chapter 289), as amended from time to time. By virtue of distribution to these categories of investors, RHB Research Institute Singapore Pte Ltd and its representatives are not required to comply with Section 36 of the Financial Advisers Act (Chapter 110) (Section 36 relates to disclosure of RHB Research Institute Singapore Pte Ltd's interest and/or its representative's interest in securities). Recipients of this report in Singapore may contact RHB Research Institute Singapore Pte Ltd in respect of any matter arising from or in connection with the report.

### Hong Kong

This report is issued and distributed in Hong Kong by RHB Securities Hong Kong Limited (興業僑豐證券有限公司) (CE No.: ADU220) ("RHBSHK") which is licensed in Hong Kong by the Securities and Futures Commission for Type 1 (dealing in securities) and Type 4 (advising on securities) regulated activities. Any investors wishing to purchase or otherwise deal in the securities covered in this report should contact RHBSHK. RHBSHK is a wholly owned subsidiary of RHB Hong Kong Limited; for the purposes of disclosure under the Hong Kong jurisdiction herein, please note that RHB Hong Kong Limited with its affiliates (including but not limited to RHBSHK) will collectively be referred to as "RHBHK." RHBHK conducts a full-service, integrated investment banking, asset management, and brokerage business. RHBHK does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this research report.



13 March 2018

Investors should consider this report as only a single factor in making their investment decision. Importantly, please see the company-specific regulatory disclosures below for compliance with specific rules and regulations under the Hong Kong jurisdiction. Other than company-specific disclosures relating to RHBHK, this research report is based on current public information that we consider reliable, but we do not represent it is accurate or complete, and it should not be relied on as such.

#### United States

This report was prepared by RHB and is being distributed solely and directly to “major” U.S. institutional investors as defined under, and pursuant to, the requirements of Rule 15a-6 under the U.S. Securities and Exchange Act of 1934, as amended (the “Exchange Act”). Accordingly, access to this report via Bursa Marketplace or any other Electronic Services Provider is not intended for any party other than “major” US institutional investors, nor shall be deemed as solicitation by RHB in any manner. RHB is not registered as a broker-dealer in the United States and does not offer brokerage services to U.S. persons. Any order for the purchase or sale of the securities discussed herein that are listed on Bursa Malaysia Securities Berhad must be placed with and through Auerbach Grayson (“AG”). Any order for the purchase or sale of all other securities discussed herein must be placed with and through such other registered U.S. broker-dealer as appointed by RHB from time to time as required by the Exchange Act Rule 15a-6. This report is confidential and not intended for distribution to, or use by, persons other than the recipient and its employees, agents and advisors, as applicable. Additionally, where research is distributed via Electronic Service Provider, the analysts whose names appear in this report are not registered or qualified as research analysts in the United States and are not associated persons of Auerbach Grayson AG or such other registered U.S. broker-dealer as appointed by RHB from time to time and therefore may not be subject to any applicable restrictions under Financial Industry Regulatory Authority (“FINRA”) rules on communications with a subject company, public appearances and personal trading. Investing in any non-U.S. securities or related financial instruments discussed in this research report may present certain risks. The securities of non-U.S. issuers may not be registered with, or be subject to the regulations of, the U.S. Securities and Exchange Commission. Information on non-U.S. securities or related financial instruments may be limited. Foreign companies may not be subject to audit and reporting standards and regulatory requirements comparable to those in the United States. The financial instruments discussed in this report may not be suitable for all investors. Transactions in foreign markets may be subject to regulations that differ from or offer less protection than those in the United States.

#### OWNERSHIP AND MATERIAL CONFLICTS OF INTEREST

##### Malaysia

RHB does not have qualified shareholding (1% or more) in the subject company (ies) covered in this report except for:

a) -

RHB and/or its subsidiaries are not liquidity providers or market makers for the subject company (ies) covered in this report except for:

a) -

RHB and/or its subsidiaries have not participated as a syndicate member in share offerings and/or bond issues in securities covered in this report in the last 12 months except for:

a) -

RHB has not provided investment banking services to the company/companies covered in this report in the last 12 months except for:

a) -

##### Thailand

RHB Securities (Thailand) PCL and/or its directors, officers, associates, connected parties and/or employees, may have, or have had, interests and/or commitments in the securities in subject company(ies) mentioned in this report or any securities related thereto. Further, RHB Securities (Thailand) PCL may have, or have had, business relationships with the subject company(ies) mentioned in this report. As a result, investors should exercise their own judgment carefully before making any investment decisions.

