



Altech Chemicals
Limited

ASX ANNOUNCEMENT AND MEDIA RELEASE

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ALTECH – HPA PLANT CONSTRUCTION UPDATE OCTOBER 2019

Highlights

- Stage 1 construction completed on budget and on schedule
- Successful inspection and handover of facilities to Altech
- Achievement of 100,000 hours of lost time injury (LTI) free work on site
- Stage 2 construction continues to progress
- Electrical substation construction has commenced

Altech Chemicals Limited (Altech/the Company) (ASX: ATC) (FRA: A3Y) is pleased to provide an update on the current status of construction activities at the Company's high purity alumina (HPA) plant site in Johor, Malaysia.

Stage 1 construction works have now completed on budget and on schedule. The final site inspection of the works was recently carried out by Altech, with no defects or significant "punch-list" items identified. The stage 1 facilities have now been formally handed-over to Altech by the EPC contract consortium (SMS group and Metix). The stage 1 handover items consisted of the maintenance workshop building (Figures 1 and 2); all site retaining walls (Figure 3); and the on-site detention (OSD) storm water tanks at the rear of the plant site (Figures 4 and 5). To date a total of 100,000 lost time injury (LTI) free working hours have been completed at the HPA plant construction site.

During Stage 1 construction a total of 207 employees and contractors completed site safety inductions, with the maximum site workforce reaching a compliment of 82. All construction activities were completed with zero (0) first aid or medical treatment incidents and zero (0) lost time injuries. These results are testament to the professionalism of the construction consortium, sub-contractors and all others engaged in the construction activities.

Stage 2 engineering continues to progress, with SMS group having recently placed orders with various vendors for the commencement of engineering packages covering approximately 50% of the long lead items. Completion of the packages will position SMS group to proceed to final detailed engineering of structures and piping in readiness for plant construction.

Also, construction of the on-site electrical substation has now commenced. Preliminary excavation, earthworks and the pouring of concrete foundations were recently completed (Figure 7). Construction of the substation structure is expected to commence during November 2019, once various off-site fabrication works are complete.

Figure 1 – Completed Maintenance Workshop Building



Figure 2 - Completed Maintenance Workshop Building



Figure 3 – Site Boundary Retaining Walls



Figure 4 – Completed OSD Tanks



Figure 5 – Inspection of the OSD Tanks

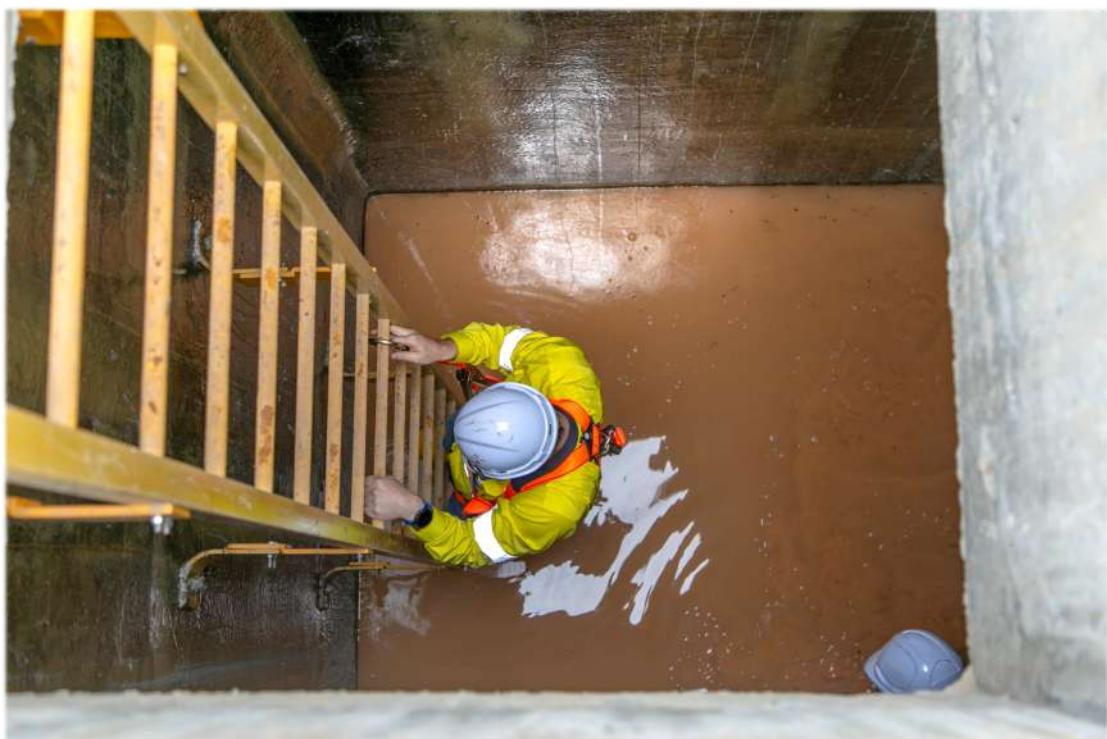


Figure 6 – Stage 1 Handover Inspection Team



Figure 7 – Electrical Substation Foundations



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For more information, please contact:

Corporate

Iggy Tan
Managing Director
Altech Chemicals Limited
Tel: +61 8 6168 1555
Email: info@altechchemicals.com

Shane Volk
Company Secretary
Altech Chemicals Limited
Tel: +61 8 6168 1555
Email: info@altechchemicals.com

Investor Relations (Europe)

Kai Hoffmann
Soar Financial Partners
Tel: +49 69 175 548320
Email: hoffmann@soarfinancial.com
Wir sprechen Deutsch.

