California Nanotechnologies Corp. For the fiscal year ended February 29, 2020

MANAGEMENT DISCUSSION AND ANALYSIS

This Management Discussion and Analysis ("MD&A") should be read in conjunction with the Condensed Consolidated Interim Financial Statements and related notes of California Nanotechnologies Corp. (the "Company" or "Cal Nano") for the fiscal year ended February 29, 2020. The Company's functional and presentation currency is U.S. dollars and all amounts in this MD&A are expressed in U.S. dollars. The Company reports its financial position, results of operations and cash flows in accordance with International Financial Reporting Standards ("IFRS"), as issued by the International Accounting Standards Board ("IASB"). This MD&A has been completed as of June 28, 2020.

A. Company Overview

Cal Nano's mission is to pioneer and commercialize next-generation Nanophase and advanced materials and products to fulfill rising industry demand. Cal Nano's technologies enhance material performance by improving engineering properties. Cal Nano's primary technologies include Spark Plasma Sintering and cryogenic milling The Company is now focusing on commercialization efforts. Target markets are the microchip fabrication, aerospace, sports and recreation, defense, automotive, medical, and the oil and gas industries.

As the Official North American Technical and Training Partner of Fuji-SPS, pioneer of Spark Plasma Sintering ("SPS") technology, Cal Nano offers both SPS services and equipment support. SPS is the leading technology for sintering Nanophase, Functionally Graded, Diffusion Bonded, Thermoelectric, and other advanced materials. The Company is enhancing the technology and exploring more potential commercial opportunities via extensive collaborations and partnerships with select universities and tier one production suppliers. The Company purchased a Fuji Mark V SPS for pilot-scale R&D production activities in 2017.

Since inception, Cal Nano has been actively building industry recognition through published papers and other scientific endeavors. A listing of trade show activities is included at the end of this document.

B. Markets

Cal Nano currently services customers in the micro-chip fabrication, aerospace, academic, automotive, and sporting industries. A related company, Omni-Lite Industries, has many long-standing relationships in these areas, providing further access to future commercial customers.

C. Results of Operations for the year ended February 29, 2020

Revenue: For the fiscal year ended February 29, 2020, the Company reported revenue of \$831,052 compared to \$749,793 from the prior fiscal year, an increase of 11%.

Sales by segment are summarized below:

		Division	
Sales Year	Spark Plasma Sintering	Research and Development	Sport and Recreation
2019	61%	34%	5%
2018	65%	21%	14%

Net Loss: Net loss for the fiscal year ended February 29, 2020 was \$56,089 compared to a loss of \$59,167 in the prior fiscal year. Depreciation expense continues to be significant as the Company operates the additional SPS equipment purchased for \$675,750 in October 2017.

Operating Expenses: Overall operating expenses for the fiscal year ended February 29, 2020 was \$509,962 compared to the prior fiscal year which totaled \$482,570, an increase of 6%.

Other income/expense: For the fiscal year ended February 29, 2020, the combined total for other income & expense came to \$71,465 and was an increase of 1% from prior year.

Earnings (loss) per share: Basic loss per share was \$nil. The weighted average number of shares was 31,430,296.

The diluted loss per share was \$nil. At February 29, 2020, the diluted weighted average number of shares was 31,430,296.

The basic gain (loss) per common share is calculated using net income (loss) divided by the weighted-average number of common shares outstanding. The diluted gain (loss) per common share is calculated using net income (loss) divided by the weighted-average number of diluted common shares outstanding.

2,260,000 (2019 - 2,410,000) options were excluded in calculating the weighted-average number of diluted common shares outstanding for the year ended February 29, 2020 and 2019, because the Company was in a net loss position and therefore any exercise would be anti-dilutive

SUMMARY OF FINANCIAL HIGHLIGHTS (U.S. \$)

All figures in US dollars unless noted.

	For the fiscal year ended February 29, 2020	For the fiscal year ended February 29, 2020	% Increase (decrease)
Revenue	\$ 831,052	\$ 749,793	11%
Cash flow from operations	136,248	93,415	46%
Net loss	(56,089)	(59,167)	(5%)

Selected Quarterly Information

The following table summarizes selected quarterly information from the last eight quarters.

ALL FIGURES IN US DOLLARS UNLESS NOTED

	February	November	August	May	February	November	August	May
	29, 2020	30, 2019	31, 2019	31, 2019	28, 2019	30, 2018	31, 2018	31, 2018
Revenue	\$174,935	\$235,899	\$290,715	\$130,043	\$161,156	\$230,918	\$175,170	\$182,549
Cash flow (used for) from operations	62.967	19,970	56,058	(2,747)	(10,259)	59,721	24,364	19,589
Net income (loss)	(61,964)	10,994	65,483	(70,602)	(52,193)	31,482	(23,812)	(14,644)

Liquidity and Capital Resources

The following table summarizes the Company's cash flows by activity and cash on hand.

