



# GRAPHITE INDIA LIMITED

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GIL/SEC/SM/18-19/165

September 3, 2018

BSE Limited  
Corporate Relation Dept.  
P. J. Towers, Dalal Street  
Mumbai 400 001.  
Scrip Code : 509488

National Stock Exchange of India Ltd.  
“Exchange Plaza”,  
Bandra Kurla Complex, Bandra (East)  
Mumbai - 400 051.  
Symbol : GRAPHITE

Dear Sir/Madam,

**Subject : Press Release**

Please find enclosed Press Release to be released shortly.

This disclosure is being made in compliance with Regulation 30 of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015

This is for your information and records.

Thanking You

Yours truly,  
For Graphite India Limited

A handwritten signature in blue ink, appearing to read "Shoray".

S. Marda  
Assistant Company Secretary

Encl : As above.



For Immediate Release

September 3, 2018

**Graphite India Limited, through its wholly owned subsidiary in Netherlands, has signed a definitive agreement to acquire 46% stake in General Graphene Corporation for US\$ 18.6 million**

**Kolkata**, India, September 3, 2018 – Graphite India Limited, the largest Indian graphite electrode producer (referred to as “Graphite India” or the “Company”), through its wholly owned subsidiary in Netherlands, Graphite International BV has signed a definitive agreement for investment upto US\$ 18.6 million in cash in General Graphene Corporation (“General Graphene”). This investment would constitute approximately 46% stake in General Graphene and is aligned to the Company’s core business segment of Carbon and Graphite.

General Graphene, a US based unlisted company located in Knoxville (Tennessee), has developed a breakthrough proprietary technology which would allow them to produce large area, low cost graphene sheets industrial volumes for commercial applications. The investment will be made in multiple tranches over 2 to 3 years, based on the achievement of agreed milestones in the process of commercial production of graphene sheets.

**Commenting on the development, Mr. K K Bangur, Chairman of Graphite India said:**

“We are extremely pleased to partner with General Graphene in the development and commercialization of this disruptive and high end technology product. Graphene, with its unique properties of being the strongest, thinnest and lightest material known, is likely to open up new opportunities in high tech applications further driving efficiency and optimising costs. Graphite India’s investment in General Graphene is in line with its longstanding strategy of focusing on high end technologies. This initiative is expected to deliver meaningful growth in the long term once commercialization of the product is achieved and will result in enhanced value creation for all the stakeholders”.

#### About General Graphene

General Graphene, a US based unlisted company located in Knoxville (Tennessee), has developed a breakthrough proprietary technology which would allow them to produce large area, low cost graphene sheets industrial volumes for commercial applications. Graphene is a two dimensional sheet of pure carbon structured in a single layer of carbon atoms. Though it is chemically identical to both graphite and diamond, it is remarkably different. It is a very versatile material with its key properties being the strongest, thinnest and lightest material known. Graphene is also more conductive, both thermally and electrically, than any other material and is corrosion resistant, flexible, transparent and impermeable. The material is currently not available in commercial volumes. General Graphene is working on development of the same under an exclusive licensed patent from a renowned US based laboratory.

**Bio Electric Sensory Devices:** As Graphene offers high electrical conductivity, thinness and strength, it makes an excellent material for the development of fast and efficient bioelectric sensory devices, with the ability to monitor parameters such as glucose, haemoglobin and cholesterol levels.



**Electronic Touch Screens:** Graphene can transmit up to 97.7% of light, and is also highly conductive. Hence, there is a great potential for development of touchscreens for smartphones, tablets and desktop computers and televisions that are driven by Graphene.

**Filtration:** Another distinctive property of Graphene is that it can be perforated at the atomic level such that it allows liquids and gases to pass through it while it removes the smallest contaminants. This means that Graphene could be used as an ultrafiltration medium that is many times more sensitive than existing technologies. As a result, Graphene can be developed to be used in water filtration systems, low cost desalination systems and fuel cells.

**Aerospace:** Graphene is strong, yet very light. Carbon fibre has long been viewed as the future of aeronautics, but graphene is much stronger and lighter. It is expected that Graphene composites can replace steel and aluminium used in the structure of aircraft, improving fuel efficiency, range and reducing weight.

**Energy storage:** While all areas of electronics have been advancing at a very fast rate over the last few decades, the key constraint has been storing the energy in batteries and capacitors when it is not being used. Graphene can enhance the capabilities of lithium ion batteries to offer higher storage capacities with better longevity and a shorter charge time. Graphene batteries will be lighter, thinner, smaller and provide greater energy density.

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#### Analyst / Investor / Media Enquiries

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#### Graphite India: Fact Sheet

Graphite India Limited (NSE: GRAPHITE, BSE:509288) is the largest Indian producer of graphite electrodes and one of the largest globally, by total capacity. Its manufacturing capacity of 98,000 tonnes per annum is spread across four plants at Durgapur (54,000 MT), Bangalore (13,000 MT), and Nashik (13,000 MT) in India and Nurnberg in Germany (18,000 MT). The Company has over 50 years of technical expertise in the industry. Exports accounted for 37% of the total revenues in FY2018. Graphite India manufactures a full range of graphite electrodes but is focused on the higher margin, large diameter, ultra-high power ("UHP") electrodes. The Company is well poised in the global graphite electrode industry through its quality, scale of operations and low cost production base. Graphite India's competitive edge was particularly evident during the last decade, when low prices for graphite electrodes resulted in many of the leading players generating losses, but the Company however remained consistently profitable and declared dividends. With the recent structural changes in the industry, Graphite India is well positioned to capitalize on the market opportunities and remain one of the leading graphite electrode manufacturers globally.

#### Safe Harbour

This release contains statements that contain "forward looking statements" including, but without limitation, statements relating to the implementation of strategic initiatives, and other statements relating to Graphite India's future business developments and economic performance. While these forward-looking statements indicate our assessment and future expectations concerning the development of our business, a number of risks, uncertainties and other unknown factors could cause actual developments and results to differ materially from our expectations. These factors include, but are not limited to, general market, macroeconomic, governmental and regulatory trends, movements in currency exchange and interest rates, competitive pressures, technological developments, changes in the financial conditions of third parties dealing with us, legislative developments, and other key factors that could affect our business and financial performance. Graphite India undertakes no obligation to publicly revise any forward-looking statements to reflect future / likely events or circumstances.