About Altech Chemicals (ASX:ATC) (FRA:A3Y)

Altech Chemicals Limited (Altech/the Company) is aiming to become one of the world's leading suppliers of 99.99% (4N) high purity alumina (Al₂O₃) through the construction and operation of a 4,500tpa high purity alumina (HPA) processing plant at Johor, Malaysia. Feedstock for the plant will be sourced from the Company's 100%-owned kaolin deposit at Meckering, Western Australia and shipped to Malaysia.

HPA is a high-value, high margin and highly demanded product as it is the critical ingredient required for the production of synthetic sapphire. Synthetic sapphire is used in the manufacture of substrates for LED lights, semiconductor wafers used in the electronics industry, and scratch-resistant sapphire glass used for wristwatch faces, optical windows and smartphone components. Increasingly HPA is used by lithium-ion battery manufacturers as the coating on the battery's separator, which improves performance, longevity and safety of the battery. With global HPA demand approximately 19,000t (2018), it is estimated that this demand will grow at a compound annual growth rate (CAGR) of 30% (2018-2028); by 2028 HPA market demand is forecast to be approximately 272,000t, driven by the increasing adoption of LEDs worldwide as well as the demand for HPA by lithium-ion battery manufacturers to serve the surging electric vehicle market.



German engineering firm SMS group GmbH (SMS) is the appointed EPC contractor for construction of Altech's Malaysian HPA plant. SMS has provided a USD280 million fixed price turnkey contract and has proposed clear and concise guarantees to Altech for plant throughput and completion. Altech has executed an off-take sales arrangement with Mitsubishi Corporation's Australian subsidiary, Mitsubishi Australia Ltd (Mitsubishi) covering the first 10-years of HPA production from the plant.

Conservative (bank case) cash flow modelling of the project shows a pre-tax net present value of USD505.6million at a discount rate of 7.5%. The project is forecast to generate annual average net free cash of ~USD76million at full production (allowing for sustaining capital and before debt servicing and tax), with an attractive margin on HPA sales of ~63%. (Refer to ASX Announcement *"Positive Final Investment Decision Study for 4,500TPA HPA project"* dated 23 October 2017 for complete details. The company confirms that as at the date of this announcement there are no material changes to the key assumptions adopted in the study).

The Company has been successful in securing senior project debt finance of USD190 million from German government owned KfW IPEX-Bank as senior lender. Altech has also mandated Macquarie Bank (Macquarie) as the preferred mezzanine lender for the project. The indicative and non-binding mezzanine debt term sheet (progressing through due diligence) is for a facility amount of up to USD90 million. To maintain project momentum during the period leading up to financial close, Altech has raised ~A\$39 million in the last 24 months to fund the commencement of Stage 1 and 2 of the plant's construction; Stage 1 construction commenced in February 2019 with Stage 2 now underway.

Altech recently announced the sale of an option to Frankfurt stock exchange listed Youbisheng Green Paper AG (since renamed Altech Advanced Materials AG (AAM)), whereby AAM can acquire up to a 49% interest in Altech's HPA project for USD100 million. AAM has commenced the process of securing the funds to enable it to exercise its option, which once complete, it is expected would be a catalyst for project financial close.

Forward-looking Statements

This announcement contains forward-looking statements which are identified by words such as 'anticipates', 'forecasts', 'may', 'will', 'could', 'believes', 'estimates', 'targets', 'expects', 'plan' or 'intends' and other similar words that involve risks and uncertainties. Indications of, and guidelines or outlook on, future earnings, distributions or financial position or performance and targets, estimates and assumptions in respect of production, prices, operating costs, results, capital expenditures, reserves and resources are also forward-looking statements. These statements are based on an assessment of present economic and operating conditions, and on a number of assumptions and estimates regarding future events and actions that, while considered reasonable as at the date of this announcement and are expected to take place, are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies. Such forward-looking statements are not guarantees of future performance and involve known and unknown risks, uncertainties, assumptions and other important factors, many of which are beyond the control of the Company, the directors and management. We cannot and do not give any assurance that the results, performance or achievements expressed or implied by the forward-looking statements contained in this announcement will actually occur and readers are cautioned not to place undue reliance on these forward-looking statements. These forward-looking statements are subject to various risk factors that could cause actual events or results to differ materially from the events or results estimated, expressed or anticipated in these statements.