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This document, for which we and our Guarantor accept full responsibility, includes particulars given in compliance with the Rules Governing the Listing of Securities on the Stock Exchange of Hong Kong Limited (the “**Rules**”) for the purpose of giving information with regard to us and our Guarantor. We and our Guarantor, having made all reasonable enquiries, confirm that to the best of our knowledge and belief the information contained in this document is accurate and complete in all material respects and not misleading or deceptive, and there are no other matters the omission of which would make any statement herein or this document misleading.

This document is for information purposes only and does not constitute an invitation or offer to acquire, purchase or subscribe for the Warrants.

The Warrants are complex products. Investors should exercise caution in relation to them. Investors are warned that the price of the Warrants may fall in value as rapidly as it may rise and holders may sustain a total loss of their investment. Prospective purchasers should therefore ensure that they understand the nature of the Warrants and carefully study the risk factors set out in the Base Listing Document (as defined below) and this document and, where necessary, seek professional advice, before they invest in the Warrants.

The Warrants constitute general unsecured contractual obligations of us as the Issuer and of no other person and the Guarantee constitutes the general unsecured contractual obligations of our Guarantor and of no other person and will rank equally among themselves and with all our and our Guarantor’s other unsecured obligations (save for those obligations preferred by law) upon liquidation. If you purchase the Warrants, you are relying upon the creditworthiness of us and our Guarantor, and have no rights under the Warrants against the Index Compiler or any other person. If we become insolvent or default on our obligations under the Warrants or our Guarantor becomes insolvent or defaults on its obligations under the Guarantee, you may not be able to recover all or even part of the amount due under the Warrants (if any).

Non-collateralised Structured Products

**Launch Announcement
and
Supplemental Listing Document for Warrants over Index**

to be issued by

J.P.Morgan

Issuer: J.P. Morgan Structured Products B.V.
(incorporated with limited liability in The Netherlands)

and unconditionally and irrevocably guaranteed by

Guarantor: JPMorgan Chase Bank, National Association
(a national banking association organized under the laws of the United States of America)

Managers: J.P. Morgan Securities plc and J.P. Morgan Securities (Asia Pacific) Limited

Key Terms

Warrants Stock code	18571
Liquidity Provider broker ID	9743
Issue size	100,000,000 Warrants
Style	European style cash settled
Type	Call
Index	Hang Seng TECH Index ¹
Board Lot	10,000 Warrants
Issue Price per Warrant	HK\$ 0.150
Strike Level	4,723.5
Cash Settlement Amount per Board Lot (if any) payable at expiry	<i>For a series of call Warrants:</i> $\frac{(\text{Closing Level} - \text{Strike Level}) \times \text{one Board Lot} \times \text{Index Currency Amount}}{\text{Divisor}}$ <i>For a series of put Warrants:</i> $\frac{(\text{Strike Level} - \text{Closing Level}) \times \text{one Board Lot} \times \text{Index Currency Amount}}{\text{Divisor}}$
Closing Level	The final settlement price for settling the Hang Seng TECH Index Futures Contracts that are scheduled to expire during the month in which the Expiry Date of the relevant series of the Warrants is scheduled to fall (the “ Index Futures Contracts ”) ²
Index Exchange	The Stock Exchange of Hong Kong Limited
Index Currency Amount	HK\$1.00
Divisor	2,000
Launch Date	21 July 2023
Issue Date	25 July 2023
Listing Date ³	26 July 2023
Valuation Date ⁴	27 March 2024
Expiry Date ⁴	27 March 2024
Settlement Date	The third CCASS Settlement Day after the later of: (i) the Expiry Date; and (ii) the day on which the Closing Level is determined in accordance with the Conditions
Settlement Currency	Hong Kong dollars
Implied Volatility ⁵	34.70%
Effective Gearing ⁵	5.61x
Gearing ⁵	13.68x
Premium ⁵	22.39%

¹ Hang Seng TECH Index was launched on 27 July 2020. Please see further information about the Index under the section headed “Information on the Index” in this document.

² Determined pursuant to Regulation 012 of the Regulations for Trading Stock Index Futures Contracts and the Contract Specifications for the Hang Seng TECH Index Futures (as amended from time to time) of the Hong Kong Futures Exchange Limited (or its successor or assign), subject to our right to determine the Closing Level in good faith on the Valuation Date upon the occurrence of a Market Disruption Event as described further in Condition 4(C).

³ During the period between the Launch Date and the scheduled Listing Date (both dates exclusive), if any severe weather occurs on any Business Day which either results in the Stock Exchange (i) being closed for trading for the entire day; or (ii) being closed prior to its regular time for close of trading for the relevant day, the Listing Date will be postponed (without any further notice or announcement) such that there is a period of two Business Days not affected by the aforementioned event(s) between the Launch Date and the postponed Listing Date (both dates exclusive).

⁴ If such day is not the day on which the relevant Index Futures Contracts expire on Hong Kong Futures Exchange Limited (or its successor or assign), the day on which the relevant Index Futures Contracts will expire on the Hong Kong Futures Exchange Limited (or its successor or assign).

