

Equity Research April 8, 2025

(Maintain)			Buy			
Target Price	Target Price VIDR2,600					
Share Price (3	/27/25, IDR)	2,050			
Expected Ret	urn		26.8%			
NP (25F, IDRb	on)		3,389			
Consensus N	P (25F, IDRb	on)	4,411			
EPS Growth (2	25F, %)		7.5			
Market EPS G	rowth (25F,	%)	23.9			
P/E (25F, x)			25.1			
•	Market P/E (25F, x)					
JCI			6,511			
Market Cap (I	DRbn)		85,125			
Shares Outsta	anding (mn)	41,525			
Free Float (%)			38.6			
Beta (Adjuste			1.1			
52-Week Low			1,730			
52-Week High	1		3,650			
(%)	1M	6M	12M			
Absolute	-14.9	-35.9	-29.3			
Relative	-13.8	-20.5	-18.4			
(D-1yr=100)	JCI	—— AMR	Т			
110 - 90 -	and	harring	pp			
50	0/04 40/53	10/04 5/55	V			
4/24 6/24	8/24 10/24	12/24 2/25	4/25			

Mirae Asset Sekuritas Indonesia

Abyan Habib Yuntoharjo Abyan.yuntoharjo@miraeasset.co.id

Sumber Alfaria Trijaya

Misses the mark as costs run wild and noncore bleeds

Margin squeeze on expansion drag

AMRT missed 4Q24 expectations as cost pressures eroded margins. Net profit fell to IDR3.1tr for FY24 (-7.5% YoY), at just 80–81% of estimates. Rising store-level costs from new DCs, especially ex-Java, drove the miss, with softer gross margins and below-the-line drag adding pressure. Further DC expansion in 2025F suggests ongoing cost headwinds.

Resilient growth amid soft demand

AMRT delivered solid topline growth in 4Q24, in line with expectations. Revenue rose to IDR30.0tr (+11.5% YoY), bringing FY24 sales to IDR118.2tr (+10.5% YoY). Food and non-food segments grew evenly, while ex-Java regions led with +16.4% YoY growth. Despite soft purchasing power, AMRT continues to defend its growth trajectory and market share.

Margin pressures mount on opex surge

FY24 margins came under pressure from elevated opex, missing estimates. Gross margin slipped to 21.5% (-10bps YoY), below our 21.9% forecast, likely on higher promo spend. Operating margin dropped 70bps YoY to 3.4%, hit by rising rent and utilities—both outpacing revenue growth. While salary costs stayed contained, non-core items further dragged earnings. Opex linked to new DCs will likely weigh through 2025, compounded by the 6.5% minimum wage hike.

Scaling for efficiency, near-term margin in check

1Q25 outlook is mixed—solid sales expected, but margin pressure persists. Eid seasonality and THR spending should support topline, yet the focus remains on AMRT's DC scalability. Margin drag from 2024's new DCs—especially ex-Java—is likely to continue near term, but seen as a trade-off for long-term efficiency gains. Drawing on its 2015–16 playbook, AMRT has a proven track record navigating soft cycles, and we expect gradual margin recovery by end-2025.

BUY maintained, TP trimmed on softer outlook

We reiterate our BUY on AMRT with a lower TP of IDR2,600/sh, reflecting a more cautious earnings trajectory. Our revised 26.8x P/E target (from +1.0 SD to +0.5 SD) factors in slower EPS growth versus the post-COVID recovery cycle. Lingering weak purchasing power, soft macro conditions, and 46.3% foreign ownership also raise the risk of outflows. Key downside risks include softer SSSG, delayed DC optimization, and weaker-than-expected consumption recovery.

(FY Dec. 31)	2022	2023	2024	2025F	2026F
Revenue (IDRbn)	96,925	106,945	118,227	131,291	145,934
OP (IDRbn)	3,770	4,429	4,079	4,302	5,342
OP Margin (%)	3.9	4.1	3.4	3.3	3.7
NP (IDRbn)	2,855	3,404	3,148	3,389	4,228
EPS (IDR)	68.8	82.0	75.8	81.6	101.8
ROE (%)	24.9	21.7	17.8	17.0	18.4
P/E (x)	29.8	25.0	27.0	25.1	20.1
P/B (x)	7.4	5.4	4.8	4.3	3.7
Dividend Yield (%)	0.9	1.2	1.5	1.3	1.4

Note: NP is attributable to owners of the parent

Source: Company data, Mirae Asset Sekuritas Indonesia Research estimates

Analysts who prepared this report are registered as research analysts in Indonesia but not in any other jurisdiction, including the US. Please see analyst certifications and important disclosures & disclaimers in Appendix 1 at the end of the report.

