



Alpha **HPA**

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The Manager Companies - ASX Limited
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ASX: **A4N**
ASX Announcement
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(3 pages by email)

HPA FIRST PROJECT UPDATE

- **Large HPA test orders received from sapphire glass/LED manufacturers**
- **Increased volume 'demonstration scale' Pilot Plant run to commence next month**
- **Project Permitting and Project Financing activities advanced**

The Board of Alpha HPA Limited ('Alpha HPA' or 'the Company') is pleased to provide an update on activities for its HPA First Project, representing the evaluation and intended commercialisation of the production of ~10,000tpa of high purity alumina (HPA) using the Company's proprietary licenced solvent extraction (SX) and HPA refining technology.

TECHNICAL

Large HPA test order received from US based sapphire glass manufacturer

As part of the Company commencing its market outreach activities into the sapphire glass/LED market, Alpha HPA has now received a large (90kg) test sample order from a US based sapphire glass counterparty, following a review of Alpha's HPA product specifications. The order is in addition to a standing order from a South Korean based sapphire glass/LED counterparty.

Increased volume 'demonstration scale' pilot run to commence next month

To meet the larger volume sample order the Company has commenced preparations for an increased-volume 'demonstration scale' run through the HPA First Pilot Plant. The Company has already installed a demonstration scale pre-cursor circuit (see image below) and its existing drying and calcination circuits are already scaled to meet the larger volume. The Company plans to use its existing SX circuit, operating at increased throughput.



Demonstration scale pre-cursor circuit in place



Alpha **HPA**

COMMERCIAL

Project Financing

Alpha HPA is working with Brisbane based KPMG Debt Advisory Team (KPMG DAT), to co-ordinate the project financing process for the HPA First Project. Initial meetings have been held with key Australian Government backed lending agencies, and Alpha HPA is servicing follow up requests for additional information.

Orica ECG Activities advanced

Alpha HPA and Orica have progressed a number of engineering considerations around Project interface under the Engineering Co-operation Group (ECG). Key activities are focussed on by-product treatment and delivery and engineering of the by-product concentration area.

HPA First Project Permitting

The Company continues to progress key project permitting steps under the guidance of external consultants AECOM, with recent activity directed at key permitting considerations of the road interface between the Orica and Alpha HPA Project sites, as well as preparing documentation for various QLD Govt agencies.

Managing Director, Rimas Kairaitis, commented; *"We are very encouraged to now be receiving test sample HPA orders from the sapphire glass/LED industry as our market outreach work into this sector begins to expand. The recent supply chain developments in both the LED and lithium-ion battery sectors are considered overall constructive for Alpha's HPA Project given its Australian jurisdiction"*

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About the HPA First Project

The Company's HPA First Project represents the evaluation and intended commercialisation of the production of ~10,000tpa of high purity alumina (HPA) using the Company's proprietary licenced solvent extraction and HPA refining technology. The technology provides for the extraction and purification of aluminium from an industrial feedstock to produce 4N (>99.99% purity) alumina for the intended use within the lithium ion battery and LED lighting industry. Following a successful testwork program and completion of a Pre-Feasibility Study (PFS), updated in March 2019, Alpha HPA has now completed Definitive Feasibility Study (DFS) based on the successful completion of its Pilot Plant program at its dedicated laboratory facility in Brisbane.

The Company has commenced full permitting, market outreach and project financing processes, with the expectation of positioning the HPA First Project to Final investment Decision.

Competent Persons Statement (Process Development Testwork)

Information in this announcement that relates to metallurgical results is based on information compiled by or under the supervision of Dr Stuart Leary, an Independent Consultant trading as Delta Consulting Group. Dr Leary is a Member of The Australasian Institute of Mining and Metallurgy (AusIMM). Dr Leary has sufficient experience to the activity which he is undertaking to qualify as a Competent Persons under the 2012 Edition of the 'Australasian Code for reporting of Exploration Results, Mineral Resources and Ore Reserves'. Dr Leary consents to the inclusion of the technical data in the form and context in which it appears.

For further information on testwork results and processes see ASX announcements dated 23 April 2020, 25 March 2020, 17 March 2020, 10 December 2019, 21 November 2019, 10 October 2019, 23 September 2019, 28 August 2019, 5 August 2019, 25 July 2019, 2 July 2019, 3 June 2019, 17 April 2019, 7 March 2019, 4 December 2018, 20 November 2018, 6 September 2018, 31 August 2018, 9 July 2018, 30 April 2018, 26 April 2018, 21 March 2018, 6 March 2018, 21 February 2018, 8 December 2017, 30 November 2017, 29 November 2017, 24 November 2017 and 13 November 2017.