

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

FORM 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended August 31, 2020

or

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission file number 001-11038

**NORTHERN TECHNOLOGIES INTERNATIONAL CORPORATION**

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

41-0857886

(I.R.S. Employer Identification No.)

4201 Woodland Road

P.O. Box 69

Circle Pines, Minnesota

(Address of principal executive offices)

55014

(Zip Code)

(763) 225-6600

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common stock, par value \$0.02 per share	NTIC	Nasdaq Global Market

Securities registered pursuant to Section 12(g) of the Act:

None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. YES  NO

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. YES  NO

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. YES  NO

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). YES  NO

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). YES  NO

The aggregate market value of the registrant's common stock, excluding shares beneficially owned by affiliates, computed by reference to the closing sales price at which the common stock was last sold as of February 29, 2020 (the last business day of the registrant's second fiscal quarter) as reported by the Nasdaq Global Market on that date was \$86.9 million.

As of November 9, 2020, 9,104,636 shares of common stock of the registrant were outstanding.

## DOCUMENTS INCORPORATED BY REFERENCE

Part III of this Annual Report on Form 10-K incorporates by reference information (to the extent specific sections are referred to herein) from the registrant's Proxy Statement for its 2021 Annual Meeting of Stockholders to be held January 15, 2021.

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NORTHERN TECHNOLOGIES INTERNATIONAL CORPORATION

ANNUAL REPORT ON FORM 10-K  
FISCAL YEAR ENDED AUGUST 31, 2020

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*This annual report on Form 10-K contains certain forward-looking statements that are within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, and that are subject to the safe harbor created by those sections. For more information, see “Part I. Item 1. Business – Forward-Looking Statements.”*

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*As used in this report, references to “NTIC,” the “Company,” “we,” “our,” or “us,” unless the context otherwise requires, refer to Northern Technologies International Corporation and its wholly-owned and majority-owned subsidiaries, all of which are consolidated on NTIC’s consolidated financial statements.*

*As used in this report, references to: (1) “NTIC China” refer to NTIC’s wholly-owned subsidiary in China, NTIC (Shanghai) Co., Ltd.; (2) “NTI Europe” refer to NTIC’s wholly-owned subsidiary in Germany, NTIC Europe GmbH; (3) “Zerust Mexico” refer to NTIC’s wholly-owned subsidiary in Mexico, ZERUST-EXCOR MEXICO, S. de R.L. de C.V.; (4) “Zerust Brazil” refer to NTIC’s majority-owned Brazilian subsidiary, Zerust Prevenção de Corrosão S.A.; (5) “Natur-Tec India” refer to NTIC’s majority-owned subsidiary in India, Natur-Tec India Private Limited; (6) “Natur Tec Lanka” refer to NTIC’s majority-owned subsidiary in Sri Lanka, Natur Tec Lanka (Pvt) Ltd and (7) “NTI Asean” refer to NTIC’s majority-owned holding company subsidiary, NTI Asean LLC, which holds investments in certain entities that operate in the Association of Southeast Asian Nations (ASEAN) region, including the following countries: Indonesia, South Korea, Malaysia, Philippines, Singapore, Taiwan, Thailand and Vietnam.*

*NTIC’s consolidated financial statements do not include the accounts of any of its joint ventures. Except as otherwise indicated, references in this report to NTIC’s joint ventures do not include any of NTIC’s wholly-owned or majority-owned subsidiaries.*

*As used in this report, references to “EXCOR” refer to NTIC’s joint venture in Germany, Excor Korrosionsschutz – Technologien und Produkte GmbH.*

*As used in this report, references to “Tianjin Zerust” refer to NTIC’s former joint venture in China, Tianjin-Zerust Anticorrosion Co., Ltd.*

*All trademarks, trade names, or service marks referred to in this report are the property of their respective owners.*

*On June 3, 2019, the Company’s Board of Directors declared a two-for-one stock split of the Company’s common stock effected in the form of a 100% share dividend distributed on June 28, 2019 to record holders as of June 17, 2019. All share and per share values in this report have been adjusted to retroactively reflect the effect of the two-for-one stock split.*

## PART I

### Item 1. BUSINESS

#### Overview

Northern Technologies International Corporation (NTIC) develops and markets proprietary, environmentally-beneficial products and services in over 60 countries either directly or via a network of subsidiaries, joint ventures, independent distributors, and agents. NTIC's primary business is corrosion prevention, marketed mainly under the ZERUST<sup>®</sup> brand. NTIC has been selling its proprietary ZERUST<sup>®</sup> products and services to the automotive, electronics, electrical, mechanical, military, and retail consumer markets for over 40 years and, in recent years, has targeted and expanded into the oil and gas industry. NTIC also markets and sells a portfolio of bio-based and certified compostable (fully biodegradable) polymer resin compounds and finished products under the Natur-Tec<sup>®</sup> brand. These products are intended to reduce NTIC's customers' carbon footprint and provide environmentally sound waste disposal options.

NTIC's ZERUST<sup>®</sup> rust and corrosion inhibiting products include plastic and paper packaging, liquids, coatings, rust removers, cleaners, and diffusers as well as engineered solutions designed specifically for the oil and gas industry. NTIC also offers worldwide, on-site, technical consulting for rust and corrosion prevention issues. NTIC's technical service consultants work directly with the end users of NTIC's ZERUST<sup>®</sup> rust and corrosion inhibiting products to analyze their specific needs and develop systems to meet their performance requirements. In North America, NTIC sells its ZERUST<sup>®</sup> corrosion prevention solutions through a network of independent distributors and agents supported by a direct sales force.

Internationally, NTIC sells its ZERUST<sup>®</sup> corrosion prevention solutions through its wholly-owned subsidiary in China, NTIC (Shanghai) Co., Ltd. (NTIC China), its majority-owned joint venture holding company for NTIC's joint venture investments in the Association of Southeast Asian Nations (ASEAN) region, NTI Asean LLC (NTI Asean), certain majority-owned and wholly-owned subsidiaries, and joint venture arrangements in North America, Europe, and Asia. NTIC also sells products directly to its joint venture partners through its wholly-owned subsidiary in Germany, NTIC Europe GmbH (NTI Europe).

One of NTIC's strategic initiatives is to expand into and penetrate other markets for its ZERUST<sup>®</sup> corrosion prevention technologies. Consequently, for the past several years, NTIC has focused significant sales and marketing efforts on the oil and gas industry, as the infrastructure that supports that industry is typically constructed using metals that are highly susceptible to corrosion. NTIC believes that its ZERUST<sup>®</sup> corrosion prevention solutions will minimize maintenance downtime on critical oil and gas industry infrastructure, extend the life of such infrastructure, and reduce the risk of environmental pollution due to leaks caused by corrosion.

NTIC markets and sells its ZERUST<sup>®</sup> rust and corrosion prevention solutions to customers in the oil and gas industry across several countries either directly, through its subsidiaries, or through its joint venture partners and other strategic partners. The sale of ZERUST<sup>®</sup> corrosion prevention solutions to customers in the oil and gas industry typically involves long sales cycles, often including multi-year trial periods with each customer and a slow integration process thereafter.

Natur-Tec<sup>®</sup> bio-based and compostable plastics are manufactured using NTIC's patented and/or proprietary technologies and are intended to replace conventional petroleum-based plastics. The Natur-Tec<sup>®</sup> biopolymer resin compound portfolio includes formulations that have been optimized for a variety of applications, including blown-film extrusion, extrusion coating, injection molding, and engineered plastics. These resin compounds are certified to be fully biodegradable in a composting environment and are currently being used to produce finished products, including can liners, shopping and grocery bags, lawn and leaf bags, branded apparel packaging bags and accessories, and various foodservice items, such as disposable cutlery, drinking straws, food-handling gloves, and coated paper products. In North America, NTIC markets its Natur-Tec<sup>®</sup> resin compounds and finished products primarily through a network of regional and national distributors as well as independent agents. NTIC continues to see significant opportunities for finished bioplastic products and, therefore, continues to strengthen and expand its North American distribution network for finished Natur-Tec<sup>®</sup> bioplastic products.

Internationally, NTIC sells its Natur-Tec<sup>®</sup> resin compounds and finished products both directly and through its wholly-owned subsidiary in China and majority-owned subsidiaries in India and Sri Lanka, and through distributors and certain joint ventures.

## Impact of COVID-19 Pandemic

In March 2020, the World Health Organization declared the novel coronavirus (COVID-19) outbreak a global pandemic. The COVID-19 pandemic has negatively impacted the global economy, disrupted global supply chains, created significant volatility and disruption in financial markets and has resulted in an economic recession. As a result of the COVID-19 pandemic and related government mandated restrictions on the Company's business, as well as the businesses of its joint ventures, customers and suppliers, disruption to the Company's business and the manufacture and sale of its products and services has occurred and is expected to continue into fiscal 2021. Additionally, the Company expects the COVID-19 pandemic will likely continue to have a material adverse effect on its business, operating results and financial condition in fiscal 2021; however, the precise financial impact and duration cannot be reasonably estimated at this time.

In response to the impact of the COVID-19 pandemic, and given the uncertainty of its duration, the Company has taken a number of precautionary measures, including the withdrawal and suspension of its specific full-year financial guidance and the temporary suspension of its quarterly cash dividend.

## NTIC's Subsidiaries and Joint Venture Network

NTIC has ownership interests in nine operating subsidiaries in North America, South America, Europe, and Asia. The following table sets forth a list of NTIC's operating subsidiaries as of November 9, 2020, the country in which the subsidiary is organized, and NTIC's ownership percentage in each subsidiary:

Subsidiary Name	Country	NTIC Percent (%) Ownership
NTIC (Shanghai) Co., Ltd	China	100%
NTI Asean LLC	United States	60%
Zerust Prevenção de Corrosão S.A.	Brazil	85%
ZERUST-EXCOR MEXICO, S. de R.L. de C.V	Mexico	100%
Natur-Tec India Private Limited	India	75%
Natur Tec Lanka (Pvt) Ltd	Sri Lanka <sup>(1)</sup>	75%
NTIC Europe GmbH	Germany	100%
Zerust Singapore Pte Ltd	Singapore <sup>(2)</sup>	60%
Zerust Vietnam Co. Ltd	Vietnam <sup>(2)</sup>	60%

(1) Natur Tec Lanka (Pvt) Ltd. is 100% owned by Natur-Tec India Private Limited and, therefore, indirectly owned by NTIC.

(2) Zerust Singapore Pte Ltd and Zerust Vietnam Co. Ltd are 100% owned by NTI Asean LLC and, therefore, indirectly owned by NTIC.

The results of these subsidiaries are fully consolidated in NTIC's consolidated financial statements.

NTIC participates in 19 active joint venture arrangements in North America, Europe, and Asia. Each of these joint ventures generally manufactures and markets products in the geographic territory to which it is assigned. While most of NTIC's joint ventures exclusively sell rust and corrosion inhibiting products, some of the joint ventures also sell NTIC's Natur-Tec<sup>®</sup> resin compounds. NTIC has historically funded its investments in joint ventures with cash generated from operations.

The following table sets forth a list of NTIC’s operating joint ventures as of November 9, 2020, the country in which the joint venture is organized, and NTIC’s ownership percentage in each joint venture:

Joint Venture Name	Country	NTIC Percent (%) Ownership
TAIYONIC LTD.	Japan	50%
ACOBAL SAS	France	50%
EXCOR KORROSIONSSCHUTZ – TECHNOLOGIEN UND PRODUKTE GMBH	Germany	50%
ZERUST AB	Sweden	50%
MOSTNIC-ZERUST	Russia	50%
ZERUST OY	Finland	50%
HARITA-NTI LTD	India	50%
ZERUST (U.K.) LTD.	United Kingdom	50%
EXCOR-ZERUST S.R.O.	Czech Republic	50%
EXCOR SP. Z.O.O.	Poland	50%
ZERUST A.Ş.	Turkey	50%
ZERUST CONSUMER PRODUCTS, LLC	United States	50%
ZERUST – DNEPR	Ukraine	50%
KOREA ZERUST CO., LTD.	South Korea <sup>(1)</sup>	30%
ZERUST-NIC (TAIWAN) CORP.	Taiwan <sup>(1)</sup>	30%
PT. CHEMINDO – NTIA	Indonesia <sup>(1)</sup>	30%
ZERUST SPECIALTY TECH CO. LTD.	Thailand <sup>(1)</sup>	30%
CHONG WAH-NTIA SDN. BHD.	Malaysia <sup>(1)</sup>	30%
NTIA ZERUST PHILIPPINES, INC.	Philippines <sup>(1)</sup>	30%

(1) Indirect ownership interest through NTI Asean.

NTIC receives funds from its joint ventures as fees received for services that NTIC provides to its joint ventures and as dividend distributions. The fees for services provided to joint ventures are determined based on either a flat fee or a percentage of sales depending on local laws and tax regulations. With respect to NTIC’s joint venture in Germany (EXCOR), NTIC recognizes an agreed upon quarterly fee for services. NTIC recognizes equity income from each joint venture based on the overall profitability of the joint venture. Such profitability is subject to variability from quarter to quarter, which, in turn, subjects NTIC’s earnings to variability from quarter to quarter. The profits of each joint venture are shared by the respective joint venture owners in accordance with their respective ownership percentages. NTIC typically directly or indirectly owns 50% or less of each of its joint venture entities and, thus, does not control the decisions of these entities regarding whether to pay dividends and, if paid, what amount is paid in a given year. The payment of a dividend by an entity is determined by a joint vote of the owners and is not at the sole discretion of NTIC.

NTIC accounts for the investments and financial results of its joint ventures in its financial statements utilizing the equity method of accounting.

NTIC considers EXCOR, ACOBAL SAS, ZERUST OY, HARITA-NTI LTD and ZERUST SPECIALTY TECH CO. LTD. to be individually significant to NTIC’s consolidated assets and income as of August 31, 2020. Therefore, NTIC provides certain additional information regarding these joint ventures in the notes to NTIC’s consolidated financial statements and in this section of this report.

For more information regarding NTIC’s joint ventures and their effect on NTIC’s operating results, see NTIC’s consolidated financial statements in “Part II. Item 8. Financial Statements and Supplementary Data” and “Part II. Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations” of this report.

## Products

NTIC derives revenues directly and/or indirectly through its subsidiaries and joint ventures from two reportable business segments based on products sold, customer base, and distribution center: ZERUST<sup>®</sup> corrosion prevention solutions and Natur-Tec<sup>®</sup> resin compounds and finished products.

**ZERUST<sup>®</sup> Corrosion Prevention Solutions.** In fiscal 2020, 72.4% of NTIC's consolidated net sales were derived from developing, manufacturing and marketing ZERUST<sup>®</sup> rust and corrosion inhibiting products and services. NTIC's consolidated net sales in fiscal 2020 included \$34,474,535 in sales of ZERUST<sup>®</sup> rust and corrosion inhibiting products and services, a decrease of 9.7% from such sales in fiscal 2019. Corrosion not only damages the appearance of metal products and components but also negatively impacts their mechanical performance. This applies to the rusting of ferrous metals (iron and steel) and the deterioration by oxidation of nonferrous metals (aluminum, copper, brass, etc.). NTIC's ZERUST<sup>®</sup> corrosion prevention solutions include plastic and paper packaging, powders, liquids, coatings, rust removers, cleaners, diffusers, and engineered solutions for the oil and gas industry as well as technical corrosion management and consulting services.

**Plastic and Paper Packaging.** NTIC's ZERUST<sup>®</sup> packaging products contain proprietary chemical formulations that continuously release an invisible and odorless corrosion inhibiting vapor that passivates metal surfaces and thereby inhibits rust and corrosion. The corrosion inhibiting protection is maintained as long as the metal products to be protected remain enclosed within the ZERUST<sup>®</sup> packaging. Electron scanning shows that once the contents are removed from the ZERUST<sup>®</sup> packaging, the ZERUST<sup>®</sup> protection dissipates from the contents' surfaces within two hours, leaving a clean, dry, and corrosion-free metal component. This mechanism of corrosion protection enables NTIC's customers to easily package metal objects for rust-free shipment and/or long-term storage. Furthermore, by eliminating costly greasing and degreasing processes and/or significantly reducing the use of certain coatings to inhibit corrosion, NTIC's ZERUST<sup>®</sup> corrosion prevention solutions provide customers significant savings in labor, material, and capital expenditures for equipment to apply, remove, and dispose of oils and greases, as well as the attendant environmental problems, as compared to traditional methods of corrosion prevention.

NTIC was first to develop the means of infusing volatile corrosion inhibiting chemical systems (VCIs) into polyethylene and polypropylene resins. Combining ZERUST<sup>®</sup> chemical systems with polyethylene and polypropylene resins permitted NTIC to introduce a line of plastic packaging products in the form of low and high-density polyethylene bags and shroud film, including stretch, shrink, skin, and bubble cushioning film, thereby giving packaging engineers an opportunity to ship and store ferrous, nonferrous, and mixed-metal products in a clean, dry, and corrosion-free condition, with an attendant overall savings in total process costs. In addition to plastic packaging, NTIC has developed additives to imbue kraft paper, corrugated cardboard, solid fiber, and chipboard packaging materials with corrosion protection properties. NTIC's ZERUST<sup>®</sup> plastic and paper packaging products come in various thicknesses, strength enhancements, protection types, shapes, and sizes. This product line also includes items such as ZERUST<sup>®</sup> gun cases, car covers, and tool-drawer liners, which are targeted at retail consumers.

**Liquids and Coatings.** NTIC's corrosion prevention solutions include a line of metal surface treatment liquids and coatings, which are oil, water, or bio-solvent based, and are marketed under brand names including Axxatec<sup>™</sup>, Axxanol<sup>™</sup>, and Z-Maxx<sup>™</sup>. These liquids and coatings provide powerful corrosion protection in aggressive environments, such as salt air, high humidity, and/or high temperatures. Products are formulated for most metal types and protection levels. For exceptionally harsh environments, customers may choose to use a combination of NTIC's liquids and coatings with ZERUST<sup>®</sup> plastic and/or paper products to achieve robust corrosion protection during manufacturing, shipping, and warehousing stages.

**Rust Removers and Cleaners.** NTIC also sells rust removal and cleaning products designed to restore rusty parts to a usable condition without the use of labor-intensive, abrasive cleaners that damage surfaces and commonly fail to remove rust from complex metal surfaces, like the teeth of small gears, under the Axxaclean<sup>™</sup> brand name.

**Diffusers.** NTIC's corrosion prevention solutions include a line of corrosion inhibiting vapor diffusers, such as ZERUST<sup>®</sup> ActivPak<sup>®</sup>, ZERUST<sup>®</sup> ICT<sup>®</sup> Vapor Capsules, ZERUST<sup>®</sup> ICT<sup>®</sup> Plastabs<sup>®</sup>, ZERUST<sup>®</sup> ICT<sup>®</sup> Cor-Tabs<sup>®</sup>, ZERUST<sup>®</sup> ICT<sup>®</sup> Pipe Strip, and ZERUST<sup>®</sup> ICT<sup>®</sup> Tube Strip. These diffusers are designed to protect metals within enclosures, like switch gearboxes and electronic cabinets, or can be used as added protection to ZERUST<sup>®</sup> packaging products. Diffusers work by permeating the interior air of an enclosure with an invisible and odorless corrosion inhibiting vapor that protects nearby metal surfaces that are within a specific "radius of protection" for a period of one or two years depending on the model. This invisible and dry protective layer reevaporizes upon removal of the capsule from the enclosure, leaving all surfaces clean, dry, residue-free, and corrosion-free.

*Z-CIS<sup>®</sup> Technical Services.* As an on-going effort to help NTIC's customers improve and control their corrosion management processes, NTIC markets and offers unique corrosion management and consulting services to target customers. This ZERUST<sup>®</sup> corrosion inhibition system (known as Z-CIS<sup>®</sup>) leverages NTIC's global network to dispatch highly-trained technical service engineers to customer sites to solve complex corrosion problems. Several major automotive companies and their automotive parts suppliers have used NTIC's Z-CIS<sup>®</sup> system.

*ZERUST<sup>®</sup> Corrosion Prevention Solutions Designed Specifically for the Oil and Gas Industry.* NTIC has developed proprietary engineered corrosion inhibiting solutions specifically for the mitigation of corrosion of the types of capital assets used in the petroleum and chemical process industries and has targeted the sale of these ZERUST<sup>®</sup> corrosion solutions to potential customers in the oil and gas industry. NTIC's consolidated net sales in fiscal 2020 included \$2,782,874 in sales made to customers in the oil and gas industry, an increase of 2.0% from such sales in fiscal 2019. NTIC anticipates that its sales of ZERUST<sup>®</sup> products and services into the oil and gas industry will continue to remain subject to significant volatility, specifically due to the volatility of oil prices brought about by various political factors, such as the recent price wars between Saudi Arabia and Russia, and economic factors, such as the recent price drop and global production slowdown caused by travel and other restrictions related to the COVID-19 pandemic. Demand for ZERUST<sup>®</sup> oil and gas products around the world depends primarily on market acceptance and the reach of NTIC's distribution network. Because of the typical size of individual orders and overall size of NTIC's net sales derived from sales of oil and gas products, the timing of one or more orders can materially affect NTIC's sales compared to prior fiscal year period sales. Projects in Europe and the Middle East are a small but strategically important part of the sales growth picture. The infrastructure that supports the oil and gas industry is predominantly constructed using metals that are highly susceptible to corrosion. The industrial environment at these facilities usually contains compounds, including sulfides and chlorides, which cause aggressive corrosion. This problem affects the service life and safety of pipelines, petroleum storage tanks, spare parts in long-term storage, processing, and other critical equipment. In addition to the costs associated with the replacement of parts and structures, maintenance and repairs, and product loss, there are significant economic losses associated with critical infrastructure being down for repair and maintenance. Furthermore, there are also considerable health, safety, and environmental risks caused by corrosion that can greatly increase economic losses. NTIC believes that its ZERUST<sup>®</sup> oil and gas corrosion prevention solutions minimize maintenance downtime on critical oil and gas industry infrastructure, extend the life of such infrastructure, and reduce the risk of environmental pollution due to leaks caused by corrosion.

NTIC's rust and corrosion inhibiting products for the oil and gas industry include ZERUST<sup>®</sup> Flange Savers<sup>®</sup>, ZERUST<sup>®</sup> ReCAST-SSB solutions, and ZERUST<sup>®</sup> chemicals, including Zerion powders and gels, in addition to many of the standard industrial ZERUST<sup>®</sup> rust and corrosion inhibiting products previously described.

ZERUST<sup>®</sup> Flange Savers<sup>®</sup> are specially designed covers that have been impregnated with a proprietary ZERUST<sup>®</sup> inhibitor formulation to provide corrosion protection for flanges, valves, and welded joints. Oil and gas pipeline segments are connected by flanges and welded joints of varying sizes, designs, and materials. These connection points often corrode under aggressive industrial environments and harsh operating conditions, thereby causing costly maintenance, operational, and safety problems. ZERUST<sup>®</sup> Flange Savers<sup>®</sup> are available in various sizes to accommodate different pipe diameters, pressure ratings, and international standards for pipeline valves and flanges.

