



first graphene

Australia's leading graphene company

ASX Announcement

18 April 2108

Binding MoU with SupremeSAT for Provision of Graphene in Miniature Satellites

Highlights

- Binding Memorandum of Understanding between the Company and SupremeSAT (Private) Limited
- SupremeSAT are aiming to become the largest assembler of miniature satellites in Asia
- Satellite market predicted to grow to US\$4.97bn by 2025
- The MoU will seek the commercialisation of graphene in SupremeSAT's Miniature Satellite Assembly Project

The Project

Advanced materials company, First Graphene Limited ("FGR" or "the Company") (ASX: FGR) is pleased to advise it has entered into a binding Memorandum of Understanding with SupremeSAT (Private) Ltd for the development of graphene enhanced componentry for SupremeSAT's Miniature Satellite Assembly Project. This represents a promising new field of opportunity for the deployment of graphene which seeks to utilise the qualities of strength, heat resistance and radiation shielding.

SupremeSAT's research has revealed the satellite market was worth US\$991m in 2016 and is expected to grow to US\$4.97b by 2025. Commercial purposes comprise 37% of the market, with civil purposes being 41% and the balance military and government purpose.

SupremeSAT is working on the Project with EnduroSAT (Private) Ltd of Bulgaria. Two leading universities in the USA will be joining this project shortly.

The Project will test satellite interconnectivity and data exchange between satellites and a data relay within a constellation. Initially a duo of 1.5U Cube Satellites will be assembled at SupremeSAT's Satellite Assembling facility – Pallekele – Kandy, with hardware for the satellites, training and other variants of engineering support coming from EnduroSAT.

The partners will be collaborating with FGR to develop graphene enhanced components, for both strength and weight reduction, but all also heat and radiation shielding.

The purpose of partnership between SupremeSAT and the Universities is to fix a duo of spacecraft components on board the two 1.5U CubeSat units assembled by SupremeSAT to gather vital information in the earth's atmosphere.

A duo of UHF ground tracking stations will be deployed at Pallekele – Kandy, within the area of SupremeSAT's existing state of the art teleport facility. Assembly of the satellites will occur within SupremeSAT's ISO-14644-1 Class 5 laboratory facility, which is also at Pallekele.

Managing Director, Craig McGuckin said "*We are excited to working with SupremeSAT on this project, which is aimed at developing low orbit, miniature satellites for the ADS – "Automatic Dependent Surveillance" system for aircraft.*"

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ASX Code

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About First Graphene Ltd (ASX: FGR)

First Graphene produces high quality graphene from high grade Sri Lankan vein graphite.

First Graphene seeks to develop graphene production methods and acquire graphene related intellectual property which can provide further revenue related opportunities.

About SupremeSAT (Private) Ltd

SupremeSAT has developed very rapidly over the last few years and has emerged as a leading regional integrated satellite operator.

Their first, jointly-owned satellite, SupremeSAT-I was launched in November 2012, and ever since the company has gone from strength to strength, expanding in many areas of the space business. SupremeSAT's state of the art teleport at Palkekele-Kandy is operational, providing a broad range of uplink and downlink services from a secure and strategically located position in the Indian Ocean. This space facility is also designated as the 'South Asia Space Academy' which functions as South Asia's sole private sector space research centre. The company's global growth ambitions were further consolidated with their recent partnership with Tatwah Smartec Ltd., the world's leading RFID and SMART TV Manufacturer.

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