FY24 performance

Margins take a hit as DC expansion weighs on FY24 earnings

AMRT booked 4Q24 net profit of IDR749bn (+23.9% QoQ; -38.3% YoY), bringing FY24 bottom line to IDR3.1tr (-7.5% YoY)—missing both our and consensus estimates, with run rates of 80.0%/81.0%, respectively. The miss was driven by margin squeeze from rising store-level costs, notably rent and utilities, which climbed on the back of four new DCs opened in 2024 (three ex-Java). Gross margin softness and below-the-line drag further weighed on profitability. With more DCs slated to open in 2025F, cost pressure may linger into upcoming quarters.

Figure 1. Net profit trajectory

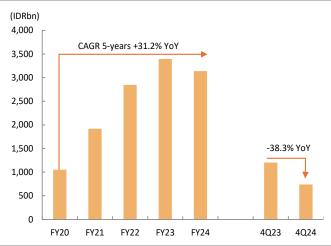
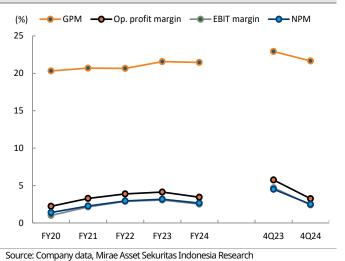


Figure 2. Margin trajectory



Source: Company data, Mirae Asset Sekuritas Indonesia Research

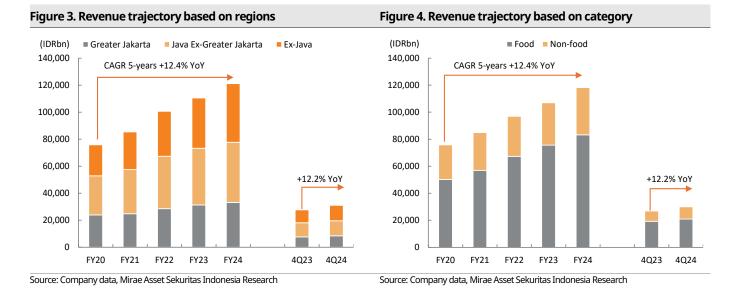
Table 1. AMRT run rate

	FY	24 (IDRbn)			Run rate (%)	
Run rate	Actual	MASI	Consensus	MASI	Consensus	Comment
Revenue	118,227	119,026	119,311	99.3	99.1	Inline/Inline
Net profit	3,148	3,936	3,886	80.0	81.0	Below/Below

Source: Mirae Asset Sekuritas Indonesia Research

Solid topline holding ground despite soft consumption

Topline remained firm, with 4Q24 revenue at IDR30.0tr (+3.5% QoQ; +11.5% YoY) and FY24 revenue hitting IDR118.2tr (+10.5% YoY), broadly in line with expectations. By segment, food/non-food sales grew +10.1%/+11.7% YoY, respectively, showing balanced momentum across categories. On a regional basis, ex-Java outperformed with +16.4% YoY, while Greater Jakarta and Java ex-Greater Jakarta posted MSD growth. Despite the ongoing drag from weak purchasing power, we believe AMRT continues to hold its ground, sustaining both growth trajectory and market share.



Margin compression kicks in as cost base expands with new DC rollout

FY24 gross margin slipped 10bps to 21.5%, falling short of our 21.9% estimate, likely due to higher promotional spend as AMRT looked to defend volume amid softening purchasing power. Operating margin felt a heavier hit, down 70bps YoY to 3.4%, dragged by rising rent and utility costs, which jumped +16.4% and +16.2% YoY, respectively—both outpacing top-line growth. These costs now make up 4.1% (+20bps) and 4.0% (+20bps) of total sales.

