

**G6 MATERIALS CORP.**  
(formerly Graphene 3D Lab Inc.)

**Management Discussion and Analysis**  
**For the nine months ended February 29, 2020**

*This Management Discussion and Analysis (“MD&A”) of Graphene 3D Lab Inc. (the “Company” or “Graphene 3D”) provides analysis of the Company’s financial results for the nine months ended February 29, 2020 and February 28, 2019. The following information should be read in conjunction with the condensed interim consolidated financial statements and notes for the nine months ended February 29, 2020, which are prepared in accordance with International Financial Reporting Standards. All amounts are expressed in US dollars unless otherwise noted. Canadian dollars are indicated by the symbol “C\$”.*

*This discussion contains forward-looking statements and information that are based on the beliefs of management and reflect the Company’s current expectations. When used in this Discussion, the words “estimate”, “project”, “belief”, “anticipate”, “intend”, “expect”, “plan”, “predict”, “may” or “should” and the negative of these words or such variations thereon or comparable terminology are intended to identify forward-looking statements and information. Such statements and information reflect the current view of the Company with respect to risks and uncertainties that may cause actual results to differ materially from those contemplated in those forward-looking statements and information.*

*By their nature, forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the Company’s actual results, performance or achievements, or other future events, to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. Such factors include, among others, the following risks: risks associated with the marketing and sale of securities, the need for additional financing, reliance on key personnel, the potential for conflicts of interest among certain officers or directors with certain other projects, and the volatility of the Company’s common share price and volume. Forward-looking statements are made based on management’s beliefs, estimates and opinions on the date that statements are made and the Company undertakes no obligation to update forward-looking statements if these beliefs, estimates and opinions or other circumstances should change. Investors are cautioned against attributing undue certainty to forward-looking statements.*

*There are a number of important factors that could cause the Company’s actual results to differ materially from those indicated or implied by forward-looking statements and information. Such factors include, among others, risks related to Graphene 3D’s proposed business such as failure of the business strategy, stable supply prices, demand and market prices for 3D printing products, and government regulation; risks related to Graphene 3D’s operations, such as additional financing requirements and access to capital, reliance on key and qualified personnel, insurance, competition, intellectual property and reliable supply chains; risks related to Graphene 3D and its business generally such as potential exposure to tax under Canadian and US income tax laws, laws and regulations relating to cross-border mergers and acquisitions, infringement of intellectual property rights, product liability, environmental protection, currency exchange rates and conflicts of interest.*

*The Company cautions that the foregoing list of material factors is not exhaustive. When relying on the Company’s forward-looking statements and information to make decisions, investors and others should carefully consider the foregoing factors and other uncertainties and potential events. The Company has assumed a certain progression, which may not be realized. It has also assumed that the material factors referred to in the previous paragraph will not cause such forward-looking statements and information to differ materially from actual results or events. However, the list of these factors is not exhaustive and is subject to change and there can be no assurance that such assumptions will reflect the actual outcome of such items or factors. While the Company may elect to, it does not undertake to update this information at any particular time.*

## **1.1 DATE OF REPORT**

This report is prepared as of April 29, 2020.

## **1.2 COMPANY OVERVIEW**

G6 Materials Inc. formerly Graphene 3D Lab Inc. (the “Company” or “G6”), was incorporated pursuant to the British Columbia Business Corporations Act on January 17, 2011. On August 8, 2014, the Company acquired Graphene 3D Lab (U.S.) Inc.

("Graphene 3D U.S.") through a reverse acquisition/takeover transaction ("Transaction"). The historical operations, assets and liabilities of Graphene 3D U.S. are included as the comparative figures as at and for the period ended May 31, 2014, which is deemed to be the continuing entity for financial reporting purposes. Graphene 3D U.S. was incorporated on September 3, 2013 in the State of Delaware, U.S.A.

On August 11, 2014 the Company's common shares resumed trading on the TSX Venture Exchange ("TSX-V") under the symbol "GGG." On October 7, 2014, the Company began trading on OTCQB, the venture marketplace for entrepreneurial and development stage companies operated by OTC Markets Group, under the symbol "GPHBF".

Graphene 3D U.S. is a C-corporation, organized on September 3, 2013 under the laws of the State of Delaware. The founders of the corporation include Daniel Stolyarov, Ph.D., Co-CEO and Elena Polyakova, Ph.D., the former Co-CEO. Founding team members have many years' worth of combined experience in 3D printing, material production, R&D, and the commercialization of new materials. Graphene 3D U.S. was initially a spinout of Graphene Laboratories Inc. ("Graphene Laboratories" or "GLI"). On August 12, 2015, the Company entered a Share Exchange Agreement ("SEA") to acquire all of the issued and outstanding shares of GLI. This transaction was reviewed and accepted for filing by the TSX Venture Exchange and closed on December 8, 2015. Graphene Laboratories now operates as a wholly-owned subsidiary of Graphene 3D.

