



**Altech Chemicals**  
Limited

## ASX ANNOUNCEMENT AND MEDIA RELEASE

22 February 2023

# ALTECH –ADDITIONAL INFORMATION FOR DIRECTOR TUNKU YAACOB KYHRA APPENDIX 3Y

Altech Chemicals Limited (Altech/the Company) (ASX: ATC and FRA: A3Y) takes this opportunity to provide additional information to the market in relation to recent Appendix 3Ys lodged by the Company for Non-Executive Director the Right Hon. Tunku Yaacob Khyra.

The sale of Altech shares disclosed in the Appendix 3Ys have been transacted by MAA Group Berhad (“MAAG”). MAAG is a Malaysian investment holding company listed on the Main Board of Bursa Malaysia. MAAG holds investments in many different entities, one of which is Altech. Tunku Yaacob Khyra is a director of MAAG and has a deemed substantial interest in MAAG, and accordingly, MAAG is deemed a related party of Tunku Yaacob Khyra. Given this relationship, any change in MAAG’s shareholding in Altech must be disclosed to the ASX by Altech by lodgement of an Appendix 3Y.

Managing Director Iggy Tan commented *“Altech has been advised by the Board of MAAG that the recent change in shareholder position does not reflect its positive outlook of Altech’s CERENERGY® Battery Project and Silumina Anodes™ Battery Materials Coating Project in Germany, as well as the HPA project in Malaysia. Despite this change, MAAG and Tunku Yaacob Khyra remain fully supportive and dedicated to the long-term success of Altech”.*

### Altech Chemicals Interactive Investor Hub

Engage with Altech directly by asking questions, watching video summaries and seeing what other shareholders have to say about this, as well as past announcements, at our Investor Hub <https://investorhub.altechchemicals.com>

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Authorised by: Iggy Tan (Managing Director)

For more information, please contact:

**Corporate**

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## **About Altech Chemicals Ltd (ASX:ATC) (FRA:A3Y)**

### **CERENERGY® Batteries Project**

Altech Chemicals Ltd is a specialty battery technology company that has a joint venture agreement with world leading German battery institute Fraunhofer IKTS ("Fraunhofer") to commercialise the revolutionary CERENERGY® Sodium Alumina Solid State (SAS) Battery. CERENERGY® batteries are the game-changing alternative to lithium-ion batteries. CERENERGY® batteries are fire and explosion-proof; have a life span of more than 15 years and operate in extreme cold and desert climates. The battery technology uses table salt and is lithium-free; cobalt-free; graphite-free; and copper-free, eliminating exposure to critical metal price rises and supply chain concerns.

The joint venture is commercialising its CERENERGY® battery, with plans to construct a 100MWh production facility on Altech's land in Saxony, Germany. The facility intends to produce CERENERGY® battery modules to provide grid storage solutions to the market.



### **Silumina Anodes™ Battery Materials Project**

Altech has licenced its proprietary high purity alumina coating technology to 75% owned subsidiary Altech Industries Germany GmbH (AIG), which has commenced a definitive feasibility study for the development of a 10,000tpa silicon/graphite alumina coating plant in the state of Saxony, Germany to supply its Silumina Anodes™ product to the burgeoning European electric vehicle market.

This Company recently announced its game changing technology of incorporating high-capacity silicon into lithium-ion batteries. Through in house R&D, the Company has cracked the "silicon code" and successfully achieved a 30% higher energy battery with improved cyclability or battery life. Higher density batteries result in smaller, lighter batteries and substantially less greenhouse gases, and is the future for the EV market. The Company's proprietary silicon graphite product is registered as Silumina Anodes™.

The Company is in the race to get its patented technology to market, and recently announced the results of a preliminary feasibility study (PFS) for the construction of a 10,000tpa Silumina Anode™ material plant at AIG's 14-hectare industrial site within the Schwarze Pumpe Industrial Park in Saxony, Germany. The European graphite and silicon feedstock supply partners for this plant will be SGL Carbon and Ferroglobe. The project has also received green accreditation from the independent Norwegian Centre of International Climate and Environmental Research (CICERO). To support the development, AIG has commenced construction of a pilot plant adjacent to the proposed project site to allow the qualification process for its Silumina Anodes™ product. AIG has executed NDAs with two German automakers as well as a European based battery company.