On the flip side, salary-related costs stayed under control, growing +9.9% YoY and making up 9.9% of sales (-10bps). That said, non-core items and other income/expenses missed expectations, adding further pressure to the bottom line.

In our view, the uptick in opex is tied to new DC rollouts in 2024, which will likely continue to weigh on margins over the next 1–2 years. While efficiency should improve in 2025, the combination of ongoing DC expansion and the 6.5% hike in minimum wage may make it tougher for AMRT to defend margins near term. Further color from management is expected post-meeting.

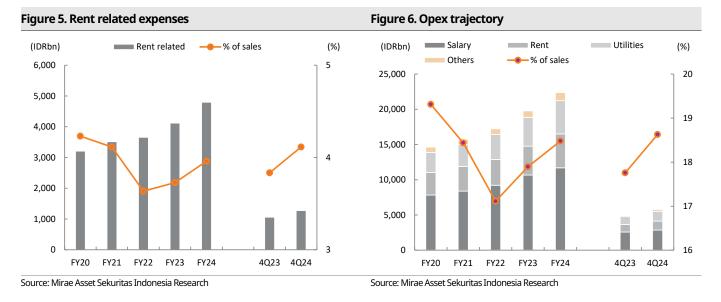


Table 2. AMRT FY24 earnings results (IDRb)							(IDRbn)	
	4Q23	3Q24	4Q24	QoQ (%)	YoY (%)	FY23	FY24	YoY (%)
Revenue	26,920	28,998	30,010	3.5	11.5	106,945	118,227	10.5
Jabodetabek	7,688	8,186	8,485	3.7	10.4	31,338	33,185	5.9
Excluding Jabodetabek	10,427	10,604	11,050	4.2	6.0	41,926	44,554	6.3
Excluding Java	9,504	10,778	11,450	6.2	20.5	37,260	43,389	16.4
COGS	-20,751	-22,903	-23,513	2.7	13.3	-83,879	-92,862	10.7
Gross profit	6,169	6,095	6,497	6.6	5.3	23,066	25,365	10.0
Opex	-4,904	-5,594	-5,772	3.2	17.7	-19,780	-22,384	13.2
EBIT	1,265	501	724	44.6	-42.7	3,286	2,982	-9.2
Other income (expense)	284	287	249	-13.2	-12.3	1,143	1,097	-4.1
Operating profit	1,548	788	973	23.5	-37.1	4,429	4,079	-7.9
Finance income	25	22	34	49.1	36.2	75	109	45.2
Finance expenses	-32	-31	-36	16.4	13.9	-163	-128	-21.3
Pre-tax profit	1,530	786	955	21.4	-37.6	4,333	4,066	-6.2
Income tax expense	-302	-170	-211	24.1	-30.0	-848	-846	-0.3
Net profit	1,213	605	749	23.9	-38.3	3,404	3,148	-7.5
Margin								
Gross margin (%)	22.9	21.0	21.6	0.6 pts	-1.3 pts	21.6	21.5	-0.1 pts
EBIT margin (%)	5.8	2.7	3.2	0.5 pts	-2.5 pts	4.1	3.4	-0.7 pts
Operating margin (%)	4.7	1.7	2.4	0.7 pts	-2.3 pts	3.1	2.5	-0.6 pts
Net margin (%)	4.5	2.1	2.5	0.4 pts	-2 pts	3.2	2.7	-0.5 pts

Table 2. AMRT FY24 earnings results

Source: Company data, Mirae Asset Sekuritas Indonesia Research

Q1 setup looks mixed; scalability, not just sales, in focus

Our view on 1Q25 results is somewhat mixed. While topline growth should remain healthy, supported by Eid-Fitr seasonality and THR-driven consumer spending, we believe the bigger story lies in AMRT's execution on DC scalability. With four new DCs rolled out in 2024—three of them outside Java—margin pressure is expected to linger short term, but this expansion is a necessary step toward unlocking long-term operational efficiency.

As flagged earlier, the initial drag on margins from rent, utilities, and fixed costs was anticipated. However, we expect the benefits of scale and optimization to gradually kick in, with better visibility likely emerging by end-2025.

To frame expectations, we also look back at AMRT's track record during the 2015–2016 cycle, where, despite a similarly soft macro environment, the company still managed to post low-teens sales growth. That history suggests AMRT knows how to navigate through weak cycles—and this time is no different.