	February 29, 2020	February 28, 2019
Net cash from operating activities	\$ 136,248	\$ 93,415
Net cash used for financing activities	(112,860)	(90,575)
Net cash used for investing activities	-	(20,469)
Net (decrease)/increase in cash	23,388	(17,629)
Cash at the beginning of the period	18,563	36,192
Cash at the end of the period	41,951	18,563

At February 29, 2020, the source of liquidity was cash from operating activities. The cash balance was \$41,951. At fiscal year, the Company's working capital deficiency (current assets less current liabilities) was \$1,486,838 (2019 - \$1,476,737).

The Company's functional and reporting currency is U.S. dollars; however, the calculation of income tax expense is based on income in the currency of the country of origin. As such, the Company is continually subject to foreign exchange fluctuations, particularly as the Canadian dollar moves against the U.S. dollar.

The Company manages its exposure to foreign currency fluctuations by maintaining foreign currency bank accounts to offset foreign currency payables and planned expenditures. The Company reports in its functional currency, the U.S. dollar.

The Company does not have any off-statement of financial position arrangements.

D. Future Developments

Cal Nano continues to focus on Spark Plasma Sintering and Cryogenic Milling as its main technologies and drivers for future development and growth. Cal Nano's pilot-scale SPS and cryomilling systems enable scale-up from small-scale R&D programs to low-volume production of powders and sintering products. Cal Nano's efforts are focused on the military applications along with the nuclear and aerospace industries.

In 2018, the Company became the exclusive marketing partner of SUGA Co. Ltd, a manufacturer of SPS equipment in Japan. This relationship places Cal Nano as exclusive Technical and Marketing Partner in North America. To complement the existing equipment at Cal Nano, larger production scale equipment is being evaluated as customers for potential production products are being developed by Cal Nano, its partners, and collaborators. Cal Nano has recently completed multiple large-scale R&D programs that have the possibility for future growth.

The Company has successfully installed multiple new SPS systems this past year in the U.S., Mexico and Canada for which it received commission and services revenue. More installations are schedule for the coming year.

In June 2014, the Company purchased a larger mill, increasing its cryogenic milling capacity by a factor of six, which is now operational. The Company has received several larger development orders from a large, Seattle-based airframe manufacturer, which will require Cal Nano to utilize its new larger milling capacity. Cal Nano has also received orders from multiple other industrial and national lab partners for cryomilling at this larger capacity. The Company has received a patent which outlines equipment designs and concepts which make the cryogenic milling economically feasible on a large scale. Cal Nano is currently working on important cryomilling programs and continues to evaluate scale-up opportunities.

E. Risk Factors

The Company is subject to a number of risks as outlined below.

Experimental Field

Cal Nano is engaged in the research and development of new materials with the goal of commercializing viable products. The nanotechnology industry and specifically the production of nanocrystalline materials require extensive experimental effort and can require significant investment. Customers may be hesitant to implement any new materials developed without extensive and time-consuming testing.

No Assurance of Commercial Production

Cal Nano has historically been a research and development firm. The Company is now in the commercial production phase of its growth, with the procurement of the large Fuji Mark V system in 2017. There is no assurance that it will achieve commercial levels of production or sales for any product.

E. Risk Factors-continued

Relationships with Customers

The success of Cal Nano is directly related to the strength of its relationships with and the economic success of its larger customers. Should Cal Nano's relationships with these customers become strained or the profitability of these customers become negatively affected, the Company's profitability may be impacted.

Competition

Cal Nano is engaged in the technology industry. There is a high degree of competition in these industries which could impact Cal Nano's ability to find and keep customers.

Potential Fluctuations in Financial Results

If Cal Nano's future anticipated revenues are not realized on a timely basis, Cal Nano's financial results could be materially adversely affected.

Financial results in the future may be influenced by these or other factors.

Management of Growth

Any expansion of Cal Nano's business may place a significant strain on its financial, operational and managerial resources. There can be no assurance that Cal Nano will be able to manage its operations and financial assets successfully in order to manage any growth it undertakes. Any inability of Cal Nano to manage growth successfully could have a material adverse effect on Cal Nano's business, financial condition and results of operations.

