

Malaysia CPI, Mar 2024

Monthly headline & core inflation stayed sub-2%; cut 2024 headline CPI forecast to +2.4%

Services tax adjusted to 6%-8% from 6% on 1 Mar 2024, but headline inflation stayed at +1.8% YoY (Feb 2024: +1.8% YoY; MIBG Mar 2024E: +2.0% YoY; consensus: +2.0% YoY). Core inflation eased to +1.7% YoY (Feb 2024: +1.8% YoY; 1Q 2024: +1.8% YoY; 2023: +3.0%). With 1Q 2024 inflation of +1.7% YoY, we cut full-year 2024 forecast to +2.4% from +3.0% previously (2023: +2.5%), which still implies upside risk to monthly inflation ahead, mainly from the planned domestic fuel subsidy rationalization.

Sub-2% monthly headline and core inflation rates

Headline inflation rate remained at +1.8% YoY in Mar 2024 (Feb 2024: +1.8% YoY; 1Q 2024: +1.7% YoY; 2023: +2.5%). Housing, Water, Electricity, Gas & Other Fuels (HWEGOF) inflation rose to +3.0% YoY (Feb 2024: +2.7% YoY; 1Q 2024: +2.6% YoY; 2023: +1.7%), mainly attributed to higher water tariff starting 1 Feb 2024. There was a small uptick in Transport inflation to +1.3% YoY (Feb 2024: +1.2% YoY). Meanwhile, Food & Beverages eased (F&B - Mar 2024: +1.7% YoY; Feb 2024: +1.9% YoY) as other CPI components were broadly steady. Non-food inflation was up to +1.7% YoY (Feb 2024: +1.6% YoY). MoM, headline CPI rose +0.1% (Feb 2024: +0.5%).

While inflation rate ex-fuel prices edged up a little to +1.8% YoY (Feb 2024: +1.7% YoY; 1Q 2024: +1.7% YoY; 2023: +2.8%), core inflation eased to +1.7% YoY (Feb 2024: +1.8% YoY; 1Q 2024: +1.8% YoY; 2023: +3.0%). At the same time, despite the broadening of services tax rate from 6% to 6%-8% range effective 1 Mar 2024, the impact on Services inflation was muted (Mar 2024: +2.1% YoY; Feb 2024: +2.0% YoY; 1Q 2024: +2.0% YoY) as the tax rate on F&B and telecommunication services remains at 6%, and amid dissipating post-pandemic pent-up discretionary spending from economic opening e.g. restaurants & accommodation services; recreation sports & culture; furniture, household equipment & routine household maintenance (Fig. 15 & 16).

Cut our 2024 inflation rate forecast to +2.4% from +3.0% previously

With sub-2% 1Q 2024 headline inflation of +1.7% YoY, we cut the full-year 2024 inflation forecast to +2.4% from +3.0% previously (2023: +2.5%), which still point to upside risk to monthly inflation ahead, mainly from the planned implementation of targeted fuel (diesel & RON95 petrol) subsidy. We are also mindful of the likely impact of Budget 2024 subsidy and tax measures (Fig 20). The impact of the broadening the service tax base (to include logistics, maintenance & repair, non-financial brokerage & underwriting, and karaoke) and the tax rate (from 6% to 6%-8%) starting 1 Mar 2024 was muted (see Fig. 17-19 for comparison with previous episodes of services tax revision). In addition, chicken subsidies were discontinued from 1 Nov 2023, and from 1 Jan 2024, excise duty for sugar-sweetened beverages was raised from MYR0.40/l to MYR0.50/l, excise duty was imposed on chewable tobacco products at 5% + MYR27/kg as well as reduction in entertainment duty (FT-KL, Labuan and Putrajaya) from 25% to 10%, 5% and 0% respectively, according to categories.

Nevertheless, the upward revision in water tariff had caused the “water supply” component of CPI to jump +31.4% YoY and +2.1% MoM in Mar 2024 (Feb 2024: +28.7% YoY & 26.1% MoM; Fig. 8).

Analysts

Dr Zamros Dzulkafli
(603) 2082 6818
zamros.d@maybank-ib.com

Suhaimi Ilias
(603) 2297 8682
suhaimi_ilias@maybank-ib.com

Fatin Nabila Mohd Zaini
(603) 2297 8685
fatinnabila.mohdzaini@maybank-ib.com

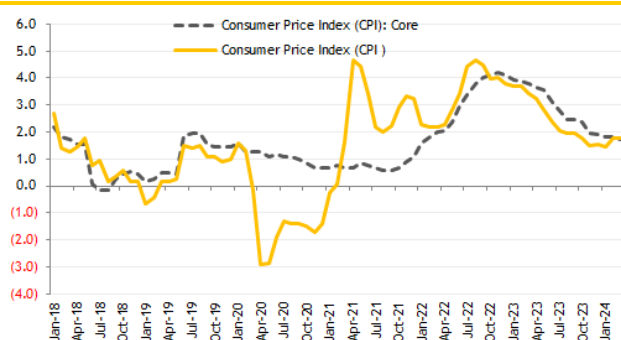
Figure 1: Consumer Price Index (CPI, 2010=100)

% YoY	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	1Q 2023	2Q 2023	3Q 2023	4Q 2023	1Q2024	2023
CPI	1.5	1.5	1.5	1.8	1.8	3.6	2.8	2.0	1.6	1.7	2.5
Food & Beverages	2.6	2.3	2.0	1.9	1.7	6.9	5.6	4.1	2.8	1.9	4.8
Alcoholic Beverages & Tobacco	0.6	0.6	0.4	0.4	0.5	0.7	0.7	0.6	0.6	0.5	0.6
Clothing & Footwear	0.0	0.0	(0.2)	(0.2)	(0.2)	0.5	0.4	0.1	0.0	(0.2)	0.3
Housing, Water, Electricity, Gas & Other Fuels (HWEGOF)	1.7	1.6	2.0	2.7	3.0	1.6	1.7	1.7	1.6	2.6	1.7
Furniture, Household Equipment & Routine Household Maintenance	1.4	1.4	1.0	0.9	0.9	3.3	2.6	1.7	1.4	0.9	2.3
Health	2.3	2.5	2.4	2.2	2.1	1.8	2.0	2.2	2.5	2.3	2.2
Transport	0.1	0.3	0.7	1.2	1.3	3.4	1.1	(0.2)	0.2	1.1	1.1
Information & Communication	(3.7)	(3.7)	(2.4)	(2.4)	(2.4)	(1.4)	(2.9)	(3.7)	(3.7)	(2.4)	(3.0)
Recreation, Sports & Culture	0.6	1.9	0.8	1.6	1.5	2.1	1.8	0.9	1.0	1.3	1.5
Education	2.0	2.0	1.7	1.5	1.5	1.6	1.8	2.0	2.0	1.5	1.9
Restaurants & Accom. Services	4.3	3.7	3.2	2.9	3.0	7.1	6.3	4.7	4.2	3.0	5.6
Personal care, social protection & Misc. Goods & Services	2.3	2.7	2.5	2.5	2.6	2.3	2.7	2.5	2.4	2.5	2.4
CPI without fuel	1.7	1.6	1.5	1.7	1.8	3.9	3.2	2.4	1.8	1.7	2.8
Core CPI	2.0	1.9	1.8	1.8	1.7	3.9	3.4	2.6	2.1	1.8	3.0