Table 5. For Clast change						
	Previous forecast (IDRbn)		Current forecas	ts (IDRbn)	Change (%)	
	2025F	2026F	2025F	2026F	2025F	2026F
Revenue	134,838	148,322	131,291	145,934	-2.6	-1.6
Gross profit	29,492	32,441	28,458	31,632	-3.5	-2.5
Op. profit	4,742	5,216	4,302	5,342	-9.3	2.4
Net profit	4,549	5,004	3,389	4,228	-25.5	-15.5

Forecast tweaks: soft margins near term, normalization on the horizon

Table 3. Forecast change

Source: Mirae Asset Sekuritas Indonesa Research

We have adjusted our model to incorporate actualized FY24 figures, reflecting the implications of last year's performance on forward projections. For FY25F, we maintain our view that topline growth will remain in the low-teens range, forecasting +11.1% YoY, primarily supported by new store expansion and MSD SSSG. This aligns with the company's historical growth rhythm, even amid a softening consumption backdrop.

On the margin front, we forecast a mild recovery in gross margin to 21.7%, slightly higher than FY24. Our view is that promotional intensity will ease this year, as management shifts focus to DC optimization efforts—which may naturally lead to leaner marketing spend, helping cushion the impact from the 6.5% minimum wage hike. We expect more color on this from the upcoming management meeting.

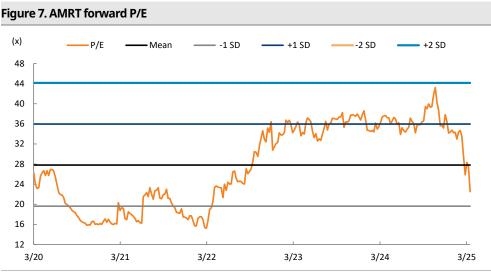
That said, we remain more cautious than consensus on operating margin, which we forecast at 3.3% for FY25F, reflecting ongoing cost pressures from the new DC rollout and labor cost inflation. Based on our estimates, salary-related expenses account for 9.9% of sales and roughly 53% of total opex, making it a significant cost lever. These headwinds are partially cushioned by low-teens growth in other income, helping offset some of the opex drag.

Looking ahead, our revised assumptions imply EPS growth of +7.6% YoY in FY25F, before accelerating to +24.8% YoY in FY26F, as margin normalization kicks in post-DC ramp-up. In our view, 2025 will be a transition year—front-loading the cost structure to unlock scalability in 2026, when efficiency gains and stabilized opex should start to flow through to the bottom line.

Valuations

Maintain BUY with lower TP of IDR2,600; slower EPS momentum warrants multiple de-rating

Following our model revision for FY25F–FY26F, we maintain our BUY recommendation on AMRT but with a lower target price of IDR2,600/sh, reflecting a more conservative earnings outlook. The revised valuation is based on a 26.8x P/E multiple (+0.5 SD of the 5-year average), a derating from our previous +1.0 SD target, in light of slower projected EPS growth in FY25F–FY27F compared to the stronger recovery cycle seen in FY21A– FY23A. We believe this multiple compression is warranted, considering lingering weak purchasing power, soft consumption trends, and a macro backdrop that remains fragile. Adding to the cautious stance is AMRT's foreign shareholding composition, currently at 46.3%, which exposes the stock to foreign outflow risk, particularly amid ongoing global equity market volatility. As such, we see additional downside pressure on Indonesian consumer names, with AMRT not fully insulated. Key risk on our assumption were: 1)lower lower than expected SSSG; 2) lingering weak purchasing power; 3) DC optimization trajectory; and 4) slower economic growth.