Government Regulations

Cal Nano may be subject to various laws, regulations, regulatory actions and court decisions that may have negative effects on Cal Nano. Changes in the regulatory environment imposed upon Cal Nano could adversely affect the ability of Cal Nano to attain its corporate objectives.

Reliance on Key Personnel and Consultants

There can be no assurance that any of Cal Nano's directors, officers or employees will remain with Cal Nano or that, in the future, directors, officers or employees will not organize competitive businesses or accept employment with companies competitive with Cal Nano.

E. Risk Factors-continued

Additional Financing Requirements and Access to Capital

Cal Nano may require additional financing to implement its business plan. The ability of the Company to arrange such financing in the future will depend in part upon the prevailing capital market conditions as well as the business performance of Cal Nano. There can be no assurance that Cal Nano will be successful in its efforts to arrange additional financing, if needed, on terms satisfactory to Cal Nano. If additional financing is raised by the issuance of shares from the treasury of Cal Nano, control of Cal Nano may change and shareholders may suffer additional dilution. There can be no assurance that Cal Nano will generate cash flow from operations necessary to support the continuing operations of Cal Nano.

F. Disclosure Controls and Procedures

Disclosure controls and procedures have been designed to ensure that information required to be disclosed by the Corporation is accumulated and communicated to our management as appropriate to allow timely decisions regarding disclosure. The Company's Chief Executive Officer and a Director have concluded, based on their evaluation at February 29, 2020, that the Company's disclosure controls and procedures are effective to provide reasonable assurance that material information related to Cal Nano, is made known to them by employees or third party consultants working for the Company. It should be noted that while the Company's Chief Executive Officer and a Director believe that the disclosure controls and procedures will provide a reasonable level of assurance and that they are effective, they do not expect that the disclosure controls and procedures will prevent all errors and fraud. A control system, no matter how well conceived or operated, can provide only reasonable, not absolute assurance that the objectives of the control system are met.

G. Outstanding Share Capital

At February 29, 2020:

- Common Shares issued and outstanding: 31,430,296
- Stock options:

Description	<u>Number</u>
Options outstanding at February 29, 2020	2,260,000
Options exercisable at February 29, 2020	1,461,667

H. Transactions with Related Parties

Advances from related party are from a related entity that owns 19.1% of the Company's shares. The advances bear interest at 2% per annum through December 31, 2018, 2.89% thereafter and is due upon demand. There are no set terms for repayment and the loan is secured by all the assets of the Company. Additional security for the loan has been provided by one of the founders and a current member of the board of directors of the Company. No interest was paid during the fiscal years ended February 28, 2019 and February 29, 2020 on the advance amount of \$904,879. Accrued interest for the year ended February 29, 2020 was \$214,347 (2019 – \$182,750). This related entity guaranteed the Company's long-term primary credit facility and engaged with the Company for revenue of \$nil (2019 – \$11,739) and incurred expenses of \$15,706 (2019 – \$31,727). The transactions are considered to be in the normal course of operations. Subsequently, the bank called its line of credit and the related party paid the principal amount outstanding of \$250,000 on March 16, 2020 as part of the guarantee agreement on the debt instrument.

I. Board of Directors

Some of the Company's directors are material shareholders.

J. Financial instruments

As part of its operations, the Company utilizes a number of financial instruments. It is management's opinion that the Company is not exposed to significant interest, currency or credit risks arising from these financial instruments except as otherwise disclosed. The Company manages these risks by operating in a manner that minimizes risk exposure to the extent practical.

Financial instruments of the Company consist of cash, accounts receivable, accounts payable and accrued liabilities, interest payable, bank indebtedness and advances from related parties.

	February 29, 2020		February 28,	2018
	Carrying Value	Fair Value	Carrying Value	Fair Value
At FVTPL				
Cash	\$ 41,951	\$ 41,951	\$ 18,563	\$ 18,563
At amortized cost				
Accounts receivable	43,602	43,602	61,187	61,187
Accounts payable and accrued liabilities	124,814	124,814	141,206	141,206
Bank indebtedness	598,272	598,272	710,401	710,401
Advances from related party	1,119,226	1,119,226	1,087,629	1,087,629

Fair value represents the price at which a financial instrument could be exchanged in an orderly market, in an arm's length transaction between knowledgeable and willing parties who are under no compulsion to act. The Company classifies the fair value of the financial instruments according to the following hierarchy based on the amount of observable inputs used to value the instrument.

J. Financial instruments-continued

Level 1 Quoted prices are available in active markets for identical assets or liabilities as of the reporting date. Active markets are those in which transactions occur in sufficient frequency and volume to provide pricing information on an ongoing basis.