Note: Core CPI excludes nine of the most volatile items of fresh food (i.e. meat, fish, seafood, eggs, coconuts & nuts, vegetables, potatoes & other tubers, spices and fresh fruit) and administered (subsidized and controlled) prices of goods and services (includes cooking oils, flour & other cereal grains, sugar, alcoholic beverages & tobacco, water supply, electricity, gas, fuels & lubricants for personal transport equipment and transport services)

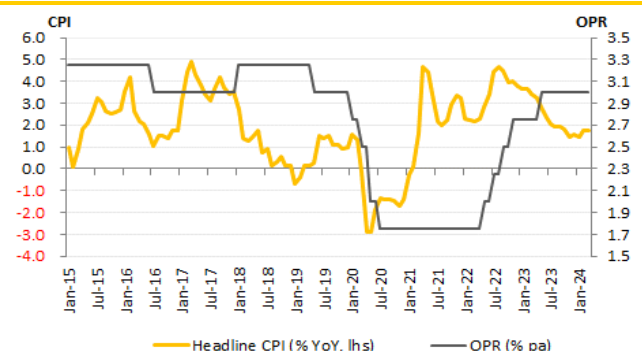
Source: Dept. of Statistics, CEIC

Figure 2: Headline & Core CPI (% YoY)



Sources: Dept. of Statistics, Maybank IBG Research

Figure 3: Headline inflation and OPR



Sources: CEIC, Maybank IBG Research

Easing F&B inflation

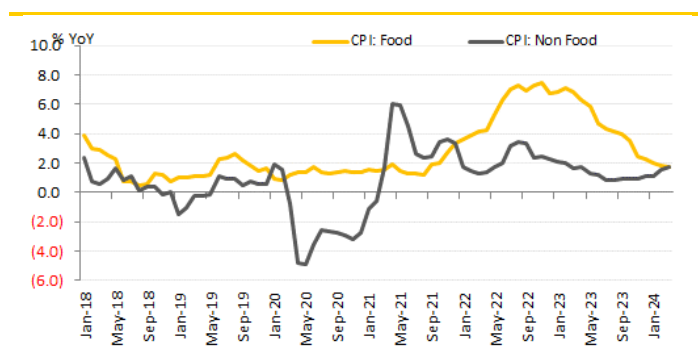
“Food & Beverages” (F&B) inflation eased to +1.7% YoY in Mar 2024 (Feb 2024: +1.9% YoY; 1Q 2024: +1.9% YoY) as “food away from home” inflation was unchanged (Mar 2024: +3.5% YoY; Feb 2024: +3.5% YoY) while “food at home” inflation moderated (Mar 2024: +0.3% YoY; Feb 2024: +0.5% YoY). On MoM basis, F&B costs were unchanged (Feb 2024: +0.3%). Overall, F&B’s inflation contributed to 31.9% of CPI in 1Q 2024 vs 55.2% in 2023 (Fig. 4 & Fig 7) and is a key component of CPI to watch going forward on the onset of El Nino and slight fluctuation in the global food price inflation while fertilizer and feedmeal costs stabilized though remained elevated (Fig. 9 & 10) with the recent uptick.

Figure 4: Inflation - “Food, Utilities/Energy, Fuel” vs “Others”

Period	% YoY		ppt contribution to CPI		% share of contribution to CPI	
	2023	1Q 2024	2023	1Q 2024	2023	1Q 2024
Headline Inflation	2.5	1.7	2.5	1.67	100.0	100.0
F&B	4.8	1.8	1.4	0.53	55.2	31.9
Electricity, Gas & Other Fuels	0.0	0.6	0.0	0.02	0.0	1.1
Transport - Fuels & Lubricants	(1.6)	0.4	(0.1)	0.02	(5.4)	1.3
Others	2.1	1.8	1.2	1.10	50.2	65.7

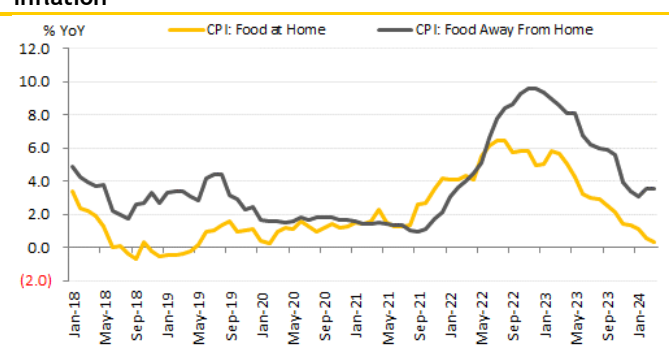
Source: Maybank IBG Research

Figure 5: “Food” vs. “Non-Food” inflation



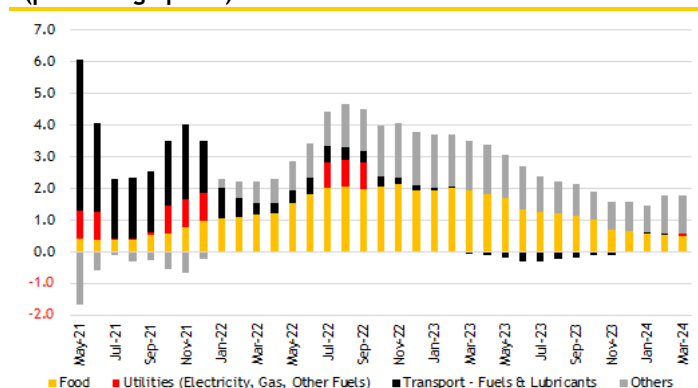
Sources: Dept. of Statistics, CEIC

Figure 6: “Food at Home” and “Food Away From Home” inflation



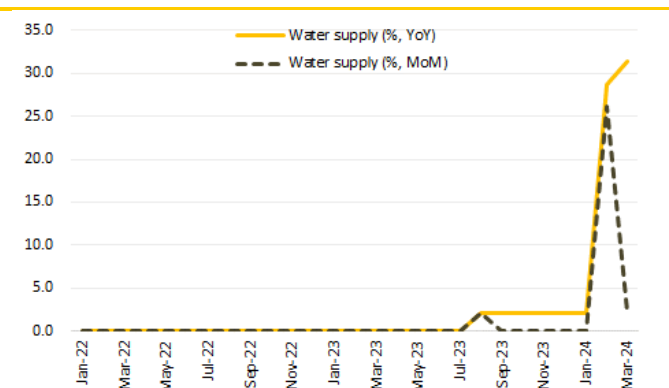
Sources: Dept. of Statistics, CEIC

Figure 7: Contributions to % YoY inflation rate, 2021-2024 (percentage point)