⁵ This data may fluctuate during the life of the Warrants and may not be comparable to similar information provided by other issuers of derivative warrants. Each issuer may use different valuation models.

IMPORTANT INFORMATION

The Warrants are listed structured products which involve derivatives. Do not invest in them unless you fully understand and are willing to assume the risks associated with them.

What documents should you read before investing in the Warrants?

You must read this document together with our base listing document dated 23 March 2023 (the “**Base Listing Document**”), as supplemented by any addendum thereto (together, the “**Listing Documents**”), in particular the section “Terms and Conditions of The Cash-Settled Index Warrants” (the “**Conditions**”) set out in our Base Listing Document. This document (as read in conjunction with our Base Listing Document and each addendum referred to in the section headed “Product Summary Statement”) is accurate as at the date of this document. You should carefully study the risk factors set out in the Listing Documents. You should also consider your financial position and investment objectives before deciding to invest in the Warrants. We cannot give you investment advice. You must decide whether the Warrants meet your investment needs before investing in the Warrants.

Is there any guarantee or collateral for the Warrants?

Our obligations under the Warrants are unconditionally and irrevocably guaranteed by our Guarantor. If we become insolvent or default on our obligations under the Warrants and our Guarantor becomes insolvent or defaults on its obligations under the Guarantee, you can only claim as an unsecured creditor of the Issuer and our Guarantor. In such event, you may not be able to recover all or even part of the amount due under the Warrants (if any).

What are our Guarantor’s credit ratings?

Our Guarantor’s current long-term debt credit ratings are:

Rating agency	Rating as of the Launch Date
Moody’s Investors Service, Inc.	Aa2 (stable outlook)
S&P Global Ratings	A+ (stable outlook)

You should conduct your own research using publicly available sources (including but not limited to our Investor Relations website (<http://www.jp.morgan.chase.com/ir>)) to obtain the latest information with respect to our Guarantor’s ratings and ratings outlooks from time to time. Our Guarantor’s credit ratings and ratings outlooks are subject to change or withdrawal at any time within each rating agency’s sole discretion.

The Warrants are not rated and you should not solely rely on our Guarantor’s credit ratings when investing in the Warrants.

The Warrants are not rated by any credit rating agencies.

Rating agencies usually receive a fee from the companies that they rate. When evaluating our Guarantor’s creditworthiness, you should not solely rely on our Guarantor’s credit ratings because:

- a credit rating is not a recommendation to buy, sell or hold the Warrants;
- ratings of companies may involve difficult-to-quantify factors such as market competition, the success or failure of new products and markets and managerial competence;
- a high credit rating is not necessarily indicative of low risk. Our Guarantor’s credit ratings as of the Launch Date are for reference only. Any downgrading of our Guarantor’s credit ratings could result in a reduction in the value of the Warrants;
- a credit rating is not an indication of the liquidity or volatility of the Warrants; and
- a credit rating may be downgraded if the credit quality of our Guarantor declines.

Is the Issuer or our Guarantor regulated by the Hong Kong Monetary Authority referred to in Rule 15A.13(2) or the Securities and Futures Commission referred to in Rule 15A.13(3)?

We are not regulated by any of the bodies referred to in Rule 15A.13(2) or Rule 15A.13(3) of the Rules. Our Guarantor is a licensed bank regulated by the Hong Kong Monetary Authority. It is also a national banking association organised and subject to regulation under the laws of the United States of America, including the National Bank Act.

Is the Issuer or our Guarantor subject to any litigation?

Save as disclosed in the Listing Documents, the Issuer and our Guarantor are not aware, to the best of the Issuer’s and our Guarantor’s knowledge and belief, of any litigation or claims of material importance pending or threatened against the Issuer or our Guarantor.

Has our or our Guarantor’s financial position changed since last financial year-end?

Save as disclosed in the section headed “Information Relating to the Guarantor” in the Base Listing Document and the section headed “Annual Report of the Issuer for the Year Ended 31 December 2022” in the First Supplemental Disclosure Document, there has been no material adverse change in our or our Guarantor’s financial position since the date of the most recently published audited financial statements of us or our Guarantor on a consolidated basis respectively, as the case may be, that would have a material adverse effect on our ability to perform our obligations, or our Guarantor’s ability to perform its obligations respectively in the context of the issue of Warrants.

PRODUCT SUMMARY STATEMENT

The Warrants are listed structured products which involve derivatives. This statement provides you with key information about the Warrants. You should not invest in the Warrants based on the information contained in this statement alone. You should read and understand the remaining sections of this document, together with the other Listing Documents, before deciding whether to invest.

Overview of the Warrants

- What is a derivative warrant?**

A derivative warrant linked to an index is an instrument which tracks the performance of the underlying index. Derivative warrants may provide a leveraged return to you. Conversely, such leverage could also magnify your losses.

A call warrant is designed for an investor holding a view that the level of the underlying index will increase during the term of the warrant.