On January 23, 2020, the Company changed its name from Graphene 3D Lab Inc. to G6 Material Corp. ("G6"). The Company's shares will continue to trade on the TSX Venture Exchange under the same ticker symbol ("GGG").

### **1.3 NATURE OF BUSINESS**

The Company is in the business of developing, manufacturing, and marketing proprietary composites and coatings, based on graphene and other advanced materials, for a number of industries including aerospace, automotive, medical prosthetics, and military. In addition, it produces a variety of materials for 3D printing. The Company currently has eight US patent applications pending for its technology.

The Company's wholly-owned subsidiary, Graphene Laboratories Inc., currently offers over 100 graphene and related products to a client list comprised of more than 12,000 customers worldwide, including nearly every Fortune 500 tech company and major research university. Some notable clients are: NASA, Ford Motor Co., GE, Apple, Xerox, Samsung, Harvard University, IBM, and Stanford University. Also, the Company is engaged in the developing of methods of producing fine chemical formulations to be used in pharmaceuticals, and biotechnology industries.

The Company also holds a provisional patent relating to the manufacture and processing of graphene. Graphene is a novel material with a variety of outstanding properties. It is currently available in the market at various grades, with performance characteristics such as mechanical strength, and conductivity improving with fewer atomic layers. Graphene Laboratories patented manufacturing process provides proof of concept to allow for a low-energy, chemical-free manufacture designed to achieve high-grade graphene material at a projected industry leading low cost. The Company has begun planning on a two-phased development program to advance this manufacturing process from bench-top prototype to a large-scale manufacturing operation.

The Company operates several subdivisions which include the following:

#### **R&D Materials**

Graphene Supermarket (R&D Graphene Materials): The Company's suite of graphene products is available online at the company's e-commerce platform Graphene Supermarket ([www.graphene-supermarket.com](http://www.graphene-supermarket.com)). Graphene 3D is a world leader in the development, manufacturing and marketing of graphene and other 2D crystals as well as composites based on these nanomaterials. These diverse materials have a wide spectrum of commercial, research and military applications

#### **Materials for 3D Printing**

The 3D printing division of the Company offers a portfolio of 3D printable filaments including a portfolio of specialty fused filament fabrication filaments. These materials can be purchased through multiple distribution networks worldwide or directly from the web-store [www.blackmagic3D.com](http://www.blackmagic3D.com).

## Conductive Epoxies

The Company's recent focus has been on developing the best in conductive epoxy systems. Through research and development, our team have been able to create innovative, new products with unique properties by using a proprietary mix of high-performance carbon fillers to achieve superb electrical and mechanical properties for electrically conductive epoxy. The Company's specialty adhesive epoxies are well suited for use in aerospace, automotive industries, electronics and communication etc.

Three different product lines are offered:

Carbon -P series: Carbon filled conductive epoxy (G6-EP), with main features:

- Non-metallic: carbon filled
- Excellent electrical conductivity: 5 Ohm x cm
- Ultralight: density is less than 1.1 g/cm<sup>3</sup>
- Low-cost silver alternative
- Excellent gap-filling adhesive

Silver – SG series: Silver/Graphene conductive epoxies (G6-SG, G6-FXSG, G6-HTSG).

- Traditional epoxy materials tend to be brittle and are prone to mechanical failure. Graphene fillers add superior durability, fatigue and crack resistance in addition to low electrical resistance. The Company uses a proprietary mix of silver and graphene materials to achieve a superb combination of mechanical and electrical properties.
- G6-SG - Silver/Graphene conductive epoxy;
- G6-FXSG – Flexible Silver/Graphene conductive epoxy;
- G6-HTSG – High-temperature Silver/Graphene conductive epoxy

Silver- NS series: Silver/Carbon conductive epoxies (G6-NS10, G6-NS11, G6-HTNS).

- These epoxies have been developed based on advanced proprietary technology that requires less silver content to be at par with leading silver-based epoxies in terms of electrical properties. This improvement makes G6E-NS™ less dense, more flexible, and allows for stronger adhesion to the target substrate.
- G6-NS10 - Silver/Carbon conductive epoxy;
- G6-NS11 - Silver/Carbon conductive epoxy
- G6-NS - High-temperature Silver/Carbon conductive epoxy

Adhesive materials produced by the company are distributed under the G6-Epoxy™ trade name and can be purchased at <https://g6-epoxy.com/>.