ZERUST<sup>®</sup> ReCAST-SSB solutions protect the Soil Side Bottoms (SSB) of aboveground storage tanks through a variety of unique and highly effective delivery systems designed by the Zerust Oil & Gas team to deliver proprietary Zerion FVS corrosion inhibitor to spaces under tank bottoms that are susceptible to significant corrosion. Tank bottoms are typically made of steel plates, which are in direct contact with a foundation surface that may be concrete, sand/soil, or asphalt/bitumen. It is typically not possible to protect this underside surface with traditional coatings. Cathodic protection (CP) systems can only provide partial protection, but also have significant limitations that cause failures well ahead of the expected service life of a tank. The ZERUST<sup>®</sup> solutions provide effective protection even to areas that cannot be addressed with CP. These are engineered solutions where each system is tailored to a customer's requirements depending on factors including the tank foundation design, specific environmental conditions, and tank diameter.

ZERUST<sup>®</sup> Zerion powder-based inhibitor solutions include the following:

- Zerion FVS is a unique inhibitor blend that is used in both the SSB Solutions and in internal pipeline protection. This “best-in-class” product has been successfully deployed at multiple client sites in North and South America, Europe, the Middle East, India as well as other parts of Asia.
- Zerion FAN-5 is a lower cost inhibitor that is very effective at protecting metals upon contact. It can be used to treat large volumes of water that may be used for hydrotesting. In combination with Zerion FVS, it offers a more complete solution for the protection of pipeline internals.
- AutoFog is a revolutionary product that allows for the quick VCI saturation of large volume spaces without the need for mechanical “fogging” equipment. This rapid self-diffusing capability is designed for sealed void spaces, protection of large/complex assets like heat exchangers, and heater-treaters.
- Sol-V C-Series is designed to provide corrosion prevention in voids and enclosures especially when there is either stagnant water or the potential for water seepages and/or accumulation of water over time. ZERUST<sup>®</sup> Sol-V<sup>™</sup> C-Series packaging allows VCIs to release while conserving a Sol-V proprietary blend of soluble corrosion inhibitors (SCIs) until water enters the system. Typical applications of ZERUST<sup>®</sup> Sol-V<sup>™</sup> C-Series packaging include offshore platform leg voids, vessels and tanks mothballed in tropical environments, ship blocks being fabricated in areas of high humidity, piping systems, and heat exchangers.

**Natur-Tec<sup>®</sup> Resin Compounds and Finished Products.** NTIC manufactures and sells a broad range of bioplastic packaging solutions, including bio-based and certified compostable (fully biodegradable) polymer resin compounds, and finished products under the Natur-Tec<sup>®</sup> brand. NTIC’s consolidated net sales in fiscal 2020 included \$13,164,156 in sales of Natur-Tec<sup>®</sup> resins and finished products, a decrease of 25.1% over such sales in fiscal 2019. Market drivers such as volatile petroleum prices, reduced dependence on foreign oil, reduced carbon footprints, requirements by multinational brands for sustainable packaging solutions that meet Circular Economy and environmentally responsible end-of-life disposal mandates, and concerns about plastic residue in the environment have led to heightened interest in using sustainable, bio-based and renewable plant-biomass resources for the manufacture of plastics and industrial products. Plastics that are fully biodegradable in composting or anaerobic digester systems allow the safe and effective conversion of these plastics to carbon dioxide, water, and fertilizer at the end of their service life. Increased environmental and sustainability awareness at the corporate and consumer level, improved technical properties and product functionality, as well as recent foreign, state, and local governmental regulations banning the use of conventional plastics or mandating the use of certain biodegradable or compostable products have also fueled this interest in bio-based and biodegradable-compostable plastics. The term “bio-plastics” encompasses a broad category of plastics that are either bio-based, which means derived from renewable resources such as corn or cellulosic/plant material or blends thereof, or are engineered to be fully compostable, or both.

**Resin Compounds.** Natur-Tec<sup>®</sup> resin compounds are produced by blending commercially available base resins, such as Ecoflex<sup>®</sup> from BASF and Ingeo<sup>®</sup> PLA from NatureWorks LLC, with organic and inorganic fillers and proprietary polymer modifiers and compatibilizers using NTIC’s proprietary and patented ReX Process. In this process, biodegradable polymers, natural polymers made from renewable, plant-biomass resources, and organic and inorganic materials are reactively blended in the presence of proprietary compatibilizers and polymer modifiers to produce bio-based and/or compostable polymer resin formulations that exhibit unique and stable morphology. Natur-Tec<sup>®</sup> resin compounds are engineered for high performance, ease of processing, and reduced cost compared to most other bio-plastic materials and can be processed by converters using conventional plastic manufacturing processes and equipment.

Natur-Tec<sup>®</sup> resin compounds are available in several grades tailored for a variety of applications, such as blown-film extrusion, profile extrusion, thermoforming, extrusion coating, and injection molding.

Natur-Tec<sup>®</sup> flexible film resin compounds are fully compostable and meet the requirements of international standards for compostable plastics, such as ASTM (American Society for Testing and Materials) D6400 (U.S.), EN 13432 (European standards for products and services by European Committee for Standardization), and ISO (International Organization for Standardization) 17088, and are certified as 100% compostable by organizations including the BPI (Biodegradable Products Institute) in the United States and TÜV Austria in Europe. Natur-Tec<sup>®</sup> film resin compounds can be used to produce film for applications, such as bags, including compost bags, lawn and leaf bags, pet waste collection bags, and carry-out bags, agricultural film, and consumer and industrial packaging. Natur-Tec<sup>®</sup> film resin compounds are also used to produce bags and covers for branded apparel packaging and to manufacture specialty foodservice items, such as compostable drinking straws, thermoformed lids and disposable food-handling gloves.

The Natur-Tec<sup>®</sup> compostable extrusion coating resin compounds are bio-based and biodegradable and are designed to replace conventional plastic materials for extrusion coating applications. Natur-Tec<sup>®</sup> extrusion coating resin compounds are manufactured using sustainable and renewable resources, per the ASTM D6866 standard, which allows companies and consumers the opportunity to reduce or neutralize their carbon footprint, and are designed to meet the requirements of international standards for compostable plastics, such as ASTM D6400. Natur-Tec<sup>®</sup> extrusion coating resin compounds provide good adhesion to paper, an excellent print surface, and good heat seal strength and the coating material is suitable for food contact applications, including both hot and cold applications. Natur-Tec<sup>®</sup> extrusion coating resin compounds can be used for coating paper and paperboards for the manufacture of disposable cups, plates, and other foodservice items.

The Natur-Tec<sup>®</sup> compostable injection molding resin compounds are bio-based and compostable and are designed to replace conventional plastic materials for injection molded plastic applications. Natur-Tec<sup>®</sup> compostable injection molding resin compounds are manufactured using sustainable and renewable resources, per the ASTM D6866 standard, and are designed to meet the requirements of international standards for compostable plastics, such as ASTM D6400 and EN 13432. Natur-Tec<sup>®</sup> compostable injection molding resin compounds can be used for injection molded plastic applications, such as cutlery, pens, hangers, containers, and packaging. Natur-Tec<sup>®</sup> bio-based injection molding resin compounds are made with at least 90% bio-based/renewable resource-based materials, per the ASTM D6866 standard, and are meant to enhance sustainability by replacing petroleum-based plastics. Natur-Tec<sup>®</sup> bio-based injection molding resin compounds exhibit the same properties as conventional plastic materials and can be used in applications such as automotive components, consumer goods, electronics, medical products, furniture, and packaging.

**Finished Products.** Natur-Tec<sup>®</sup> finished products include totally biodegradable and compostable trash bags, agricultural film, and other single-use disposable products, such as compostable cutlery and food and consumer goods packaging currently marketed under the Natur-Bag<sup>®</sup> or Natur-Ware<sup>®</sup> brands.

The Natur-Bag<sup>®</sup> product line offers 15 different compostable trash bag sizes, from 3-gallon to 96-gallon, as well as shopper bags. The bags are available in various SKU configurations, including retail packs that are sold to the consumer either through retail outlets or through online stores and industrial case packs that are sold to commercial and industrial customers primarily through wholesalers and distributors. The Natur-Bag<sup>®</sup> products are manufactured from the Natur-Tec<sup>®</sup> flexible film resin compounds and thus are fully biodegradable and compostable.

The Natur-Ware<sup>®</sup> product line consists of bio-based and compostable cutlery made from the Natur-Tec<sup>®</sup> compostable injection molding resin compounds. Natur-Ware<sup>®</sup> cutlery can be composted along with food scraps in zero-waste programs.

Both Natur-Bag<sup>®</sup> and Natur-Ware<sup>®</sup> products are fully certified compostable and carry the BPI Compostable logo in the United States and the TÜV Austria OK Compost logo in Europe. Furthermore, these products were also independently tested and approved for use in organic waste diversion systems by Cedar Grove, one of the largest compost operators in the United States.

### **Sales, Marketing, and Distribution**

**ZERUST<sup>®</sup> Corrosion Prevention Solutions.** In the United States, NTIC markets its ZERUST<sup>®</sup> rust and corrosion inhibiting products and services, including its products designed for the oil and gas industry, principally to industrial users in the automotive, electronics, electrical, mechanical, military, retail consumer, and oil and gas markets by a direct sales force and through a network of independent distributors, manufacturer's sales representatives, and strategic partners. Prior to placing an order, NTIC's technical service consultants work directly with the end users of NTIC's ZERUST<sup>®</sup> products to analyze their specific corrosion prevention needs and develop systems to meet their performance requirements.

Internationally, NTIC has entered into a series of joint ventures with foreign partners (either directly or through a holding company). NTIC receives fees for providing technical support, marketing assistance, and other services to its joint ventures based primarily on the net sales of the individual joint ventures in accordance with the terms of the joint venture arrangements. Such services include consulting, legal, insurance, technical, and marketing services.

In China, NTIC sells its products and services through NTIC China. NTIC has a wholly-owned or majority-owned subsidiaries to conduct its business in Brazil, Mexico, Vietnam and Singapore.

With respect to the sales and marketing of ZERUST<sup>®</sup> rust and corrosion inhibiting products and services to the oil and gas industry, NTIC uses a combination of direct sales personnel, independent sales agents, and its joint venture network. In addition, in an attempt to penetrate the oil and gas industry within certain markets more quickly, NTIC has entered into various agreements with specific organizations that have existing long-term relationships with key oil and gas industry clients. NTIC also engages in certain direct marketing activities to build its brand within the oil and gas industry, such as traditional advertising and direct mail campaigns and presence and participation at selected key trade shows and technical forums.

Additionally, NTIC has worked to adapt its marketing activities in light of the COVID-19 pandemic. NTIC continues to believe the sale of its ZERUST<sup>®</sup> corrosion prevention solutions to customers in the oil and gas industry will involve long sales cycles, likely including multi-year trial periods with each user and a slow integration process thereafter.

**Natur-Tec<sup>®</sup> Resin Compounds and Finished Products.** In the United States, NTIC markets its Natur-Tec<sup>®</sup> resin compounds and finished products through a network of national and regional distributors and independent manufacturer's sales representatives and two NTIC direct sales employees as of August 31, 2020. Target customers for Natur-Tec<sup>®</sup> finished products include individual consumers as well as commercial and institutional organizations, such as corporations and government agencies, and educational organizations, such as universities and school districts. NTIC is also targeting key national and regional retailers utilizing independent sales agents. Target customers for Natur-Tec<sup>®</sup> resin compounds include film extruders and injection molders that would purchase Natur-Tec<sup>®</sup> resin compounds to manufacture and sell their own finished bio-based and compostable end products, such as film, bags, and cutlery. Additionally, NTIC is targeting retailers and customers that may have applications for our products related to the COVID-19 pandemic.

Internationally, NTIC uses Natur-Tec India, Natur Tec Lanka, NTI China and a network of international distributors to market its Natur-Tec<sup>®</sup> resin compounds and finished products. With Indian government mandates banning the use of non-biodegradable plastics in certain types of food and consumer packaging, NTIC expects the market in India for bio-plastic packaging solutions to continue to grow substantially. Similarly, in the last fiscal year, NTIC saw a rise in the sales of Natur-Tec<sup>®</sup> products in China and anticipates that sales will continue to grow.

## **Competition**

**ZERUST<sup>®</sup> Corrosion Prevention Solutions.** While NTIC is unaware of any third parties with which NTIC competes on a worldwide basis with respect to its corrosion prevention solutions, NTIC does compete with several third parties on a regional basis. NTIC evaluates competing rust and corrosion inhibiting products on an ongoing basis. Some of NTIC's competitors are established companies that may have financial resources, marketing capabilities, distribution networks and other resources substantially greater than those of NTIC. As a result, they may be able to adapt more quickly to new or emerging technologies and changes in customer requirements or to devote greater resources to the promotion and sale of their products than NTIC. With respect to its rust and corrosion inhibiting products, NTIC competes on the basis of product innovation, quality, reliability, product support, customer service, reputation, and price. Some of NTIC's competitors may have achieved significant market acceptance of their competing products and brand recognition. NTIC, however, believes it has an advantage over most of its competitors as a result of NTIC's technical innovation and its value-added services. NTIC attempts to provide its customers with the highest level of technical service and applications engineering in addition to ZERUST<sup>®</sup> rust and corrosion inhibiting products. Nonetheless, the commoditization of certain of NTIC's ZERUST<sup>®</sup> rust and corrosion inhibiting products has led, and may continue to lead, to lower prices and lower margins on such products. In addition, because certain barriers to entry are low, additional competitors may emerge, which likely would lead to the further commoditization of NTIC's rust and corrosion inhibiting products.

With respect to NTIC's corrosion prevention solutions for use in the oil and gas industry, NTIC's primary barrier to entry is a combination of conservatism, complacency, and confidence in old approaches, as well as the complexity of the buying organizations. Some of NTIC's competitors with respect to its traditional ZERUST<sup>®</sup> rust and corrosion inhibiting products also compete in the oil and gas industry. NTIC also faces competition from new suppliers who provide alternative approaches to corrosion prevention, some of which have a significant market presence and more years of experience and credibility in the oil and gas industry. Original equipment manufacturer (OEM) suppliers to the oil and gas industry present a new market vertical for NTIC's traditional industrial ZERUST<sup>®</sup> products.

**Natur-Tec<sup>®</sup> Resin Compounds and Finished Products.** With respect to NTIC's Natur-Tec<sup>®</sup> resin compounds and finished products, NTIC competes with several established companies that have been producing and selling similar products for a significantly longer time period and have significantly more sales, more extensive and effective distribution networks, and better brand recognition than NTIC. Most of these companies also have substantially more financial and other resources than NTIC. NTIC competes on the basis of performance, brand awareness, distribution network, product availability, product offering, improved shelf life, place of manufacture, and price. Because of price competition, NTIC's margins on its Natur-Tec<sup>®</sup> resin compounds and finished products are lower than its margins on its ZERUST<sup>®</sup> corrosion prevention solutions. NTIC also has encountered in the past and could continue to encounter additional supply constraints for the base resins used to manufacture NTIC's Natur-Tec<sup>®</sup> resin compounds and finished products since there are a limited number of suppliers of such base resins and limited capacity for their production.

## **Research and Development**

NTIC's research and development activities are directed at improving existing products, developing new products, reducing costs, and improving quality assurance through improved testing of NTIC's products. NTIC's internal research and development activities are conducted at its facilities located in Circle Pines, Minnesota; Beachwood, Ohio; and Dresden, Germany under the direction of internationally known scientists and research institutes under exclusive contract with NTIC with respect to the subject of their respective research efforts. EXCOR has established a wholly-owned subsidiary, Excor Korrosionsforschung GmbH, to conduct research into new fields of corrosion inhibiting packaging and the applications engineering of such products in conjunction with NTIC's domestic research and development operations. With respect to NTIC's Natur-Tec<sup>®</sup> resin compounds and finished products, Ramani Narayan, Ph.D., a current director of NTIC and Distinguished Professor in the Department of Chemical Engineering & Materials Science at Michigan State University, provides his expertise and technical support to NTIC.

NTIC anticipates that it will spend between \$3,900,000 and \$4,100,000 in fiscal 2021 on research and development activities.

## **Intellectual Property Rights**

NTIC's success depends and will continue to depend in part upon its ability to maintain patent and trademark protection for its products and processes, to preserve its proprietary information and trade secrets, and to operate without infringing the proprietary rights of third parties. NTIC's policy is to attempt to protect its technology by, among other things, filing patent applications and trademark applications and vigorously preserving the trade secrets covering its technology and other intellectual property rights.

In 1980, NTIC developed and patented the first polyolefin (plastic) based industrial corrosion inhibiting packing material in the world. The U.S. patent granted under this patent application became the most important intellectual property right in NTIC's history. This patent expired in 2000. NTIC has since filed for 12 letters of patent in the United States covering various corrosion inhibiting technologies, systems, and applications and now owns several patents in these areas. These patents and patent applications have been extended to the countries of strategic relevance to NTIC, including Australia, Brazil, Canada, China, Europe, Japan, India, Korea, Mexico, Russia, and Taiwan. In addition, EXCOR owns several patents in the area covering various corrosion inhibiting technologies and has also applied for new patents on proprietary new corrosion inhibiting technologies. NTIC is also seeking additional patent protection covering various host materials into which its corrosion inhibiting additives and other protective features can be incorporated, proprietary new process technologies, and chemical formulations outside the area of corrosion protection. NTIC owns several patents outside the area of corrosion protection both in the United States and in countries of strategic relevance to NTIC, including the above-noted countries.

In addition to seeking patent protection, NTIC maintains an extensive portfolio of trademarks in countries where NTIC has a presence directly or through its subsidiaries and joint ventures. NTIC continuously pursues new trademark applications of strategic interest worldwide. NTIC owns the following U.S. registered trademarks: NTI<sup>®</sup>, NTI & Globe Design<sup>®</sup>, ZERUST<sup>®</sup>, EXCOR<sup>®</sup>, ICT<sup>®</sup>, Z-CIS<sup>®</sup>, COR TAB<sup>®</sup>, PLASTABS<sup>®</sup>, NATUR-TEC<sup>®</sup>, NATUR-TEC & Design<sup>®</sup>, NATUR-BAG<sup>®</sup> and NATUR-WARE<sup>®</sup>, ZERION<sup>®</sup>, AUTOFOG<sup>®</sup>, FLANGE SAVER<sup>®</sup>, and ACTIVPAK<sup>®</sup>. NTIC also has a registered trademark on the use of the Color Yellow with respect to corrosion inhibiting packaging. Furthermore, NTI<sup>®</sup>, ZERUST<sup>®</sup>, EXCOR<sup>®</sup>, the Color Yellow<sup>®</sup>, and NTI ASEAN<sup>®</sup>, as well as other marks, have been registered in the European Union, and several new applications are pending.

NTIC requires its employees, consultants, and advisors with access to its confidential information, including trade secrets, to execute confidentiality agreements upon commencement of their employment or consulting relationships with NTIC. These agreements generally provide that all confidential information NTIC develops or makes known to the individual during the course of the individual's employment or consulting relationship with NTIC must be kept confidential by the individual and not disclosed to any third parties. NTIC also requires all of its employees and consultants who perform research and development for NTIC to execute agreements that generally provide that all inventions developed by these individuals during their employment or service arrangement with NTIC will fall under NTIC's proprietary intellectual property rights.

## **Manufacturing**

NTIC's ZERUST<sup>®</sup> rust and corrosion inhibiting products are manufactured according to NTIC's specifications primarily by selected independent sub-contractors under trade secrecy agreements and/or license agreements. In addition, NTIC manufactures select ZERUST<sup>®</sup> rust and corrosion inhibiting products, consisting primarily of liquids and powders, at its corporate headquarters location in Circle Pines, Minnesota.

NTIC's Natur-Tec<sup>®</sup> resin compounds and finished products are produced at facilities in India, China, Malaysia, and California, USA. NTIC's Natur-Tec<sup>®</sup> resin compounds can be shipped to manufacturing facilities around the world, where they then can be converted into finished products, such as a bag or piece of cutlery. NTIC's Natur-Tec<sup>®</sup> finished products are manufactured using NTIC's Natur-Tec<sup>®</sup> resin compounds by select sub-contractors.

NTIC is ISO 9001 certified with respect to the manufacturing of its products. NTIC believes that the process of ISO 9001 certification serves as an excellent total quality management tool, enabling NTIC to ensure consistency in the performance of its products. In addition, because potential customers may prefer or require manufacturers to have achieved ISO certification, such ISO certifications may provide NTIC with certain competitive advantages.

## **Availability of Raw Materials**

NTIC does not typically carry excess quantities of raw materials because of widespread availability for such materials from various suppliers. However, with respect to its Natur-Tec<sup>®</sup> resin compounds and finished products, there are a limited number of suppliers of the base resins used to manufacture the resin compounds and finished products. Additionally, there is growing demand for these base resins. In the past and during fiscal year 2020, NTIC has experienced some delays in obtaining such base resins. In addition, a few raw materials and purchased parts used in NTIC's rust and corrosion inhibiting products and Natur-Tec<sup>®</sup> finished products are sourced from suppliers who currently serve as NTIC's sole source of supply for these materials and parts. Although NTIC believes it can obtain these raw materials and parts from other suppliers, an unexpected loss of supply over a short period of time may not allow NTIC time to replace these sources in the ordinary course of business.

## **Backlog**

NTIC had an estimated order backlog of \$3,593,000 as of August 31, 2020, compared to \$3,224,000 as of August 31, 2019, which was generally across all business units. Sales relating to this backlog are expected to be realized during first quarter of fiscal 2021. These are orders that are held by NTIC pending release instructions from the customers to be used for just-in-time production. Customers generally place orders on an "as needed" basis and expect delivery within a relatively short period of time.

## **Governmental Regulation**

The U.S. Food and Drug Administration (FDA) has indicated to NTIC that it has no objection to the use of ZERUST<sup>®</sup> ICT<sup>®</sup> packaging products in protecting metal food containers and processing equipment. In addition, the manufacture, sale and use of NTIC's Natur-Tec<sup>®</sup> resin compounds and finished products are subject to regulation in the United States by the FDA. The FDA's regulations are concerned with substances used in food packaging materials. Thus, food and beverage containers are in compliance with FDA regulations if the components used in the food and beverage containers are approved by the FDA as indirect food additives for their intended uses and comply with the applicable FDA indirect food additive regulations or are generally recognized as safe for their intended uses and are of suitable purity for those intended uses. NTIC believes that its resin compounds are in compliance with all FDA requirements and that NTIC does not require further FDA approval prior to the sale of its products.