A put warrant is designed for an investor holding a view that the level of the underlying index will decrease during the term of the warrant.
- How and when can you get back your investment?**

The Warrants are European style cash settled derivative warrants linked to the Index. European style warrants can only be exercised on the expiry date. When the Warrants are exercised, the holder is entitled to a cash amount called the “**Cash Settlement Amount**” net of any Exercise Expenses (as defined under the heading “Exercise Expenses” in the sub-section titled “What are the fees and charges?” below) according to the terms and conditions in the Listing Documents. **If the Cash Settlement Amount is equal to or less than the Exercise Expenses, you will lose all of your investment in the Warrants.**
- How do the Warrants work?**

The potential payoff at expiry for the Warrants is calculated by reference to the difference between the Strike Level and the Closing Level of the Index.

A call Warrant will be automatically exercised at expiry without the need for the holder to deliver an exercise notice if the Closing Level of the Index is above the Strike Level. The more the Closing Level is above the Strike Level, the higher the payoff at expiry. If the Closing Level is at or below the Strike Level, you will lose all of your investment in the call Warrant.

A put Warrant will be automatically exercised at expiry without the need for the holder to deliver an exercise notice if the Closing Level of the Index is below the Strike Level. The more the Closing Level is below the Strike Level, the higher the payoff at expiry. If the Closing Level is at or above the Strike Level, you will lose all of your investment in the put Warrant.
- Can you sell the Warrants before the Expiry Date?**

Yes. We will make an application for listing of, and permission to deal in, the Warrants on the Stock Exchange. All necessary arrangements will be made to enable the Warrants to be admitted into the Central Clearing and Settlement System (“CCASS”). Issue of the Warrants is conditional upon listing approval being granted. From the Listing Date up to the last trading day of the Warrants (both dates inclusive), you may sell or buy the Warrants on the Stock Exchange. There shall be three CCASS Settlement Days between the last trading day of the Warrants and the Expiry Date. No application has been made to list the Warrants on any other stock exchange.

The Warrants may only be transferred in a Board Lot (or integral multiples thereof). Where a transfer of Warrants takes place on the Stock Exchange, currently settlement must be made not later than two CCASS Settlement Days after such transfer.

The Liquidity Provider will make a market in the Warrants by providing bid and/or ask prices. See the section headed “Liquidity” below.
- What is your maximum loss?**

The maximum loss in the Warrants will be your entire investment amount plus any transaction costs.
- What are the factors determining the price of a derivative warrant?**

The price of a derivative warrant generally depends on the level of the underlying index (being the Index for the Warrants). However, throughout the term of a derivative warrant, its price will be influenced by a number of factors, including:

 - the strike level of the derivative warrants;
 - the level and volatility of the underlying index (being a measure of the fluctuation in the level of the underlying index over time);
 - the time remaining to expiry: generally, the longer the remaining life of the derivative warrant, the greater its value;
 - the interim interest rates and expected dividend payments or other distributions on any components comprising the underlying index;
 - the liquidity of the futures contracts relating to the underlying index;
 - the supply and demand for the derivative warrant;
 - our related transaction cost; and
 - the creditworthiness of the Issuer of the derivative warrant and our Guarantor.

As the price of a derivative warrant is not only affected by the level of the underlying index, movements in the price of a derivative warrant may not be proportionate or may even be opposite to the movement of the level of the underlying index. For example:

- if the level of the underlying index increases (in respect of a call warrant) or decreases (in respect of a put warrant), but the volatility of the level of the underlying index decreases, the price of the warrant may decrease;
- if a warrant is deep-out-of-the-money (eg. when the fair market value is less than HK\$0.01), the price of the warrant may be insensitive to any increase (in respect of a call warrant) or decrease (in respect of a put warrant) in the level of the underlying index;
- if the outstanding volume of a series of warrants in the market is high, the supply and demand of the warrant may have a greater impact on the warrant price than the level of the underlying index; and/or
- the decrease in time value may offset any increase (in respect of a call warrant) or decrease (in respect of a put warrant) in the level of the underlying index, especially when the warrant is close to its expiry where the time value decreases at a faster pace.

Risks of investing in the Warrants

You must read the section headed “Key Risk Factors” in this document together with the risk factors set out in our Base Listing Document. You should consider all these factors collectively when making your investment decision.

Liquidity

- **How to contact the Liquidity Provider for quotes?**

Liquidity Provider:	J.P. Morgan Broking (Hong Kong) Limited
Address:	23-29/F, Chater House, 8 Connaught Road Central, Hong Kong
Telephone Number:	+852 2800 7878

The Liquidity Provider is regulated by the Stock Exchange and the Securities and Futures Commission. It is an affiliate of the Issuer and will act as our agent in providing quotes. You can request a quote by calling the Liquidity Provider at the telephone number above.