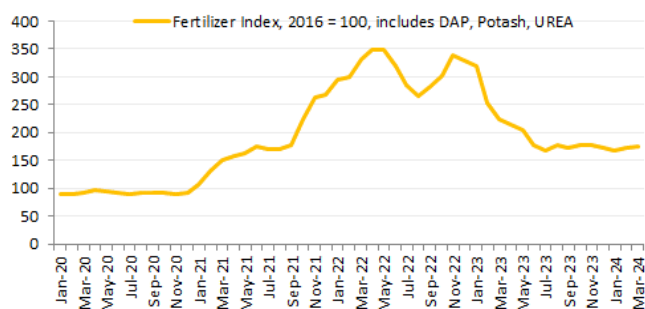
Sources: CEIC, Maybank IBG Research

Figure 8: Surged in ‘water supply’ inflation



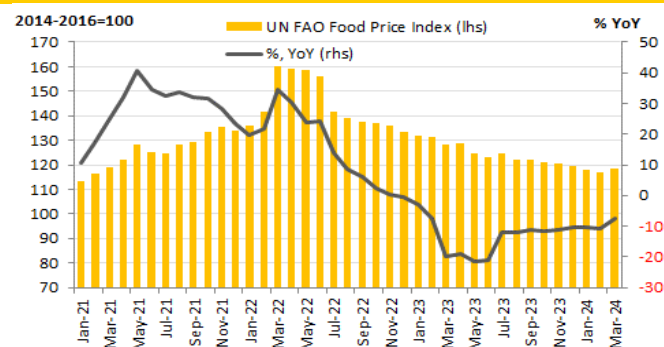
Sources: CEIC, Maybank IBG Research

Figure 9: Elevated global fertilizer price



Sources: IMF

Figure 10: Global food price index



Sources: FAO, CEIC

Small uptick in Transport cost

“Transport” cost posted a small uptick (Mar 2024: +1.3% YoY; Feb 2024: +1.2% YoY; 1Q 2024: +1.1% YoY; 2023: +1.1%) despite Brent price rose by +9.1% YoY in Mar 2024 (Feb 2024: +1.3% YoY). The domestic prices for RON95 and diesel were unchanged on YoY basis (Figs. 11-13) as prices of RON95 and diesel remain capped at MYR2.05/litre and MYR2.15/litre respectively since 10 Feb 2021. Meanwhile, RON97 price is “floated” i.e. unsubsidized and tracks global crude oil price, and currently at MYR3.47/l, higher than MYR3.35/l in Mar 2023. “Public Transport Services” inflation eased to +0.4% YoY in Mar 2024 (Feb 2024: +1.7% YoY) driven by “Passenger Transport by Air” (Mar 2024: -3.5% YoY; Feb 2024: +4.6% YoY).

Figure 11: Crude oil price, domestic retail fuel prices, transport cost inflation and headline inflation (period average, % YoY)

Period	Brent Crude	RON95	RON97	Diesel	Transport Inflation	Headline Inflation
2Q 2023	(30.6)	0.0	(21.0)	0.0	1.1	2.8
3Q 2023	(13.0)	0.0	(23.4)	0.0	(0.2)	2.0
4Q 2023	(5.0)	0.0	(9.1)	0.0	0.2	1.6
1Q 2024	2.5	0.0	3.6	0.0	1.1	1.7
Jan 2024	(3.0)	0.0	3.6	0.0	0.7	1.5
Feb 2024	1.3	0.0	3.6	0.0	1.2	1.8
Mar 2024	9.1	0.0	3.6	0.0	1.3	1.8

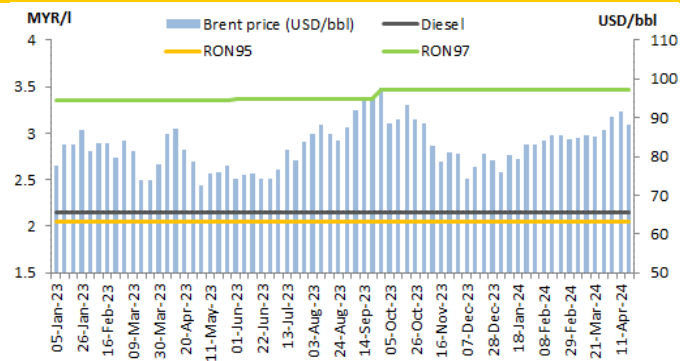
Source: Bloomberg, CEIC

Figure 12: Average monthly domestic fuel prices (MYR/litre)

Month	RON95 Petrol	RON97 Petrol	Diesel
Jan 2023	2.05	3.35	2.15
Feb 2023	2.05	3.35	2.15
Mar 2023	2.05	3.35	2.15
Jan 2024	2.05	3.47	2.15
Feb 2024	2.05	3.47	2.15
Mar 2024	2.05	3.47	2.15
Apr 2024 (MTD)	2.05	3.47	2.15

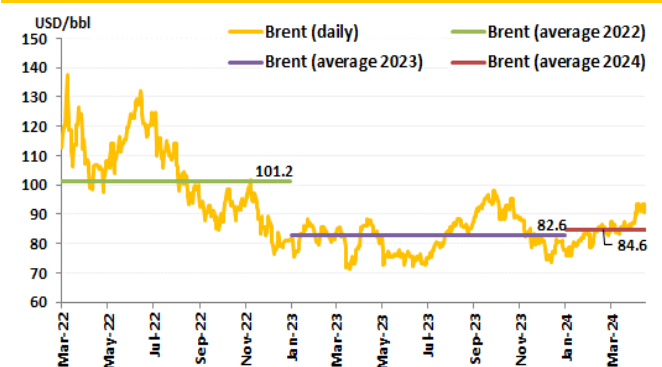
Source: Bloomberg, Ministry of Finance and media reports

Figure 13: RON97, RON95, Diesel and Brent crude oil (weekly prices)



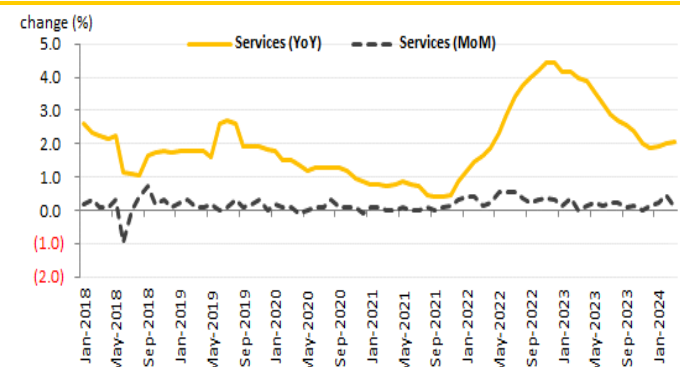
Sources: Bloomberg, Ministry of Finance and media reports