## Employees

As of August 31, 2020, NTIC had 78 full-time employees located in North America, consisting of 21 in sales and marketing, 19 in research and development and lab, 27 in administration, and 11 in production. As of August 31, 2020, NTIC's wholly-owned subsidiary in China had 35 full-time employees, its majority-owned subsidiary in Brazil had 20 full-time employees, its majority-owned subsidiary in India had 9 full-time employees, its wholly owned subsidiary in Mexico had no full-time employees, and its holding company, NTI Asean, had no full-time employees. There are no unions representing NTIC's employees, and NTIC believes that its relations with its employees are good.

## Available Information

NTIC is a Delaware corporation that was originally organized as a Minnesota corporation in 1970. NTIC's principal executive office is located at 4201 Woodland Road, Circle Pines, Minnesota 55014, and its telephone number is (763) 225-6600. NTIC's website is located at [www.ntic.com](http://www.ntic.com). References to NTIC's website addressed in this report are provided as a convenience and as an inactive textual reference only. The information on NTIC's website or any other website is not incorporated by reference into, and is not considered a part of, this report.

NTIC makes available, free of charge and through its Internet web site, its annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and any amendments to any such reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended, as soon as reasonably practicable after NTIC electronically files such material with, or furnishes it to, the Securities and Exchange Commission (SEC). Reports filed with the SEC may be viewed at [www.sec.gov](http://www.sec.gov).

## Forward-Looking Statements

This report on Form 10-K contains not only historical information, but also forward-looking statements that are within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. These forward-looking statements are subject to the safe harbor created by those sections. In addition, NTIC or others on NTIC's behalf may make forward-looking statements from time to time in oral presentations, including telephone conferences and/or web casts open to the public, in press releases or reports, on NTIC's Internet web site, or otherwise. All statements other than statements of historical facts included in this report or expressed by NTIC orally from time to time that address activities, events, or developments that NTIC expects, believes, or anticipates will or may occur in the future are forward-looking statements, including, in particular, the statements about NTIC's plans, objectives, strategies, and prospects regarding, among other things, the statements about NTIC's plans, objectives, strategies, and prospects regarding, among other things, NTIC's financial condition, results of operations and business, the anticipated effect of COVID-19 on NTIC's business, operating results and financial condition, the outcome of contingencies, such as legal proceedings and the effect of the liquidation of Tianjin Zerust, and the operations of NTIC China. NTIC has identified some of these forward-looking statements in this report with words like "believe," "can," "may," "could," "would," "might," "forecast," "possible," "potential," "project," "will," "should," "expect," "intend," "plan," "predict," "anticipate," "estimate," "approximate," "outlook," or "continue" or the negative of these words or other words and terms of similar meaning. The use of future dates is also an indication of a forward-looking statement. Forward-looking statements may be contained in the notes to NTIC's consolidated financial statements and elsewhere in this report, including under "*Part II. Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations.*"

Forward-looking statements are based on current expectations about future events affecting NTIC and are subject to uncertainties and factors that affect all businesses operating in a global market as well as matters specific to NTIC. These uncertainties and factors are difficult to predict, and many of them are beyond NTIC's control. The following are some of the uncertainties and factors known to us that could cause NTIC's actual results to differ materially from what NTIC has anticipated in its forward-looking statements:

- The effect of COVID-19 on NTIC's business, operating results and financial condition, including disruption to our customers, suppliers and subcontractors, as well as the global economy and financial markets;

- The effect of current worldwide economic conditions and any turmoil and disruption in the global credit and financial markets on NTIC's business;
- Variability in NTIC's sales of ZERUST<sup>®</sup> products and services to the oil and gas industry and Natur-Tec<sup>®</sup> products and NTIC's equity income of joint ventures, which variability in sales and equity in income from joint ventures, in turn, subject NTIC's earnings to quarterly fluctuations;
- Risks associated with NTIC's international operations and exposure to fluctuations in foreign currency exchange rates, import duties, taxes, and tariffs;
- The effect of the United Kingdom's process to exit the European Union on NTIC's operating results, including, in particular, future net sales of NTIC's European and other joint ventures;
- The effect of the health of the U.S. automotive industry on NTIC's business;
- NTIC's dependence on the success of its joint ventures and fees and dividend distributions that NTIC receives from them;
- NTIC's relationships with its joint ventures and its ability to maintain those relationships, especially in light of anticipated succession planning issues;
- Fluctuations in the cost and availability of raw materials, including resins and other commodities;
- The success of and risks associated with NTIC's emerging new businesses and products and services, including in particular NTIC's ability and the ability of NTIC's joint ventures to sell ZERUST<sup>®</sup> products and services to the oil and gas industry and Natur-Tec<sup>®</sup> products and the often lengthy and extensive sales process involved in selling such products and services;
- NTIC's ability to introduce new products and services that respond to changing market conditions and customer demand;
- Market acceptance of NTIC's existing and new products, especially in light of existing and new competitive products;
- Maturation of certain existing markets for NTIC's ZERUST<sup>®</sup> products and services and NTIC's ability to grow market share and succeed in penetrating other existing and new markets;
- Increased competition, especially with respect to NTIC's ZERUST<sup>®</sup> products and services, and the effect of such competition on NTIC's and its joint ventures' pricing, net sales, and margins;
- NTIC's reliance upon and its relationships with its distributors, independent sales representatives, and joint ventures;
- NTIC's reliance upon suppliers;
- Oil prices, which may affect sales of NTIC's ZERUST<sup>®</sup> products and services to the oil and gas industry;
- NTIC's operations in China, and the risks associated therewith, the termination of the joint venture agreements with Tianjin Zerust, and the anticipated liquidation of Tianjin Zerust and the effect of all these events on NTIC's business and future operating results;
- The costs and effects of complying with laws and regulations and changes in tax, fiscal, government, and other regulatory policies, including rules relating to environmental, health, and safety matters;
- Unforeseen product quality or other problems in the development, production, and usage of new and existing products;
- Unforeseen production expenses incurred in connection with new customers and new products;
- Loss of or changes in executive management or key employees;
- Ability of management to manage around unplanned events;
- Pending and future litigation;
- NTIC's reliance on its intellectual property rights and the absence of infringement of the intellectual property rights of others;
- NTIC's ability to maintain effective internal control over financial reporting, especially in light of its joint venture arrangements;
- Changes in applicable laws or regulations and NTIC's failure to comply with applicable laws, rules, and regulations;
- Changes in generally accepted accounting principles and the effect of new accounting pronouncements;
- Fluctuations in NTIC's effective tax rate, including from the Tax Cuts and Jobs Act;
- The effect of extreme weather conditions on NTIC's operating results; and
- NTIC's reliance upon its management information systems.

For more information regarding these and other uncertainties and factors that could cause NTIC's actual results to differ materially from what NTIC has anticipated in its forward-looking statements or otherwise could materially adversely affect its business, financial condition, or operating results, see "Part I. Item 1A. Risk Factors."

All forward-looking statements included in this report are expressly qualified in their entirety by the foregoing cautionary statements. NTIC wishes to caution readers not to place undue reliance on any forward-looking statement that speaks only as of the date made and to recognize that forward-looking statements are predictions of future results, which may not occur as anticipated. Actual results could differ materially from those anticipated in the forward-looking statements and from historical results due to the uncertainties and factors described above and others that NTIC may consider immaterial or does not anticipate at this time. Although NTIC believes that the expectations reflected in its forward-looking statements are reasonable, NTIC does not know whether its expectations will prove correct. NTIC's expectations reflected in its forward-looking statements can be affected by inaccurate assumptions NTIC might make or by known or unknown uncertainties and factors, including those described above. The risks and uncertainties described above are not exclusive, and further information concerning NTIC and its business, including factors that potentially could materially affect its financial results or condition, may emerge from time to time. NTIC assumes no obligation to update, amend, or clarify forward-looking statements to reflect actual results or changes in factors or assumptions affecting such forward-looking statements. NTIC advises you, however, to consult any further disclosures NTIC makes on related subjects in its annual reports on Form 10-K, quarterly reports on Form 10-Q, and current reports on Form 8-K that NTIC files with or furnishes to the SEC.

## **Item 1A. RISK FACTORS**

The following are the most material factors known to NTIC that could materially adversely affect its business, operating results, or financial condition.

### **Risks Related to NTIC's Business and Industry**

***Any weakness in the global economy, and in particular in the United States, Europe, India and China, and in the automotive industry, may negatively impact NTIC's business, operating results, and financial condition.***

The U.S. and world economies may suffer from uncertainty, volatility, disruption, and other adverse conditions, such as the impact of the COVID-19 pandemic, and those conditions have adversely impacted and may continue to adversely impact the business community and the financial markets. Adverse economic and financial market conditions may negatively affect NTIC's customers and its markets, thereby negatively impacting its business and operating results. For example, weak market conditions could extend the length of NTIC's sales cycle and cause potential customers to delay, defer, or decline to make purchases of NTIC's products and services due to uncertainties surrounding the future performance of their businesses, limitations on their capital expenditures due to internal budget constraints, the inability to obtain financing in the capital markets, and the adverse effects of the economy on their business and financial condition. As a result, if economic and financial market conditions weaken or deteriorate, then NTIC's business, financial condition, and operating results, including its ability to grow and expand its business and operations, could be materially and adversely affected.

NTIC's operating results are especially dependent upon the economic health of the economies in the United States, Europe, India and China. Since a significant portion of NTIC's ZERUST<sup>®</sup> rust and corrosion inhibiting products and services are sold to customers in the automotive industry, adverse economic conditions affecting the automotive industry, in particular, may result in an adverse effect on NTIC's net sales and its other operating results. Accordingly, any weakness in the global economy, particularly the United States, Europe, India and China, and in the automotive industry, have negatively impacted and may continue to negatively impact NTIC's business, operating results, and financial condition.

***The COVID-19 pandemic has adversely impacted and will likely continue to adversely impact NTIC's business, operating results and financial condition.***

The COVID-19 pandemic has resulted in a substantial curtailment of business activities worldwide and has caused, and continues to cause, recessionary economic conditions in many countries, including the United States and many countries abroad. As part of efforts to contain the spread of COVID-19, many state, local and foreign governments have imposed various restrictions on the conduct of business and travel. While some of these restrictions have been curtailed or lifted, others have been reinstated or may be reinstated in the future. Government restrictions, such as stay-at-home orders, quarantines and worker absenteeism as a result of COVID-19 have led to a significant number of business closures and slowdowns. These business closures and slowdowns adversely impacted, and will likely continue to adversely impact, NTIC directly and have caused its customers and suppliers to slow or stop production, which has significantly disrupted and will likely continue to significantly disrupt NTIC's sales, production and supply chain. For example, as a result of the COVID-19 outbreak in China, NTIC experienced decreased demand for its products and services in China and other places in Asia, commencing during the second quarter of fiscal 2020. These and other factors contributed to NTIC experiencing significantly decreased global demand for its products and services during fiscal 2020, which will likely continue during fiscal 2021. This significantly decreased demand has had, and will likely continue to have, a material adverse effect on NTIC's business, operating results and financial condition in fiscal 2021. Due to the international reach of COVID-19, NTIC anticipates that its international joint ventures will continue to be adversely impacted by the causes listed above, as well as other local issues that may arise, which will likely continue to have a material adverse effect on NTIC's joint venture operations and equity in income from joint ventures. It is currently not possible to predict the precise potential impact, as well as the extent of any impact, of the COVID-19 pandemic on NTIC's business, and on the global economy as a whole. It is also currently not possible to predict how long the pandemic will last or the time that it will take for economic activity to return to prior levels. A prolonged situation could have a significant adverse effect on economies and financial markets globally, potentially deepening the current worldwide economic downturn, which could have a significant adverse effect on NTIC's business, operating results and financial condition.

The extent to which the COVID-19 pandemic impacts NTIC's business will likely depend on numerous evolving factors that NTIC may not be able to accurately predict, including:

- the duration and scope of the pandemic;
- governmental, business and individuals' actions that have been and continue to be taken in response to the pandemic;
- the impact of the pandemic on economic activity and actions taken in response;
- the effect on NTIC's customers and demand for its products and services;
- NTIC's ability to continue to manufacture and sell its products and services, including as a result of travel restrictions and people working from home;
- the ability of NTIC's customers to pay for its products and services; and
- any closures of NTIC's facilities and the facilities of its customers and suppliers.

Any of these events could materially adversely affect NTIC's business, operating results and financial condition. In addition, the COVID-19 pandemic has already adversely affected and could continue to adversely affect NTIC's stock price.

***Changes to trade regulation, quotas, duties, or tariffs, caused by the changing U.S. and geopolitical environments or otherwise, may negatively impact NTIC's business, operating results, and financial condition.***

There is significant uncertainty about the future relationship between the United States and other countries with respect to trade policies, taxes, government regulations, and tariffs. The current U.S. administration has signaled support for implementing and, in some instances, has already proposed or taken action with respect to major changes to certain trade policies in an effort to encourage U.S. production. Such changes include the imposition of additional tariffs on imported products in an effort to address trade imbalances, specifically with China, the withdrawal of the U.S. from the Trans-Pacific Partnership, and the renegotiation of the North American Free Trade Agreement. In response to such actions, certain countries have imposed retaliatory actions against the U.S. NTIC and its subsidiaries and joint ventures engage in sales outside of the United States and is, therefore, negatively impacted by such actions. Any changes or potential changes in trade policies in the United States, including changes stemming from the 2020 presidential election in the United States, and the potential corresponding actions by other countries in which NTIC does business could adversely and materially affect NTIC's business, results of operations, and financial condition.

**Risks Related to NTIC's Financial Position and Need for Additional Capital**

***Changes to the London Interbank Offered Rate (LIBOR) or the replacement of LIBOR with an alternative reference rate may require NTIC to renegotiate its revolving line of credit.***

At the option of NTIC, outstanding advances under NTIC's \$3,000,000 revolving line of credit with PNC Bank, National Association (PNC Bank) bear interest at either (a) an annual rate based on LIBOR plus 2.15% for the applicable LIBOR interest period selected by NTIC or (b) at the rate publicly announced by PNC Bank from time to time as its prime rate. On July 27, 2017, the Financial Conduct Authority in the United Kingdom announced that it would phase out LIBOR as a benchmark by the end of 2021. If LIBOR ceases to exist, NTIC may need to renegotiate its credit facility, and it may not be able to do so on terms that are favorable to NTIC. Further, the overall financial market may be disrupted as a result of the phase-out or replacement of LIBOR. The U.S. Federal Reserve, in conjunction with the Alternative Reference Rates Committee, a steering committee comprised of large U.S. financial institutions, is considering replacing LIBOR with the Secured Overnight Financing Rate (SOFR), a new index calculated by short-term repurchase agreements, backed by Treasury securities. However, whether or not SOFR attains market traction as a LIBOR replacement tool remains in question, and the future of LIBOR remains uncertain at this time. The uncertainty related to the phase-out or replacement of LIBOR could disrupt the overall financial market and adversely affect NTIC's ability to renegotiate its revolving line of credit.

***Global credit and financial markets in the past have experienced disruptions, including diminished liquidity and credit availability and rapid fluctuations in market valuations, which, if they happen again, could negatively impact NTIC's business, operating results, and financial condition.***

Any tightening of the credit and financial markets could negatively impact the ability of companies to borrow money from their existing lenders, obtain credit from other sources, or raise financing to fund their operations. This could negatively impact the ability of NTIC's customers and the customers of NTIC's joint ventures to purchase NTIC's products, suppliers' ability to provide NTIC and its joint ventures with materials and components, and the ability of NTIC and its joint ventures, distributors, and sales representatives to finance operations, if needed, on commercially reasonable terms, or at all. Any or all of these events could negatively impact NTIC's business, operating results, and financial condition. Although NTIC maintains allowances for doubtful accounts for estimated losses resulting from the inability of its customers, distributors, and joint ventures to make required payments, and such losses historically have been within NTIC's expectations and the provisions established, NTIC cannot guarantee that it will continue to experience the same loss rates that it has in the past, especially if there are weaknesses in the worldwide economy. A significant change in the liquidity or financial condition of NTIC's customers, distributors, or joint ventures could cause unfavorable trends in NTIC's receivable collections and additional allowances may be required, which could adversely affect NTIC's operating results. In addition, weaknesses in the worldwide economy, including the imposition of higher tariffs and withdrawal from the Trans-Pacific Partnership, may adversely impact the ability of suppliers to provide NTIC with materials and components, which could adversely affect NTIC's business and operating results. NTIC is unable to predict the prospects for a global economic recovery, but the longer the duration of such adverse and uncertain economic conditions, the greater the risks NTIC faces in operating its business.

***NTIC's liquidity and financial position rely on the receipt of fees for services provided to its joint ventures and dividend distributions from its joint ventures. No assurance can be provided that NTIC will continue to receive such fees and dividend distributions in amounts NTIC historically has received or anticipates receiving.***

NTIC conducts business, either directly or indirectly, through several joint venture arrangements that operate in North America, Europe, and Asia. Each of these joint ventures manufactures, markets, and sells finished products in the geographic territory that it is assigned. NTIC's receipt of funds as a result of sales by its joint ventures is dependent upon NTIC's receipt of fees for services that NTIC provides to its joint ventures based primarily on the net sales of the individual joint ventures and NTIC's receipt of dividend distributions from its joint ventures based on the profitability of its joint ventures. NTIC's liquidity and financial position in part rely on NTIC's receipt of fees for services that NTIC provides to its joint ventures and dividend distributions from its joint ventures. During fiscal 2020, NTIC recognized \$4,612,885 in fees and \$5,672,099 in dividend distributions from its joint ventures. Because NTIC owns 50% or less of each of its joint venture entities, NTIC does not control the decisions of these entities regarding whether to pay dividends and, if paid, how much they should be in any given year. Thus, NTIC cannot guarantee that any of its joint ventures will pay dividends in any given year. The failure of NTIC's joint ventures to declare dividends or the failure of NTIC to receive fees for services provided to joint ventures in amounts typically expected by NTIC could adversely affect NTIC's liquidity and financial position.

***Since a significant portion of NTIC's earnings results from NTIC's equity income from joint ventures, and since NTIC's equity income from joint ventures varies from quarter to quarter, NTIC's earnings are subject to quarterly fluctuations.***

A significant portion of NTIC's earnings results from NTIC's equity income from its joint ventures. NTIC's equity in income from joint ventures consists of NTIC's share of equity in income from its joint ventures based on the overall profitability of the joint ventures. Such profitability varies from quarter to quarter. Since NTIC's management typically receives quarterly joint venture financial information after the completion of each fiscal quarter, it is impossible for NTIC's management to cut costs and expenses to make up for any unanticipated shortfall in NTIC's equity income from joint ventures. Accordingly, the variability in NTIC's equity income from joint ventures, in turn, subjects NTIC's earnings to quarterly fluctuations.

***Out of NTIC's joint ventures, NTIC's joint venture in Germany is the most significant in terms of assets and income to NTIC. If sales of NTIC's products and services by this joint venture were to decline significantly or if NTIC's relationships with this joint venture were to deteriorate significantly, NTIC's operating results likely would be adversely affected.***

NTIC considers its joint venture in Germany (EXCOR) to be individually significant to NTIC's consolidated assets and income and, therefore, provides certain additional information regarding EXCOR in the notes to NTIC's consolidated financial statements and in certain sections of this report, in addition to a few other entities for fiscal 2020. Of the total equity in income from joint ventures of \$4,270,327 during fiscal 2020, NTIC had equity in income from joint ventures of \$2,622,423 attributable to EXCOR. Of the total fee income for services provided to joint ventures of \$4,612,885 during fiscal 2020, fees of \$843,752 were attributable to EXCOR. Accordingly, if sales of NTIC's products and services by this joint venture were to decline significantly or if NTIC's relationships with this joint venture were to deteriorate significantly such that the joint venture terminated or was not motivated to sell NTIC's products and services, NTIC's operating results likely would be adversely affected. While this is also true with respect to the other joint venture entities of which additional information is provided in NTIC's consolidated financial statements and in certain other sections of this report, the significance is not as great as with EXCOR.

***NTIC's international business, which is conducted primarily through its subsidiaries and joint ventures, requires management attention and financial resources and exposes NTIC to difficulties and risks presented by international economic, political, legal, accounting, and business factors.***

NTIC sells products and services directly, through its wholly-owned and majority-owned subsidiaries, and indirectly, via a network of joint ventures, independent distributors, manufacturer's sales representatives, and agents in over 60 countries, including countries in North America, South America, Europe, Asia, and the Middle East. One of NTIC's strategic objectives is the continued expansion of its international operations. The expansion of NTIC's existing international operations and entry into additional international markets requires management attention and financial resources.

The sale and shipping of products and services across international borders subjects NTIC to extensive and complicated U.S. and foreign governmental trade regulations. Compliance with such regulations is costly and exposes NTIC to penalties for non-compliance. Other laws and regulations that can significantly impact NTIC include various anti-bribery laws, including the U.S. Foreign Corrupt Practices Act, laws restricting business with suspected terrorists, and anti-boycott laws. Any failure to comply with applicable legal and regulatory obligations could impact NTIC in a variety of ways that include, but are not limited to, significant criminal, civil, and administrative penalties, including imprisonment of individuals, fines and penalties, denial of export privileges, seizure of shipments, and restrictions on certain business activities. Also, the failure to comply with applicable legal and regulatory obligations could result in the disruption of NTIC's shipping and sales activities.

Several factors, including implications of withdrawal by the U.S. from, or revision to, international trade agreements, foreign policy changes between the U.S. and other countries, weakened international economic conditions, or the impact of sovereign debt defaults by certain European countries, could adversely affect our international net sales. Additionally, the expansion of our existing international operations and entry into additional international markets require significant management attention and financial resources. In many of the countries in which NTIC sells its products directly or indirectly through NTIC China, Zerust Brazil, Natur-Tec India, Natur-Tec Lanka, Zerust Mexico, Zerust Singapore, Zerust Vietnam and NTI Asean, its joint ventures, distributors, representatives, and agents are, to some degree, subject to political, economic, and/or social instability. NTIC's international operations expose NTIC and its joint venture partners, distributors, representatives, and agents to risks inherent in operating in foreign jurisdictions. These risks include:

- difficulties in managing and staffing international operations and the required infrastructure costs, including legal, tax, accounting, and information technology;
- the imposition of additional U.S. and foreign governmental controls or regulations, new trade restrictions, and restrictions on the activities of foreign agents, representatives, and distributors, the imposition of costly and lengthy export licensing requirements and changes in duties and tariffs, license obligations, and other non-tariff barriers to trade;
- the imposition of U.S. and/or international sanctions against a country, company, person, or entity with whom NTIC does business that would restrict or prohibit continued business with the sanctioned country, company, person, or entity;
- pricing pressure that NTIC or its joint ventures, distributors, representatives, and agents may experience internationally;

- laws and business practices favoring local companies;
- adverse currency exchange rate fluctuations;
- longer payment cycles and difficulties enforcing agreements and collecting receivables through certain foreign legal systems;
- national and international conflicts, including foreign policy changes or terrorist acts;
- difficulties in enforcing or defending intellectual property rights;
- multiple, changing, and often inconsistent enforcement of laws and regulations; and
- the potential payment of U.S. income taxes on certain earnings of joint ventures upon repatriation.