- **What is the Liquidity Provider’s maximum response time for a quote?** The Liquidity Provider will respond within 10 minutes and the quote will be displayed on the Stock Exchange’s designated stock page for the Warrants.
- **Maximum spread between bid and ask prices:** 20 spreads
- **Minimum quantity for which liquidity will be provided:** 20 Board Lots
- **What are the circumstances under which the Liquidity Provider is not obliged to provide liquidity?**

- There will be circumstances under which the Liquidity Provider is not obliged to provide liquidity. Such circumstances include:
- (i) during the first 5 minutes of each morning trading session or the first 5 minutes after trading commences for the first time on a trading day;
 - (ii) during a pre-opening session or a closing auction session (if applicable) or any other circumstances as may be prescribed by the Stock Exchange;
 - (iii) when the Warrants are suspended from trading for any reason;
 - (iv) if there occurs or exists any suspension of or limitation imposed on trading of options or futures contracts relating to the Index or if the Index level is not calculated or published as scheduled for any reason;
 - (v) when there are no Warrants available for market making activities. In such event, the Liquidity Provider shall continue to provide bid prices. Warrants held by us or any of our affiliates in a fiduciary or agency capacity are not Warrants available for market making activities;
 - (vi) when there are operational and technical problems beyond the control of the Liquidity Provider hindering the ability of the Liquidity Provider to provide liquidity;
 - (vii) if the stock market experiences exceptional price movement and high volatility over a short period of time which materially affects the Liquidity Provider’s ability to source a hedge or unwind an existing hedge; or
 - (viii) if the theoretical value of the Warrants is less than HK\$0.01. If the Liquidity Provider chooses to provide liquidity under this circumstance, both bid and ask prices will be made available.

You should read the sub-section entitled “Possible limited secondary market” under the “Key Risk Factors” section for further information on the key risks when the Liquidity Provider is not able to provide liquidity.

How can you obtain further information?

- **Information about the Index**
You may obtain information on the Index by visiting the Index Compiler’s website at www.hsi.com.hk.
- **Information about the Warrants after issue**
You may visit the Stock Exchange’s website at https://www.hkex.com.hk/products/securities/structured-products/overview?sc_lang=en or our website at <http://www.jpmmwarrants.com.hk> to obtain information on the Warrants or any notice given by us or the Stock Exchange in relation to the Warrants.
- **Information about us and our Guarantor**
You should read the section “Updated Information about Us and our Guarantor” in this document. You may visit <http://www.jpmmwarrants.com.hk> to obtain general corporate information about our Guarantor.

We have included references to websites in this document to indicate how further information may be obtained. Information appearing on those websites does not form part of the Listing Documents. We accept no responsibility for the accuracy or completeness of the information appearing on those websites. You should conduct your own due diligence (including without limitation web searches) to ensure that you are viewing the most up-to-date information.

What are the fees and charges?

- **Trading Fees and Levies**
For each transaction effected on the Stock Exchange, the following trading fees and levies calculated on the value of the consideration for the Warrants will be payable by each of the seller and the buyer:
 - (i) a trading fee of 0.00565 per cent. charged by the Stock Exchange;
 - (ii) a transaction levy of 0.0027 per cent. charged by the Securities and Futures Commission; and
 - (iii) a transaction levy of 0.00015 per cent. charged by the Financial Reporting Council.
The levy for the investor compensation fund is currently suspended.
 - **Exercise Expenses**
You are responsible for any Exercise Expenses. Exercise Expenses mean any charges or expenses including any taxes or duties which are incurred or withheld in respect of the exercise of the Warrants. Any Exercise Expenses will be deducted from the Cash Settlement Amount (if any). If the Cash Settlement Amount is equal to or less than the Exercise Expenses, no amount is payable. As at the date of this document, no Exercise Expenses are payable for cash settled warrants (including the Warrants).
 - **Stamp Duty**
No stamp duty is currently payable in Hong Kong on transfer of cash settled warrants (including the Warrants).
- You should note that any transaction cost will reduce your gain or increase your loss under your investment in the Warrants.

What is the legal form of the Warrants?

Each series of the Warrants will be represented by a global certificate in the name of HKSCC Nominees Limited who is the only legal owner of the Warrants. We will not issue definitive certificates for the Warrants. You may arrange for your broker to hold the Warrants in a securities account on your behalf, or if you have a CCASS Investor Participant securities account, you may arrange for the Warrants to be held in such account. You will have to rely on the records of CCASS and/or the statements you receive from your brokers as evidence of your beneficial interest in the Warrants.

Can we adjust the terms or early terminate the Warrants?

The occurrence of certain events (including, without limitation, a succession of the Index or Index Compiler, modification or cessation of calculation of the Index) may entitle us to adjust the terms and conditions of the Warrants. However, we are not obliged to adjust the terms and conditions of the Warrants for every event that affects the Index.

We may early terminate the Warrants if it becomes illegal or impracticable for us (i) to perform our obligations under the Warrants as a result of a change in law event, or (ii) to maintain our hedging arrangement with respect to the Warrants due to a change in law event. In such event, the amount payable by us (if any) will be the fair market value of the Warrants less our cost of unwinding any related hedging arrangements as determined by us, which may be substantially less than your initial investment and may be zero.

Please refer to Conditions 6 and 12 for details about adjustments or early termination events. Such events may negatively affect your investment and you may suffer a loss.