## Fine Chemicals for Advanced Manufacturing and Drug Discovery

ChemApproach is a worldwide supplier of a wide variety of building blocks (many of these are unique) to R&D facilities in the pharmaceutical, agriculture, and biotechnology industries, as well as academic institutions, and various technology companies. It's professional team of PhD chemists hold many years of experience in design, development and implementation of industrial projects, as well as experience in synthetic organic chemistry. This division offers a plethora of the substituted aromatic and heterocyclic compounds. Most of its molecules are synthesized as medicinally-relevant and drug candidates. The production scale varies from grams to multi-kilograms quantities. The divisions main expertise lies within the introduction of the various substituents to the aromatic rings, a large variety of functional group transformations, and a selective incorporation of halogens in organic molecules, particularly, iodine. These classes of organic molecules have a wide range of application in: Drug-design, Biochemistry, Polymer chemistry, Electronics and Hi-Tech, Petrochemical <https://chemapproach.com/>

## Graphene Manufacturing Process Patent

The Company filed a non-provisional patent pertaining to the preparation and separation of atomic layers of graphene. This technological breakthrough represents a new, energy and chemically efficient process to manufacture, sort and classify graphene nanoparticles resulting in the potential for large scale production of high-grade graphene. This patent relates to graphene nanoplatelets (GNP). Specifically, the patent covers a new, energy efficient, not chemically invasive, process that significantly lowers the cost of preparing and separating high quality, few atomic layers thick GNP. The application claims priority to provisional application No. 62/058,313, filed on October 1, 2014.

## 1.4 HIGHLIGHTS FOR THE NINE MONTHS ENDED FEBRUARY 29, 2020

### Corporate Developments

On May 31, 2019, the Company entered into a Research and Development Agreement (“R&D Agreement”) with a Singaporean company (“Partner”) to develop a graphene-based composite material to be used in manufacturing of marine vessels.

For the scope of this Agreement, the Company will complete research to develop a graphene-based additive for the resin that is routinely used in manufacturing marine vessels and marine structures. The goal of this research project is to use the unique properties of graphene to improve the performance of the glass and carbon fiber composites that are used in the harsh marine environment.

In October 2019, the Company received an approval from the US Patent Office for the Process for Synthesizing Trifluoroketones. The Patent secures the Company’s IP rights used in the procedure (the “Technology”) for producing a certain class of trifluoroketones, which are chemical compounds used in drug manufacturing. The Technology is designed to deliver high quality compounds that are free from toxic byproducts, which can otherwise appear when using alternative methods. The product that was produced with the Company’s partner is now undergoing Phase 2a clinical trials which are expected to finish in early 2020. Data collected during Phase 2a will then be used in Phase 2b efficacy tests. Going forward, the Company will continue to explore further potential licensing and royalty arrangements, or a complete sale of this IP.

On February 12, 2020, the Company engaged into a new green-energy project that is collaboration with Gilman Industries LLC (“Gilman Industries”). The objective of the project is to develop a new generation of Evolve™, a proprietary hydrogen generator that produces hydrogen by splitting water with an electric current. During the course of this project, G6 will develop a robust graphene-based material for electrodes within the hydrogen generator.

On April 1, 2020, the Company’s Research & Development has developed a solution for air purification products that are designed to mitigate the threat of virus infection in confined spaces such as offices and industrial warehouses. There is substantial scientific evidence of antiviral and antibacterial effectiveness of graphene coatings. The Company has found a unique method to incorporate graphene in the air filtration systems making them more efficient in killing germs. The Company is currently conducting internal testing and will subsequently apply for appropriate accreditations.

### Financial Update

On February 21, 2019, the Company completed the Technology Transfer Agreement (the “agreement”) with a multinational manufacturer for producing advanced materials including pharmaceutical, packing, household and several industrial materials. As per the final Agreement commitments, the Company received royalty payments of \$202,500 in total for this production campaign.

On March 26, 2019, the Company closed a non-brokered private placement financing issuing 4,916,760 units at a price of C\$0.06 per unit for gross proceeds of \$220,384 (C\$295,006). Each unit consist of one common share and one common share purchase warrant. Each unit entitles the holder to purchase one additional common share at a price of C\$0.10 for a period of two years.

On May 31, 2019, the Company entered into Research and Development Agreement (the “R&D Agreement”) with a private Singaporean company (“Partner”) to develop a graphene-based composite material for marine vessel applications for two years. As per the R&D agreement, the Company received a total of SGD\$161,400 upon completion of the Project. On July 18, 2019, the Company received a payment of SGD\$96,900 from its Partner for the successful working during the first phases of the Agreement.

On October 15, 2019, the Company closed a non-brokered private placement financing issuing 4,240,000 units at a price of C\$0.05 per unit for gross proceeds of \$160,472 (C\$212,000). Each unit consist of one common share and one common share purchase warrant. Each unit entitles the holder to purchase one additional common share at a price of C\$0.12 for a period of two years.