Furthermore, in June 2016, the United Kingdom held a referendum in which voters approved an exit from the European Union, commonly referred to as “Brexit.” The United Kingdom officially terminated its membership of the European Union on January 31, 2020 and will remain in a transition phase until December 31, 2020. The British government continues to negotiate the terms of the United Kingdom’s future relationship with the European Union. Although it is unknown what those terms will be, or whether an agreement will be reached, it is possible that there will be increased regulatory complexities, which could affect NTIC’s ability to sell its products in certain European Union countries. Brexit has created legal, political and economic uncertainty, which could subject NTIC to heightened risks in that region, including disruptions to trade and free movement of goods, services, and people to and from the United Kingdom, and increased foreign exchange volatility with respect to the British pound. NTIC does not know to what extent these changes will impact its business. Any of these effects of Brexit, and other similar referenda that NTIC cannot anticipate, could adversely affect its business, operations, and financial results.

***Given NTIC’s limited resources, it may not effectively manage its growth.***

NTIC’s strategy to grow its business, including in particular its ZERUST<sup>®</sup> rust and corrosion inhibiting products for the oil and gas industry and its Natur-Tec<sup>®</sup> bio-plastic resin compounds and finished products, requires significant management time and operational and financial resources. There is no assurance that NTIC has the necessary operational and financial resources to manage its growth. This is especially true as it expands facilities and manufactures its products on a larger commercial scale. In addition, rapid growth in NTIC’s headcount and operations may place a significant strain on its management, administrative, operational, and financial infrastructure. Failure to adequately manage its growth could have a material and adverse effect on NTIC’s business, operating results, and financial condition. For example, NTIC’s soil side bottom solutions for tanks require implementation teams comprised of both internal NTIC personnel and outside consulting firms. NTIC’s failure to expand these implementation teams to service additional customers may limit NTIC’s ability to grow this business. In addition, NTIC may not be successful in its strategy to grow its business.

**Risks Related to the Foreign Markets in which NTIC Operates**

***The operations of NTIC China may be adversely affected by China’s evolving economic, political, and social conditions.***

The results of operations and future prospects of NTIC China may be adversely affected by, among other things, changes in China’s political, economic, and social conditions, changes in the relationship between China and its western trade partners, changes in policies of the Chinese government, changes in laws and regulations or in the interpretation of existing laws and regulations, changes in foreign exchange regulations, measures that may be introduced to control inflation, such as interest rate increases, and changes in the rates or methods of taxation. In addition, changes in demand could result from increased competition with local Chinese manufacturers who have cost advantages or who may be preferred suppliers for Chinese end users. Also, Chinese commercial laws, regulations, and interpretations applicable to non-Chinese owned market participants, such as NTIC China, are continually changing. These laws, regulations, and interpretations could impose restrictions on NTIC’s and NTIC China’s ownership or operations or NTIC’s interests in China and could adversely affect NTIC’s business, results of operations, and financial condition.

***Intellectual property rights are difficult to enforce in China, which could harm NTIC's business, results of operations, or financial condition.***

Chinese commercial law is relatively undeveloped compared to commercial law in many of NTIC's other major markets, and limited protection of intellectual property is available in China as a practical matter. Although NTIC takes precautions in the operation of NTIC China to protect NTIC's intellectual property, any local manufacturer of products that NTIC undertakes in China could subject NTIC to an increased risk that unauthorized parties will be able to copy or otherwise obtain or use NTIC's intellectual property, which could harm NTIC's business. NTIC may also have limited legal recourse in the event it encounters patent or trademark infringers, which could adversely affect NTIC's business, results of operations, and financial condition.

***Uncertainties with respect to the Chinese legal system may adversely affect the operations of NTIC China.***

NTIC China is subject to laws and regulations applicable to foreign investment in China. There are uncertainties regarding the interpretation and enforcement of laws, rules, and policies in China. The Chinese legal system is based on written statutes, and prior court decisions have limited precedential value. Because many laws and regulations are relatively new, and the Chinese legal system is still evolving, the interpretations of many laws, regulations, and rules are not always uniform. Moreover, the relative inexperience of China's judiciary in many cases creates additional uncertainty as to the outcome of any litigation, and the interpretation of statutes and regulations may be subject to government policies reflecting domestic political agendas. Finally, enforcement of existing laws or contracts based on existing law may be uncertain and sporadic. For the preceding reasons, it may be difficult for NTIC or NTIC China to obtain timely or equitable enforcement of laws ostensibly designed to protect companies like NTIC or NTIC China, which could adversely affect NTIC's business, results of operations, and financial condition.

***Failure to comply with the U.S. Foreign Corrupt Practices Act could subject NTIC to, among other things, penalties and legal expenses that could harm its reputation and have a material adverse effect on its business, results of operations, and financial condition.***

NTIC is subject to the U.S. Foreign Corrupt Practices Act, or the FCPA, which generally prohibits covered entities and their intermediaries from engaging in bribery or making other prohibited payments to foreign officials for the purpose of obtaining or retaining business or other benefits. In addition, the FCPA imposes accounting standards and requirements on U.S. publicly-traded corporations and their foreign affiliates, which are intended to prevent the diversion of corporate funds to the payment of bribes and other improper payments and to prevent the establishment of "off books" slush funds from which such improper payments can be made. NTIC also is subject to similar anticorruption legislation implemented in Europe under the Organization for Economic Co-operation and Development's Convention on Combating Bribery of Foreign Public Officials in International Business Transactions. NTIC and its joint ventures, distributors, independent representatives, and agents operate in a number of jurisdictions that pose a high risk of potential violations of the FCPA and other anticorruption laws, based on measurements such as Transparency International's Corruption Perception Index, and NTIC utilizes a number of joint ventures, distributors, independent representatives, and agents for whose actions NTIC could be held liable under the FCPA. NTIC informs its personnel, joint ventures, distributors, independent representatives, and agents of the requirements of the FCPA and other anticorruption laws, including, but not limited to, their reporting requirements. NTIC also has developed and will continue to develop and implement systems for formalizing its contracting processes, performing due diligence on agents, and improving its recordkeeping and auditing practices regarding these regulations. However, there is no guarantee that NTIC's employees, joint ventures, distributors, independent representatives, or other agents have not or will not engage in conduct undetected by NTIC's processes and for which NTIC might be held responsible under the FCPA or other anticorruption laws.

If NTIC's employees, joint ventures, distributors, third-party sales representatives, or other agents are found to have engaged in such practices, NTIC could suffer severe penalties, including criminal and civil penalties, disgorgement, and other remedial measures, including further changes or enhancements to its procedures, policies, and controls and potential personnel changes and disciplinary actions.

Certain private and foreign companies, including some of NTIC's competitors, are not subject to prohibitions as strict as those under the FCPA or, even if subjected to strict prohibitions, such prohibitions may be laxly enforced in practice. If NTIC's competitors engage in corruption, extortion, bribery, pay-offs, theft, or other fraudulent practices, they may receive preferential treatment from personnel of some companies or from government officials, giving NTIC's competitors an advantage in securing business and putting NTIC at a disadvantage.

***Fluctuations in foreign currency exchange rates could result in declines in NTIC's earnings and changes in NTIC's foreign currency translation adjustments.***

Because the functional currency of NTIC's foreign operations is the applicable local currency, NTIC is exposed to foreign currency exchange rate risk arising from transactions in the normal course of business. NTIC's principal exchange rate exposure is with the Euro, the Japanese Yen, the Indian Rupee, the Chinese Renminbi, the South Korean Won, and the English Pound against the U.S. dollar. NTIC's fees for services provided to its joint ventures and dividend distributions from these foreign entities are paid in foreign currencies; thus, fluctuations in foreign currency exchange rates could result in declines in NTIC's earnings. Any changes in foreign currency exchange rates would be reflected as a foreign currency translation adjustment and would not change NTIC's equity in income from joint ventures reflected in its consolidated statements of operations. NTIC does not hedge against its foreign currency exchange rate risk.

***Economic uncertainty in developing markets could adversely affect NTIC's revenue and earnings.***

NTIC conducts business, or is contemplating expansion, in developing markets with economies that tend to be more volatile than those in the United States and Western Europe. The risk of doing business in developing markets such as China, Brazil, India, Russia, the United Arab Emirates, Mexico, and other economically volatile areas could adversely affect NTIC's operations and earnings. Such risks include the financial instability among customers in these regions, political instability, fraud or corruption, and other non-economic factors, such as the impact of the COVID-19 pandemic and irregular trade flows that need to be managed successfully with the help of the local governments. In addition, commercial laws in some developing countries can be vague, inconsistently administered, and retroactively applied. If NTIC is deemed not to be in compliance with applicable laws in developing countries where NTIC conducts business, its prospects and business in those countries could be harmed, which could then have a material adverse impact on NTIC's operating results and financial position. NTIC's failure to successfully manage economic, political, and other risks relating to doing business in developing countries and economically and politically volatile areas could adversely affect its business.

**Risks Related to NTIC's Products**

***NTIC faces intense competition in almost all of its product lines, including from competitors that have substantially greater resources than NTIC does. No assurance can be provided that NTIC will be able to compete effectively, which would harm its business and operating results.***

NTIC's products are sold in intensely competitive markets throughout the world. This intense competition could result in pricing pressures, lower sales, reduced margins, and lower market share. With respect to its rust and corrosion inhibiting products, NTIC competes on the basis of product innovation, quality, reliability, product support, customer service, reputation, and price. With respect to its Natur-Tec<sup>®</sup> resin compounds and finished products, NTIC competes on the basis of performance, brand awareness, distribution network, product availability, product offering, shelf life, place of manufacture, and price. NTIC often competes with numerous manufacturers, many of which have substantially greater financial, marketing, and other resources than NTIC. As a result, they may be able to adapt more quickly than NTIC to new or emerging technologies, industry trends, and changes in customer requirements or to devote greater resources to the promotion and sale of their products than NTIC. In addition, competition could increase if new companies enter the markets in which NTIC competes, especially when the barriers to entry are low, which may be true with respect to NTIC's rust and corrosion prevention business, or if existing competitors expand their product lines or intensify efforts within existing product lines. NTIC's current products, products under development, and its ability to develop new and improved products may be insufficient to enable NTIC to compete effectively with its competitors. No assurance can be provided that NTIC will be able to compete effectively, which would harm its business and operating results. In particular, NTIC has experienced more intense competition with respect to many of its traditional ZERUST<sup>®</sup> rust and corrosion inhibiting products and services, which has led to decreased pricing and smaller margins for NTIC. Recently, NTIC has experienced lower margins on its contracts with Chinese automotive customers. NTIC anticipates that such intense competition likely will continue and that new competitors may emerge, including plastic extrusion companies, which would continue to adversely affect NTIC's operating results.

***NTIC's ZERUST<sup>®</sup> rust and corrosion inhibiting products and services generate a significant portion of NTIC's net sales and the net sales of NTIC's joint ventures. Accordingly, if sales of these products and services were to decline, NTIC's operating results would be adversely affected.***

NTIC's ZERUST<sup>®</sup> rust and corrosion inhibiting products and services generate a significant portion of NTIC's net sales and the net sales of NTIC's joint ventures. During fiscal 2020, 72.4% of NTIC's consolidated net sales were derived from sales of ZERUST<sup>®</sup> rust and corrosion inhibiting products and services. While the net sales of NTIC's joint ventures are not included in NTIC's net sales on NTIC's consolidated financial statements, NTIC's receipt of fees for services that NTIC provides to its joint ventures and NTIC's receipt of dividend distributions from its joint ventures are based primarily on the revenues and profitability of the joint ventures. Accordingly, if sales of these products and services were to decline due to increased competition, the introduction of a new disruptive technology, or otherwise, NTIC's operating results would be adversely affected.

***If NTIC is unable to continue to enhance its existing products and develop and market new products that respond to customer needs and achieve market acceptance, NTIC may experience a decrease in demand for its products, and its business could suffer.***

One of NTIC's strategies is to enhance its existing products and develop and market new products that respond to customer needs. NTIC may not be able to compete effectively with its competitors unless NTIC can keep up with existing or new products or alternative technologies in the markets in which it competes. Product development requires significant research and development, financial, and other resources. Although in the past NTIC has implemented lean manufacturing and other productivity improvement initiatives to provide investment funding for new products, no assurance can be provided that NTIC will be able to continue to do so in the future. Product improvements and new product introductions also require significant planning, design, development, and testing at the technological, product, and manufacturing process levels, and NTIC may not be able to timely develop product improvements or new products. NTIC's competitors' new products may beat NTIC's products to market, may be more effective or less expensive than NTIC's products, or may render NTIC's products obsolete. Any new products that NTIC may develop may not receive market acceptance or otherwise generate any meaningful net sales or profits for NTIC relative to its expectations, based on, among other things, existing and anticipated investments in manufacturing capacity and commitments to fund advertising, marketing, promotional programs, and research and development.

***NTIC has invested and intends to continue to invest additional research and development and marketing efforts and resources into the application of its corrosion prevention solutions into the oil and gas industry and the continued launch of its Natur-Tec<sup>®</sup> resin compounds and finished products. No assurance can be provided, however, that NTIC's investments in these new markets and products will be successful and result in additional revenue to NTIC.***

In an effort to increase net sales, NTIC has expanded the marketing of its corrosion prevention solutions into the oil and gas industry and its Natur-Tec<sup>®</sup> resin compounds and finished products. NTIC expects to continue to invest additional research and development and marketing efforts and resources into these strategic initiatives. No assurance can be provided, however, that such strategic initiatives will be successful or that NTIC will be successful in obtaining additional revenue as a result of them. The introduction of new products into new markets takes significant resources, and there can be no assurance that NTIC is dedicating a sufficient amount of resources to ensure the success of these strategic initiatives. The sale of NTIC's ZERUST<sup>®</sup> rust and corrosion inhibiting products and services into the oil and gas industry, in particular, typically involves a long sales cycle, often including a one- to multi-year trial period with each customer and a slow integration process thereafter. This long sales cycle may cause NTIC's management, stockholders, and investors to lose faith in the business opportunities for NTIC's ZERUST<sup>®</sup> rust and corrosion inhibiting products and services in the oil and gas industry.

***The expansion of NTIC's corrosion prevention solutions into the oil and gas industry and the continued launch of NTIC's Natur-Tec<sup>®</sup> resin compounds and finished products may require additional capital in the future, which may not be available or may be available only on unfavorable terms. In addition, any equity financings may be dilutive to NTIC's stockholders.***

The expansion of NTIC's corrosion prevention solutions into the oil and gas industry and the continued expansion of NTIC's Natur-Tec<sup>®</sup> resin compounds and finished products will continue to require resources during fiscal 2021 and beyond. To the extent that NTIC's existing capital, including amounts available under its revolving line of credit, is insufficient to meet these requirements, NTIC may raise additional capital through financings or additional borrowings. Any equity or debt financing, if available at all, may be on terms that are not favorable to NTIC, and any equity financings could result in dilution to NTIC's stockholders.

***NTIC's strategy of expanding its corrosion prevention solutions into the oil and gas industry and continuing the expansion of its Natur-Tec<sup>®</sup> bioplastics resin compounds and finished products is risky and may not prove to be successful, which could harm NTIC's operating results and financial condition.***

NTIC's strategy of expanding its corrosion prevention solutions into the oil and gas industry and continuing the expansion of its Natur-Tec<sup>®</sup> bioplastics resin compounds and finished products, either directly or indirectly through joint ventures and independent distributors and agents, is risky and subject to all of the risks inherent in the establishment of a new business enterprise, including:

- the absence of a significant operating history;
- the lack of commercialized products;
- the lack of market acceptance of new products;
- expected substantial and continual losses for such businesses for the foreseeable future;
- the lack of manufacturing experience and limited marketing experience;
- an expected reliance on third parties for the manufacture and commercialization of some of the products;
- a competitive environment characterized by numerous, well-established and well-capitalized competitors;
- insufficient capital and other resources; and
- reliance on key personnel.

***NTIC relies on others for its production and any interruptions of these arrangements could disrupt NTIC's ability to fill its customers' orders.***

NTIC utilizes contract manufacturers for a significant portion of its production requirements. The majority of NTIC's manufacturing is conducted in the United States by contract manufacturers that also perform services for numerous other companies. NTIC does not have a guaranteed level of production capacity with any of its contract manufacturers. Qualifying new contract manufacturers is time consuming and might result in unforeseen manufacturing and operations problems. The loss of NTIC's relationships with its contract manufacturers or their inability to conduct their manufacturing and assembly services for NTIC as anticipated in terms of capacity, cost, quality, and timeliness could adversely affect NTIC's ability to fill customer orders in accordance with required delivery, quality, and performance requirements, thus adversely affecting NTIC's net sales and other operating results.

***NTIC's dependence on manufacturing and logistical services provided by contractors could give rise to product defect or warranty liability.***

NTIC uses third party manufacturers to produce the majority of its products. In addition, NTIC relies upon certain contractors for logistical services. Although NTIC's arrangements with its contract manufacturers and contractors may contain provisions for warranty expense reimbursement, NTIC may remain responsible to its customers for warranty service in the event of product defects and could experience an unanticipated product defect or warranty liability. In addition, product defects could harm NTIC's reputation amongst its customers.

***NTIC's dependence on key suppliers puts NTIC at risk of interruptions in the availability of its products, which could reduce its net sales and adversely affect its operating results and harm its reputation.***

NTIC relies on suppliers for certain raw materials and components used in its products. For reasons of quality assurance, cost effectiveness, or availability, NTIC procures certain raw materials and components from sole or limited source suppliers. Among the limited source suppliers NTIC does business with are the manufacturers of plastic resins used in Natur-Tec<sup>®</sup> products. NTIC generally acquires these and other raw materials and components through purchase orders placed in the ordinary course of business, and as a result, NTIC does not have a significant inventory of these materials and components and does not have any guaranteed or contractual supply arrangements with many of these suppliers for these materials and components. NTIC's dependence on third-party suppliers involves several risks, including limited control over pricing, availability, quality, and delivery schedules, as well as manufacturing yields and costs. Suppliers of such raw materials and components may decide, or be required, for reasons beyond NTIC's control, to cease supplying such raw materials and components to NTIC or to raise their prices.

Shortages of raw materials, quality control problems, production capacity constraints, or delays by suppliers could negatively affect NTIC's ability to meet its production obligations and result in increased prices for affected parts. For example, the rapid growth in demand for bioplastics products globally has increased the demand and the price for plastic resins, and limited suppliers of such plastic resins may experience shortages caused by demand outpacing their production capabilities, which could result in NTIC's inability to produce its Natur-Tec<sup>®</sup> products promptly or in the volumes demanded. These and other shortages, constraints, or delays may result in delays in shipments of products or components, which could adversely affect NTIC's net sales and other operating results and its reputation. From time to time, materials and components used in NTIC's products are subject to allocation because of shortages of these materials and components.

***Increases in prices for raw materials and components used in NTIC's products could adversely affect NTIC's operating results.***

NTIC uses certain raw materials and components in its products, including in particular plastic resins, which are subject to price increases. In light of increased global demand for bioplastics, the prices of certain plastic resins have increased, which could adversely affect gross margins on NTIC's Natur-Tec<sup>®</sup> products. Additionally, changes to international trade agreements could result in additional tariffs, duties, or other charges on raw materials or components we import into the U.S. Increases in prices for raw materials and components used in NTIC's products could adversely affect NTIC's gross margins and other operating results.

***The commercial success of NTIC's Natur-Tec<sup>®</sup> resin compounds and finished products depends on the widespread market acceptance of products manufactured with bio-based and biodegradable resins.***

Although there is a developed market for petroleum-based plastics, the market for "bioplastics" which are plastics produced with bio-based resins, which are derived from renewable resources such as corn or cellulosic/plant material or blends thereof, or plastics that are engineered to be fully biodegradable or both, is still developing. The commercial success of NTIC's Natur-Tec<sup>®</sup> resin compounds and finished products depends on the widespread market acceptance of products manufactured with bio-based and biodegradable resins. It is currently difficult to assess or predict with any assurance the potential size, timing, and viability of market opportunities for NTIC's Natur-Tec<sup>®</sup> resin compounds and finished products. The traditional plastics market sector is well-established with entrenched competitors with whom NTIC competes. Pricing for traditional plastics has been highly volatile in recent years, which drives, to some extent, the commercial and other support for bioplastics. While NTIC expects to be able to command a premium price for its Natur-Tec<sup>®</sup> resin compounds and finished products, a widening gap in the pricing for bioplastics versus petroleum-based plastics may reduce the size of the addressable market for NTIC's Natur-Tec<sup>®</sup> resin compounds and finished products. In addition, the growth of the market will create some pressure on price for applications today considered commodities, including in particular NTIC's current Natur-Tec<sup>®</sup> finished products.

***NTIC relies on its joint ventures, distributors, manufacturer's sales representatives, and other agents to market and sell its products.***

In addition to its direct sales force, NTIC relies on its joint ventures, distributors, manufacturer's sales representatives, and other agents to market and sell its products in the United States and internationally. NTIC's joint ventures, distributors, manufacturer's sales representatives, and other agents might terminate their relationship with NTIC or devote insufficient sales efforts to NTIC's products. NTIC does not control its joint ventures, distributors, manufacturer's sales representatives, and other agents, and they may not be successful in implementing NTIC's marketing plans. NTIC's failure to maintain its existing relationships with these entities, or its failure to recruit and retain additional skilled joint venture partners, distributors, manufacturer's sales representatives, and other agents, could have an adverse effect on NTIC's operations. It is anticipated that several of NTIC's joint venture partners will retire during the next several years, which will require a transition on the part of the joint venture as well as NTIC and could harm NTIC's relationship with the joint venture and NTIC's business.

***NTIC may be subject to product liability claims or other claims arising out of the activities of its joint ventures, which could adversely affect NTIC and its business.***

While NTIC is not aware of any specific potential risk beyond its initial investment in, and any undistributed earnings of, each of its joint ventures, there can be no assurance that NTIC will not be subject to lawsuits based on product liability claims or other claims arising out of the activities of its joint ventures. To mitigate the ramifications of such an occurrence, NTIC maintains liability insurance specifically applicable to its ownership positions in its joint venture arrangements in excess of any insurance the joint ventures may maintain. No assurance can be provided, however, that such insurance will be available or adequate in the event of a claim.

***The sale of ZERUST<sup>®</sup> rust and corrosion inhibiting products into the oil and gas industry is risky in light of the hazards typically associated with such operations and the significant amount of potential liability involved, which could adversely affect NTIC's business if ZERUST<sup>®</sup> rust and corrosion inhibiting products are involved, even if the cause of such events was not related to NTIC's products.***

Because NTIC sells its ZERUST<sup>®</sup> rust and corrosion inhibiting products into the oil and gas industry, NTIC is subject to some of the risks and hazards typically associated with such operations, including hazards such as fire, explosion, blowouts, cratering, unplanned gas releases, and spills, each of which could be claimed to be attributed to the failure of NTIC's products to perform as anticipated. If such events occur and NTIC's products are involved, NTIC's business and operating results may suffer, even if the cause of such events was not related to NTIC's products.