### **HPA Production Project**

Altech is also further aiming to become a supplier of 99.99% (4N) high purity alumina (Al<sub>2</sub>O<sub>3</sub>) through the construction and operation of a 4,500tpa high purity alumina (HPA) processing plant at Johor, Malaysia, and has finalised Stage 1 and Stage 2 construction of its HPA plant in Johor, Malaysia. Feedstock for the plant will be sourced from the Company's 100%-owned near surface kaolin deposit at Meckering, Western Australia and shipped to Malaysia. The HPA project is significantly de-risked with a bankable feasibility study completed, senior lender project finance from German government owned KfW IPEX-Bank approved, and a German EPC contractor appointed – with initial construction works at the site completed. In addition to the senior debt, conservative (bank case) cash flow modelling of the HPA plant shows a pre-tax net present value of USD 505.6million at a discount rate of 7.5%. The project generates annual average net free cash of ~USD76million at full production. Altech is in the final stages of project finance with a potential raising of US\$100m of secondary debt via the listed green bond market. In addition, US\$100m of project equity is being sought through potential project joint venture partners.

## Appendix 3Y

### Change of Director's Interest Notice

*Information or documents not available now must be given to ASX as soon as available. Information and documents given to ASX become ASX's property and may be made public.*

Introduced 30/09/01 Amended 01/01/11

<b>Name of entity:</b> Altech Chemicals Ltd
<b>ABN:</b> 45 125 301 206

We (the entity) give ASX the following information under listing rule 3.19A.2 and as agent for the director for the purposes of section 205G of the Corporations Act.

<b>Name of Director</b>	Tunku Yaacob Khyra
<b>Date of last notice</b>	14 February 2023

#### **Part 1 - Change of director's relevant interests in securities**

*In the case of a trust, this includes interests in the trust made available by the responsible entity of the trust*

Note: In the case of a company, interests which come within paragraph (j) of the definition of "notifiable interest of a director" should be disclosed in this part.

<b>Direct or indirect interest</b>	Direct and Indirect
<b>Nature of indirect interest (including registered holder)</b> Note: Provide details of the circumstances giving rise to the relevant interest.	<b>Indirect Interest</b> Melewar Equities (BVI) Limited ("MEBVI"), a company in which Tunku Yaacob Khyra has indirect interests by virtue of him being a beneficial owner of the holding company of MEBVI (ordinary shares are registered in the names of RHB Investment Bank Berhad, CA Indosuez (HSBC Custody Nominees), and UOB Kay Hian Private Limited).  Melewar Acquisitions Limited and MEBVI, companies in which Tunku Yaacob Khyra has deemed interest, is a major shareholder of MAA Group Berhad.
<b>Date of change</b>	16 February 2023

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+ See chapter 19 for defined terms.

**Appendix 3Y**  
**Change of Director's Interest Notice**

<b>No. of securities held prior to change</b>	a) <b>Indirect:</b> 105,663,348 Ordinary Shares – Melewar Equities (BVI) Limited: 44,038,984 – MAA Group Berhad: 61,624,364 b) <b>Direct:</b> 1,000,000 Performance Rights
<b>Class</b>	a) Fully paid ordinary shares b) Performance rights
<b>Number acquired</b>	Nil
<b>Number disposed</b>	1,782,000 fully paid ordinary shares
<b>Value/Consideration</b> <small>Note: If consideration is non-cash, provide details and estimated valuation</small>	\$150,684.70
<b>No. of securities held after change</b>	(a) <b>Indirect:</b> 103,881,348 Ordinary Shares – Melewar Equities (BVI) Limited: 44,038,984 – MAA Group Berhad: 59,842,364 (b) <b>Direct:</b> 1,000,000 Performance Rights
<b>Nature of change</b> <small>Example: on-market trade, off-market trade, exercise of options, issue of securities under dividend reinvestment plan, participation in buy-back</small>	On market transfer

**Part 2 – Change of director's interests in contracts**

Note: In the case of a company, interests which come within paragraph (ii) of the definition of "notifiable interest of a director" should be disclosed in this part.

<b>Detail of contract</b>	
<b>Nature of interest</b>	
<b>Name of registered holder (if issued securities)</b>	
<b>Date of change</b>	
<b>No. and class of securities to which interest related prior to change</b> <small>Note: Details are only required for a contract in relation to which the interest has changed</small>	
<b>Interest acquired</b>	

+ See chapter 19 for defined terms.

**Appendix 3Y**  
**Change of Director's Interest Notice**

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<b>Interest disposed</b>	
<b>Value/Consideration</b> Note: If consideration is non-cash, provide details and an estimated valuation	
<b>Interest after change</b>	

**Part 3 – +Closed period**

<b>Were the interests in the securities or contracts detailed above traded during a +closed period where prior written clearance was required?</b>	No.
<b>If so, was prior written clearance provided to allow the trade to proceed during this period?</b>	
<b>If prior written clearance was provided, on what date was this provided?</b>	

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+ See chapter 19 for defined terms.