On April 9, 2020, the Company announced its intention of a non-brokered private placement financing issuing 5,000,000 units at a price of C\$0.07 per units for gross proceeds of C\$350,000. Each unit consist of one common share and one common share purchase warrant. Each unit entitles the holder to purchase one additional common share at a price of C\$0.12 for a period of two years. On April 27, 2020, the Company announced its intention to increase the size of the private placement to C\$1,001,000.

## 1.5 RESULTS OF OPERATIONS

### Nine months ended February 29, 2020 compared with the nine months ended February 28, 2019

During the nine months ended February 29, 2020, the Company reported a net loss of \$752,588 compared to a net loss of \$525,864 in 2019. The increase in net loss was primarily the result of the increases in professional fees, travel expenses and the amortization of leased asset due to the new adoption of IFRS 16 by recognizing the right-of-use asset and amortization the value of lease quarterly, whereas there is no such amortization expense in 2019.

Research and development expenditures are summarized as follows:

	Quarter ended Feb.29, 2020	Quarter ended Nov.30, 2019	Quarter ended Aug 31, 2019	Quarter ended May 31, 2019	Quarter ended Feb. 28, 2019	Quarter ended Nov. 30, 2018	Quarter ended Aug 31, 2018	Quarter ended May 31, 2018
Research personnel	9,231	35,769	9,231	10,769	18,462	30,409	27,115	47,244
Research and development equipment and supplies	2,510	30,660	3,292	7,346	958	7,219	16,285	39,267
Patent registration expense	-	-	-	10,397	-	3,300	802	15,723
Total research and development expenses	<sup>(1)</sup> 11,741	<sup>(2)</sup> 66,429	12,523	28,512	19,420	40,928	44,202	102,234

<sup>(1)</sup> During the quarter ended February 29, 2020, the Company continued its cost reduction efforts that were initiated several quarters previously. As a result, costs of R&D personnel and related equipment and supplies, continued to decrease as the Company focused its efforts on revenue generating activities.

<sup>(2)</sup> One exception to the above was in the quarter ended November 30, 2019, the Company increased its expenditures on R&D personnel and related equipment and supplies, to capitalize on the opportunity presented by the R&D Agreement that the Company engaged with a private Singaporean company (“Partner”) to develop graphene-based composite material for marine vessel applications.

## 1.6 SELECTED FINANCIAL INFORMATION

The following table contains selected financial information for Graphene 3D for the year ended May 31, 2019 as compared to the years ended May 31, 2018 and 2017. The information set forth should be read in conjunction with the audited annual financial statements, prepared in accordance with International Financial Reporting Standards (“IFRS”), and the related notes thereon.

	Year ended May 31, 2019 \$	Year ended May 31, 2018 \$	Year ended May 31, 2017 \$
Revenue	946,834	909,512	1,108,998
Gross profit	592,964	617,683	482,780
Net loss	599,373	1,064,075	1,017,590
Comprehensive Loss	601,565	1,046,521	1,025,195
Net loss per share	\$0.01	\$0.02	\$0.02
Total assets	1,066,851	1,481,232	1,057,022
Total non-current financial liabilities	24,000	56,525	147,391

Non-current financial liabilities consist of the long-term portion of the finance lease obligation and deferred tax liability related to the acquisition of GLI in December 2015.

## 1.7 SUMMARY OF QUARTERLY RESULTS

The following summary information is taken from the Company's quarterly and annual financial reports covering the last eight reporting quarters.

	Quarter ended Feb.29, 2020 \$	Quarter ended Nov.30, 2019 \$	Quarter ended Aug 31, 2019 \$	Quarter ended May 31, 2019 \$	Quarter ended Feb 28, 2019 \$	Quarter ended Nov. 30, 2018 \$	Quarter ended Aug 31, 2018 \$	Quarter ended May 31, 2018 \$
Revenue	(169,237)	(150,765)	(195,928)	(206,609)	(305,790)	(224,898)	(209,537)	(229,442)
Cost of goods sold	104,636	128,215	122,459	<sup>(4)</sup> 13,851	69,648	201,218	96,855	<sup>(7)</sup> 5,888
Gross (profit) loss	<sup>(1)</sup> (64,601)	<sup>(2)</sup> (22,550)	<sup>(3)</sup> (73,469)	(220,460)	(236,142)	<sup>(6)</sup> (23,680)	(112,682)	(223,554)
Operating expenses	292,789	366,501	253,918	337,404	274,137	315,736	297,585	418,976
Net loss	228,188	343,951	180,449	171,319	<sup>(5)</sup> 48,905	292,056	184,903	111,817
Comprehensive Loss	226,213	343,996	180,735	72,212	49,279	293,917	186,157	109,628
Net loss per share (basic and diluted)	\$0.003	\$0.005	\$0.002	\$0.001	\$0.001	\$0.004	\$0.003	\$0.002
Total assets	740,029	896,299	1,057,297	1,066,851	990,233	1,097,499	1,278,168	1,481,232
Shareholders' equity	254,399	480,612	664,136	844,871	696,699	745,978	1,039,895	1,192,577

<sup>(1)</sup> The decrease in revenue and gross profit for the quarter ended February 29, 2020, in comparison with the previous year and previous quarters, was partially due to reduced demand for some of its core products as a result of the closure of many universities around the world.