##### Indonesia

PT RHB Sekuritas Indonesia is not affiliated with the subject company(ies) covered in this report both directly or indirectly as per the definitions of affiliation above. Pursuant to the Capital Market Law (Law Number 8 Year 1995) and the supporting regulations thereof, what constitutes as affiliated parties are as follows:

1. Familial relationship due to marriage or blood up to the second degree, both horizontally or vertically;
2. Affiliation between parties to the employees, Directors or Commissioners of the parties concerned;
3. Affiliation between 2 companies whereby one or more member of the Board of Directors or the Commissioners are the same;
4. Affiliation between the Company and the parties, both directly or indirectly, controlling or being controlled by the Company;
5. Affiliation between 2 companies which are controlled, directly or indirectly, by the same party; or
6. Affiliation between the Company and the main Shareholders.

PT RHB Sekuritas Indonesia is not an insider as defined in the Capital Market Law and the information contained in this report is not considered as insider information prohibited by law. Insider means:

- a. a commissioner, director or employee of an Issuer or Public Company;
- b. a substantial shareholder of an Issuer or Public Company;
- c. an individual, who because of his position or profession, or because of a business relationship with an Issuer or Public Company, has access to inside information; and
- d. an individual who within the last six months was a Person defined in letters a, b or c, above.

##### Singapore

13 March 2018

RHB Research Institute Singapore Pte Ltd and/or its subsidiaries and/or associated companies do not make a market in any securities covered in this report, except for:

(a) -

The staff of RHB Research Institute Singapore Pte Ltd and its subsidiaries and/or its associated companies do not serve on any board or trustee positions of any issuer whose securities are covered in this report, except for:

(a) -

RHB Research Institute Singapore Pte Ltd and/or its subsidiaries and/or its associated companies do not have and have not within the last 12 months had any corporate finance advisory relationship with the issuer of the securities covered in this report or any other relationship (including a shareholding of 1% or more in the securities covered in this report) that may create a potential conflict of interest, except for:

(a) -

### Hong Kong

The following disclosures relate to relationships between RHBHK and companies covered by Research Department of RHBSHK and referred to in this research report:

RHBSHK hereby certifies that no part of RHBSHK analyst compensation was, is or will be, directly or indirectly, related to the specific recommendations or views expressed in this research report.

RHBHK had an investment banking services client relationships during the past 12 months with: -.

RHBHK has received compensation for investment banking services, during the past 12 months from: -.

RHBHK managed/co-managed public offerings, in the past 12 months for: -.

On a principal basis. RHBHK has a position of over 1% market capitalization of: -.

### Additionally, please note the following:

**Ownership and material conflicts of interest:** RHBSHK policy prohibits its analysts and associates reporting to analysts from owning securities of any company covered by the analyst.

**Analyst as officer or director:** RHBSHK policy prohibits its analysts, and associates reporting to analysts from serving as an officer, director, advisory board member or employee of any company covered by the analyst.

RHBHK salespeople, traders, and other non-research professionals may provide oral or written market commentary or trading strategies to RHB clients that reflect opinions that are contrary to the opinions expressed in this research report.

This research report is not an offer to sell or the solicitation of an offer to buy any security in any jurisdiction where such an offer or solicitation would be illegal. It does not constitute a personal recommendation or take into account the particular investment objectives, financial situations, or needs of individual clients. Clients should consider whether any advice or recommendation in this research report is suitable for their particular circumstances and, if appropriate, seek professional advice, including tax advice.

Kuala Lumpur	Hong Kong	Singapore
<b>RHB Research Institute Sdn Bhd</b> Level 3A, Tower One, RHB Centre Jalan Tun Razak Kuala Lumpur 50400 Malaysia Tel : +(60) 3 9280 8888 Fax : +(60) 3 9200 2216	<b>RHB Securities Hong Kong Ltd.</b> 12 <sup>th</sup> Floor World-Wide House 19 Des Voeux Road Central, Hong Kong Tel : +(852) 2525 1118 Fax : +(852) 2810 0908	<b>RHB Research Institute Singapore Pte Ltd.</b> 10 Collyer Quay #09-08 Ocean Financial Centre Singapore 049315 Tel : +(65) 6533 1818 Fax : +(65) 6532 6211
Jakarta	Shanghai	Bangkok
<b>PT RHB Sekuritas Indonesia</b> Wisma Mulia, 20th Floor Jl. Jenderal Gatot Subroto No. 42 Jakarta 12710, Indonesia Tel : +(6221) 2783 0888 Fax : +(6221) 2783 0777	<b>RHB (China) Investment Advisory Co. Ltd.</b> Suite 4005, CITIC Square 1168 Nanjing West Road Shanghai 20041 China Tel : +(8621) 6288 9611 Fax : +(8621) 6288 9633	<b>RHB Securities (Thailand) PCL</b> 10th Floor, Sathorn Square Office Tower 98, North Sathorn Road, Silom Bangrak, Bangkok 10500 Thailand Tel : +(66) 2 088 9999 Fax : +(66) 2 088 9799