Figure 14: Brent crude oil price



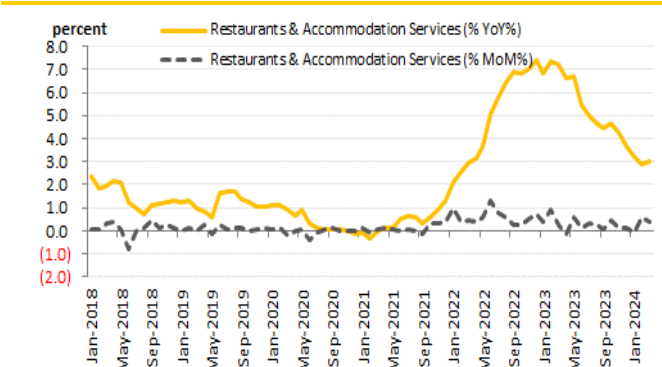
Sources: Bloomberg

Figure 15: “Services” inflation



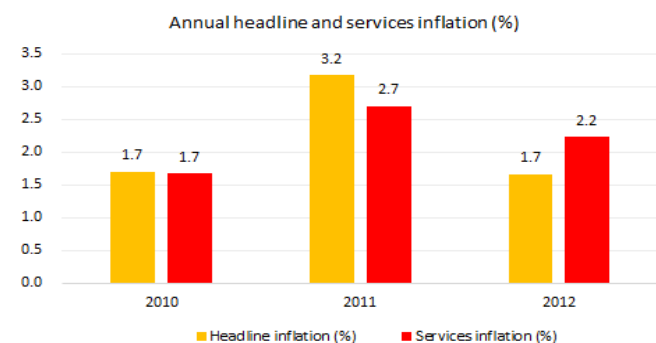
Sources: Dept. of Statistics, CEIC

Figure 16: “Restaurants and Accommodation Services” inflation



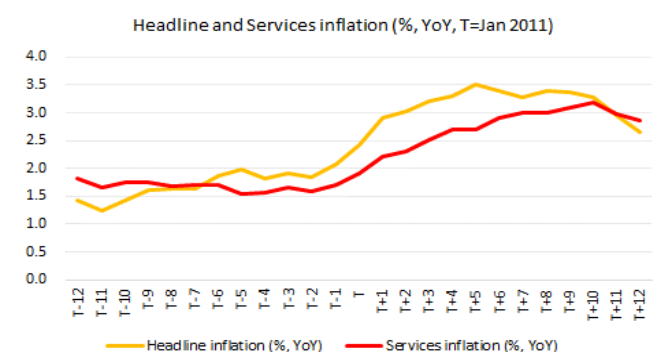
Sources: Dept. of Statistics, CEIC

Figure 17: Headline and services inflation (2010-2012); service tax was raised from 5% to 6% on 1 Jan 2011



Sources: Dept. of Statistics, CEIC

Figure 18: Monthly headline and services inflation (T=Jan 2011)



Sources: Dept. of Statistics, CEIC

Figure 19: Services inflation during changes in services tax rate and introduction of GST

Month	T = Jan 2011 ¹		T = Apr 2015 ²		T = Sep 2018 ³		T = Mar 2024 ⁴	
	%, MoM	%, YoY	%, MoM	%, YoY	%, MoM	%, YoY	%, MoM	%, YoY
T-5	0.20	1.54	0.4	3.1	0.1	2.2	0.1	2.4
T-4	0.10	1.55	0.1	2.9	0.3	2.2	0.0	2.0
T-3	0.10	1.66	0.1	2.8	(1.0)	1.2	0.1	1.9
T-2	0.20	1.58	0.6	2.8	0.0	1.1	0.2	1.9
T-1	0.20	1.69	0.1	2.7	0.4	1.1	0.4	2.0
T	0.40	1.91	1.0	3.5	0.7	1.6	0.1	2.1
T+1	0.49	2.21	0.6	3.7	0.2	1.7	tba	tba
T+2	0.20	2.31	0.2	3.8	0.3	1.8	tba	tba
T+3	0.20	2.51	0.3	4.0	0.1	1.7	tba	tba
T+4	0.39	2.71	0.4	4.1	0.2	1.8	tba	tba
T+5	0.10	2.70	0.1	4.1	0.3	1.8	tba	tba

Source: CEIC, MIBG

Figure 20: Measures under Budget 2024 with possible influence on inflation forecast for 2024

Measures	Quantum	Effective date	Note
Chicken subsidy removed	Discontinued	1 Nov 2023	MYR3.7b chicken and egg subsidies since 2022
Eggs subsidy reduction	N/A	N/A	MYR3.7b chicken and egg subsidies since 2022
R95 and diesel subsidy reduction	N/A	N/A	Prices are currently fixed at MYR2.05 for R95 and MYR2.15 for diesel
Services tax	Broadened from 6% to 6%-8%	1 Mar 2024	Exclude services in food & beverage, telecommunication. Karaoke and logistics (warehousing services, freight shipping and courier services) are now within the taxable scope.
High Value Goods Tax (HVGT) ⁵	Between 5%-10%	1 May 2024	Government will enact a new legislation to implement HVGT on certain high value goods such as jewellery and watches
Excise duty for sugar sweetened beverages	Raised from MYR0.40/l to MYR0.50/l	1 Jan 2024	Including carbonated drink containing added sugar or other sweetening matter or flavoured & other non-alcoholic beverages, flavoured milk-based beverages containing lactose, fruit juices & vegetable juices whether or not containing added sugar or other sweetening matter
Excise duty on chewable tobacco products	5% + MYR27/kg	1 Jan 2024	Currently, excise duty is not applicable to chewing tobacco
Entertainment duty (FT-KL, Labuan and Putrajaya)	Reduced from 25% to 10%	1 Jan 2024-31 Dec 2028	Stage performance by international artistes/light show/circus; movie screening (cinema)/theatre; exhibition/zoo/ aquarium; sports events/e-sports/bowling/snooker/pool/billiards/karaoke
Entertainment duty (FT-KL, Labuan and Putrajaya)	Reduced from 25% to 5%	1 Jan 2024-31 Dec 2028	Theme park/family recreation center/indoor game center/simulator
Entertainment duty (FT-KL, Labuan and Putrajaya)	Reduced from 25% to 0%	1 Jan 2024-31 Dec 2028	Stage performance by local artistes

Source: Budget 2024

¹ Services tax was raised from 5.0% to 6.0% on 1 Jan 2011.² Goods and Services Tax (GST) was introduced on 1 Apr 2015 at 6.0%.³ Services tax was re-introduced on 1 Sep 2018 at 6.0%.⁴ Services tax broadened and the rate raised from 6.0% to 6.0%-8.0%.⁵ The Low Value Goods Tax (LVGT) started on 1 Jan 2024 at 10% for goods bought from overseas online worth MYR500 and below.