Mode of settlement for the Warrants

The Warrants will be automatically exercised on the Expiry Date in integral multiples of the Board Lot if the Cash Settlement Amount is positive. If the Cash Settlement Amount is zero or negative, or is equal to or less than the Exercise Expenses, you will lose all of your investment.

We will deliver a cash amount in the Settlement Currency equal to the Cash Settlement Amount net of any Exercise Expenses (if any) no later than the Settlement Date to HKSCC Nominees Limited (as the registered holder of the Warrants), which will then distribute such amount to the securities account of your broker (and if applicable, its custodian) or to your CCASS Investor Participant securities account (as the case may be). You may have to rely on your broker (and if applicable, its custodian) to ensure that the Cash Settlement Amount (if any) is credited to your account maintained with your broker. Once we make the payment to HKSCC Nominees Limited, who operates CCASS, you will have no further right against us for that payment, even if CCASS or your broker (and if applicable, its custodian) does not transfer your share of payment to you, or is late in making such payment transfer.

Payment of the Cash Settlement Amount (if any) may be delayed if a Settlement Disruption Event occurs on the Settlement Date, as a result of which we are unable to deliver such amount through CCASS on such day. See Condition 4(D) for further information.

Where can you read the relevant documents of the Warrants?

Copies of the following documents are available on the website of the HKEX at www.hkexnews.hk and our website at <http://www.jpwwarrants.com.hk>:

- each of the Listing Documents (in separate English and Chinese versions), including:
 - this document;
 - our Base Listing Document, which includes our Guarantor’s consolidated financial statements for the year ended 31 December 2022 comprising consolidated balance sheets at 31 December 2022 and 2021 and the related consolidated statements of income, changes in stockholder’s equity, comprehensive income and cash flows for each of the three years ended 31 December 2022;
 - the supplemental disclosure document dated 28 April 2023 (the “**First Supplemental Disclosure Document**”), which includes our financial statements for the year ended 31 December 2022;
- the letter from our auditor, PricewaterhouseCoopers Accountants N.V., consenting to the reproduction of its audit report on our financial statements for the year ended 31 December 2022 in the First Supplemental Disclosure Document; and
- the letter from our Guarantor’s auditor, PricewaterhouseCoopers LLP, agreeing to the inclusion of its audit report on the Guarantor’s 2022 consolidated financial statements in the Base Listing Document.

以上各文件可於香港交易所披露易網站www.hkexnews.hk以及本公司網站<http://www.jpwwarrants.com.hk>瀏覽。

Are there any dealings in the Warrants before the Listing Date?

It is possible that there may have been dealings in the Warrants before the Listing Date. If there are any dealings in the Warrants by us or any of our subsidiaries or associated companies from the Launch Date prior to the Listing Date, we will report those dealings to the Stock Exchange by the Listing Date and such report will be released on the website of the Stock Exchange.

Have the auditors consented to the inclusion of their audit reports in our First Supplemental Disclosure Document and our Base Listing Document?

Our auditor and our Guarantor’s auditor (“**Auditors**”) have given and have not since withdrawn their written consent to the inclusion of their audit reports dated 12 April 2023 and 21 February 2023 respectively and/or the references to their names in our First Supplemental Disclosure Document and our Base Listing Document, in the form and context in which they are included. Their audit reports were not prepared for incorporation into our First Supplemental Disclosure Document and our Base Listing Document. The Auditors do not own any of our shares or shares in any member of our group, nor do they have the right (whether legally enforceable or not) to subscribe for or to nominate persons to subscribe for our securities or securities of any member of our group.

Authorisation of the Warrants

The issue of the Warrants was authorised by resolutions of our board of directors on 21 March 2023. The giving of the guarantee dated 23 March 2023 (the “**Guarantee**”) was authorised pursuant to resolutions of the board of directors of our Guarantor adopted on 8 December 2015.

Selling restrictions

The Warrants have not been and will not be registered under the United States Securities Act of 1933, as amended (the “**Securities Act**”), and will not be offered, sold, delivered or traded, at any time, indirectly or directly, in the United States or to, or for the account or benefit of, any U.S. person (as defined in the Securities Act).

The offer or transfer of the Warrants is also subject to the selling restrictions specified in our Base Listing Document.

Capitalised terms and inconsistency

Unless otherwise specified, capitalised terms used in this document have the meanings set out in the Conditions. If this document is inconsistent with our Base Listing Document, this document shall prevail.