<sup>(2)</sup> The decrease in gross profit for the quarter ended November 30, 2019, was primarily due to certain projects were ended during the previous quarter, resulting in decreasing in revenue. In addition, there was an increase in shipping costs of direct materials and customer shipments due to the deficiency in production, resulting in increasing in costs of goods sold.

<sup>(3)</sup> The decrease in gross profit for the quarter ended August 31, 2019 was primarily due to certain projects were ended during the quarter, resulting in decreasing in revenue. In addition, there was an increase in shipping costs of direct materials and customer shipments, resulting in increasing in costs of goods sold.

<sup>(4)</sup> The decrease in costs of goods sold for the quarter ended May 31, 2019 was primarily due to the Company continuing to utilize the previous expensed raw materials inventory and extra non-inventory items, resulting in a higher gross margin in comparison with other previous quarters.

<sup>(5)</sup> The decrease in net loss for the quarter ended February 28, 2019 was primarily due to an increase in revenue and lower cost of goods sold by utilizing the previous expensed raw materials inventory and extra non-inventory items. Meanwhile, the Company reduced the expenses in research and development and general and administration for the cost saving initiatives.

<sup>(6)</sup> The decrease in gross profit for the quarter ended November 30, 2018 was primarily due to the liquidation of a large portion of the 3D printing filament inventory in order to make room for the installation of new equipment for upcoming projects.

<sup>(7)</sup> The decrease in costs of goods sold for the quarter ended May 31, 2018 was primarily due to the Company utilizing previously expensed raw materials inventory as well as additional non-inventory supplies. In addition, the Company changed several vendors by offering lower prices with major items and optimized the business operation by enhancing products and services' efficiency with higher profit margins.

There were no significant variations in other operating expenses.

## 1.8 LIQUIDITY AND CAPITAL RESOURCES

As at February 29, 2020, the Company had working capital deficit of \$104,607 (2019 – working capital surplus \$266,975).

As at February 29, 2020, cash and cash equivalents totaled \$42,573 (2019 - \$116,312). The Company spent cash to purchase additional inventory and supplies in preparation of the ongoing growing business.

Cash used in operating activities during the nine months ended February 29, 2020 was \$199,824 (2019 - \$285,921).

Cash generated in investing activities during the nine months ended February 29, 2020 was \$72,988 (2019 – spent \$21,190). The main contributor was obtaining a loan from a 3<sup>rd</sup> party. As at February 29, 2020, the Company's net assets totalled \$740,029 (May 31, 2019 - \$844,871).

Cash generated from financing activities during the nine months ended February 29, 2020 was \$88,472 (2019 – \$nil). The main contributor was that the Company closed a non-brokered private placement financing issuing 4,240,000 units at a price of C\$0.05 per unit for gross proceeds of \$160,472 (C\$212,000), yet partially offset by the principal payments of lease.

As at February 29, 2020, the Company's share capital at \$7,586,573 (2019 - \$7,205,717), which represented 82,608,574 issued and outstanding common shares without par value.

As at February 29, 2020, warrant reserves and contributed surplus also remained the same as at May 31, 2019 at \$33,946 and \$2,821,938, respectively.

As at February 29, 2020, the Company's retained losses increased to \$10,094,627 (May 31, 2019 - \$9,342,039) as the result of net loss during the period of \$752,588.

The Company's ability to meet its administrative expenses and complete its planned research and development activities and its ramp up of commercial operations is ultimately dependent upon management's ability to secure additional financing. While management has been successful in obtaining funding in the past, there can be no assurance that it will be able to do so in the future.

## 1.9 COMMITMENTS

The Company entered into a three year lease for the Company's facilities ending December 31, 2020. The lease requires monthly payments of \$8,000.

The Company has adopted IFRS 16, Leases as of June 1, 2019 using the modified retrospective approach with measurement of the right-of-use asset at an amount equal to the lease liability. Upon adoption of this standard, the company recognized right-of-use asset of \$124,673 and leased liability of \$125,357, resulting in the estimated impact to shareholder's equity (accretion expense) as at June 1, 2019 is a decrease of \$684.