***The sale of ZERUST<sup>®</sup> rust and corrosion inhibiting products into the oil and gas industry is somewhat seasonal and dependent upon oil prices.***

In the past, NTIC has experienced some seasonality with respect to the sale of its ZERUST<sup>®</sup> rust and corrosion inhibiting products into the oil and gas industry, with sales during parts of the second and third fiscal quarters being adversely affected by winter in the United States. In addition, the sale of NTIC's ZERUST<sup>®</sup> rust and corrosion inhibiting products into the oil and gas industry, particularly in the United States, has been and may continue to be hampered by low global crude oil prices. Low global crude oil prices have recently been caused by oversupply, price wars between Saudi Arabia and Russia and the impact of the COVID-19 pandemic. NTIC believes low global crude oil prices constrain capital improvement budgets of its existing and prospective customers and may result in personnel turnover at its oil and gas customers or prospects.

## Risks Related to Governmental Regulation, Laws, and Compliance

***NTIC's business, properties, and products are subject to governmental regulation and taxes, compliance with which may require NTIC to incur expenses or modify its products or operations, and which may expose NTIC to penalties for non-compliance. Governmental regulation also may adversely affect the demand for some of NTIC's products and its operating results.***

NTIC's business, properties, and products are subject to a wide variety of international, federal, state, and local laws, rules, taxes, and regulations relating to the protection of the environment, natural resources, and worker health and safety and the use, management, storage, and disposal of hazardous substances, wastes, and other regulated materials. These laws, rules, and regulations may affect the way NTIC conducts its operations, and the failure to comply with these regulations could lead to fines and other penalties. Because NTIC owns and operates real property, various environmental laws also may impose liability on NTIC for the costs of cleaning up and responding to hazardous substances that may have been released on NTIC's property, including releases unknown to NTIC. These environmental laws and regulations also could require NTIC to pay for environmental remediation and response costs at third-party locations where NTIC disposed of or recycled hazardous substances. NTIC's future costs of complying with the various environmental requirements, as they now exist or may be altered in the future, could adversely affect NTIC's financial condition and operating results. NTIC is also subject to other international, federal, and state laws, rules, and regulations, the future non-compliance with which may harm NTIC's business or may adversely affect the demand for some of its products. Changes in laws and regulations, including changes in accounting standards and taxation changes, including tax rate changes, new tax laws, and revised tax law interpretations, also may adversely affect NTIC's operating results.

***Fluctuations in NTIC's effective tax rate could have a significant impact on NTIC's financial position, results of operations, or cash flows.***

The mix of pre-tax income or loss among the tax jurisdictions in which NTIC operates, which have varying tax rates, could impact NTIC's effective tax rate. NTIC is subject to income taxes as well as non-income based taxes in both the United States and various foreign jurisdictions. Judgment is required in determining the worldwide provision for income taxes, other tax liabilities, interest, and penalties. Future events could change management's assessment. NTIC operates within multiple taxing jurisdictions and is subject to tax audits in these jurisdictions. These audits can involve complex issues, which may require an extended period of time to resolve. NTIC also has made assumptions about the realization of deferred tax assets. Changes in these assumptions or jurisdictional regulations could result in a valuation allowance for these assets. Final determination of tax audits or tax disputes may be different from what is currently reflected by NTIC's income tax provisions and accruals. During fiscal year 2020, NTIC recorded income tax expense of approximately \$1,600,000 related to the determination that it was more likely than not that all or some of NTIC's deferred tax assets would not be realized.

***Certain of NTIC's operations are subject to regulation by the U.S. Food and Drug Administration.***

The manufacture, sale, and use of NTIC's Natur-Tec<sup>®</sup> bio-plastic resin compounds are subject to regulation by the U.S. FDA. The FDA's regulations are concerned with substances used indirectly in food packaging materials, not with specific finished food packaging products. Thus, food and beverage containers are in compliance with FDA regulations if the components used in the food and beverage containers: (i) are approved by the FDA as indirect food additives for their intended uses and comply with the applicable FDA indirect food additive regulations; or (ii) are generally recognized as safe for their intended uses and are of suitable purity for those intended uses. NTIC believes that its Natur-Tec<sup>®</sup> resin compounds comply with all FDA requirements. However, failure to comply with FDA regulations could subject NTIC to administrative, civil, or criminal penalties.

***NTIC's reliance upon patents, trademark laws, trade secrets, and contractual provisions to protect its proprietary rights may not be sufficient to protect its intellectual property from others who may sell similar products.***

NTIC holds patents relating to various aspects of its products and believes that proprietary technical know-how is critical to many of its products. Proprietary rights relating to NTIC's products are protected from unauthorized use by third parties only to the extent that they are covered by valid and enforceable patents or are maintained in confidence as trade secrets. NTIC cannot be certain that it will be issued any patents from any pending or future patent applications owned by or licensed to NTIC or that the claims allowed under any issued patents will be sufficiently broad to protect its technology. In the absence of patent protection, NTIC may be vulnerable to competitors who attempt to copy NTIC's products or gain access to its trade secrets and know-how. NTIC's competitors may initiate litigation to challenge the validity of NTIC's patents, or they may use their resources to design comparable products that do not infringe NTIC's patents. NTIC may incur substantial costs if its competitors initiate litigation to challenge the validity of its patents or if it initiates any proceedings to protect its proprietary rights, and if the outcome of any such litigation is unfavorable to NTIC, its business and operating results could be materially adversely affected.

In addition, NTIC relies substantially on trade secrets and proprietary know-how that it seeks to protect, in part, by confidentiality agreements with its employees and consultants. These agreements may be breached, and NTIC may not have adequate remedies for any such breach. Even if these confidentiality agreements are not breached, NTIC's trade secrets may otherwise become known or be independently developed by competitors.

***NTIC's compliance with accounting principles generally accepted in the United States of America and any changes in such principles might adversely affect NTIC's operating results and financial condition. Any requirement to consolidate NTIC's joint ventures could adversely affect NTIC's operating results and financial condition.***

If there were a change in accounting rules and NTIC were required to fully consolidate its joint ventures or if NTIC's joint ventures otherwise would be required to be consolidated with NTIC, NTIC and the individual joint venture would incur significant additional costs. In addition, other accounting pronouncements issued in the future could have a material cost associated with NTIC's implementation of such new accounting pronouncements.

#### **Risks Related to NTIC's Common Stock**

***The trading volume of NTIC's common stock is typically very low, leaving NTIC's common stock open to risk of high volatility.***

The number of shares of NTIC's common stock being traded daily is often very low, and on some trading days, there is no trading volume at all. During fiscal 2020, the daily trading volume ranged from 100 shares to 203,000 shares. Any NTIC stockholder wishing to sell his, her, or its stock may cause a significant fluctuation in the trading price of NTIC's common stock. In addition, low trading volume of a stock increases the possibility that, despite rules against such activity, the price of the stock may be manipulated by persons acting in their own self-interest. NTIC may not have adequate market makers and market making activity to prevent manipulation in its common stock.

***The price and trading volume of NTIC's common stock has been, and may continue to be, volatile.***

The market price and trading volume of NTIC's common stock price historically has fluctuated over a wide range. During fiscal 2020, the sale price of NTIC's common stock ranged from a low of \$4.70 per share to a high of \$14.88 per share, and the daily trading volume ranged from 100 shares to 203,000 shares. It is likely that the price and trading volume of NTIC's common stock will continue to fluctuate in the future. The securities of small capitalization companies, including NTIC, from time to time experience significant price and volume fluctuations, often unrelated to the operating performance of these companies. Securities class action litigation is sometimes brought against a company following periods of volatility in the market price of its securities or for other reasons. NTIC may become the target of similar litigation, especially if NTIC fails to meet its annual projected financial guidance or lowers its annual projected financial guidance. Securities litigation, whether with or without merit, could result in substantial costs and divert management's attention and resources, which could harm NTIC's business, operating results, and financial condition as well as the market price of its common stock.

***A large percentage of NTIC's outstanding common stock is held by insiders, and, as a result, the trading market for NTIC's common stock is not as liquid as the stock of other public companies.***

As of November 9, 2020, NTIC had 9,104,636 shares of common stock outstanding, 21.4% of which were beneficially owned by directors, executive officers, principal stockholders, and their respective affiliates. The stock of companies with a substantial amount of stock held by insiders is usually not as liquid as the stock of other public companies where insider ownership is not as concentrated. Thus, the trading market for shares of NTIC's common stock may not be as liquid as the stock of other public companies.

***If securities or industry analysts do not publish research or reports about NTIC's business, or if they adversely change their recommendations regarding NTIC's common stock, the market price for NTIC's common stock and trading volume could decline.***

The trading market for NTIC's common stock has been influenced by research or reports that industry or securities analysts publish about NTIC or its business. If one or more analysts who cover NTIC downgrade NTIC's common stock, the market price for NTIC's common stock would likely decline. If one or more cease coverage of NTIC or fail to regularly publish reports on NTIC, NTIC could lose visibility in the financial markets, which, in turn, could cause the market price or trading volume for NTIC's common stock to decline.

***One of NTIC's principal stockholders beneficially owns a significant percentage of NTIC's outstanding common stock and is affiliated with NTIC's President and Chief Executive Officer and, thus, may be able to influence matters requiring stockholder approval, including the election of directors, and could discourage or otherwise impede a transaction in which a third party wishes to purchase NTIC's outstanding shares at a premium.***

As of November 9, 2020, Inter Alia Holding Company, or Inter Alia, beneficially owned approximately 13.2% of NTIC's outstanding common stock. Inter Alia is an entity partially owned by G. Patrick Lynch, NTIC's President and Chief Executive Officer and director, as well as two other members of the Lynch family. Mr. Lynch shares voting and dispositive power of shares of NTIC's common stock held by Inter Alia with the other owners. As a result of his share ownership through Inter Alia and his position as President and Chief Executive Officer and director of NTIC, Mr. Lynch may be able to influence the affairs and actions of NTIC, including matters requiring stockholder approval, such as the election of directors and approval of significant corporate transactions. The interests of Mr. Lynch and Inter Alia may differ from the interests of NTIC's other stockholders. This concentration of ownership may have the effect of delaying, preventing, or deterring a change in control of NTIC, could deprive NTIC's stockholders of an opportunity to receive a premium for their common stock as part of a sale or merger of NTIC, and may negatively affect the market price of NTIC's common stock. Transactions that could be affected by this concentration of ownership include proxy contests, tender offers, mergers, or other purchases of common stock that could give stockholders the opportunity to realize a premium over the then-prevailing market price for shares of NTIC's common stock.

## **General Risk Factors**

***Severe weather could have a material adverse effect on our business.***

NTIC's business could be materially and adversely affected by severe weather. NTIC's customers, including in particular NTIC's oil and gas customers, may have operations located in parts of the southern United States or other places and may be adversely affected by hurricanes and tropical storms, resulting in reduced demand for NTIC's products and services or increased operating costs. Furthermore, NTIC's customers and raw material suppliers' operations may be adversely affected by such hurricanes and other extreme or seasonal weather conditions. Adverse weather can also directly impede NTIC's operations. Repercussions of severe weather conditions may include:

- curtailment of services or reduced demand for products;
- weather-related damage to facilities and equipment, resulting in suspension of operations;
- inability to deliver equipment, personnel and products to job sites in accordance with contract schedules or increased transportation or other operating costs; and
- loss of productivity.

These constraints could delay NTIC's operations and materially increase NTIC's operating and capital costs.

***NTIC has limited staffing and will continue to be dependent upon key employees.***

NTIC's success is dependent upon the efforts of a small management team and group of employees. NTIC's future success will depend in large part on its ability to retain its key employees and identify, attract, and retain other highly qualified managerial, technical, research and development, sales and marketing, and customer service personnel when needed. Competition for these individuals may be intense, especially in the markets in which NTIC operates. NTIC may not succeed in identifying, attracting, and retaining these personnel. Inadequate performance by any of NTIC's limited staff could have a negative impact on the performance of the company. In addition, none of NTIC's employees have any contractual obligation to maintain his or her employment with NTIC. The loss or interruption of services of any of NTIC's key personnel, including in particular its technical personnel, the inability to identify, attract, or retain qualified personnel in the future, delays in hiring qualified personnel, or any employee slowdowns, strikes, or similar actions could make it difficult for NTIC to manage its business and meet key objectives, which could harm NTIC's business, operating results, and financial condition.

***NTIC may grow its business through additional joint ventures, subsidiaries, alliances, and acquisitions, which could be risky and harm its business.***

One of NTIC's growth strategies may be to expand its business by entering into additional joint ventures and alliances and acquiring businesses, technologies, and products that complement or augment NTIC's existing products. The benefits of a joint venture, alliance, or acquisition may take more time than expected to develop, and NTIC cannot guarantee that any future joint ventures, alliances, or acquisitions will in fact produce the intended benefits. In addition, joint ventures, alliances, and acquisitions involve a number of risks, including:

- diversion of management's attention;
- difficulties in assimilating the operations and products of a new joint venture or acquired business or in realizing projected efficiencies, cost savings, and revenue synergies;
- potential loss of key employees or customers of the new joint venture or acquired business or adverse effects on existing business relationships with suppliers and customers;
- adverse impact on overall profitability if the new joint venture or acquired business does not achieve the financial results projected in NTIC's valuation models;
- reallocation of amounts of capital from other operating initiatives and/or an increase in NTIC's leverage and debt service requirements to pay the joint venture capital contribution or the acquisition purchase price, which could in turn restrict NTIC's ability to access additional capital when needed or to pursue other important elements of NTIC's business strategy;
- inaccurate assessment of undisclosed, contingent, or other liabilities or problems and unanticipated costs associated with the new joint venture or acquisition; and
- incorrect estimates made in the accounting for acquisitions, occurrence of non-recurring charges, and write-off of significant amounts of goodwill that could adversely affect NTIC's operating results.

NTIC's ability to grow through joint ventures, alliances, and acquisitions will depend, in part, on the availability of suitable opportunities at an acceptable cost, NTIC's ability to compete effectively for these opportunities, and the availability of capital to complete such transactions.

***NTIC relies on its management information systems for inventory management, distribution, and other functions. If these information systems fail to adequately perform these functions or if NTIC experiences an interruption in their operation, NTIC's business and operating results could be adversely affected.***

The efficient operation of NTIC's business is dependent on its management information systems. NTIC relies on its management information systems to effectively manage accounting and financial functions; manage order entry, order fulfillment, and inventory replenishment processes; and to maintain its research and development data. The failure of management information systems to perform as anticipated could disrupt NTIC's business and product development and could result in decreased sales, causing NTIC's business and operating results to suffer. In addition, NTIC's management information systems are vulnerable to damage or interruption from natural or man-made disasters, including terrorist attacks, attacks by computer viruses or hackers, power loss to computer systems, Internet outages, and telecommunications or data network failure. Any such interruption could adversely affect NTIC's business and operating results.

***NTIC's business could be negatively impacted by cyber security threats.***

In the ordinary course of NTIC's business, NTIC uses its management information systems to store and access proprietary business information. NTIC faces various cyber security threats, including cyber security attacks to its information technology infrastructure and attempts by others to gain access to its proprietary or sensitive information. The procedures and controls NTIC uses to monitor these threats and mitigate its exposure may not be sufficient to prevent cyber security incidents. The result of these incidents could include disrupted operations, lost opportunities, misstated financial data, liability for stolen assets or information, increased costs arising from the implementation of additional security protective measures, litigation, and reputational damage. Any remedial costs or other liabilities related to cyber security incidents may not be fully insured or indemnified by other means.

***NTIC's quarterly results are typically unpredictable and subject to variation.***

NTIC's quarterly operating results vary from quarter to quarter for a variety of reasons. For example, NTIC's quarterly sales to joint ventures can be affected by individual orders to joint ventures. Because of the typical size of individual orders to joint ventures and the overall size of NTIC's net sales to joint ventures, the timing of one or more orders can materially affect NTIC's quarterly sales to joint ventures and the comparisons to prior year quarters. In addition, because of the typical size of individual orders and the overall size of NTIC's net sales derived from sales of Natur-Tec<sup>®</sup> products, the timing of one or more orders can materially affect NTIC's quarterly sales of Natur-Tec<sup>®</sup> products and the comparisons to prior year quarters. Furthermore, since ZERUST<sup>®</sup> products for the oil and gas industry typically carry higher margins than other traditional ZERUST<sup>®</sup> products, the amount of sales of ZERUST<sup>®</sup> products for the oil and gas industry typically affects NTIC's overall margins. Such variability in operating results makes the prediction of NTIC's net sales, earnings, and other operating results for each quarter difficult and increases the risk of unanticipated variations in quarterly operating results. NTIC's quarterly results have been and, in the future, may be below the expectations of public market analysts and investors.

**NTIC's business is subject to a number of other miscellaneous risks that may adversely affect NTIC's operating results, financial condition, or business.**

NTIC's business is subject to a number of other miscellaneous risks that may adversely affect NTIC's operating results, and financial condition, such as natural or man-made disasters, an unexpected business loss of supply due to a force majeure event or global pandemics that may result in shortages of raw materials, higher commodity costs, an increase in insurance premiums, and other adverse effects on NTIC's business; the continued threat of terrorist acts and war that may result in heightened security and higher costs for import and export shipments of components or finished goods; and the ability of NTIC's management to adapt to unplanned events.

**Item 1B. UNRESOLVED STAFF COMMENTS**

None.

**Item 2. PROPERTIES**

NTIC's principal executive offices, production facilities, and domestic research and development operations are located at 4201 Woodland Road, Circle Pines, Minnesota 55014. NTIC owns this real estate and building. NTIC also owns real estate and a building in Beachwood, Ohio, which it uses for office, manufacturing, laboratory, and warehouse space. Additionally, NTIC has contract warehousing agreements in California and Indiana to hold and release stock products to customers. NTIC's subsidiaries in Brazil, India, Mexico, and China all lease office, warehouse, and laboratory space. NTIC's management considers its current properties suitable and adequate for its current and foreseeable needs.

**Item 3. LEGAL PROCEEDINGS**

For information regarding NTIC's legal proceedings, see Note 15 to NTIC's Consolidated Financial Statements.

**Item 4. MINE SAFETY DISCLOSURES**

Not applicable.

**Item 4A. INFORMATION ABOUT OUR EXECUTIVE OFFICERS**

The two individuals named below have been designated by NTIC's Board of Directors as "executive officers" of NTIC. Their ages and the offices held, as of November 9, 2020, are as follows:

<b>Name</b>	<b>Age</b>	<b>Position with NTIC</b>
G. Patrick Lynch	53	President and Chief Executive Officer
Matthew C. Wolsfeld	46	Chief Financial Officer and Corporate Secretary

G. Patrick Lynch, an employee of NTIC since 1995, has been President since July 2005 and Chief Executive Officer since January 2006 and was appointed a director of NTIC in February 2004. From July 2005 to January 2006, Mr. Lynch served as Chief Operating Officer of NTIC. Mr. Lynch served as President of North American Operations of NTIC from May 2004 to July 2005. Prior to May 2004, Mr. Lynch held various positions with NTIC, including Vice President of Strategic Planning, Corporate Secretary and Project Manager. Mr. Lynch is also an officer and director of Inter Alia Holding Company, a holding company that is a significant stockholder of NTIC. Prior to joining NTIC, Mr. Lynch held positions in sales management for Fuji Electric Co., Ltd. in Tokyo, Japan and programming project management for BMW AG in Munich, Germany. Mr. Lynch received an M.B.A. degree from the University of Michigan Ross School of Business in Ann Arbor, Michigan.

Matthew C. Wolsfeld, an employee of NTIC since February 2001, has been NTIC’s Chief Financial Officer since November 2001 and Corporate Secretary since November 2004. Mr. Wolsfeld was Controller of NTIC from May 2001 through November 2001. Prior to joining NTIC, Mr. Wolsfeld held an auditing position with PricewaterhouseCoopers LLP in Minneapolis, Minnesota from 1997 to 2001. Mr. Wolsfeld received a B.A. degree in Accounting from the University of Notre Dame and received his M.B.A. degree at the University of Minnesota, Carlson School of Business. Mr. Wolsfeld is a Certified Public Accountant.

Other corporate officers of NTIC, their ages, and offices held, as of November 9, 2020, are as follows:

<b>Name</b>	<b>Age</b>	<b>Position with NTIC</b>
Vineet R. Dalal	51	Vice President and Director – Global Market Development – Natur-Tec®
Gautam Ramdas	47	Vice President and Director – Global Market Development – Oil & Gas

Vineet R. Dalal, an employee of NTIC since 2004, has served as Vice President and Director – Global Market Development – Natur-Tec® since November 2005. Prior to joining NTIC, Mr. Dalal was a Principal in the Worldwide Product Development Practice of PRTM, a management consultancy to technology-based companies (now part of PricewaterhouseCoopers Management Consulting). In this position, Mr. Dalal consulted to several Fortune 500 companies, in the areas of product strategy, Product Lifecycle Management (PLM) and technology management. Prior to that, Mr. Dalal held positions in program management and design engineering at National Semiconductor Corporation in Santa Clara, California. Mr. Dalal received an M.B.A. degree from the University of Michigan Ross School of Business in Ann Arbor, Michigan. He also holds an M.S. degree in Electrical and Computer Engineering from Oregon State University, and a B.Eng. degree in Electronics Engineering from Karnatak University, India.

Gautam Ramdas, an employee of NTIC since 2005, has served as Vice President and Director – Global Market Development – Oil & Gas since 2005. Prior to joining NTIC, Mr. Ramdas was a Manager in the Strategic Change group of IBM Business Consulting Services. In this position, Mr. Ramdas led consulting engagements at several Fortune 500 companies, in the areas of service strategy, global supplier relationship management and supply chain streamlining. Mr. Ramdas held positions in the E-Commerce and Supply Chain strategy groups at PricewaterhouseCoopers Management Consulting, again providing consulting services for Fortune 500 clients. Prior to management consulting, Mr. Ramdas worked as a program manager and design engineer with Kinhill Engineers in Australia. He has also been involved in the start-up stage of successful small businesses in the United States and in India. Mr. Ramdas received an M.B.A. from the University of Michigan Ross School of Business in Ann Arbor, Michigan. He also holds a bachelor’s degree in Mechanical Engineering from the College of Engineering, Guindy (Chennai), India.

## PART II

### Item 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

#### Market Information

NTIC's common stock is listed for trading on the Nasdaq Global Market under the symbol "NTIC."

#### Dividends

During fiscal 2020, NTIC's Board of Directors declared cash dividends on the following dates in the following amounts to holders of record of NTIC's common stock as of the following record dates:

Declaration Date	Amount	Record Date	Payable Date
October 22, 2019	\$0.065	November 6, 2019	November 20, 2019
January 22, 2020	\$0.065	February 5, 2020	February 19, 2020

On April 23, 2020, NTIC announced the temporary suspension of its quarterly cash dividend pending clarity on the COVID-19 pandemic. Therefore, NTIC's Board of Directors did not declare a cash dividend during the quarters ended May 31, 2020 or August 31, 2020.