Level 2 Pricing inputs are other than quoted prices in active markets included in level 1. Prices in level 2 are either directly or indirectly observable as of the reporting date. Level 2 valuations are based on inputs, including quoted forward prices for commodities, time value and volatility factors, which can be substantially observed or corroborated in the marketplace.

Level 3 Valuations in this level are those with inputs for the assets or liabilities that are not based on observable market date.

There have been no transfers during the period between Levels 1, 2 and 3.

The carrying values of accounts receivable, accounts payable and accrued liabilities, interest payable and current portion of bank indebtedness approximate their fair value due to their short-term nature.

The fair value of the Company's long-term portion of bank indebtedness approximate its fair values due to the interest rates applied to these instruments, which approximate market interest rates. The fair value of the Company's advances from related party approximate their fair values due to the amounts being due on demand.

The Company holds various forms of financial instruments. The nature of these instruments and the Company's operations expose the Company to various risks. The Company manages its exposure to these risks by operating in a manner that minimizes its exposure to the extent practical. The Company does not make use of off statement of financial position contracts to manage these risks.

Liquidity Risk

The Company defines liquidity risk as the financial risk that the Company will encounter difficulties meeting its financial obligations. The Company's objective for managing liquidity risk is to ensure that it will have sufficient liquidity to meet liabilities when due. This risk is mitigated by managing the cash flow by controlling receivables and payables to vendors and related parties. At February 29, 2020, the Company had a working capital deficiency of \$1,486,838 (2019 – \$1,476,737).

K. Financial instruments-continued

Liquidity Risk-continued

The following table provides an analysis of the financial liabilities based on the remaining terms of the liabilities as at:

February 29, 2020	≤1 year	> 1 year ≤ 3 years	> 3 year ≤ 4 years	> 5 years	Total
Accounts payable and accrued					
liabilities	\$ 124,814	\$ -	\$ -	\$ -	\$ 124,814
Bank indebtedness	359,722	238,550	-	-	598,272
Advance from related party	1,119,226	-	-	-	1,119,226
Total	\$ 1,603,762	\$ 238,550	\$ -	\$ -	\$ 1,842,312
February 28, 2019	≤1 year	> 1 year ≤ 3 years	> 3 year ≤ 4 years	•	rs Total
Accounts payable and accrued					
liabilities	\$ 141,206	\$ -	\$ -	\$ -	\$ 141,206
Bank indebtedness	362,547	225,555	122,299	-	710,401
Advance from related party	1,087,629	-	-	-	1,087,629
Total	\$1,591,382	\$ 225,555	\$ 122,299	\$ -	\$ 1,939,236

Foreign currency risk

A portion of the Company's operations are located outside of the U.S. and, accordingly, the related financial assets and liabilities are subject to fluctuations in exchange rates.

The Company believes its exposure to foreign currency risk to be minimal. At February 29, 2020, the Company had the following balances denominated in CAD. The balances have been translated into U.S. dollars in accordance with the Company's foreign exchange accounting policy.

	U.S Dollar	U.S. Dollar		
	February 29, 2020	February 28, 2019		
Cash	\$ 460	\$ 61		
Accounts receivable	2,272	2,930		
Accounts payable and				
accrued liabilities	28,000	36,994		

The Company operates with a U.S. dollar functional currency which gives rise to currency exchange rate risk on the Company's Canadian dollar denominated monetary assets and liabilities, such as Canadian dollar bank accounts and accounts payable, as follows:

	Impac	t on Net Inco	ome
U.S. Dollar Exchange Rate – 10% increase	\$	2,527	
U.S. Dollar Exchange Rate – 10% decrease		(2,527)	

K. Financial instruments-continued

Credit risk

The Company manages credit risk by dealing with financially sound customers, based on an evaluation of the customer's financial condition. For the year ended February 29, 2020, the Company was engaged in contracts for products with two (2019 – three) customers in excess of 10% of revenue, which accounted for \$346,107 (2019 - \$398,568) or 42% (2019 – 53%) of the Company's total revenue. The maximum exposure to credit risk is the carrying value of accounts receivable and cash. Three (2019 – four) customers had outstanding balances in excess of 10% of accounts receivable, which accounted for \$23,550 (2019 - \$43,518) or 54% (2019 – 71%) of the Company's total accounts receivable balance. The table below provides an analysis of our current and past due but not impaired accounts receivables:

	Total	Current	≤ 30 days	> 30 days ≤ 60 days	>60 days ≤ 90 days	> 90 days
February 29, 2020	\$ 43,602	\$ 34,790	\$ 1,897	\$ 3,015	\$ 3,900	\$ -
February 28, 2019	\$ 61,187	\$ 37,977	\$ 19,448	\$ 3,762	\$ -	\$ -

As at February 29, 2020, the average expected credit loss on the Company's accounts receivable was 0% and as a result the provision for expected credit losses is \$nil.