### RIGHT-OF-USE ASSET

	\$
<b>Cost:</b>	
Balance, May 31, 2019	-
Recognition upon adoption of IFRS 16	124,673
Balance, February 29, 2020	124,673
<b>Accumulated Amortization:</b>	
Balance, May 31, 2019	-
Amortization	62,337
Balance, February 29, 2020	62,337
<b>Net Book Value:</b>	
May 31, 2019	-
February 29, 2020	62,336

## LEASE LIABILITY

	\$
Balance, May 31, 2019	-
Recognition upon adoption of IFRS 16	125,357
Accretion expense*	4,641
Payments	(72,000)
Balance, February 29, 2020	57,998
<b>Current portion of lease liability</b>	<b>23,131</b>
<b>Long-term portion of lease liability</b>	<b>34,867</b>

\* The Company used 6% interest rate, its incremental borrowing rate to calculate the present value of the future lease payments as well as to calculate the quarterly accretion expense

### 1.10 RELATED PARTIES TRANSACTIONS

Parties are considered to be related if one party has the ability, directly or indirectly, to control the other party or exercise significant influence over the other party in making financial and operating decisions. Related parties may be individuals or corporate entities. Key management includes directors and officers of the Company. The Company entered into the following transactions with related parties:

- a) During the nine months ended February 29, 2020, the Company incurred a director and officer's salaries expense in the amount of \$95,769 (2019 - \$138,173).
- b) During the nine months ended February 29, 2020, the Company incurred a consultant's consulting fees in the amount of \$20,000 (2019 - \$nil).
- c) During the nine months ended February 29, 2020, the Company paid professional fees to companies controlled by officers, directors and spouses of officers of the Company in the amount of \$108,066 (2019 - \$108,254).

The following amounts were due to related parties:

	February 29, 2020	May 31, 2019
	\$	\$
Salary to officers	*22,171	19,091
Fees to consultant	20,000	-
Expense reimbursements to related parties	24,825	13,231
	66,996	32,322

The amounts due to related parties are included in accounts payable and are unsecured, have no fixed repayments and are non-interest bearing.

\*Subsequent to the quarter-ended February 29, 2020, the Company paid off the outstanding amount of salary to officers of \$22,171.



## 1.11 RISKS AND UNCERTAINTIES

An investment in the Company's securities involves a high degree of risk. Potential investors should carefully consider the following information about these risks. If any of the following risks actually occurs, the business, financial condition and prospects of the Company could be materially adversely affected. In that case, the value of any securities of the Company could also decline and investors could lose all or part of their investment.

The risks and uncertainties described below are those that Graphene 3D's management believes are material, but these risks and uncertainties may not be the only ones that the Company may face. Additional risks and uncertainties, including those that management currently are not aware of or deem immaterial, may also result in decreased operating revenues, increased operating expenses or other events that could result in a decline in the value of any securities of the Company. The following information is a summary only of certain risk factors and is qualified in its entirety by reference to, and must be read in conjunction with, the detailed information appearing elsewhere in Management Discussion and Analysis.

An investment in the securities of the Company is highly speculative.

### *Risks Related to Our Business and Industry*

If the market does not develop as we expect, our products may not be accepted by the market.

- There is significant competition in our market, which could make it difficult to attract customers, cause us to reduce prices and result in reduced gross margins.
- The long sales cycle for our products makes the timing of our revenues difficult to predict.
- We may not be able to generate operating profits.
- We plan to grow very rapidly, which will place strains on management and other resources.
- We may not be able to hire the number of skilled employees that we need to achieve our business plan.
- Loss of key management or sales or customer service personnel could adversely affect our results of operations.
- If our manufacturing facilities are disrupted, sales of our products will be disrupted, and we could incur unforeseen costs.
- Global economic, political and social conditions may harm our ability to do business, increase our costs, and negatively affect our stock price.
- We may need to raise additional capital from time to time if we are going to meet our growth strategy and may be unable to do so on attractive terms.
- Our operating results and financial condition may fluctuate on a quarterly and annual basis.

Our operating results and financial condition may fluctuate due to a number of factors, including those listed below and those identified throughout this "Risk Factors" section:

- the development of new competitive systems or processes by others;
- the entry of new competitors into our market whether by established companies or by new companies;
- changes in the size and complexity of our organization, including our international operations;
- levels of sales of our products and services to new and existing customers;
- the geographic distribution of our sales;
- changes in product developer preferences or needs;
- delays between our expenditures to develop, acquire or license new technologies and processes, and the generation of sales related thereto;
- our ability to timely and effectively scale our business during periods of sequential quarterly or annual growth;
- limitations or delays in our ability to reduce our expenses during periods of declining sequential quarterly or annual revenue;

- changes in our pricing policies or those of our competitors, including our responses to price competition;
- changes in the amount we spend in our marketing and other efforts;
- the volatile global economy;
- general economic and industry conditions that affect customer demand and product development trends;
- changes in accounting rules and tax and other laws; and
- We could be subject to personal injury, property damage, product liability, warranty and other claims involving allegedly defective products that we supply, which could result in material expense, diversion of management time and attention and damage to our business reputation.
- We could face liability if our 3D printers are used by our customers to print dangerous objects.
- We may not have adequate insurance for potential liabilities.
- Even a partially uninsured claim of significant size, if successful, could materially adversely affect our business, financial condition, results of operations and liquidity. However, even if we successfully defend ourselves against any such claim, we could be forced to spend a substantial amount of money in litigation expenses, our management could be required to spend valuable time in the defense against these claims and our reputation could suffer, any of which could adversely affect our results of operations.