Source: Mirae Asset Sekuritas Indonesia Research

Sumber Alfaria Trijaya (AMRT IJ)

Income Statement (Summarized)

(IDRbn)	12/23	12/24	12/25F	12/26F
Revenue	106,945	118,227	131,291	145,934
COGS	-83,879	-92,862	102,833	114,302
Gross profit	23,066	25,365	28,458	31,632
Opex	-19,780	-22,384	-25,379	-27,649
EBIT	4,429	4,079	4,302	5,342
Other income / (expenses)	1,134	1,103	1,229	1,366
Finance income	75	109	118	124
Finance cost	-163	-128	-129	-133
Profit before income tax	4,333	4,066	4,298	5,340
Income tax expenses	-848	-846	-837	-1,040
Non-controlling interest	80	72	72	72
Net profit	3,404	3,148	3,389	4,228
EBITDA	4,496	4,293	4,536	5,602
Margin (%)				
Gross profit	21.6	21.5	21.7	21.7
Operating profit	4.1	3.4	3.3	3.7
EBITDA	4.2	3.6	3.5	3.8
Net profit	3.2	2.7	2.6	2.9
Growth (%, YoY)				
Revenue	10.3	10.5	11.1	11.2
Operating profit	17.5	-7.9	5.5	24.2
EBITDA	20.4	-4.5	5.6	23.5

Balance sheet (Summarized)

(IDRbn)	12/23	12/24	12/25F	12/26F
Current assets				
Cash & equivalents	4,075	4,845	5,074	7,075
Receivables	2,571	2,999	3,282	3,648
Inventories	10,094	11,775	12,242	13,607
Others	586	722	740	805
Total current assets	17,326	20,341	21,339	25,135
Non-current assets				
Fixed assets - net	8,053	9,002	9,846	10,642
Others	8,868	9,456	10,273	11,070
Total non-current assets	16,920	18,458	20,119	21,712
Total assets	34,246	38,798	41,458	46,847
Current liabilities				
ST bank loans	1,945	1,736	1,884	2,094
Account payables	10,983	13,352	13,474	14,976
Other current liabilities	4,335	4,381	4,549	5,057
Total current liabilities	17,263	19,469	19,907	22,127
Non-current liabilities				
Long-term financial liabilities	1,278	1,634	1,609	1,781
Others non-current liabilities	0	0	0	0
Total non-current liabilities	1,278	1,634	1,609	1,781
Total liabilities	18,541	21,102	21,516	23,908
Shareholders' equity	15,705	17,696	19,942	22,939
Non-controlling interests	1,232	1,318	1,318	1,318
Total liabilities and equity	34,246	38,798	41,458	46,847

Cash Flows (Summarized)

(IDRbn)	12/23	12/24	12/25F	12/26F
Cash Flows from Op. Activities	3,769	4,680	4,367	6,061
Net profit	3,404	3,148	3,389	4,228
Depreciation & amortization	1,210	1,312	1,457	1,619
Change in working capital	-846	220	-478	214
Others	-3,049	-2,849	-3,118	-3,211
Cash Flows from Inv. Activities	-2,059	-2,261	-2,300	-2,415
Capex	-990	-588	-818	-796
Others	-464	-1,010	-1,020	-849
Cash Flows from Fin. Activities	-1,295	147	123	382
Change in liabilities	0	0	0	0
Change in equity	1,830	34	0	0
Dividends paid	-1,020	-1,236	-1,143	-1,231
Others	21	45	0	0
Increase (decrease) in cash	256	821	229	2,000
Beginning balance	3,819	4,075	4,845	5,074
Ending balance	4,075	4,895	5,074	7,075

Note: Net profit refers to net profit attributable to controlling interests

Source: Company data, Mirae Asset Sekuritas Indonesia Research estimates

Forecasts/Valuations (Summarized)

(IDRbn)	12/23	12/24	12/25F	12/26F
P/E (x)	25.0	27.0	25.1	20.1
Р/В (х)	5.4	4.8	4.3	3.7
EV/EBITDA (x)	18.5	19.2	18.2	14.4
EPS (IDR)	82	76	82	102
BPS (IDR)	378	426	480	552
DPS (IDR)	25	30	28	30
Payout ratio (%)	35.7	36.3	36.3	36.3
Dividend yield (%)	1.2	1.5	1.3	1.4
Accounts receivable turnover (x)	41.6	39.4	40.0	40.0
Inventory turnover (x)	8.3	7.9	8.4	8.4
Accounts payable turnover (x)	41.6	39.4	40.0	40.0
ROA (%)	9.9	8.1	8.2	9.0
ROE (%)	21.7	17.8	17.0	18.4
Current ratio (x)	1.0	1.0	1.1	1.1
Net gearing (x)	Net Cash	Net Cash	Net Cash	Net Cash
Interest coverage ratio (x)	20.2	23.3	23.9	30.0