The declaration of future dividends is not guaranteed and will be determined by NTIC's Board of Directors in light of conditions then existing, including NTIC's earnings, financial condition, cash requirements, restrictions in financing agreements, business conditions, and other factors, including without limitation the effect of COVID-19 on its business, operating results, and financial condition.

#### Number of Record Holders

As of August 31, 2020, there were 164 record holders of NTIC's common stock. This does not include shares held in "street name" or beneficially owned.

#### Recent Sales of Unregistered Equity Securities

NTIC did not sell any shares of its common stock or any other equity securities of NTIC that were not registered under the Securities Act of 1933, as amended, during the fourth quarter of fiscal 2020.

#### Issuer Purchases of Equity Securities

NTIC did not purchase any shares of its common stock or other equity securities of NTIC during the fourth quarter of fiscal 2020. As of August 31, 2020, up to \$2,640,548 in shares of NTIC common stock remained available for repurchase under NTIC's stock repurchase program.

**Item 6. SELECTED FINANCIAL DATA**

The following tables set forth certain of NTIC's selected consolidated financial data as of the dates and for the fiscal years indicated. The selected consolidated financial data was derived from NTIC's consolidated financial statements. The audited consolidated financial statements as of August 31, 2020 and 2019 and for the fiscal years ended August 31, 2020 and 2019 are included elsewhere in this report. The audited consolidated financial statements as of August 31, 2018, 2017, and 2016 and for the fiscal years ended August 31, 2018, 2017, and 2016 are not included in this report. Information regarding accounting changes and material uncertainties are included in "Part II. Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations." Historical results are not necessarily indicative of the results to be expected for any future period. All share and per share data have been adjusted for all periods presented to reflect the two-for-one stock split effective June 28, 2019.

	<b>Fiscal Year Ended August 31,</b>				
	<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>
<b>Statements of Operations Data:</b>					
Net sales, excluding joint ventures	\$ 45,666,045	\$ 53,142,583	\$ 48,516,749	\$ 36,346,645	\$ 30,211,660
Net sales, to joint ventures	1,972,646	2,607,554	2,908,072	3,222,478	2,721,905
Total net sales	47,638,691	55,750,137	51,424,821	39,569,123	32,933,565
Cost of goods sold	31,609,274	37,970,244	34,165,440	26,316,511	22,320,156
Gross profit	16,029,417	17,779,893	17,259,381	13,252,612	10,613,409
Equity in income from joint ventures	4,270,327	7,225,518	7,527,383	5,898,908	4,743,831
Fees for services provided to joint ventures	4,612,885	5,727,579	6,142,139	5,452,687	5,137,710
Total joint venture operations	8,883,212	12,953,097	13,669,522	11,351,595	9,881,541
Selling expenses	10,656,689	10,968,592	10,886,011	9,283,310	6,255,353
General and administrative expenses	8,688,309	9,349,559	8,500,490	7,807,563	8,232,369
Research and development expenses	3,979,455	3,822,070	3,524,953	2,912,393	4,724,596
Total operating expenses	23,324,453	24,140,221	22,911,454	20,003,266	19,212,318
Operating income	1,588,176	6,592,769	8,017,449	4,600,941	1,282,632
Interest income	167,733	78,257	99,463	43,539	42,115
Interest expense	(16,034)	(13,567)	(17,962)	(20,382)	(13,261)
Impairment on investment at carrying value	—	—	—	—	(1,883,668)
Other income	—	—	—	—	—
Income (loss) before income taxes	1,739,875	6,657,459	8,098,950	4,624,098	(572,182)
Less: Income tax expense	2,674,635	841,837	876,103	699,519	626,120
Net (loss) income	(934,760)	5,815,622	7,222,847	3,924,579	(1,198,302)
Less: Net income (loss) attributable to non-controlling interests	402,949	606,000	521,481	502,453	(330,788)
Net (loss) income attributable to NTIC	<u>\$ (1,337,709)</u>	<u>\$ 5,209,622</u>	<u>\$ 6,701,366</u>	<u>\$ 3,422,126</u>	<u>\$ (867,514)</u>
Net (loss) income attributable to NTIC per common share:					
Basic	<u>\$ (0.15)</u>	<u>\$ 0.57</u>	<u>\$ 0.74</u>	<u>\$ 0.38</u>	<u>\$ (0.10)</u>
Diluted	<u>\$ (0.15)</u>	<u>\$ 0.55</u>	<u>\$ 0.72</u>	<u>\$ 0.38</u>	<u>\$ (0.10)</u>
Weighted-average common shares assumed outstanding:					
Basic	9,096,981	9,085,584	9,077,676	9,057,222	9,075,008
Diluted	9,096,981	9,415,974	9,370,404	9,154,718	9,075,008
<b>Balance Sheet Data:</b>					
Cash and cash equivalents	\$ 6,403,032	\$ 5,856,758	\$ 4,163,023	\$ 6,360,201	\$ 3,395,274
Available for sale securities	5,544,722	3,565,258	3,300,110	3,766,984	2,243,864
Total current assets	33,202,350	33,302,362	30,567,773	26,067,618	20,942,171
Total assets	66,074,488	67,511,087	63,549,236	56,612,693	51,070,050
Total current liabilities	6,097,604	7,841,532	7,730,182	4,894,617	3,994,102
Total long-term liabilities	272,443	—	—	—	—
Non-controlling interests	3,045,026	3,074,679	2,742,309	2,857,448	2,540,973
Total stockholders' equity	56,659,415	56,594,615	53,076,745	48,860,628	44,543,975
Total equity	59,704,441	59,669,294	55,819,054	51,718,076	47,075,948

	<b>Fiscal Year Ended August 31,</b>				
	<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>
<b>Other Financial Data:</b>					
Net cash provided by (used in) operating activities	\$ 4,912,070	\$ 5,477,022	\$ 608,687	\$ 5,735,691	\$ 2,055,607
Net cash provided by (used in) investing activities	(2,784,682)	(1,339,921)	(300,109)	(2,607,915)	(955,240)
Net cash provided by (used in) financing activities	(1,518,005)	(2,393,664)	(2,372,124)	(226,690)	(270,247)
Effect of exchange rate changes on cash and cash equivalents	(63,109)	(49,702)	(133,632)	63,839	(18,826)

**Item 7. MANAGEMENT’S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS**

This Management’s Discussion and Analysis provides material historical and prospective disclosures intended to enable investors and other users to assess NTIC’s financial condition and results of operations. Statements that are not historical are forward-looking and involve risks and uncertainties discussed under the heading “*Part I. Item 1. Business—Forward-Looking Statements*” and under the heading “*Part I. Item 1A. Risk Factors*.” The following discussion of the results of the operations and financial condition of NTIC should be read in conjunction with NTIC’s consolidated financial statements and the related notes thereto included under “*Part II. Item 8. Financial Statements and Supplementary Data*.”

This Management’s Discussion and Analysis is organized in the following major sections:

- **Business Overview.** This section provides a brief overview description of NTIC’s business, focusing in particular on developments during the most recent fiscal year.
- **Impact of the COVID-19 Pandemic.** This section provides a brief summary of the impacts to date and potential future impacts of the COVID-19 pandemic.
- **NTIC’s Subsidiaries and Joint Venture Network.** This section provides a brief overview of NTIC’s subsidiaries and its joint venture network, the joint ventures which are considered individually significant to NTIC’s consolidated assets and income, and how NTIC’s joint ventures are accounted for by NTIC.
- **Financial Overview.** This section provides a brief summary of NTIC’s financial results and financial condition for fiscal 2020 compared to 2019.
- **Sales and Expense Components.** This section provides a brief description of the significant line items in NTIC’s consolidated statements of operations.
- **Results of Operations.** This section provides an analysis of the significant line items in NTIC’s consolidated statements of operations.
- **Liquidity and Capital Resources.** This section provides an analysis of NTIC’s liquidity and cash flows and a discussion of NTIC’s financial condition and financial commitments.
- **Inflation and Seasonality.** This section describes the effects of inflation and seasonality, if any, on NTIC’s business and operating results.
- **Market Risk.** This section describes material market risks to which NTIC is subject.
- **Related Party Transactions.** This section describes any material related party transactions to which NTIC is a party.
- **Off-Balance Sheet Arrangements.** This section describes NTIC’s material off-balance sheet arrangements.

- **Critical Accounting Policies and Estimates.** This section discusses NTIC’s critical accounting policies and estimates, which require NTIC to exercise subjective or complex judgments in their application. NTIC’s significant accounting policies, including its critical accounting estimates, are summarized in Note 1 to NTIC’s consolidated financial statements.
- **Recent Accounting Pronouncements.** This section references Note 2 to NTIC’s consolidated financial statements, which summarizes the effect of recently issued accounting pronouncements on NTIC’s results of operations and financial condition.

## Business Overview

NTIC develops and markets proprietary, environmentally beneficial products and services in over 60 countries either directly or via a network of subsidiaries, joint ventures, independent distributors, and agents. NTIC’s primary business is corrosion prevention, marketed mainly under the ZERUST® brand. NTIC has been selling its proprietary ZERUST® products and services to the automotive, electronics, electrical, mechanical, military, and retail consumer markets for over 40 years and, in recent years, has targeted and expanded into the oil and gas industry. NTIC also markets and sells a portfolio of bio-based and certified compostable (fully biodegradable) polymer resin compounds and finished products under the Natur-Tec® brand. These products are intended to reduce NTIC’s customers’ carbon footprint and provide environmentally sound waste disposal options.

NTIC’s ZERUST® rust and corrosion inhibiting products include plastic and paper packaging, liquids, coatings, rust removers, cleaners, and diffusers as well as engineered solutions designed specifically for the oil and gas industry. NTIC also offers worldwide, on-site, technical consulting for rust and corrosion prevention issues. NTIC’s technical service consultants work directly with the end users of NTIC’s ZERUST® rust and corrosion inhibiting products to analyze their specific needs to meet their performance requirements. In North America, NTIC sells its ZERUST® corrosion prevention solutions through a network of independent distributors and agents supported by a direct sales force.

Internationally, NTIC sells its ZERUST® corrosion prevention solutions through its wholly-owned subsidiary in China, NTIC (Shanghai) Co., Ltd. (NTIC China), its majority-owned joint venture holding company for NTIC’s joint venture investments in the Association of Southeast Asian Nations (ASEAN) region, NTI Asean LLC (NTI Asean), certain majority-owned and wholly-owned subsidiaries, and joint venture arrangements in North America, Europe, and Asia. NTIC also sells products directly to its joint venture partners through its wholly-owned subsidiary in Germany, NTIC Europe GmbH (NTI Europe).

One of NTIC’s strategic initiatives is to expand into and penetrate other markets for its ZERUST® corrosion prevention technologies. Consequently, for the past several years, NTIC has focused significant sales and marketing efforts on the oil and gas industry, as the infrastructure that supports that industry is typically constructed using metals that are highly susceptible to corrosion. NTIC believes that its ZERUST® corrosion prevention solutions will minimize maintenance downtime on critical oil and gas industry infrastructure, extend the life of such infrastructure, and reduce the risk of environmental pollution due to corrosion leaks.

NTIC markets and sells its ZERUST® rust and corrosion prevention solutions to customers in the oil and gas industry across several countries either directly, through its subsidiaries, or through its joint venture partners and other strategic partners. The sale of ZERUST® corrosion prevention solutions to customers in the oil and gas industry typically involves long sales cycles, often including multi-year trial periods with each customer and a slow integration process thereafter.

Natur-Tec® bio-based and compostable plastics are manufactured using NTIC’s patented and/or proprietary technologies and are intended to replace conventional petroleum-based plastics. The Natur-Tec® biopolymer resin compound portfolio includes formulations that have been optimized for a variety of applications, including blown-film extrusion, extrusion coating, injection molding, and engineered plastics. These resin compounds are certified to be fully biodegradable in a composting environment and are currently being used to produce finished products, including can liners, shopping and grocery bags, lawn and leaf bags, branded apparel packaging bags and accessories, and various foodservice items, such as disposable cutlery, drinking straws, food-handling gloves, and coated paper products. In North America, NTIC markets its Natur-Tec® resin compounds and finished products primarily through a network of regional and national distributors as well as independent agents. NTIC continues to see significant opportunities for finished bioplastic products and, therefore, continues to strengthen and expand its North American distribution network for finished Natur-Tec® bioplastic products.

Internationally, NTIC sells its Natur-Tec<sup>®</sup> resin compounds and finished products both directly and through its wholly-owned subsidiary in China and majority-owned subsidiaries in India and Sri Lanka, and through distributors and certain joint ventures.

#### NTIC's Subsidiaries and Joint Venture Network

NTIC has ownership interests in nine operating subsidiaries in North America, South America, Europe, and Asia. The following table sets forth a list of NTIC's operating subsidiaries as of November 9, 2020, the country in which the subsidiary is organized, and NTIC's ownership percentage in each subsidiary:

Subsidiary Name	Country	NTIC Percent (%) Ownership
NTIC (Shanghai) Co., Ltd	China	100%
NTI Asean LLC	United States	60%
Zerust Prevenção de Corrosão S.A.	Brazil	85%
ZERUST-EXCOR MEXICO, S. de R.L. de C.V	Mexico	100%
Natur-Tec India Private Limited	India	75%
Natur Tec Lanka (Pvt) Ltd	Sri Lanka <sup>(1)</sup>	75%
NTIC Europe GmbH	Germany	100%
Zerust Singapore Pte Ltd	Singapore <sup>(2)</sup>	60%
Zerust Vietnam Co. Ltd	Vietnam <sup>(2)</sup>	60%

(1) Natur Tec Lanka (Pvt) Ltd is 100% owned by Natur-Tec India Private Limited and, therefore, indirectly owned by NTIC.

(2) Zerust Singapore Pte Ltd and Zerust Vietnam Co. Ltd are 100% owned by NTI Asean LLC and, therefore, indirectly owned by NTIC.

The results of these subsidiaries are fully consolidated in NTIC's consolidated financial statements.

NTIC participates in 19 active joint venture arrangements in North America, Europe, and Asia. Each of these joint ventures generally manufactures and markets products in the geographic territory to which it is assigned. While most of NTIC's joint ventures exclusively sell rust and corrosion inhibiting products, some of the joint ventures also sell NTIC's Natur-Tec<sup>®</sup> resin compounds. NTIC has historically funded its investments in joint ventures with cash generated from operations.

NTIC's receives funds from its joint ventures as fees for services that NTIC provides to its joint ventures and as dividend distributions. The fees for services provided to joint ventures are determined based on either a flat fee or a percentage of sales depending on local laws and tax regulations. With respect to NTIC's joint venture in Germany (EXCOR), NTIC recognizes an agreed upon quarterly fee for services. NTIC recognizes equity income from each joint venture based on the overall profitability of the joint venture. Such profitability is subject to variability from quarter to quarter, which, in turn, subjects NTIC's earnings to variability from quarter to quarter. The profits of each joint venture are shared by the respective joint venture owners in accordance with their respective ownership percentages. NTIC typically directly or indirectly owns 50% or less of each of its joint venture entities and, thus, does not control the decisions of these entities regarding whether to pay dividends and, if paid, what amount is paid in a given year. The payment of a dividend by an entity is determined by a joint vote of the owners and is not at the sole discretion of NTIC.

NTIC accounts for the investments and financial results of its joint ventures in its financial statements utilizing the equity method of accounting.

NTIC considers EXCOR, ZERUST OY, ACOBAL SAS, HARITA-NTI LTD and ZERUST SPECIALTY TECH CO. LTD. to be individually significant to NTIC's consolidated assets and income. Therefore, NTIC provides certain additional information regarding these entities in the notes to NTIC's consolidated financial statements and in this section of this report.

## Impact of the COVID-19 Pandemic

In March 2020, the World Health Organization declared the novel coronavirus (COVID-19) outbreak a global pandemic. The COVID-19 pandemic has negatively impacted the global economy, disrupted global supply chains, created significant volatility and disruption in financial markets and has resulted in an economic recession. The outbreak and continuing rapid spread of COVID-19 has resulted in a substantial curtailment of business activities worldwide and is causing weakened economic conditions, both in the United States and abroad.

As part of efforts to contain the spread of COVID-19, federal, state, local and foreign governments imposed various restrictions on the conduct of business and travel, some of which remain in place in whole or in part. Government restrictions, such as stay-at-home orders, quarantines and worker absenteeism as a result of COVID-19, have led to a significant number of business closures and slowdowns. These business closures and slowdowns have adversely impacted and will likely continue to adversely impact NTIC directly and have caused some of NTIC's customers and suppliers to operate at a fraction of their capacities or wholly lock down, which has disrupted and may continue to disrupt NTIC's sales and production.

As the events surrounding the COVID-19 pandemic unfolded, NTIC's primary focus was, and continues to be, the health, safety and wellbeing of its employees, customers and suppliers. In order to continue its operations, as permitted by respective state, local and foreign governments, NTIC has adopted numerous safety measures in accordance with U.S. Centers for Disease Control and Prevention, World Health Organization, and federal, state, local and foreign guidance in order to protect its employees, customers and suppliers. These safety measures include, but are not limited to, adhering to social distancing protocols, enabling the majority of its employees to work from home, suspending non-essential travel, disinfecting facilities and workspaces extensively and frequently, suspending all non-essential visitors and requiring employees who must be present at NTIC's facilities to wear face coverings. NTIC expects to continue such safety measures for the foreseeable future and may take further actions, or adapt these existing policies, as government authorities may require or recommend or as it may determine to be in the best interests of its employees, customers and suppliers.

NTIC has been balancing its safety-focused approach with the needs of its customers. Government mandated measures resulting in the substantial curtailment of business activities generally have excluded certain essential businesses and services, including certain manufacturing. With the exception of the temporary closures of NTIC's facilities in China and India during the second and third fiscal quarters of 2020, NTIC's manufacturing activities are generally considered part of the "critical sector" with respect to state and local government orders. This has allowed NTIC to continue to receive orders and provide uninterrupted order fulfillment to its customers. However, its facilities have been operating at a reduced capacity in order to abide by local government requirements and recommendations, such as social distancing practices, and in response to reduced demand. At various times during the second, third, and fourth quarters of fiscal 2020, certain of NTIC's facilities were impacted by reduced levels of production, manufacturing inefficiencies due to the reconfiguration of certain of its manufacturing processes in order to implement social distancing protocols and reduced demand. NTIC has engaged and continues to engage in communications with its suppliers in an attempt to identify and mitigate supply chain risks and proactively manage inventory levels in order to align production with demand. While domestic and international governmental measures may be modified or extended, NTIC currently expects that its global facilities will remain operational, although operating at reduced production capacity at certain of its facilities. However, such expectation is dependent upon future governmental actions and demand for NTIC's products, the stability of its global supply chain and the ability of carriers to transport supplies to its facilities and products to its customers.

As a result of the global economic slowdown caused by the COVID-19 pandemic, NTIC experienced significantly decreased demand for its products, beginning with its second quarter of fiscal 2020, compared to the prior fiscal year periods, which had a material adverse effect on NTIC's operating results. NTIC anticipates continued softened global demand for its products and services during fiscal 2021. Due to the international reach of COVID-19, NTIC's international joint ventures have also been adversely impacted, which has had and may continue to have a material adverse effect on NTIC's joint venture operations and equity in income from joint ventures. It is currently not possible to predict the precise potential impact, as well as the extent of any future impact, of the COVID-19 pandemic on NTIC's business and on the global economy as a whole. It is also currently not possible to predict how long the pandemic will last or the time that it will take for economic activity to return to prior levels. A prolonged situation could have a significant adverse effect on economies and financial markets globally, potentially leading to a significant worldwide economic downturn, which could have a significant adverse effect on NTIC's business, operating results and financial condition.

The extent to which the COVID-19 pandemic will continue to impact NTIC's business will likely depend on numerous evolving factors that NTIC may not be able to accurately predict, including:

- the duration and scope of the pandemic;
- governmental, business and individuals' actions that have been and continue to be taken in response to the pandemic;
- the impact of the pandemic on economic activity and actions taken in response;
- the effect on NTIC's customers and demand for its products and services;
- NTIC's ability to continue to manufacture and sell its products and services, including as a result of travel restrictions and people working from home;
- the ability of NTIC's customers to pay for its products and services; and
- any closures of NTIC's facilities and the facilities of its customers and suppliers.

Any of these events could materially adversely affect NTIC's business, operating results and financial condition.

## Financial Overview

NTIC's management, including its chief executive officer, who is NTIC's chief operating decision maker, reports and manages NTIC's operations in two reportable business segments based on products sold, customer base, and distribution center: ZERUST<sup>®</sup> products and services and Natur-Tec<sup>®</sup> products.

NTIC's consolidated net sales decreased 14.5% during fiscal 2020 compared to fiscal 2019. NTIC's consolidated net sales for fiscal 2020 were adversely affected by reduced demand globally as a result of the COVID-19 pandemic. NTIC anticipates that the COVID-19 pandemic will continue to significantly adversely affect NTIC's consolidated net sales and earnings during fiscal 2021.

During fiscal 2020, 72.4% of NTIC's consolidated net sales were derived from sales of ZERUST<sup>®</sup> products and services, which decreased 9.7% to \$34,474,535 during fiscal 2020 compared to \$38,174,712 during fiscal 2019. This decrease was due to lower sales to existing customers for products as a result of decreased demand, primarily as a result of the COVID-19 pandemic. NTIC has focused its sales efforts of ZERUST<sup>®</sup> products and services by strategically targeting customers with specific corrosion issues in new market areas, including the oil and gas industry and other industrial sectors that offer sizable growth opportunities. NTIC's consolidated net sales for fiscal 2020 included \$2,782,874 of sales made to customers in the oil and gas industry compared to \$2,727,283 for fiscal 2019. Overall demand for ZERUST<sup>®</sup> products and services depends heavily on the overall health of the markets in which NTIC sells its products, including the automotive, oil and gas, agriculture, and mining markets in particular. NTIC's sales of ZERUST<sup>®</sup> products and services for fiscal 2020 were adversely affected by reduced demand globally as a result of the COVID-19 pandemic. NTIC anticipates that the COVID-19 pandemic will continue to significantly adversely affect sales of ZERUST<sup>®</sup> products and services during fiscal 2021.

During fiscal 2020, 27.6% of NTIC's consolidated net sales were derived from sales of Natur-Tec<sup>®</sup> products compared to 31.5% during fiscal 2019. Net sales of Natur-Tec<sup>®</sup> products decreased 25.1% to \$13,164,156 during fiscal 2020 compared to fiscal 2019 primarily due to a decrease in finished product sales in North America and finished product sales at NTIC's majority-owned subsidiary in India, Natur-Tec India Private Limited (Natur-Tec India) and reduced demand globally as a result of the COVID-19 pandemic. NTIC anticipates that the COVID-19 pandemic will continue to significantly adversely affect sales of Natur-Tec<sup>®</sup> products during fiscal 2021.