INFORMATION ON THE INDEX

<i>The information on the Index set out below is extracted from or based on publicly available information and, in particular, information from the Index Compiler at its website. We do not give any representation whatsoever as to the truth, accuracy, completeness, adequacy or reasonableness of any of the information contained therein whether as at the date of this document or any other time, save that we have taken reasonable care to correctly extract, summarise and/or reproduce such information.</i>
Who is the Index Compiler? Hang Seng Indexes Company Limited. The Index is managed and compiled by the Index Compiler, which is a wholly-owned subsidiary of Hang Seng Bank Limited.
How is the Index level disseminated? The Index level is disseminated through the website of the Index Compiler at http://www.hsi.com.hk and various information vendors. You should contact your stockbroker for further information.
Description of the Index The Index tracks the performance of the 30 largest technology companies listed in Hong Kong selected by the Index Compiler. The objective of the Index is to represent the 30 largest technology companies listed in Hong Kong which have high business exposure to the technology themes. It includes securities of Greater China companies that are listed on the Main Board of the HKEX, and excludes Foreign Companies and Investment Companies listed under Chapter 21 of HKEX’s Listing Rules. As disclosed in the factsheet in respect of the Index published on the Index Compiler’s website at https://www.hsi.com.hk/static/uploads/contents/en/dl_centre/factsheets/hsteche.pdf (“Index Factsheet”), the key features of the Index are as follows: • The Index includes the 30 largest technology companies listed in Hong Kong that are: ■ classified under: Industrials, Consumer Discretionary, Healthcare, Financials or Information Technology industries; ■ with high business exposure to the selected technology themes: Cloud, Digital, E-Commerce, FinTech or Internet; and ■ considered innovative by operating a technology-enabled business, with strong Research & Development investment or exhibit high revenue growth. • The Index is freefloat market capitalization weighted with 8% cap on individual constituent weighting. As stated in the Index Factsheet: • All information contained in the Index Factsheet is provided for reference only. Hang Seng Indexes Company Limited ("HSIL") ensures the accuracy and reliability of the above information to the best of its endeavours. However, HSIL makes no warranty or representation as to the accuracy, completeness or reliability of any of the information contained therein and accepts no liability (whether in tort or contract or otherwise) whatsoever to any person for any damage or loss of any nature arising from or as a result of reliance on any of the contents of this document, or any errors or omissions in its contents and such contents may change from time to time without notice. • Investors should also note that value of securities and investments can go down as well as up and past performance is not necessarily indicative of future performance. The information contained in the Index Factsheet is not intended to provide professional advice and should not be relied upon in that regard. Any person intending to use any information obtained from the Index Factsheet are advised to obtain appropriate professional advice.
Constituent stocks of the Index The Index represents the 30 largest technology companies listed in Hong Kong that have high business exposure to technology themes as selected by the Index Compiler and pass the Index's screening criteria. An updated list of the constituent stocks comprising the Index is available at https://www.hsi.com.hk/eng/indexes/all-indexes/hstech. You may also review historical change of the constituent stocks on this website. Rebalancing review of the Index constituent stocks will be conducted on a quarterly basis based on data cut-off as of end of March, June, September and December each year.
How is the Index calculated? You may access the methodology document for the Index at: https://www.hsi.com.hk/static/uploads/contents/en/dl_centre/methodologies/IM_hsteche.pdf, which should be read in conjunction with the Index Methodology General Guide on the Index Compiler’s website at: https://www.hsi.com.hk/static/uploads/contents/en/dl_centre/methodologies/index_methodology_guide_e.pdf. The Index Compiler has adopted a freefloat-adjusted market capitalisation weighting with a designated cap on each constituent stock for calculation of the Index level in accordance with the following formula: Current Index = $\frac{\sum (Pt \times IS \times FAF \times AF \times CF)}{\sum (Pt-1 \times IS \times FAF \times AF \times CF)}$ x Yesterday’s Closing Index Pt : Current Price at Day t Pt-1 : Closing Price at Day (t-1) IS : Issued Shares FAF : Freefloat-adjusted Factor, which is between 0 and 1 AF : Adjustment Factor, which is between 0 and 1 CF : Cap Factor, which is between 0 and 1

What are the arrangements if the Index is not published by the Index Compiler?		
Under the licence granted by Hang Seng Data Services Limited for our use of the Index, if the Index Compiler ceases to calculate and publish the Index, the Index Compiler shall inform us as soon as practicable specifying whether or not a replacement or substitute index will be available, in which case, we shall have the right to use such replacement or substitute index in connection with the Warrants. If the Index Compiler does not offer any replacement or substitute index, we will have an option either to terminate the use of the Index or continue to use the formula of the Index and its constituent stocks existing immediately prior to such cessation for the sole purpose of calculating the Cash Settlement Amount payable at expiry and any related value of the Warrants.		
What are the historic highs and lows of the Index since its launch date on 27 July 2020?		
As at the Launch Date, the highest and lowest closing levels of the Index since its launch date of 27 July 2020 are:		
Year	Highest closing level	Lowest closing level
27 July 2020 – 31 December 2020	8,426.07	6,774.78
2021	10,945.22	5,471.87
2022	5,899.82	2,801.99
2023 (up to the Launch Date)	4,813.23	3,626.73
Simulated highs and lows of the Index disclosed by the Index Compiler *		
All information about the simulated closing levels of the Index compiled by the Index Compiler and published on its website (covering the 5 years period prior to the actual launch date of the Index) is back-tested and reflects hypothetical historical performance of the Index only. Please refer to the risk factor headed “Back-tested closing level information does not reflect the actual past performance of the Index” set out in the section headed “Key Risk Factors” in this document.		
The simulated hypothetical highest and lowest closing levels of the Index* from the years 2015 to 2019 and the period from 1 January to 26 July 2020 are:		
Year / Period	Highest closing level	Lowest closing level
2015	4,719.87	2,697.35
2016	3,852.80	2,720.06
2017	6,247.36	3,651.91
2018	5,890.21	3,352.88
2019	4,738.77	3,253.45
1 January – 26 July 2020	7,776.77	3,988.02
* The Index was launched on 27 July 2020 and does not have actual historic closing levels prior to its launch date. As stated on the Index Compiler’s website, all information for the Index prior to its launch date is back-tested, which performance reflects hypothetical historical performance.		
What is the closing level of the Index on the latest practicable date?		
According to information published on the Index Compiler’s website, the closing level of the Index as at the close of business on the Launch Date (being the latest practicable date prior to the date of this document) was 4,104.36.		