Figure 21: Global - Consumer Price Index (% YoY)

	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	1Q2024	2023
US	3.7	3.7	3.2	3.1	3.3	3.1	3.2	3.5	3.2	4.1
Eurozone	5.3	4.3	2.9	2.4	2.9	2.8	2.6	2.4	2.6	5.5
Japan	3.1	3.0	3.3	2.9	2.6	2.2	2.8	2.8	2.6	3.3
Germany	6.1	4.5	3.7	3.2	3.7	2.9	2.5	2.2	2.5	6.0
UK	6.7	6.7	4.6	3.9	4.0	4.0	3.4	3.2	3.5	7.4
OECD	6.7	6.5	5.9	5.8	6.0	5.7	5.7	-	5.7	6.9
China	0.1	0.0	(0.2)	(0.5)	(0.3)	(0.8)	0.7	0.1	0.0	0.2
India	6.8	5.0	4.9	5.6	5.7	5.1	5.1	4.9	5.0	5.7
Russia	5.2	6.0	6.7	7.5	7.4	7.4	7.7	7.7	7.6	5.9
Brazil	4.6	5.2	4.8	4.7	4.6	4.5	4.5	3.9	4.3	4.6
S. Korea	3.4	3.7	3.8	3.3	3.2	2.8	3.1	3.1	3.0	3.6
Taiwan	2.3	2.5	2.7	2.6	2.7	2.3	2.3	2.2	2.2	2.5
Hong Kong	1.7	2.0	2.7	2.6	2.4	1.7	2.2	-	2.0	2.1
Singapore	4.0	4.1	4.7	3.6	3.7	2.9	3.4	2.7	3.0	4.8
Indonesia	3.3	2.3	2.6	3.0	2.8	2.6	2.8	3.0	2.8	3.7
Thailand	0.9	0.3	(0.3)	(0.4)	(0.8)	(1.1)	(0.8)	(0.5)	(0.8)	1.3
Malaysia	2.0	1.9	1.8	1.5	1.5	1.5	1.8	1.8	1.7	2.5
Philippines	5.3	6.1	4.9	4.1	3.9	2.8	3.4	3.7	3.3	6.0
Vietnam	3.0	3.7	3.6	3.5	3.6	3.4	4.0	4.0	3.8	3.3

Sources: Bloomberg, CEIC, IMF, Maybank IBG Research

Figure 22: Global - Core Consumer Price Index (% YoY)

	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	1Q 2024	2023
US	4.4	4.1	4.0	4.0	3.9	3.9	3.8	3.8	3.8	4.8
Eurozone	5.3	4.5	4.2	3.6	3.4	3.3	3.1	2.9	3.1	5.0
Japan	2.8	2.7	2.8	2.8	2.8	2.6	2.5	2.2	2.4	2.6
UK	6.2	6.1	5.7	5.1	5.1	5.1	4.8	4.2	4.6	6.2
OECD	6.8	6.6	6.5	6.3	6.7	6.6	6.4	-	6.5	7.0
China	0.5	0.7	0.7	0.4	0.5	0.4	1.1	0.7	0.7	0.4
S. Korea	3.9	3.8	3.5	3.2	3.1	2.6	2.6	2.4	2.5	4.0
Taiwan	2.6	2.5	2.5	2.4	2.4	1.6	2.9	2.1	2.2	2.6
Singapore	3.4	3.0	3.3	3.2	3.3	3.1	3.6	3.1	3.3	4.2
Indonesia	2.2	2.0	1.9	1.9	1.8	1.7	1.7	1.8	1.7	2.5
Thailand	0.8	0.6	0.7	0.6	0.6	0.5	0.4	0.4	0.4	1.3
Malaysia	2.5	2.5	2.4	2.0	1.9	1.8	1.8	1.7	1.8	3.0
Philippines	6.1	5.9	5.3	4.7	4.4	3.8	3.6	3.4	3.6	6.6

Sources: Bloomberg, CEIC, Maybank IBG Research

Research Offices

ECONOMICS

Suhaimi ILIAS
Chief Economist
Malaysia | Philippines | Global
(603) 2297 8682
suhaimi_iliass@maybank-ib.com

CHUA Hak Bin
Regional Thematic Macroeconomist
(65) 6231 5830
chuahb@maybank.com

Dr Zamros DZULKAFLI
Malaysia | Philippines
(603) 2082 6818
zamros.d@maybank-ib.com

Erica TAY
China | Thailand
(65) 6231 5844
erica.tay@maybank.com

Brian LEE Shun Rong
Indonesia | Singapore | Vietnam
(65) 6231 5846
brian.lee1@maybank.com

Fatin Nabila MOHD ZAINI
(603) 2297 8685
fatinnabila.mohdzaini@maybank-ib.com

Luong Thu Huong
(65) 6231 8467
hana.thuhoang@maybank.com

LEE Jia Yu
(65) 6231 5843
jiayu.lee@maybank.com

FX

Saktiandi SUPAAT
Head of FX Research
(65) 6320 1379
saktiandi@maybank.com

Fiona LIM
(65) 6320 1374
fionalim@maybank.com

Alan LAU, CFA
(65) 6320 1378
alanlau@maybank.com

Shaun LIM
(65) 6320 1371
shaunlim@maybank.com

STRATEGY

Anand PATHMAKANTHAN
ASEAN
(603) 2297 8783
anand.pathmakanthan@maybank-ib.com

FIXED INCOME

Winston PHOON, FCA
Head of Fixed Income
(65) 6340 1079
winsonphoon@maybank.com

SE THO Mun Yi, CFA
(603) 2074 7606
munyi.st@maybank-ib.com

PORTFOLIO STRATEGY

ONG Seng Yeow
(65) 6231 5839
ongsengyeow@maybank.com

MIBG SUSTAINABILITY RESEARCH

Jigar SHAH
Head of Sustainability Research
(91) 22 4223 2632
jigars@maybank.com

Neerav DALAL
(91) 22 4223 2606
neerav@maybank.com

REGIONAL EQUITIES

Anand PATHMAKANTHAN
Head of Regional Equity Research
(603) 2297 8783
anand.pathmakanthan@maybank-ib.com

WONG Chew Hann, CA
Head of ASEAN Equity Research
(603) 2297 8686
wchewh@maybank-ib.com

MALAYSIA

WONG Chew Hann, CA Head of Research
(603) 2297 8686
wchewh@maybank-ib.com
• Equity Strategy
• Non-Bank Financials (stock exchange)
• Construction & Infrastructure

Anand PATHMAKANTHAN
(603) 2297 8783
anand.pathmakanthan@maybank-ib.com
• Equity Strategy

Desmond CH'NG, BFP, FCA
(603) 2297 8680
desmond.chng@maybank-ib.com
• Banking & Finance