Cost of goods sold as a percentage of net sales decreased to 66.4% during fiscal 2020 compared to 68.1% during fiscal 2019 primarily as a result of an increased percentage of product sales from ZERUST<sup>®</sup> oil and gas products, which have higher gross margins than NTIC's traditional ZERUST<sup>®</sup> industrial products and services or its Natur-Tec<sup>®</sup> products.

NTIC's equity in income from joint ventures decreased 40.9% to \$4,270,327 during fiscal 2020 compared to \$7,225,518 during fiscal 2019. This decrease was primarily due to a corresponding decrease in net sales at the joint ventures, which were \$87,030,062 during fiscal 2020, compared to \$114,635,435 during fiscal 2019. The majority of the decrease in sales at the joint ventures is attributable to the decrease in net sales at EXCOR, which were \$32,546,402 during fiscal 2020, compared to \$47,015,841 during fiscal 2019. The decrease in the net sales of NTIC's joint ventures was due primarily to decreased sales to existing customers for existing products as a result of decreased demand as a result of the COVID-19 pandemic. The decrease in net sales of NTIC's joint ventures resulted in a corresponding decrease in fees for services provided to joint ventures, as such fees are a function of net sales of NTIC's joint ventures. NTIC anticipates that net sales of its joint ventures will continue to decrease significantly as a result of decreased demand as a result of the COVID-19 pandemic and may continue to have a significant adverse effect on NTIC's equity in income from its joint ventures.

NTIC's total operating expenses decreased \$815,768, or 3.4%, to \$23,324,453 during fiscal 2020 compared to \$24,140,221 during fiscal 2019. This decrease was primarily due to the suspension of travel and work from home initiatives as a result of the COVID-19 pandemic during fiscal 2020.

NTIC spent \$3,979,455 in fiscal 2020 in connection with its research and development activities, compared to \$3,822,070 in fiscal 2019. NTIC anticipates that it will spend a total of between \$3,900,000 and \$4,100,000 in fiscal 2021 on research and development activities.

NTIC incurred a net loss attributable to NTIC of \$(1,337,709), or \$(0.15) per diluted common share, for fiscal 2020, compared to net income attributable to NTIC of \$5,209,622, or \$0.55 per diluted common share, for fiscal 2019. NTIC's earnings were significantly affected by the COVID-19 pandemic during fiscal 2020 and NTIC anticipates that its earnings will continue to be significantly adversely affected by the COVID-19 pandemic during fiscal 2021. Additionally, NTIC recorded a tax valuation allowance of approximately \$1,600,000 against its U.S. net deferred tax asset, which had an adverse impact on its earnings for fiscal 2020. For more information regarding this tax valuation allowance, see "Part II. Item 8. Financial Statements and Supplementary Data – 14. Income Taxes" of this report. NTIC anticipates that its quarterly net income or loss will continue to remain subject to significant volatility primarily due to the financial performance of its subsidiaries and joint ventures, sales of its ZERUST<sup>®</sup> products and services into the oil and gas industry, and sales of its Natur-Tec<sup>®</sup> bioplastics products, which fluctuate more on a quarterly basis than the traditional ZERUST<sup>®</sup> business.

NTIC's working capital, defined as current assets less current liabilities, was \$27,104,746 at August 31, 2020, including \$6,403,032 in cash and cash equivalents and \$5,544,722 in available for sale securities, compared to \$25,460,569 at August 31, 2019, including \$5,856,758 in cash and cash equivalents and \$3,565,258 in available for sale securities.

On April 23, 2020, NTIC announced the temporary suspension of its quarterly cash dividend pending the impact of the COVID-19 pandemic on NTIC. Accordingly, NTIC did not declare a cash dividend during the quarters ended May 31, 2020 and August 31, 2020. Prior to this suspension, NTIC's Board of Directors declared a cash dividend of \$0.065 per share during its first and second quarters of fiscal 2020. During fiscal 2019, NTIC's Board of Directors declared four quarterly cash dividends of \$0.06 per share each. The length of the Company's suspension of its quarterly cash dividend is currently unknown, and the declaration of future dividends is not guaranteed and will be determined by NTIC's Board of Directors in light of conditions then existing, including NTIC's earnings, financial condition, cash requirements, restrictions in financing agreements, business conditions, and other factors, including without limitation the effect of COVID-19 on NTIC's business, operating results and financial condition.

### Sales and Expense Components

The following is a description of the primary components of net sales and expenses:

**Net Sales, Excluding Joint Ventures.** NTIC derives net sales from the sale of its ZERUST<sup>®</sup> products and services and its Natur-Tec<sup>®</sup> products. NTIC sells its ZERUST<sup>®</sup> products and services and its Natur-Tec<sup>®</sup> products either directly, through its subsidiaries, or via a network of joint ventures, independent distributors, and agents. Net sales, excluding joint ventures represents net sales by NTIC either directly to end users or to distributors worldwide, but not sales to NTIC's joint ventures and not sales by NTIC's joint ventures. NTIC recognizes revenue from the sale of its products primarily upon shipment of the products.

**Net Sales, To Joint Ventures.** Net sales, to joint ventures represents net sales by NTIC to NTIC's joint ventures, but not sales by NTIC either directly to end users or to distributors or sales by NTIC's joint ventures. NTIC's revenue recognition policy for sales to its joint ventures is the same as NTIC's policy for sales to unaffiliated customers. NTIC recognizes revenue from the sale of its products to joint ventures primarily upon shipment of the products.

**Cost of Goods Sold.** Most of NTIC's products are manufactured by third parties, and its cost of goods sold for those products consists primarily of the price invoiced by its third-party vendors. For the portion of products that NTIC manufactures, NTIC's cost of goods sold for those products consists primarily of direct labor, allocated manufacturing overhead, raw materials, and components. NTIC's margins on its Natur-Tec<sup>®</sup> resin compounds and finished products are generally smaller than its margins on its ZERUST<sup>®</sup> products and services, and NTIC's margins on its ZERUST<sup>®</sup> products and services sold into the oil and gas industry are generally greater than its margins on its traditional ZERUST<sup>®</sup> products and services.

**Equity in Income from Joint Ventures.** NTIC's equity in income from joint ventures consists of NTIC's share of equity in income from each joint venture based on the overall profitability of the joint ventures. Such profitability is subject to variability from quarter to quarter, which, in turn, subjects NTIC's earnings to variability from quarter to quarter. Traditionally, a portion of the equity income recorded in a given fiscal year is paid to the owners of the joint venture entity during the following fiscal year through a dividend. The payment of a dividend by a joint venture entity is determined by a vote of the joint venture owners and is not at the sole discretion of NTIC. NTIC typically owns only 50% or less of its joint venture entities and, thus, does not control the decisions of these entities regarding whether to pay dividends and, if paid, how much they should be in a given year.

**Fees for Services Provided to Joint Ventures.** NTIC provides certain services to its joint ventures, including consulting, legal, travel, insurance, technical, and marketing services based on licensing or other agreements with its joint ventures. NTIC receives fees for these services it provides to its joint ventures based primarily on the net sales by NTIC's joint ventures, the latter of which are not included in NTIC's net sales reflected on NTIC's consolidated statements of operations. The fees for services received by NTIC from its joint ventures are generally determined based on either a flat fee or a percentage of net sales by NTIC's joint ventures depending on local laws and tax regulations. With respect to EXCOR, NTIC receives an agreed upon fixed quarterly fee for such services. Under NTIC's agreements with its joint ventures in which the fees for services is described, amounts are earned when product is shipped from joint venture facilities, at which point a sale is deemed to have occurred and results in obligation of the joint venture to pay the royalty and recognition of the fee by the Company.

**Selling Expenses.** Selling expenses consist primarily of sales commissions and support costs for NTIC's direct sale and distribution system and marketing costs.

**General and Administrative Expenses.** General and administrative expenses consist primarily of salaries and benefits and other costs for NTIC's executives, accounting, stock-based compensation, finance, legal, information technology, and human resources functions.

**Research and Development Expenses.** Research and development expenses include costs associated with the design, development, market analysis, lab testing, and field trials and enhancements of NTIC's products and services. NTIC expenses all costs related to product research and development as incurred. Research and development expenses reflect the net amount after being reduced by reimbursements related to certain research and development contracts. With respect to such research and development contracts, NTIC accrues proceeds received under the contracts and offsets research and development expenses incurred in equal installments over the timelines associated with completion of the contracts' specific objectives and milestones.

**Interest Income.** Interest income consists of interest earned on investments, which typically consist of investment-grade, interest-bearing securities and money market accounts.

**Interest Expense.** Interest expense results primarily from interest associated with any borrowings under NTIC's line of credit with PNC Bank.

**Income Tax Expense.** Income tax expense includes federal income taxes, foreign withholding taxes, income tax of consolidated entities in foreign jurisdictions, state income tax, and changes to NTIC's deferred tax valuation allowance. NTIC utilizes the asset and liability method of accounting for income taxes, which requires an asset and liability approach to financial accounting and reporting for income taxes. Deferred income tax assets and liabilities are computed annually for differences between the financial statement and tax basis of assets and liabilities that will result in taxable or deductible amounts in the future, based on enacted tax laws and rates applicable to the periods in which the differences are expected to affect taxable income. Valuation allowances are established when necessary to reduce deferred tax assets to the amount expected to be realized. NTIC records a tax valuation allowance when it is more likely than not that some portion or all of its deferred tax assets will not be realized. NTIC makes this determination based on all available evidence, including historical data and projections of future results. Income tax expense is the tax payable or refundable for the period plus or minus the change during the period in deferred tax assets and liabilities.

## Results of Operations

### Fiscal Year 2020 Compared to Fiscal Year 2019

The following table sets forth NTIC's results of operations for fiscal 2020 and fiscal 2019.

	Fiscal 2020	% of Net Sales	Fiscal 2019	% of Net Sales	\$ Change	% Change
Net sales, excluding joint ventures	\$ 45,666,045	95.9%	\$ 53,142,583	95.3%	\$ (7,476,538)	(14.1)%
Net sales, to joint ventures	1,972,646	4.1%	2,607,554	4.7%	(634,908)	(24.3)%
Cost of goods sold	31,609,274	66.4%	37,970,244	68.1%	(6,360,970)	(16.8)%
Equity in income from joint ventures	4,270,327	9.0%	7,225,518	13.0%	(2,955,191)	(40.9)%
Fees for services provided to joint ventures	4,612,885	9.7%	5,727,579	10.3%	(1,114,694)	(19.5)%
Selling expenses	10,656,689	22.4%	10,968,592	19.7%	(311,903)	(2.8)%
General and administrative expenses	8,688,309	18.2%	9,349,559	16.8%	(661,250)	(7.1)%
Research and development expenses	3,979,455	8.4%	3,822,070	6.9%	157,385	4.1%

*Net Sales.* NTIC's consolidated net sales decreased 14.5% to \$47,638,691 during fiscal 2020 compared to \$55,750,137 during fiscal 2019. NTIC's consolidated net sales to unaffiliated customers excluding NTIC's joint ventures decreased 14.1% to \$45,666,045 during fiscal 2020 compared to \$53,142,583 during fiscal 2019. Net sales to joint ventures decreased 24.3% to \$1,972,646 in fiscal 2020 compared to fiscal 2019. These decreases were primarily a result of reduced demand globally as a result of the COVID-19 pandemic. NTIC anticipates that the COVID-19 pandemic will continue to significantly adversely affect sales of ZERUST<sup>®</sup> products and services during fiscal 2021.

The following table sets forth NTIC's net sales by product segment for fiscal 2020 and fiscal 2019:

	Fiscal 2020	Fiscal 2019	\$ Change	% Change
Total ZERUST <sup>®</sup> sales	\$ 34,474,535	\$ 38,174,712	\$ (3,700,177)	(9.7)%
Total Natur-Tec <sup>®</sup> sales	13,164,156	17,575,425	(4,411,269)	(25.1)%
Total net sales	\$ 47,638,691	\$ 55,750,137	\$ (8,111,446)	(14.5)%

During fiscal 2020, 72.4% of NTIC's consolidated net sales were derived from sales of ZERUST<sup>®</sup> products and services, which decreased 9.7% to \$34,474,535 compared to \$38,174,712 during fiscal 2019. NTIC has strategically focused its sales efforts for ZERUST<sup>®</sup> products and services on customers with sizeable corrosion problems in industry sectors that offer sizable growth opportunities, including the oil and gas sector. Overall, demand for ZERUST<sup>®</sup> products and services depends heavily on the overall health of the market segments to which NTIC sells its products, including the automotive, oil and gas, agriculture, and mining markets in particular. This decrease was primarily a result of reduced demand globally as a result of the COVID-19 pandemic. NTIC anticipates that the COVID-19 pandemic will continue to significantly adversely affect sales of ZERUST<sup>®</sup> products and services during fiscal 2021.

The following table sets forth NTIC's net sales of ZERUST<sup>®</sup> products for fiscal 2020 and fiscal 2019:

	Fiscal 2020	Fiscal 2019	\$ Change	% Change
ZERUST <sup>®</sup> industrial net sales	\$ 29,719,015	\$ 32,839,875	\$ (3,120,860)	(9.5)%
ZERUST <sup>®</sup> joint venture net sales	1,972,646	2,607,554	(634,908)	(24.3)%
ZERUST <sup>®</sup> oil & gas net sales	2,782,874	2,727,283	55,591	2.0%
Total ZERUST <sup>®</sup> net sales	\$ 34,474,535	\$ 38,174,712	\$ (3,700,177)	(9.7)%

NTIC's total ZERUST<sup>®</sup> net sales decreased during fiscal 2020 compared to fiscal 2019 primarily due to overall decreased demand for ZERUST<sup>®</sup> industrial products and services in North America, partially offset by increased demand for ZERUST<sup>®</sup> oil and gas products and services. NTIC's sales of ZERUST<sup>®</sup> industrial products and services for fiscal 2020 were adversely affected by reduced demand globally as a result of the COVID-19 pandemic.

Demand for ZERUST<sup>®</sup> products and services decreased significantly beginning in February 2020 largely as a result of the COVID-19 pandemic and will likely have a significant adverse effect on sales of ZERUST<sup>®</sup> products and services during fiscal 2021.

ZERUST<sup>®</sup> oil and gas net sales increased 2.0% during fiscal 2020 compared to fiscal 2019 primarily as a result of new opportunities with new customers, partially offset by reduced demand as a result of the COVID-19 pandemic. The pandemic's impact on NTIC's ZERUST<sup>®</sup> oil and gas business was primarily due to significantly lower oil prices and travel restrictions, which inhibited NTIC's ability to travel to customer sites in order to install solutions. NTIC expects its oil and gas sales will continue to be impacted for the duration of the pandemic. NTIC also anticipates that its sales of ZERUST<sup>®</sup> products and services into the oil and gas industry will continue to remain subject to significant volatility from quarter to quarter as sales are recognized, specifically due to the volatility of oil prices. Demand for oil and gas products around the world depends primarily on market acceptance and the reach of NTIC's distribution network. Because of the typical size of individual orders and overall size of NTIC's net sales derived from sales of oil and gas products, the timing of one or more orders can materially affect NTIC's quarterly sales compared to prior fiscal year quarters.

During fiscal 2020, 27.6% of NTIC's consolidated net sales were derived from sales of Natur-Tec<sup>®</sup> products, compared to 31.5% during fiscal 2019. Sales of Natur-Tec<sup>®</sup> products decreased 25.1% to \$13,164,156 during fiscal 2020 compared to \$17,575,425 during fiscal 2019. This decrease was primarily due to a decrease in finished product sales in North America and finished product sales at NTIC's majority-owned subsidiary in India, Natur-Tec India Private Limited (Natur-Tec India), and decreased demand globally as a result of the COVID-19 pandemic. The COVID pandemic has adversely impacted demand from across the apparel industry, as well as many large users of bioplastics, including college campuses, stadiums, arenas, restaurants, and corporate office complexes. NTIC currently expects these customers will be some of the last businesses to re-open, and accordingly, anticipates that the COVID-19 pandemic will continue to significantly adversely affect sales of Natur-Tec<sup>®</sup> products during fiscal 2021.

*Cost of Goods Sold.* Cost of goods sold decreased 16.8% in fiscal 2020 compared to fiscal 2019 primarily as a result of the decrease in net sales, as described above. Cost of goods sold as a percentage of net sales decreased to 66.4% during fiscal 2020 compared to 68.1% during fiscal 2019 primarily due to an increased percentage of product sales from ZERUST<sup>®</sup> oil and gas products, which have higher gross margins than NTIC's traditional ZERUST<sup>®</sup> industrial products and services or its Natur-Tec<sup>®</sup> products.

*Equity in Income from Joint Ventures.* NTIC's equity in income from joint ventures decreased 40.9% to \$4,270,327 during fiscal 2020 compared to \$7,225,518 during fiscal 2019. This decrease was primarily a result of decreased profitability of the joint ventures during fiscal 2020 compared to fiscal 2019 and which fluctuates based on net sales. Of the total equity in income from joint ventures, NTIC had equity in income from joint ventures of \$2,622,423 attributable to EXCOR during fiscal 2020 compared to \$5,415,362 attributable to EXCOR during fiscal 2019. NTIC had equity in income of all other joint ventures of \$1,647,904 during fiscal 2020 compared to \$1,810,156 during fiscal 2019.

*Fees for Services Provided to Joint Ventures.* NTIC recognized fee income for services provided to joint ventures of \$4,612,885 during fiscal 2020 compared to \$5,727,579 during fiscal 2019, representing a decrease of 19.5%, or \$1,114,694. Fee income for services provided to joint ventures is traditionally a function of the sales made by NTIC's joint ventures. Total net sales of NTIC's joint ventures decreased \$27,605,373 to \$87,030,062 during fiscal 2020 compared to \$114,635,435 during fiscal 2019, representing a decrease of 24.1%. Net sales of NTIC's joint ventures are not included in NTIC's product sales and are not included in NTIC's consolidated financial statements. Of the total fee income for services provided to joint ventures, fees of \$843,752 were attributable to EXCOR during fiscal 2020 compared to \$852,526 attributable to EXCOR during fiscal 2019. These decreases are primarily the result of decreased global demand for NTIC's products as a result of the COVID-19 pandemic. NTIC anticipates that net sales of its joint ventures and accordingly its equity in income from its joint ventures will continue to be adversely affected by the COVID-19 pandemic during fiscal 2021.

*Selling Expenses.* NTIC's selling expenses decreased 2.8% in fiscal 2020 compared to fiscal 2019 due primarily to decreased travel expenses and other expenses due to work from home arrangements necessitated by the COVID-19 pandemic. Selling expenses as a percentage of net sales increased to 22.4% for fiscal 2020 compared to 19.7% in fiscal 2019 primarily due to the decrease in net sales, as previously described.

*General and Administrative Expenses.* NTIC's general and administrative expenses decreased 7.1% in fiscal 2020 compared to fiscal 2019 primarily due to decreased travel expenses and other expenses due to work from home arrangements necessitated by the COVID-19 pandemic, partially offset by approximately \$170,000 expense due to a loss on disposal of certain fixed assets and patents. As a percentage of net sales, general and administrative expenses increased to 18.2% for fiscal 2020 from 16.8% for fiscal 2019 primarily to the decrease in net sales, as previously described.

*Research and Development Expenses.* NTIC's research and development expenses increased 4.1% in fiscal 2020 compared to fiscal 2019 primarily due to increased personnel and development efforts, partially offset by decreased travel expenses and other expenses due to work from home arrangements necessitated by the COVID-19 pandemic.

*Interest Income.* NTIC's interest income increased to \$167,733 in fiscal 2020 compared to \$78,257 in fiscal 2019 due primarily to volatile earnings on available for sale securities.

*Interest Expense.* NTIC's interest expense increased to \$16,034 in fiscal 2020 compared to \$13,567 in fiscal 2019.

*Income Before Income Tax Expense.* NTIC incurred a profit before income tax expense of \$1,739,875 for fiscal 2020 compared to income before income tax expense of \$6,657,459 for fiscal 2019.

*Income Tax Expense.* Income tax expense was \$2,674,635 during fiscal 2020 compared to \$841,837 during fiscal 2019 for an effective tax rate of 153.7% and 12.7%, respectively. Income tax expense during fiscal 2020 includes \$1,626,251 related to the impact of a tax valuation allowance recorded with respect to the Company's domestic deferred tax assets during fiscal 2020.

*Net (Loss) Income Attributable to NTIC.* Net (loss) income attributable to NTIC decreased to a loss of \$(1,337,709), or \$(0.15) per diluted common share, for fiscal 2020 compared to income of \$5,209,622, or \$0.55 per diluted common share, for fiscal 2019, a decrease of \$6,547,334 or \$0.70 per diluted share. This decrease was primarily the result of the increase in the income tax expense noted above and decrease in net sales and resulting gross profit and income from joint venture operations during fiscal 2020 compared to fiscal 2019 due to the impact of the COVID-19 pandemic.

NTIC anticipates that its earnings will be significantly adversely affected by the COVID-19 pandemic throughout fiscal 2021 and that its quarterly net income or loss will continue to remain subject to significant volatility primarily due to the financial performance of its subsidiaries and joint ventures, sales of its ZERUST<sup>®</sup> products and services into the oil and gas industry, and sales of its Natur-Tec<sup>®</sup> bioplastics products, which fluctuate more on a quarterly basis than the traditional ZERUST<sup>®</sup> business.

*Other Comprehensive Income – Foreign Currency Translations Adjustment.* The changes in the foreign currency translations adjustment were due to the fluctuation of the U.S. dollar compared to the Euro and other foreign currencies during fiscal 2020 compared to fiscal 2019.

## **Liquidity and Capital Resources**

*Sources of Cash and Working Capital.* As of August 31, 2020, NTIC's working capital, defined as current assets less current liabilities, was \$27,104,746, including \$6,403,032 in cash and cash equivalents and \$5,544,722 in available for sale securities, compared to working capital of \$25,460,569, including \$5,856,758 in cash and cash equivalents and \$3,565,258 in available for sale securities, as of August 31, 2019. These increases are primarily the result of the suspension of NTIC's quarterly cash dividend payments beginning with the third quarter of fiscal 2020, the increase of dividends received from joint ventures, the collection of outstanding receivables and the decrease in operating expenses during fiscal 2020 compared to fiscal 2019.

As of August 31, 2020, NTIC had a revolving line of credit with PNC Bank of \$3,000,000 with no amounts outstanding. At the option of the Company, outstanding advances under the line of credit bear interest at either (a) an annual rate based on LIBOR plus 2.15% for the applicable LIBOR interest period selected by the Company or (b) at the rate publicly announced by PNC Bank from time to time as its prime rate. On December 16, 2019, the Company and PNC Bank extended the maturity date of the line of credit from January 7, 2020 to January 7, 2021. All other terms of the line of credit and the loan agreement and other documents evidencing the line of credit remain the same. It is anticipated that, as historically has been the practice, the line of credit will be renewed each year for one additional year for the immediate foreseeable future.