Index disclaimer

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KEY RISK FACTORS

You must read these key risk factors together with the risk factors set out in our Base Listing Document. These key risk factors do not necessarily cover all risks related to the Warrants. If you have any concerns or doubts about the Warrants, you should obtain independent professional advice.

Non-collateralised structured products

The Warrants are not secured on any of our or our Guarantor's assets or any collateral.

Credit risk

If you invest in the Warrants, you are relying on our creditworthiness and our Guarantor's creditworthiness and of no other person. If we become insolvent or default on our obligations under the Warrants or our Guarantor becomes insolvent or defaults on its obligations under the Guarantee, you can only claim as our or our Guarantor's unsecured creditor regardless of the performance of the Index and you may not be able to recover all or even part of the amount due under the Warrants (if any). You have no rights under the terms of the Warrants against the Index Compiler or any company which has issued any constituent securities of the Index.

Warrants are not principal protected and may expire worthless

Given the gearing feature inherent in the Warrants, a small change in the Index level may lead to a substantial price movement in the Warrants.

Unlike stocks, the Warrants have a limited life and will expire on the Expiry Date. In the worst case, the Warrants may expire with no value and you will lose all of your investment. Derivative warrants may only be suitable for experienced investors who are willing to accept the risk that they may lose all their investment.

The Warrants can be volatile

Prices of the Warrants may rise or fall rapidly. You should carefully consider, among other things, the following factors before dealing in the Warrants:

- (i) the prevailing trading price of the Warrants;
- (ii) the Strike Level of the Warrants;
- (iii) the level and volatility of the Index;
- (iv) the time remaining to expiry;
- (v) the probable range of the Cash Settlement Amount;
- (vi) the interim interest rates and expected dividend payments or other distributions on any components comprising the Index;
- (vii) the liquidity of the futures contracts relating to the Index;
- (viii) the related transaction costs (including the Exercise Expenses, if any);
- (ix) the supply and demand for the Warrants; and
- (x) the creditworthiness of the Issuer and our Guarantor.

The price of a Warrant may be affected by all these factors in addition to the Index level. Therefore, movements in the price of the Warrants may not be proportionate or may even be opposite to the movement in the level of the Index. You should consider all these factors collectively when making your investment decision.

Time decay

All other factors being equal, the value of a Warrant is likely to decrease over time. Therefore, the Warrants should not be viewed as a product for long term investments.

Possible limited secondary market

The Liquidity Provider may be the only market participant for the Warrants and therefore the secondary market for the Warrants may be limited. The more limited the secondary market, the more difficult it may be for you to realise the value in the Warrants prior to expiry.

You should also be aware that the Liquidity Provider may not be able to provide liquidity when there are operational and technical problems hindering its ability to do so. Even if the Liquidity Provider is able to provide liquidity in such circumstances, its performance of liquidity provision may be adversely affected. For example:

- (i) the spread between bid and ask prices quoted by the Liquidity Provider may be significantly wider than its normal standard;
- (ii) the quantity for which liquidity will be provided by the Liquidity Provider may be significantly smaller than its normal standard; and/or
- (iii) the Liquidity Provider's response time for a quote may be significantly longer than its normal standard.

Risk for newly launched Index

The Index is a new index launched in July 2020 only. Financial products linked to the Index (including the Warrants) may be more volatile and riskier than other financial products linked to a more established index with a longer operating and actual trading history.

Back-tested closing level information does not reflect the actual past performance of the Index

The Index was launched on 27 July 2020. All information about the historic closing levels of the Index prior to its launch date, including the simulated hypothetical historic highs and lows of the Index for the last 5 years as set out in the section headed "Information on the Index" in this document, does not reflect the Index's actual past performance. Instead, such information is back-tested and reflects hypothetical historical performance of the Index only.

In particular, a number of the constituent stocks of the Index have a trading history of less than five years. This may adversely affect the creditability and/or reliability of such back-testing to reflect the performance trends of the Index in the future. You should not rely on such hypothetical historical performance of the Index as the sole basis for your investment decision.

Change of calculation methodology or failure to publish the Index

If there is a material change in the calculation of the Index level or a failure to publish the Index, we may determine the Closing Level on the basis of the method last in effect prior to such change or failure.

Publication of Index level when component shares are not trading

The Index Compiler may publish the Index level at a time when one or more shares comprising the Index are not trading.