### **Risks Related to Our Intellectual Property**

We may not be able to obtain patent protection or otherwise adequately protect or enforce our intellectual property rights, which could impair our competitive position.

- Obtaining and maintaining our patent protection depends on compliance with various procedural, documentary, fee payment and other requirements imposed by governmental patent agencies, and our patent protection could be reduced or eliminated for non-compliance with these requirements.
- We may incur substantial costs defending against third party infringement claims as a result of litigation or other proceedings.
- Our failure to expand our intellectual property portfolio could adversely affect the growth of our business and results of operations.

## **1.12 OUTSTANDING SHARE DATA**

The authorized capital of the Company consists of an unlimited number of common shares with no par value. As at the date of this MD&A, the following common shares, options and share purchase warrants were outstanding:

	<b>Number of Shares</b>	<b>Exercise Price</b>	<b>Expiry Date</b>
Issued and Outstanding Common Shares	82,608,574		
Share Purchase Warrants	4,916,760	C\$0.10	March 26, 2021
	4,240,000	C\$0.12	October 15, 2021
Stock Options	645,000	C\$0.21	August 24, 2021
	200,000	C\$0.21	September 13, 2021
	300,000	C\$0.11	July 28, 2022
	2,450,000	C\$0.12	November 13, 2022
<b>Fully Diluted at April 29, 2020</b>	<b>95,360,334</b>		

As of the date of this MD&A, there are nil common shares (2019 nil common shares) subject to escrow agreement.

### **OTCQB Listing**

The Company has been verified to trade on OTCQB®, the venture marketplace for entrepreneurial and development stage companies operated by OTC Markets Group (OTCQX: OTCM) and began trading Oct. 7, 2014. Euro Pacific Capital, Inc. is a

qualified Principal American Liaison (“PAL”) and has submitted a Letter of Introduction for Graphene 3D in accordance with the standards for trading on OTCQB.

### 1.13 OPERATING SEGMENTS

The Company operates in one reportable segment – the research, development and manufacturing of graphene-enhanced materials. Substantially all of the Company’s revenue was generated in the U.S. and all capital assets are located in the U.S.

### 1.14 CRITICAL ACCOUNTING ESTIMATES

The preparation of the consolidated financial statements in conformity with IFRS requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results may differ from those estimates. Estimates are reviewed on an ongoing basis based on historical experience and other factors that are considered to be relevant under the circumstances. These estimates involve considerable judgment and are, or could be, affected by significant factors that are out of the Company’s control. Revisions to estimates and the resulting effects on the carrying amounts of the Company’s assets and liabilities are accounted for prospectively.

The Company’s significant accounting policies and estimates are included in Note 3 to the May 31, 2019 audited consolidated financial statements of Graphene 3D Lab Inc. The preparation of financial statements in accordance with IFRS requires management to select accounting policies and make estimates. Such estimates may have a significant impact on the financial statements. Actual amounts could differ materially from the estimates used and, accordingly, affect the results of the operations. These include:

- the valuation of share-based payments expense;
- the useful lives for depreciation of equipment;
- the valuation of inventories and recognition of inventory impairment;
- the determination of the allowance of doubtful accounts; and
- the useful lives and recoverability of intangible asset.

#### *Share-based payments*

The grant date fair value of share-based payment awards granted to employees is recognized as an employee expense, with a corresponding increase in equity, over the period that the employees unconditionally become entitled to the awards. The amount recognized as an expense is adjusted to reflect the number of awards for which the related service and non-market vesting conditions are expected to be met, such that the amount ultimately recognized as an expense is based on the number of awards that do meet the related service and non-market performance conditions at the vesting date.

#### *Inventory*

The Company’s inventory is measured at the lower of cost and net realizable value. Cost is determined using the weighted average method. The cost of finished goods and work-in-progress comprises raw materials, direct labour, other direct costs and related production overhead costs.

An allowance for obsolete or slow-moving inventories is made where necessary. Net realizable value is the estimated selling price in the ordinary course of business less the estimated costs of completion and selling expenses.