ONG Chee Ting, CA
(603) 2297 8678
ct.ong@maybank-ib.com
• Plantations - Regional

YIN Shao Yang, CPA
(603) 2297 8916
samuel.y@maybank-ib.com
• Gaming - Regional
• Media • Aviation • Non-Bank Financials

TAN Chi Wei, CFA
(603) 2297 8690
chiwei.t@maybank-ib.com
• Power • Telcos

WONG Wei Sum, CFA
(603) 2297 8679
weisum@maybank-ib.com
• Property • Glove

Jade TAM
(603) 2297 8687
jade.tam@maybank-ib.com
• Consumer Staples & Discretionary

Nur Farah SYIFAA
(603) 2297 8675
nurfarahsyifaa.mohamadfuad@maybank-ib.com
• Renewable Energy • REITs

LOH Yan Jin
(603) 2297 8687
lohyanjin.loh@maybank-ib.com
• Ports • Automotive • Technology (EMS)

Jeremie YAP
(603) 2297 8688
jeremie.yap@maybank-ib.com
• Oil & Gas • Petrochemicals

Arvind JAYARATNAM
(603) 2297 8692
arvind.jayaratnam@maybank.com
• Technology (Semicon & Software)

TEE Sze Chiah Head of Retail Research
(603) 2082 6858
szechiah.t@maybank-ib.com
• Retail Research

Nik Ihsan RAJA ABDULLAH, MSTA, CFTe
(603) 2297 8694
nikmohdihsan.ra@maybank-ib.com
• Chartist

Amirah AZMI
(603) 2082 8769
amirah.azmi@maybank-ib.com
• Retail Research

SINGAPORE

Thilan WICKRAMASINGHE Head of Research
(65) 6231 5840
thilanw@maybank.com
• Banking & Finance - Regional
• Consumer

Eric ONG
(65) 6231 5849
ericong@maybank.com
• Healthcare • Transport • SMIDs

LI Jialin
(65) 6231 5845
jialin.li@maybank.com
• REITs

Jarick SEET
(65) 6231 5848
jarick.seet@maybank.com
• Technology

Krishna GUHA
(65) 6231 5842
krishna.guha@maybank.com
• REITs • Industrials

Hussaini SAIREE
(65) 6231 5837
hussaini.saifree@maybank.com
• Telcos

PHILIPPINES

Daphne SZE
(63) 2 5322 5008
daphne.sze@maybank.com
• Consumer

Raffy MENDOZA
(63) 2 5322 5010
joseraphael.mendoza@maybank.com
• Property • REITs • Gaming

THAILAND

Chak REUNGSINPINYA Head of Research
(66) 2658 5000 ext 1399
chak.reungsinpinya@maybank.com
• Strategy • Energy

Jesada TECHAHUSDIN, CFA
(66) 2658 5000 ext 1395
jesada.t@maybank.com
• Banking & Finance

Wasu MATTANAPOTCHANART
(66) 2658 5000 ext 1392
wasu.m@maybank.com
• Telcos • Technology • REITs • Property
• Consumer Discretionary

Surachai PRAMUALCHAROENKIT
(66) 2658 5000 ext 1470
surachai.p@maybank.com
• Auto • Conmat • Contractor • Steel

Suttatip PEERASUB
(66) 2658 5000 ext 1430
suttatip.p@maybank.com
• Food & Beverage • Commerce

Natchaphon RODJANAROWAN
(66) 2658 5000 ext 1393
natchaphon.rodjanarowan@maybank.com
• Utilities

Boonyakorn AMORNSANK
(66) 2658 5000 ext 1394
boonyakorn.amornsank@maybank.com
• Services

INDONESIA

Jefffrosenberg CHENLIM Head of Research
(62) 21 8066 8680
jefffrosenberg.lim@maybank.com
• Strategy • Banking & Finance • Property

Willy GOUTAMA
(62) 21 8066 8500
willy.goutama@maybank.com
• Consumer

Etta Rusdiana PUTRA
(62) 21 8066 8683
etta.putra@maybank.com
• Telcos • Internet • Construction

William Jefferson W
(62) 21 8066 8563
william.jefferson@maybank.com
• Property • Materials

Paulina MARGARETA
(62) 21 8066 8690
paulina.tjoa@maybank.com
• Autos

Adi WICAKSONO
(62) 21 8066 8686
adi.wicaksono@maybank.com
• Plantations

Satriawan HARYONO, CEWA, CTA
(62) 21 8066 8682
satriawan@maybank.com
• Chartist

VIETNAM

Quan Trong Thanh Head of Research
(84 28) 44 555 888 ext 8184
thanhh.quan@maybank.com
• Strategy • Banks

Hoang Huy, CFA
(84 28) 44 555 888 ext 8181
hoanghuy@maybank.com
• Strategy • Technology

Le Nguyen Nhat Chuyen
(84 28) 44 555 888 ext 8082
chuyen.le@maybank.com
• Oil & Gas • Logistics

Nguyen Thi Sony Tra Mi
(84 28) 44 555 888 ext 8084
trami.nguyen@maybank.com
• Consumer Discretionary

Tran Thi Thanh Nhan
(84 28) 44 555 888 ext 8088
nhan.tran@maybank.com
• Consumer Staples

Nguyen Le Tuan Loi
(84 28) 44 555 888 ext 8182
loi.nguyen@maybank.com
• Property

Nguyen Thanh Hai
(84 28) 44 555 888 ext 8081
thanhhai.nguyen@maybank.com
• Industrials

Nguyen Thanh Lam
(84 28) 44 555 888 ext 8086
thanhlam.nguyen@maybank.com
• Retail Research

APPENDIX I: TERMS FOR PROVISION OF REPORT, DISCLAIMERS AND DISCLOSURES

DISCLAIMERS

This research report is prepared for general circulation and for information purposes only and under no circumstances should it be considered or intended as an offer to sell or a solicitation of an offer to buy the securities referred to herein. Investors should note that values of such securities, if any, may fluctuate and that each security's price or value may rise or fall. Opinions or recommendations contained herein are in form of technical ratings and fundamental ratings. Technical ratings may differ from fundamental ratings as technical valuations apply different methodologies and are purely based on price and volume-related information extracted from the relevant jurisdiction's stock exchange in the equity analysis. Accordingly, investors' returns may be less than the original sum invested. Past performance is not necessarily a guide to future performance. This report is not intended to provide personal investment advice and does not take into account the specific investment objectives, the financial situation and the particular needs of persons who may receive or read this report. Investors should therefore seek financial, legal and other advice regarding the appropriateness of investing in any securities or the investment strategies discussed or recommended in this report.