Suspension of trading

If the calculation and/or publication of the Index level by the Index Compiler is suspended for whatever reasons, trading in the Warrants may be suspended for a similar period. In such case, the price of the Warrants may be subject to a significant impact of time decay due to such suspension and may fluctuate significantly upon resumption of trading, which may adversely affect your investment.

Adjustment related risk

The occurrence of certain events (including, without limitation, a succession of the Index or Index Compiler, modification or cessation of calculation of the Index) may entitle us to adjust the terms and conditions of the Warrants. However, we are not obliged to adjust the terms and conditions of the Warrants for every event that affects the Index. Any adjustment or decision not to make any adjustment may adversely affect the value of the Warrants. Please refer to Condition 6 for details about adjustments.

Possible early termination

We may early terminate the Warrants if it becomes illegal or impracticable for us (i) to perform our obligations under the Warrants as a result of a change in law event, or (ii) to maintain our hedging arrangement with respect to the Warrants due to a change in law event. In such event, the amount payable by us (if any) will be the fair market value of the Warrants less our costs of unwinding any related hedging arrangements as determined by us, which may be substantially less than your initial investment and may be zero. Please refer to Condition 12 for details about our early termination rights.

Time lag between exercise and settlement of the Warrants

There is a time lag between exercise of the Warrants and payment of the Cash Settlement Amount net of Exercise Expenses (if any). There may be delays in the electronic settlement or payment through CCASS.

Conflict of interest

We and our subsidiaries and affiliates engage in a wide range of commercial and investment banking, brokerage, funds management, hedging, investment and other activities and may possess material information about the Index or issue or update research reports on the Index. Such activities, information and/or research reports may involve or affect the Index and may cause consequences adverse to you or otherwise create conflicts of interests in connection with the issue of the Warrants. We have no obligation to disclose such information and may issue research reports and engage in any such activities without regard to the issue of the Warrants.

In the ordinary course of our business, we and our subsidiaries and affiliates may effect transactions for our own account or for the account of our customers and may enter into one or more transactions with respect to the Index or related derivatives. This may indirectly affect your interests.

No direct contractual rights

The Warrants are issued in global registered form and are held within CCASS. You will not receive any definitive certificate and your name will not be recorded in the register of the Warrants. The evidence of your interest in the Warrants, and the efficiency of the ultimate payment of the Cash Settlement Amount net of Exercise Expenses (if any), are subject to the CCASS Rules. You will have to rely on your broker (or, if applicable, its direct or indirect custodians) and the statements you receive from it as evidence of your interest in the Warrants. You do not have any direct contractual rights against us or our Guarantor. To assert your rights as an investor in the Warrants, you will have to rely on your broker (and, if applicable, its direct or indirect custodian) to take action on your behalf. If your broker or, if applicable, its direct or indirect custodian:

- (i) fails to take action in accordance with your instructions;
- (ii) becomes insolvent; or
- (iii) defaults on its obligations,

you will need to take action against your broker in accordance with the terms of arrangement between you and your broker to establish your interest in the Warrants first before you can assert your right of claim against us. You may experience difficulties in taking such legal proceedings. This is a complicated area of law and you should seek independent legal advice for further information.

The Listing Documents should not be relied upon as the sole basis for your investment decision

The Listing Documents do not take into account your investment objectives, financial situation or particular needs. Nothing in the Listing Documents should be construed as a recommendation by us or our affiliates to invest in the Warrants or any futures contracts relating to the Index.

Not the ultimate holding company of the group

We and our Guarantor are not the ultimate holding company of the group to which we belong.

Financial Institutions (Resolution) Ordinance

The Financial Institutions (Resolution) Ordinance (Cap. 628, the Laws of Hong Kong) (the “**FIRO**”) was enacted by the Legislative Council of Hong Kong in June 2016. The FIRO (except Part 8, section 192 and Division 10 of Part 15 thereof) came into operation on 7 July 2017.

The FIRO establishes a regime for the orderly resolution of financial institutions with a view to avoiding or mitigating the risks otherwise posed by their non-viability to the stability and effective working of the financial system of Hong Kong, including the continued performance of critical financial functions. The FIRO seeks to empower the resolution authorities with authority to decide whether to initiate the resolution of a financial institution and which stabilization options to apply and other powers to exercise in effecting a resolution. In particular, it is envisaged that subject to certain safeguards, the relevant resolution authority would be provided with powers to affect contractual and property rights as well as payments (including in respect of any priority of payment) that creditors would receive in resolution, including but not limited to powers to write off, or convert into equity, all or a part of the liabilities of the failing financial institution.

The Issuer is not subject to or bound by the FIRO. However, the Guarantor, as an authorised institution regulated by the Hong Kong Monetary Authority, is subject to and bound by the FIRO. The exercise of any resolution power by the relevant resolution authority under the FIRO in respect of the Guarantor may have a material adverse effect on the value of the Warrants, and as a result, you may not be able to recover all or any amount due under the Warrants (if any).

Updated Information about Us and our Guarantor

There is no supplemental information about the Issuer or our Guarantor.

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