Appendix 1

Important disclosures and disclaimers

<u>Two-year rating and TP history</u>				
Company	Date	Rating	TP (IDR)	(IDR) AMRT Analyst's TP
Sumber Alfaria Trijaya (AMRT IJ)	4/8/2025	Buy	2,600	4,500 r
	11/25/2024	Buy	3,500	
	8/7/2024	Trading Buy	3,200	3,500 -
	7/15/2024	Hold	3,200	
	4/4/2024	Trading Buy	3,200	and the second s
	2/13/2024	Buy	3,200	2,500
	12/12/2023	Trading Buy	3,200	r I
	12/11/2023	Trading Buy	3,200	1,500 L
	8/15/2023	Trading Buy	3,200	Apr-23 Apr-24 Apr-25
	4/17/2023	Trading Buy	3,200	

Stock rating	S	Sector rating	S
Buy	Expected 12-month performance: +20% or greater	Overweight	Expected to outperform the market over 12 months
Trading Buy	Expected 12-month performance: +10% to +20%	Neutral	Expected to perform in line with the market over 12 months
Hold	Expected 12-month performance: -10% to +10%	Underweight	Expected to underperform the market over 12 months
Sell	Expected 12-month performance: -10% or worse		

Rating and TP history: Share price (−), TP (−), Not Rated (■), Buy (▲), Trading Buy (■), Hold (●), Sell (♦)

* Our investment rating is a guide to the expected return of the stock over the next 12 months.

* Outside of the official ratings of PT Mirae Asset Sekuritas Indonesia, analysts may call trading opportunities should technical or short-term material developments arise.

* The TP was determined by the research analyst through valuation methods discussed in this report, in part based on estimates of future earnings.

* TP achievement may be impeded by risks related to the subject securities and companies, as well as general market and economic conditions.

Disclosures

As of the publication date, PT Mirae Asset Sekuritas Indonesia ("MASID") and/or its affiliates do not have any special interest in the subject company and do not own 1% or more of the subject company's shares outstanding.

Analyst certification

The research analysts who prepared this report (the "Analysts") are certified to the Indonesia Financial Services Authority and are subject to Indonesian Capital Market regulations. They are neither registered as research analysts in any other jurisdiction nor subject to the laws or regulations thereof. Each Analyst responsible for the preparation of this report certifies that (i) all views expressed in this report accurately reflect the personal views of the Analyst about any and all of the issuers and securities named in this report; (ii) no part of the compensation of the Analyst was, is, or will be directly or indirectly related to the specific recommendations or views contained in this report; and (iii) The report does not contain any material non-public information. Except as otherwise specified herein, the Analysts have not received any compensation or any other benefits from the subject companies in the past 12 months and have not been promised the same in connection with this report. Like all employees of MASID, the Analysts receive compensation that is determined by overall firm profitability, which includes revenues from, among other business units, the institutional equities, investment banking, proprietary trading, and etc. At the time of publication of this report, the Analysts do not know or have reason to know of any actual, material conflict of interest of the Analyst or MASID except as otherwise stated herein.

Disclaimers

This report was prepared by MASID, a broker-dealer registered in the Republic of Indonesia and a member of the Indonesia Stock Exchange; on behalf of MASID and its affiliated companies and is provided for information purposes only. Information and opinions contained herein have been compiled in good faith and from sources believed to be reliable, but such information has not been independently verified and MASID (including but not limited to the Analyst, respective employees who owns the expertise) makes no guarantee, representation or warranty, express or implied, as to the fairness, accuracy, completeness, or correctness of the information and opinions contained herein or of any translation into English from the Indonesia language or as to any information contained in this report or any other such information or opinions remaining unchanged after the issue thereof. In case of an English translation of a report prepared in the Indonesia language, the original Indonesian language report may have been made available to investors in advance of this report. The intended recipients of this report are sophisticated institutional investors who have substantial knowledge of the local business environment, its common practices, laws, and accounting principles, and no person whose receipt or use of this report would violate any laws or regulations or subject MASID or any of its affiliates to registration or licensing requirements in any jurisdiction shall receive or make any use hereof.