The information contained herein has been obtained from sources believed to be reliable but such sources have not been independently verified by Maybank Investment Bank Berhad, its subsidiary and affiliates (collectively, "Maybank IBG") and consequently no representation is made as to the accuracy or completeness of this report by Maybank IBG and it should not be relied upon as such. Accordingly, Maybank IBG and its officers, directors, associates, connected parties and/or employees (collectively, "Representatives") shall not be liable for any direct, indirect or consequential losses or damages that may arise from the use or reliance of this report. Any information, opinions or recommendations contained herein are subject to change at any time, without prior notice.

This report may contain forward looking statements which are often but not always identified by the use of words such as "anticipate", "believe", "estimate", "intend", "plan", "expect", "forecast", "predict" and "project" and statements that an event or result "may", "will", "can", "should", "could" or "might" occur or be achieved and other similar expressions. Such forward looking statements are based on assumptions made and information currently available to us and are subject to certain risks and uncertainties that could cause the actual results to differ materially from those expressed in any forward looking statements. Readers are cautioned not to place undue relevance on these forward-looking statements. Maybank IBG expressly disclaims any obligation to update or revise any such forward looking statements to reflect new information, events or circumstances after the date of this publication or to reflect the occurrence of unanticipated events.

Maybank IBG and its officers, directors and employees, including persons involved in the preparation or issuance of this report, may, to the extent permitted by law, from time to time participate or invest in financing transactions with the issuer(s) of the securities mentioned in this report, perform services for or solicit business from such issuers, and/or have a position or holding, or other material interest, or effect transactions, in such securities or options thereon, or other investments related thereto. In addition, it may make markets in the securities mentioned in the material presented in this report. One or more directors, officers and/or employees of Maybank IBG may be a director of the issuers of the securities mentioned in this report to the extent permitted by law.

This report is prepared for the use of Maybank IBG's clients and may not be reproduced, altered in any way, transmitted to, copied or distributed to any other party in whole or in part in any form or manner without the prior express written consent of Maybank IBG and Maybank IBG and its Representatives accepts no liability whatsoever for the actions of third parties in this respect.

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. This report is for distribution only under such circumstances as may be permitted by applicable law. The securities described herein may not be eligible for sale in all jurisdictions or to certain categories of investors. Without prejudice to the foregoing, the reader is to note that additional disclaimers, warnings or qualifications may apply based on geographical location of the person or entity receiving this report.

Malaysia

Opinions or recommendations contained herein are in the form of technical ratings and fundamental ratings. Technical ratings may differ from fundamental ratings as technical valuations apply different methodologies and are purely based on price and volume-related information extracted from Bursa Malaysia Securities Berhad in the equity analysis.

Singapore

This report has been produced as of the date hereof and the information herein may be subject to change. Maybank Research Pte. Ltd. ("MRPL") in Singapore has no obligation to update such information for any recipient. For distribution in Singapore, recipients of this report are to contact MRPL in Singapore in respect of any matters arising from, or in connection with, this report. If the recipient of this report is not an accredited investor, expert investor or institutional investor (as defined under Section 4A of the Singapore Securities and Futures Act), MRPL shall be legally liable for the contents of this report, with such liability being limited to the extent (if any) as permitted by law.

Thailand

Except as specifically permitted, no part of this presentation may be reproduced or distributed in any manner without the prior written permission of Maybank Securities (Thailand) Public Company Limited. Maybank Securities (Thailand) Public Company Limited ("MST") accepts no liability whatsoever for the actions of third parties in this respect.

Due to different characteristics, objectives and strategies of institutional and retail investors, the research products of MST Institutional and Retail Research departments may differ in either recommendation or target price, or both. MST reserves the rights to disseminate MST Retail Research reports to institutional investors who have requested to receive it. If you are an authorised recipient, you hereby tacitly acknowledge that the research reports from MST Retail Research are first produced in Thai and there is a time lag in the release of the translated English version.

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 may be changed after that date. MST does not confirm nor certify the accuracy of such survey result.

The disclosure of the Anti-Corruption Progress Indicators of a listed company on the Stock Exchange of Thailand, which is assessed by Thaipat Institute, is made in order to comply with the policy and sustainable development plan for the listed companies of the Office of the Securities and Exchange Commission. Thaipat Institute made this assessment based on the information received from the listed company, as stipulated in the form for the assessment of Anti-corruption which refers to the Annual Registration Statement (Form 56-1), Annual Report (Form 56-2), or other relevant documents or reports of such listed company. The assessment result is therefore made from the perspective of Thaipat Institute that is a third party. It is not an assessment of operation and is not based on any inside information. Since this assessment is only the assessment result as of the date appearing in the assessment result, it may be changed after that date or when there is any change to the relevant information. Nevertheless, MST does not confirm, verify, or certify the accuracy and completeness of the assessment result.

US

This third-party research report is distributed in the United States ("US") to Major US Institutional Investors (as defined in Rule 15a-6 under the Securities Exchange Act of 1934, as amended) only by Wedbush Securities Inc. ("Wedbush"), a broker-dealer registered in the US (registered under Section 15 of the Securities Exchange Act of 1934, as amended). All responsibility for the distribution of this report by Wedbush in the US shall be borne by Wedbush. This report is not directed at you if Wedbush is prohibited or restricted by any legislation or regulation in any jurisdiction from making it available to you. You should satisfy yourself before reading it that Wedbush is permitted to provide research material concerning investments to you under relevant legislation and regulations. All U.S. persons receiving and/or accessing this report and wishing to effect transactions in any security mentioned within must do so with: Wedbush Securities Inc. 1000 Wilshire Blvd, Los Angeles, California 90017, +1 (646) 604-4232 and not with the issuer of this report.

UK

This document is being distributed by Maybank Securities (London) Ltd ("MSUK") which is authorized and regulated, by the Financial Conduct Authority and is for Informational Purposes only. This document is not intended for distribution to anyone defined as a Retail Client under the Financial Services and Markets Act 2000 within the UK. Any inclusion of a third party link is for the recipients convenience only, and that the firm does not take any responsibility for its comments or accuracy, and that access to such links is at the individuals own risk. Nothing in this report should be considered as constituting legal, accounting or tax advice, and that for accurate guidance recipients should consult with their own independent tax advisers.