### 1.15 NEW STANDARDS AND INTERPRETATIONS ADOPTED

*Standards effective for annual periods beginning on or after June 1, 2019:*

**IFRS 16 Leases** – The new standard introduces a single lessee accounting model and requires a lessee to recognize assets and liabilities for all leases with a term of more than 12 months, unless the underlying asset is of low value. A lessee is required to recognize a right-of-use asset representing its right to use the underlying asset and a lease liability representing its obligation to make lease payments. IFRS 16 will replace IAS 17 Leases and this standard substantially carries forward the lessor accounting requirement of IAS 17, while requiring enhanced disclosures to be provided by lessors. Other areas of the lease

accounting model have been impacted, including the definition of a lease. The Company will apply the standard retrospectively with the cumulative effect of initially applying the standard recognized as an adjustment to the opening balance of retained earnings or deficit at that date, subject to permitted practical expedients. Therefore, the Company will not restate comparative information.

The adoption of IFRS 16 will result in the recognition of a right-of-use asset and a lease liability measured at the present value of the future lease payments on the consolidated statements of financial position for a majority of its leases that are considered operating leases under IAS 17 “Leases”. An amortization expense on the right-of-use asset and an interest expense on the lease liability will replace the operating lease expense. IFRS 16 will change the presentation of cash flows relating to leases in the Company’s consolidated statements of cash flows, but does not cause a difference in the amount of cash transferred between the parties of a lease. As at June 1, 2019, it is estimated that total liabilities would increase by \$125,357 and assets would increase by approximately \$124,673. The estimated impact to shareholder's equity as at June 1, 2019 is a decrease of \$684. The Company is continuing to assess the overall impact of the new standard, including the required changes to the disclosures in its consolidated financial statements. Please refer to the detailed disclosure on the condensed interim consolidated financial statement, Note 13 Commitments.

**IFRIC 23 Uncertainty over Income Tax Treatments-** The new standard to clarify the accounting for uncertainties in income taxes. The interpretation provides guidance and clarifies the application of the recognition and measurement criteria in IAS 12 “Income Taxes” when there is uncertainty over income tax treatments. The interpretation is effective for annual periods beginning on June 1, 2019. The Company does not expect the adoption of IFRIC 23 to have a material effect on the Company’s future results and financial position.

Other accounting standards or amendments to existing accounting standards that have been issued, but have future effective dates are either not applicable or are not expected to have a significant impact on the Company’s consolidated financial statements.

## 1.16 FINANCIAL INSTRUMENTS AND OTHER INSTRUMENTS

The fair value of the Company’s cash and cash equivalents, amounts receivable, and accounts payable and accrued liabilities approximate carrying value which is the amount recorded on the statement of financial position due to their short-term nature.

### *Credit risk*

Credit risk is the risk of financial loss to the Company if counter-party to a financial instrument fails to meet its contractual obligations. The Company manages credit risk by investing its cash and cash equivalents with a large United States and Canadian chartered banks. The Company manages credit risk for trade and other receivables through established credit monitoring activities. As at February 29, 2020 and February 28, 2019, the Company’s maximum exposure to credit risk is the carrying value of cash and cash equivalents and accounts receivable.

### *Interest rate risk*

Interest rate risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates. Financial assets and liabilities with variable interest rates expose the Company to interest rate risk with respect to its cash flow. As at February 29, 2020, the Company is not exposed to significant interest rate risk.

### *Currency risk*

The Company has transactions internationally and is exposed to foreign exchange risk from the Canadian Dollar. Foreign exchange risk arises from financing and purchase transactions that are denominated in currency other than the US Dollar, which is the functional currency of the Company. As at February 29, 2020, the Company held \$1,367 (2019 - \$35,531) in Canadian dollar cash and cash equivalents. A 10% increase or decrease in the Canadian dollar would increase or decrease comprehensive income by \$137 (2019 - \$3,553).

### *Liquidity risk*

Liquidity risk is the risk that the Company will not be able to meet its financial obligations as they fall due. The Company manages liquidity risk through the management of its capital structure and financial leverage as outlined above. As at February 29, 2020, the Company has cash and cash equivalents of \$42,573 (2019 - \$116,312) and a working capital deficit of \$104,607 (2019 working capital surplus- \$266,975). However, as at February 29, 2020, the Company has an accumulated deficit of \$10,094,627 (2019 - \$9,268,350). The continuation of the Company depends upon the support of its lenders and equity investors, which cannot be assured.

### **APPROVAL**

The Board of Directors of Graphene has approved the disclosure contained in this MD&A. A copy of this MD&A will be provided to anyone who requests it.

### **ADDITIONAL INFORMATION**

Additional information related to Graphene is on SEDAR at [www.sedar.com](http://www.sedar.com) and the Company's website <http://www.graphene3dlab.com>.