This report is for general information purposes only and is not and shall not be construed as an offer or a solicitation of an offer to effect transactions in any securities or other financial instruments. The report does not constitute investment advice to any person, and such person shall not be treated as a client of MASID by virtue of receiving this report. This report does not take into account the particular investment objectives, financial situations, or needs of individual clients. The report is not to be relied upon in substitution for the exercise of independent judgment. Information and opinions contained herein are as of the date hereof and are subject to change without notice. The price and value of the investments referred to in this report and the income from them may depreciate or appreciate, and investors may incur losses on investments. Past performance is not a guide to future performance. Future returns are not guaranteed, and a loss of original capital may occur. Please note that the graphs, charts, formulae, or other devices set out or referred to in this document directors, officers, employees, and agents do not accept any liability (express or implied) for any loss arising out of the use hereof and howsoever arising (including, but not limited for any claims, proceeding, action, suits, losses, expenses, damages or costs) which may be brought against or suffered by any person as a result of acting in reliance upon the whole or any part of the contents of this report.

MASID may have issued other reports that are inconsistent with, and reach different conclusions from, the opinions presented in this report. The reports may reflect different assumptions, views, and analytical methods of the analysts who prepared them. MASID may make investment decisions that are inconsistent with the opinions and views expressed in this research report. MASID, its affiliates, and their directors, officers, employees, and agents may

Sumber Alfaria Trijaya

have long or short positions in any of the subject securities at any time and may make a purchase or sale, or offer to make a purchase or sale, of any such securities or other financial instruments from time to time in the open market or otherwise, in each case either as principals or agents. MASID and its affiliates may have had, or may be expecting to enter into, business relationships with the subject companies to provide investment banking, market-making, or other financial services as are permitted under the applicable laws and regulations. In considering any investments you should make your own independent assessment and seek your own professional financial and legal advisors. Should you choose not to seek such advice, you should consider carefully whether the securities is suitable for you.

No part of this document may be copied or reproduced in any manner or form or redistributed or published, in whole or in part, without the prior written consent of MASID. The media is not allowed to quote this report in any article whether in full or in parts without permission from MASID For further information regarding company-specific information as it pertains to the representations and disclosures in this Appendix 1, please contact researchteam@miraeasset.co.id or +62 (21) 5088-7000.

Distribution

<u>United Kingdom</u>: This report is being distributed by Mirae Asset Securities (UK) Ltd. in the United Kingdom only to (i) investment professionals falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (the "Order"), and (ii) high net worth companies and other persons to whom it may lawfully be communicated, falling within Article 49(2)(A) to (E) of the Order (all such persons together being referred to as "Relevant Persons"). This report is directed only at Relevant Persons. Any person who is not a Relevant Person should not act or rely on this report or any of its contents. <u>United States</u>: MASID is not a registered broker-dealer in the United States and, therefore, is not subject to U.S. rules regarding the preparation of research reports and the independence of research analysts. This report is distributed in the U.S. by Mirae Asset Securities (USA) Inc., a member of FINRA/SIPC, to "major U.S. institutional investors" in reliance on the exemption from registration provided by Rule 15a-6(b)(4) under the U.S. Securities Exchange Act of 1934, as amended. All U.S. persons that receive this document by their acceptance hereof represent and warrant that they are a major U.S. institutional investor and have not received this report under any express or implied understanding that they will direct commission income to MASID or its affiliates. Any U.S. recipient of this document wishing to effect a transaction in any securities discussed herein should contact and place orders with Mirae Asset Securities (USA) Inc. Accepts responsibility for the contents of this report in the U.S., subject to the terms hereof, to the extent that it is delivered to a U.S. person other than a major U.S. institutional investor. Under no circumstances should any recipient of this report may not have been registered under the U.S. Securities Act of 1933, as amended, and, in such case, may not be offered or sold in the U.S. or to U.S. persons absent registration or an applicable exemption

Hong Kong: This report is distributed in Hong Kong by Mirae Asset Securities (HK) Limited, which is regulated by the Hong Kong Securities and Futures Commission. The contents of this report have not been reviewed by any regulatory authority in Hong Kong. This report is for distribution only to professional investors within the meaning of Part I of Schedule 1 to the Securities and Futures Ordinance of Hong Kong (Cap. 571, Laws of Hong Kong) and any rules made thereunder and may not be redistributed in whole or in part in Hong Kong to any person.