DISCLOSURES

Legal Entities Disclosures

Malaysia: This report is issued and distributed in Malaysia by Maybank Investment Bank Berhad (15938- H) which is a Participating Organization of Bursa Malaysia Berhad and a holder of Capital Markets and Services License issued by the Securities Commission in Malaysia. **Singapore:** This report is distributed in Singapore by MRPL (Co. Reg No 198700034E) which is regulated by the Monetary Authority of Singapore. **Indonesia:** PT Maybank Sekuritas Indonesia ("PTMSI") (Reg. No. KEP-251/PM/1992) is a member of the Indonesia Stock Exchange and is regulated by the Financial Services Authority (Indonesia). **Thailand:** MST (Reg. No.0107545000314) is a member of the Stock Exchange of Thailand and is regulated by the Ministry of Finance and the Securities and Exchange Commission. **Philippines:** Maybank Securities Inc (Reg. No.01-2004-00019) is a member of the Philippines Stock Exchange and is regulated by the Securities and Exchange Commission. **Vietnam:** Maybank Securities Limited (License Number: 117/GP-UBCK) is licensed under the State Securities Commission of Vietnam. **Hong Kong:** MIB Securities (Hong Kong) Limited (Central Entity No AAD284) is regulated by the Securities and Futures Commission. **India:** MIB Securities India Private Limited ("MIBSI") is a participant of the National Stock Exchange of India Limited and the Bombay Stock Exchange and is regulated by Securities and Exchange Board of India ("SEBI") (Reg. No. INZ000010538). MIBSI is also registered with SEBI as Category 1 Merchant Banker (Reg. No. INM 000011708) and as Research Analyst (Reg No: INH000000057). **UK:** Maybank Securities (London) Ltd (Reg No 2377538) is authorized and regulated by the Financial Conduct Authority.

Disclosure of Interest

Malaysia: Maybank IBG and its Representatives may from time to time have positions or be materially interested in the securities referred to herein and may further act as market maker or may have assumed an underwriting commitment or deal with such securities and may also perform or seek to perform investment banking services, advisory and other services for or relating to those companies.

Singapore: As of 25 April 2024, Maybank Research Pte. Ltd. and the covering analyst do not have any interest in any companies recommended in this research report.

Thailand: MST may have a business relationship with or may possibly be an issuer of derivative warrants on the securities /companies mentioned in the research report. Therefore, Investors should exercise their own judgment before making any investment decisions. MST, its associates, directors, connected parties and/or employees may from time to time have interests and/or underwriting commitments in the securities mentioned in this report.

Hong Kong: As of 25 April 2024, MIB Securities (Hong Kong) Limited and the authoring analyst do not have any interest in any companies recommended in this research report.

India: As of 25 April 2024, and at the end of the month immediately preceding the date of publication of the research report, MIBSI, authoring analyst or their associate / relative does not hold any financial interest or any actual or beneficial ownership in any shares or having any conflict of interest in the subject companies except as otherwise disclosed in the research report. In the past twelve months MIBSI and authoring analyst or their associate did not receive any compensation or other benefits from the subject companies or third party in connection with the research report on any account what so ever except as otherwise disclosed in the research report.

Maybank IBG may have, within the last three years, served as manager or co-manager of a public offering of securities for, or currently may make a primary market in issues of, any or all of the entities mentioned in this report or may be providing, or have provided within the previous 12 months, significant advice or investment services in relation to the investment concerned or a related investment and may receive compensation for the services provided from the companies covered in this report.

OTHERS

Analyst Certification of Independence

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

Reminder

Structured securities are complex instruments, typically involve a high degree of risk and are intended for sale only to sophisticated investors who are capable of understanding and assuming the risks involved. The market value of any structured security may be affected by changes in economic, financial and political factors (including, but not limited to, spot and forward interest and exchange rates), time to maturity, market conditions and volatility and the credit quality of any issuer or reference issuer. Any investor interested in purchasing a structured product should conduct its own analysis of the product and consult with its own professional advisers as to the risks involved in making such a purchase.

No part of this material may be copied, photocopied or duplicated in any form by any means or redistributed without the prior consent of Maybank IBG.

Definition of Ratings

Maybank IBG Research uses the following rating system

BUY	Return is expected to be above 10% in the next 12 months (including dividends)
HOLD	Return is expected to be between 0% to 10% in the next 12 months (including dividends)
SELL	Return is expected to be below 0% in the next 12 months (including dividends)

Applicability of Ratings

The respective analyst maintains a coverage universe of stocks, the list of which may be adjusted according to needs. Investment ratings are only applicable to the stocks which form part of the coverage universe. Reports on companies which are not part of the coverage do not carry investment ratings as we do not actively follow developments in these companies.

 Malaysia

Maybank Investment Bank Berhad
(A Participating Organisation of
Bursa Malaysia Securities Berhad)
33rd Floor, Menara Maybank,
100 Jalan Tun Perak,
50050 Kuala Lumpur
Tel: (603) 2059 1888;
Fax: (603) 2078 4194

Stockbroking Business:
Level 8, Tower C, Dataran Maybank,
No.1, Jalan Maarof
59000 Kuala Lumpur
Tel: (603) 2297 8888
Fax: (603) 2282 5136

 Singapore

Maybank Securities Pte Ltd
Maybank Research Pte Ltd
50 North Canal Road
Singapore 059304

Tel: (65) 6336 9090

 Indonesia

PT Maybank Sekuritas Indonesia
Sentral Senayan III, 22nd Floor
Jl. Asia Afrika No. 8
Gelora Bung Karno, Senayan
Jakarta 10270, Indonesia

Tel: (62) 21 2557 1188

Fax: (62) 21 2557 1189

 Thailand

Maybank Securities (Thailand) PCL
999/9 The Offices at Central World,
20th - 21st Floor,
Rama 1 Road Pathumwan,
Bangkok 10330, Thailand

Tel: (66) 2 658 6817 (sales)

Tel: (66) 2 658 6801 (research)

 London

Maybank Securities (London) Ltd
PNB House
77 Queen Victoria Street
London EC4V 4AY, UK

Tel: (44) 20 7332 0221

Fax: (44) 20 7332 0302

 India

MIB Securities India Pte Ltd
1101, 11th floor, A Wing, Kanakia
Wall Street, Chakala, Andheri -
Kurla Road, Andheri East,
Mumbai City - 400 093, India

Tel: (91) 22 6623 2600

Fax: (91) 22 6623 2604

 Vietnam

Maybank Securities Limited
Floor 10, Pearl 5 Tower,
5 Le Quy Don Street,
Vo Thi Sau Ward, District 3
Ho Chi Minh City, Vietnam

Tel : (84) 28 44 555 888

Fax : (84) 28 38 271 030

 Hong Kong

**MIB Securities (Hong Kong)
Limited**
28/F, Lee Garden Three,
1 Sunning Road, Causeway Bay,
Hong Kong

Tel: (852) 2268 0800

Fax: (852) 2877 0104

 Philippines

Maybank Securities Inc
17/F, Tower One & Exchange
Plaza
Ayala Triangle, Ayala Avenue
Makati City, Philippines 1200

Tel: (63) 2 8849 8888

Fax: (63) 2 8848 5738

 Sales Trading
Indonesia

Helen Widjaja
helen.widjaja@maybank.com
(62) 21 2557 1188

Philippines

Keith Roy
keith_roy@maybank.com
Tel: (63) 2 848-5288

London

Greg Smith
gsmith@maybank.com
Tel: (44) 207-332-0221

India

Sanjay Makhija
sanjaymakhija@maybank.com
Tel: (91)-22-6623-2629

www.maybank.com/investment-banking
www.maybank-keresearch.com