Interest rate risk

The Company's revolving line of credit is subject to floating rates. The floating rate debt is subject to interest rate cash flow risk, as the required cash flows to service the debt will fluctuate as a result of changes in market rates. As at February 29, 2020, the increase or decrease in (loss) income before taxes for each 1% change in interest rates on floating rate debt amounts to approximately \$5,983 (2019 - \$7,104). The related disclosures regarding these debt instruments are included in Note 10 of the condensed consolidated interim financial statements.

L. Capital Disclosures

The Company manages its capital to maintain its ability to continue as a going concern and to provide returns to shareholders and benefits to other stakeholders. The capital structure of the Company consists of cash and equity comprised of issued capital, contributed surplus and deficit.

The Company manages its capital structure and makes adjustments to it in light of economic conditions. The Company, upon approval from its Board of Directors, will balance its overall capital structure through new share issues or by undertaking other activities as deemed appropriate under the specific circumstances.

The Company is not subject to externally imposed capital requirements and the Company's overall strategy with respect to capital risk management remains unchanged from the fiscal year ended February 29, 2020.

M. Conferences

CONFERENCES ATTENDED IN 2020

• The Minerals, Metals & Materials (TMS) 2020, San Diego, CA, exhibitor, February 23-27, 2020

CONFERENCES ATTENDED IN 2019

- Materials Science & Technology (MS&T) 2019, Portland, OR, exhibitor, September 29 October 3, 2019
- Ceramics Expo 2019, Cleveland, OH, Exhibitor, April 30-May 1, 2019
- Space Technology Expo 2019, Pasadena, CA, Exhibitor, May 20-22, 2019

N. Intention of management's discussion and analysis

This MD&A is intended to provide an explanation of financial and operational performance compared with prior periods and the Company's prospects and plans. It provides additional information that is not contained in the Company's financial statements.

O. Subsequent events

- (a) Subsequent to year end, the company's line of credit of \$250,000 was called by its bank and paid by a related party to settle their guarantee agreement under the terms of that certain credit agreement. Concurrent with such settlement, the company entered into a Promissory Note Agreement with the related party of \$250,000 with an interest rate set at the US Prime Rate plus 1.0%.
- (b) The Company applied for and received loan proceeds in the amount of \$62,600 ("PPP Funds") and entered into a loan agreement with Manufacturers Bank pursuant to the Paycheck Protection Program ("PPP"). The PPP was established as part of the Coronavirus Aid, Relief and Economic Security Act ("CARES Act") in order to enable small businesses to pay employees during the economic slowdown caused by COVID-19 by providing forgivable loans to qualifying businesses for up to 2.5 times their average monthly payroll costs. The amount borrowed by the Company under the PPP is eligible to be forgiven provided that (a) the Company uses the PPP Funds during the 24-week period after receipt thereof, and (b) the PPP Funds are only used to cover payroll costs (including benefits), rent, mortgage interest, and utility costs. The amount of loan forgiveness will be reduced if, among other reasons, the Company does not maintain staffing or payroll levels.

Principal and interest payments on any unforgiven portion of the PPP Funds (the "PPP Loan") will be deferred for six months and will accrue interest at a fixed annual rate

of 1%. Additionally, the PPP Loan balance will carry a two-year maturity date. There is no prepayment penalty on the PPP Loan.

O. Subsequent events-continued

(c) In 2020, domestic and international economies face uncertainty related to the impact of the COVID-19 pandemic. As global economies have adjusted to the impact, many companies have seen issues in raw materials availability, interruptions or delays in shipping, vendor supply chain and service provider limitations or delays. Management has continually evaluated the impact on operations, and has worked to mitigate any negative affects to the business. It is not possible to reliably estimate the duration and severity of the consequences of COVID-19, or the impact the event may have on the financial position and results of the company for future periods.

Additional information

Further information regarding California Nanotechnologies Corp. can be accessed under the Company's public filings found at www.sedar.com.

The information contained in this discussion may be considered to contain forward-looking statements. Such forward-looking statements address future events and conditions and are subject to risks and uncertainties that could cause actual results to differ materially from those contemplated. There is no representation by the Company that actual results will be the same in whole or in part as implied by the forward-looking statements provided.