India: This report is being distributed by Mirae Asset Capital Markets (India) Private Limited ("MACM") in India to the customers based in India and is personal information only for those authorised recipient(s). MACM is inter alia a Securities and Exchange Board of India ("SEBI") registered Research Analyst in India and is not registered outside India. MACM and Mirae Asset, Korea are group entities. MACM makes no guarantee, representation or warranty, express or implied, as to the fairness, accuracy, completeness or correctness of the information and opinions contained herein. The user assumes the entire risk of any use made of this information. This report has been provided for assistance only and is not intended to be and must not alone be taken as the basis for an investment decision. Recipient must read the entire Appendix 1 to the report carefully for Important Disclosures & Disclaimers.

<u>All other jurisdictions</u>: Customers in all other countries who wish to effect a transaction in any securities referenced in this report should contact MASID or its affiliates only if distribution to or use by such customer of this report would not violate applicable laws and regulations and not subject MASID and its affiliates to any registration or licensing requirement within such jurisdiction.

Mirae Asset Securities International Network

Mirae Asset Securities Co., Ltd. (Seoul)

One-Asia Equity Sales Team Mirae Asset Center 1 Building 26 Eulji-ro 5-gil, Jung-gu, Seoul 04539 Korea

Tel: 82-2-3774-2124

Mirae Asset Securities (USA) Inc.

810 Seventh Avenue, 37th Floor New York, NY 10019 USA

Tel: 1-212-407-1000

Mirae Asset Securities (Singapore) Pte. Ltd.

6 Battery Road, #11-01 Singapore 049909 Republic of Singapore

Tel: 65-6671-9845

Mirae Asset Investment Advisory (Beijing) Co., Ltd

2401B, 24th Floor, East Tower, Twin Towers B12 Jianguomenwai Avenue, Chaoyang District Beijing 100022 China

Tel: 86-10-6567-9699

Ho Chi Minh Representative Office

7F, Saigon Royal Building 91 Pasteur St. District 1, Ben Nghe Ward, Ho Chi Minh City Vietnam

Tel: 84-8-3910-7715

Mirae Asset Securities (HK) Ltd.

Units 8501, 8507-8508, 85/F International Commerce Centre 1 Austin Road West Kowloon Hong Kong Tel: 852-2845-6332

Mirae Asset Wealth Management (Brazil) CCTVM

Rua Funchal, 418, 18th Floor, E-Tower Building Vila Olimpia Sao Paulo - SP 04551-060 Brazil Tel: 55-11-2789-2100

Mirae Asset Securities (Vietnam) LLC

7F, Saigon Royal Building 91 Pasteur St. District 1, Ben Nghe Ward, Ho Chi Minh City Vietnam

Tel: 84-8-3911-0633 (ext.110)

Beijing Representative Office

2401A, 24th Floor, East Tower, Twin Towers B12 Jianguomenwai Avenue, Chaoyang District Beijing 100022 China

Tel: 86-10-6567-9699 (ext. 3300)

Mirae Asset Capital Markets (India) Pvt Ltd

1st Floor, Tower 4, Equinox Business Park, LBS Marg, Off BKC, Kurla (West), Mumbai - 400 070 India

Tel: 91-22-62661300 / 48821300

Mirae Asset Securities (UK) Ltd. 41st Floor, Tower 42

25 Old Broad Street, London EC2N 1HQ United Kingdom

Tel: 44-20-7982-8000

PT. Mirae Asset Sekuritas Indonesia

District 8, Treasury Tower Building Lt. 50 Sudirman Central Business District Jl. Jend. Sudirman, Kav. 52-54 Jakarta Selatan 12190 Indonesia Tel: 62-21-5088-7000

Mirae Asset Securities Mongolia UTsK LLC

#406, Blue Sky Tower, Peace Avenue 17 1 Khoroo, Sukhbaatar District Ulaanbaatar 14240 Mongolia

Tel: 976-7011-0806

Shanghai Representative Office

38T31, 38F, Shanghai World Financial Center 100 Century Avenue, Pudong New Area Shanghai 200120 China

Tel: 86-21-5013-6392