The line of credit is evidenced by an amended and restated committed line of credit note in the principal amount of up to \$3,000,000. The line of credit has a \$1,200,000 standby letter of credit sub-facility, with any standby letters of credit issued thereunder being at the sole discretion of PNC Bank. Any lines of credit issued by PNC Bank would decrease the availability under the revolving line of credit.

The line of credit is subject to standard covenants, including affirmative financial covenants, such as the maintenance of a minimum fixed charge coverage ratio, and negative covenants, which, among other things, limit the incurrence of additional indebtedness, loans and equity investments, disposition of assets, mergers and consolidations, and other matters customarily restricted in such agreements. Under the loan agreement, NTIC is subject to a minimum fixed charge coverage ratio of 1.10:1.00. As of August 31, 2020, NTIC was in compliance with all debt covenants.

NTIC believes that a combination of its existing cash and cash equivalents, available for sale securities, forecasted cash flows from future operations, anticipated distributions of earnings, anticipated fees to NTIC for services provided to its joint ventures, and funds available through existing or anticipated financing arrangements will be adequate to fund its existing operations, investments in new or existing joint ventures or subsidiaries, capital expenditures, debt repayments, cash dividends if NTIC's Board of Directors decides to reinstate them, and any stock repurchases for at least the next 12 months. During fiscal 2021, NTIC expects to continue to invest directly and through its use of working capital in NTIC China, Zerust Mexico, NTI Europe, research and development, marketing efforts, resources for the application of its corrosion prevention technology in the oil and gas industry, and its Natur-Tec<sup>®</sup> bio-plastics business, although the amounts of these various investments are not known at this time. In order to take advantage of such new product and market opportunities to expand its business and increase its revenues, NTIC may decide to finance such opportunities by borrowing under its revolving line of credit or raising additional financing through the issuance of debt or equity securities. There is no assurance that any financing transaction will be available on terms acceptable to NTIC or at all or that any financing transaction will not be dilutive to NTIC's current stockholders.

NTIC traditionally has used the cash generated from its operations, distributions of earnings from joint ventures, and fees for services provided to its joint ventures to fund NTIC's new technology investments and capital contributions to new and existing subsidiaries and joint ventures. NTIC's joint ventures traditionally have operated with little or no debt and have been self-financed with minimal initial capital investment and minimal additional capital investment from their respective owners.

*Uses of Cash and Cash Flow.* Net cash provided by operating activities during fiscal 2020 was \$4,912,070 which resulted principally from dividends received from joint ventures, stock-based compensation, depreciation, amortization and deferred income taxes, partially offset by NTIC's net loss, equity in income from joint ventures, and an offset by a decrease in accrued liabilities. Net cash provided by operating activities during fiscal 2019 was \$5,477,022, which resulted principally from NTIC's net income, dividends received from joint ventures, stock-based compensation, depreciation, amortization, and an increase in accounts payable, partially offset by NTIC's equity in income from joint ventures, an increase in inventory and a decrease in accrued liabilities.

NTIC's cash flows from operations are impacted by significant changes in certain components of NTIC's working capital, including inventory turnover and changes in receivables and payables. NTIC considers internal and external factors when assessing the use of its available working capital, specifically when determining inventory levels and credit terms of customers. Key internal factors include existing inventory levels, stock reorder points, customer forecasts, and customer requested payment terms, and key external factors include the availability of primary raw materials and sub-contractor production lead times. NTIC's typical contractual for trade receivables, excluding joint ventures, are traditionally 30 days and 90 days for trade receivables from its joint ventures. Before extending unsecured credit to customers, excluding NTIC's joint ventures, NTIC reviews customers' credit histories and will establish an allowance for uncollectible accounts based upon factors surrounding the credit risk of specific customers and other information. Accounts receivable over 30 days are considered past due for most customers. NTIC does not accrue interest on past due accounts receivable. If accounts receivable in excess of the provided allowance are determined uncollectible, they are charged to selling expense in the period that the determination is made. Accounts receivable are deemed uncollectible based on NTIC exhausting reasonable efforts to collect. NTIC's typical contractual terms for receivables for services provided to its joint ventures are 90 days. NTIC records receivables for services provided to its joint ventures on an accrual basis, unless circumstances exist that make the collection of the balance uncertain, in which case the fee income will be recorded on a cash basis until there is consistency in payments. This determination is handled on a case by case basis.

NTIC experienced a decrease in trade receivables and an increase in inventory as of August 31, 2020 compared to August 31, 2019. Trade receivables excluding joint ventures as of August 31, 2020 decreased \$1,707,306 compared to August 31, 2019, primarily related to the timing of collections and the decrease in sales. Outstanding trade receivables excluding joint ventures balances as of August 31, 2020 decreased by an average of 3 days to an average of 65 days from balances outstanding from these customers as of August 31, 2019. Outstanding trade receivables from joint ventures as of August 31, 2020 decreased \$348,573 compared to August 31, 2019 primarily due to the timing of payments. Outstanding balances from trade receivables from joint ventures decreased by an average of 27 days as of August 31, 2020 to an average of 88 days from an average of 115 days from balances outstanding from these customers compared to August 31, 2019. The average days outstanding of trade receivables from joint ventures as of August 31, 2020 were primarily due to the receivable balances at NTIC's joint ventures in United States and India.

Outstanding receivables for services provided to joint ventures as of August 31, 2020 decreased \$340,714 compared to August 31, 2019, and the average days to pay decreased from an average of 81 days to an average of 73 days, compared to August 31, 2019.

Net cash used in investing activities during fiscal 2020 was \$2,784,682, which was primarily the result of the purchase of available for sale securities, purchases of property and equipment and investments in patents, partially offset by proceeds from the sale of available for sale securities and the sale of property and equipment. Net cash used in investing activities during fiscal 2019 was \$1,339,921, which was primarily the result of the purchase of available for sale securities, purchases of property and equipment and investments in patents, partially offset by proceeds from the sale of available for sale securities.

Net cash used in financing activities for fiscal 2020 was \$1,518,005, which resulted from dividends paid on NTIC common stock and a dividend paid to a non-controlling interest, partially offset by proceeds from NTIC's employee stock purchase plan. Net cash used in financing activities for fiscal 2019 was \$2,393,664, which resulted from dividends paid on NTIC common stock and a dividend paid to a non-controlling interest, partially offset by an investment by a non-controlling interest and proceeds from NTIC's employee stock purchase plan.

*Share Repurchase Plan.* On January 15, 2015, NTIC's Board of Directors authorized the repurchase of up to \$3,000,000 in shares of NTIC common stock through open market purchases or unsolicited or solicited privately negotiated transactions. This program has no expiration date but may be terminated by NTIC's Board of Directors at any time. As of August 31, 2020, up to \$2,640,548 in shares of NTIC common stock remained available for repurchase under NTIC's stock repurchase program. No shares of NTIC common stock were repurchased during fiscal 2020 or fiscal 2019.

*Cash Dividends.* During fiscal 2020, NTIC's Board of Directors declared cash dividends on the following dates in the following amounts to holders of record of the Company's common stock as of the following record dates:

<b>Declaration Date</b>	<b>Amount</b>	<b>Record Date</b>	<b>Payable Date</b>
October 22, 2019	\$0.065	November 6, 2019	November 20, 2019
January 22, 2020	\$0.065	February 5, 2020	February 19, 2020

On April 23, 2020, NTIC announced the temporary suspension of its quarterly cash dividend pending clarity on COVID-19 pandemic. Therefore, NTIC's Board of Directors did not declare a cash dividend during the quarter ended May 31, 2020 or the quarter ended August 31, 2020.

The declaration of future dividends is not guaranteed and will be determined by NTIC's Board of Directors in light of conditions then existing, including NTIC's earnings, financial condition, cash requirements, restrictions in financing agreements, business conditions, and other factors, including without limitation the effect of COVID-19 on its business, operating results, and financial condition.

*Stock Split.* On June 3, 2019, NTIC's Board of Directors declared a two-for-one stock split of NTIC's common stock effected in the form of a 100% share dividend distributed on June 28, 2019 to record holders as of June 17, 2019. As a result of this action, approximately 4.5 million shares were issued to stockholders of record as of June 17, 2019. The par value of the common stock remains at \$0.02 per share, and, accordingly, approximately \$90,900 was transferred from additional paid-in capital to common stock. Net income and dividends declared per share and weighted average shares outstanding presented in this report reflect the 100 percent stock dividend. The two-for-one stock split is reflected in the share amounts in all periods presented in this report.

*Capital Expenditures and Commitments.* NTIC spent \$711,412 on capital expenditures during fiscal 2020, which related primarily to the purchase of new equipment. NTIC expects to spend an aggregate of approximately \$600,000 to \$900,000 on capital expenditures during fiscal 2021, which it expects will relate primarily to the purchase of new equipment.

*Contractual Obligations.* Set forth below is information concerning NTIC's known contractual obligations as of August 31, 2020 that are fixed and determinable by year starting with the twelve months ending August 31, 2021.

Contractual Obligations	Payments Due by Period				
	Total	Less than 1 Year	1-3 Years	3-5 Years	More than 5 Years
Rent obligations	\$ 674,689	\$ 386,345	\$ 288,344	\$ -0-	\$ -0-
Total	\$ 674,689	\$ 386,345	\$ 288,344	\$ -0-	\$ -0-

### **Inflation and Seasonality**

Inflation in the United States and abroad historically has had little effect on NTIC. Although NTIC's business historically has not been seasonal, NTIC believes there is now some seasonality in its business. NTIC believes its net sales in the second fiscal quarter were adversely affected by the long Chinese New Year, which slowdown was extended in an effort to combat the spread of COVID-19, the North American holiday season, and overall less corrosion taking place at lower winter temperatures worldwide.

### **Market Risk**

NTIC is exposed to market risk stemming from changes in foreign currency exchange rates, commodity prices, and interest rates.

Because the functional currency of NTIC's foreign operations and investments in its foreign joint ventures is the applicable local currency, NTIC is exposed to foreign currency exchange rate risk arising from transactions in the normal course of business. NTIC's principal exchange rate exposure is with the Euro, the Japanese Yen, the Indian Rupee, the Chinese Renminbi, the South Korean Won, and the English Pound against the U.S. Dollar. NTIC's fees for services provided to joint ventures and dividend distributions from these foreign entities are paid in foreign currencies and, thus, fluctuations in foreign currency exchange rates could result in declines in NTIC's reported net income. Since NTIC's investments in its joint ventures are accounted for using the equity method, any changes in foreign currency exchange rates would be reflected as a foreign currency translation adjustment and would not change NTIC's equity in income from joint ventures reflected in its consolidated statements of operations. NTIC does not hedge against its foreign currency exchange rate risk.

Some raw materials used in NTIC's products are exposed to commodity price changes. The primary commodity price exposures are with a variety of plastic resins.

At the option of NTIC, outstanding advances under NTIC's \$3,000,000 revolving line of credit with PNC Bank bear interest at either (a) an annual rate based on LIBOR plus 2.15% for the applicable LIBOR interest period selected by NTIC or (b) at the rate publicly announced by PNC Bank from time to time as its prime rate and, thus, may subject NTIC to some market risk on interest rates. As of August 31, 2020, NTIC had no borrowings under the line of credit.

### **Related Party Transactions**

Since NTIC's joint ventures are considered related parties, NTIC recorded sales to its joint ventures as a separate line item on the face of NTIC's consolidated statements of operations and recorded fees for services provided to its joint ventures as separate line items on the face of NTIC's consolidated statements of operations. NTIC also records trade receivables from joint ventures, receivables for fees for services provided to joint ventures, and NTIC's investments in joint ventures as separate line items on its consolidated balance sheets.

NTIC established its joint venture network approximately 30 years ago as a method to increase its worldwide distribution network for ZERUST<sup>®</sup> rust and corrosion inhibiting products and services. NTIC participates, either directly or indirectly, in 19 active joint venture arrangements in North America, Europe, and Asia. Each of these joint ventures generally manufactures and markets finished products in the geographic territory to which it is assigned. NTIC's joint venture partners are knowledgeable in the applicable environmental, labor, tax, and other requisite regulations and laws of the respective foreign countries in which they operate, as well as the local customs and business practices. NTIC's revenue recognition policy for sales to its joint ventures is the same as its policy for sales to unaffiliated customers.

The fees for services provided to joint ventures are determined based on either a flat fee or a percentage of sales depending on local laws and tax regulations. With respect to NTIC's joint venture in Germany, EXCOR, NTIC recognizes an agreed upon quarterly fee for such services. NTIC records revenue related to fees for services provided to joint ventures when earned, amounts are determinable, and collectability is reasonably assured. Under NTIC's agreements with its joint ventures, fee amounts are earned when product is shipped from joint venture facilities. NTIC reviews the financial situation of each joint venture to assist in the likelihood of collections on amounts earned. From time to time, NTIC elects to account for such fees on a cash basis for certain joint ventures when uncertainty exists surrounding the collections of such fees. There are no fees being accounted for in this manner at present. The expenses incurred in support of its joint ventures are direct expenses that NTIC incurs related to its joint ventures and include such items as employee compensation and benefit expenses, travel expense, insurance, consulting expense, legal expense, and lab supplies and testing expense.

See Note 13 to NTIC's consolidated financial statements for other related party transaction disclosures.

### **Off-Balance Sheet Arrangements**

NTIC does not have any relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities, which are established for the purpose of facilitating off-balance sheet financial arrangements. As such, NTIC is not materially exposed to any financing, liquidity, market, or credit risk that could arise if NTIC had engaged in such arrangements.

### **Critical Accounting Policies and Estimates**

The preparation of NTIC's consolidated financial statements requires management to make estimates and judgments that affect the reported amount of assets, liabilities, revenues and expenses, and related disclosure of contingent assets and liabilities. The Securities and Exchange Commission has defined a company's most critical accounting policies as those that are most important to the portrayal of its financial condition and results of operations and those which require the company to make its most difficult and subjective judgments, often as a result of the need to make estimates of matters that are inherently uncertain. Based on this definition, NTIC has identified the following critical accounting policies. Although NTIC believes that its estimates and assumptions are reasonable, they are based upon information available when they are made. Actual results may differ significantly from these estimates under different assumptions or conditions.

### ***Principles of Consolidation***

NTIC evaluates its voting and variable interests in entities on a qualitative and quantitative basis. NTIC consolidates entities in which it concludes it has the power to direct the activities that most significantly impact an entity's economic success and has the obligation to absorb losses or the right to receive benefits that could be significant to the entity. All such relationships are evaluated on an ongoing basis. The consolidated financial statements include the accounts of Northern Technologies International Corporation, its wholly-owned subsidiaries, Northern Technologies Holding Company, LLC, NTIC (Shanghai) Co., Ltd., NTIC Europe GmbH and ZERUST-EXCOR MEXICO, S. de R.L. de C.V., NTIC's majority-owned subsidiary in Brazil, Zerust Prevenção de Corrosão S.A., NTIC's majority-owned holding company, NTI Asean LLC, and NTIC's majority-owned subsidiary in India, Natur-Tec India Private Limited, Natur-Tec Lanka, Zerust Singapore Pte Ltd (Zerust Singapore) and Zerust Vietnam Co. Ltd (Zerust Vietnam). NTIC's consolidated financial statements do not include the accounts of any of its joint ventures.

### ***Investments in Joint Ventures and Recoverability of Investments in Joint Ventures***

NTIC's investments in its joint ventures are accounted for using the equity method. NTIC assesses its joint ventures for impairment on an annual basis as of August 31 of each year as part of its fiscal year end analysis. In addition to the annual review for impairment, NTIC reviews the operating results of each joint venture on a quarterly basis in comparison to its historical operating results and its accrual for fees for services provided to joint ventures. If the operating results of a joint venture do not meet NTIC's financial performance expectations, an additional evaluation is performed on the joint venture. In addition to the annual assessments for impairment, non-periodic assessments for impairment may occur if cash remittances are less than accrued balances, a joint venture's management requests capital, or other events occur suggesting anything other than temporary decline in value. If an investment were determined to be impaired, then a reserve would be created to reflect the impairment on the financial results of NTIC. NTIC's evaluation of its investments in joint ventures requires NTIC to make assumptions about future cash flows of its joint ventures. These assumptions require significant judgment, and actual results may differ from assumed or estimated amounts.

#### ***Investment at Carrying Value***

If NTIC is no longer able to exercise significant influence over operating and financial policy of a joint venture previously accounted for under the equity method, it maintains the investment at the carrying value as of the date that significant influence no longer exists and discontinues accruing the proportionate earnings or losses of the investment.

Investments are considered to be impaired when a decline in fair value is judged to be other-than-temporary. Fair value is calculated based on publicly available market information or other estimates determined by management. NTIC employs a systematic methodology on a quarterly basis that considers available quantitative and qualitative evidence in evaluating potential impairment of its investments. If the cost of an investment exceeds its fair value, NTIC evaluates, among other factors, general market conditions, credit quality of debt instrument issuers, the duration and extent to which the fair value is less than cost, and for equity securities, its intent and ability to hold, or plans to sell, the investment. NTIC also considers specific adverse conditions related to the financial health of and business outlook for the investee, including industry and sector performance, changes in technology, and operational and financing cash flow factors. Once a decline in fair value is determined to be other-than-temporary, an impairment charge is recorded to other income (expense), and a new cost basis in the investment is established.

#### ***Revenue Recognition***

Revenue is measured based on consideration specified in the contract with a customer, adjusted for any applicable estimates of variable consideration and other factors affecting the transaction price, including noncash consideration, consideration paid or payable to customers, and significant financing components. While most of the Company's revenue is contracted with customers through one-time purchase orders and short-term contracts, the Company does have long-term arrangements with certain customers. Revenue from all customers is recognized when a performance obligation is satisfied by transferring control of a distinct good or service to a customer. The transaction price for the Company's products is the invoiced amount. Revenue is recognized when transfer of control occurs as defined by the terms in the customer agreement, generally upon shipment of product.

With respect to recording revenue related to fees earned for services provided to NTIC's joint ventures, amounts are earned when product is shipped from joint venture facilities, at which point a sale is deemed to have occurred and results in obligation for the joint venture to pay the royalty and recognition of the fee by the Company. The support and services NTIC provides its joint ventures include consulting, travel, insurance, technical and marketing services to existing joint ventures, legal fees incurred in the establishment of new joint ventures, registration and promotion and legal defense of worldwide trademarks, and legal fees incurred in connection with the filing of patent applications based on licensing or other agreements with its joint ventures. NTIC receives fees for the services it provides to its joint ventures based primarily on the net sales by NTIC's joint ventures. The fees for support services received by NTIC from its joint ventures are generally determined based on either a flat fee or a percentage of net sales by NTIC's joint ventures depending on local laws and tax regulations. Under NTIC's agreements with its joint ventures, amounts are earned when product is shipped from joint venture facilities. NTIC reviews the financial situation of each of its joint ventures to assist in the likelihood of collections on amounts earned. NTIC elects to account for these fees on a cash basis for certain joint ventures when uncertainty exists surrounding the collections of such fees.

## ***Accounts Receivable***

Trade receivables arise from sales of NTIC's products and services to NTIC's joint ventures and to unaffiliated customers. Trade receivables from joint ventures arise from sales NTIC makes to its joint ventures of products and the essential additives required to make ZERUST<sup>®</sup> industrial corrosion inhibiting products functional. Receivables for services to NTIC's joint ventures are contractually based primarily on a percentage of the sales of the joint ventures and are intended to compensate NTIC for services NTIC provides to its joint ventures, including consulting, legal, travel, insurance, technical, and marketing services.

Payment terms for NTIC's unaffiliated customers are determined based on credit risk and vary by customer. NTIC typically offers standard payment terms of net 30 days to unaffiliated customers. Payment terms for NTIC's joint ventures also are determined based on credit risk; however, additional consideration is given to the individual joint venture due to the transportation time associated with ocean delivery of most products and certain other factors. NTIC typically offers payment terms to joint ventures of net 90 days. NTIC does not accrue interest on past due accounts receivable. NTIC reviews the credit histories of its customers, including its joint ventures, before extending unsecured credit. NTIC values accounts and notes receivable net of an allowance for doubtful accounts. Each quarter, NTIC prepares an analysis of its ability to collect outstanding receivables that provides a basis for an allowance estimate for doubtful accounts. In doing so, NTIC evaluates the age of its receivables, past collection history, current financial conditions of key customers and its joint ventures, and economic conditions. Based on this evaluation, NTIC establishes a reserve for specific accounts and notes receivable that it believes are uncollectible, as well as an estimate of uncollectible receivables not specifically known. Deterioration in the financial condition of any key customer or joint venture or a significant slowdown in the economy could have a material negative impact on NTIC's ability to collect a portion or all of the accounts and notes receivable. NTIC believes that an analysis of historical trends and its current knowledge of potential collection problems provide NTIC with sufficient information to establish a reasonable estimate for an allowance for doubtful accounts. However, since NTIC cannot predict with certainty future changes in the financial stability of its customers or joint ventures, NTIC's actual future losses from uncollectible accounts may differ from its estimates. In the event NTIC determined that a smaller or larger uncollectible accounts reserve is appropriate, NTIC would record a credit or charge to selling expense in the period that it made such a determination.

## ***Recoverability of Long-Lived Assets***

NTIC reviews its long-lived assets whenever events or changes in circumstances indicate the carrying amount of the assets may not be recoverable and determines potential impairment by comparing the carrying value of the assets with expected net cash flows expected to be provided by operating activities of the business or related products. If the sum of the expected undiscounted future net cash flows were less than the carrying value, NTIC would determine whether an impairment loss should be recognized. An impairment loss would be measured by comparing the amount by which the carrying value exceeds the fair value of the asset.

## ***Foreign Currency Translation (Accumulated Other Comprehensive Loss)***

The functional currency of each international joint venture and subsidiary is the applicable local currency. The translation of the applicable foreign currencies into U.S. dollars is performed for balance sheet accounts using exchange rates in effect at the balance sheet date and for revenue and expense accounts using an average monthly exchange rate. Translation gains or losses are reported as an element of accumulated other comprehensive (loss) income.

NTIC (excluding NTIC China, Zerust Brazil, Natur-Tec India, Natur-Tec Lanka, NTI Asean, Zerust Singapore, Zerust Vietnam, Zerust Mexico, NTI Europe, and NTIC's joint ventures) conducts all foreign transactions based on the U.S. dollar. Since NTIC's investments in its joint ventures are accounted for using the equity method, any changes in foreign currency exchange rates would be reflected as a foreign currency translation adjustment and would not change the equity in income from joint ventures reflected in NTIC's consolidated statements of operations.

## ***Stock-Based Compensation***

NTIC recognizes compensation cost relating to share-based payment transactions, including grants of employee stock options and transactions under NTIC's employee stock purchase plan, in its consolidated financial statements. That cost is measured based on the fair value of the equity or liability instruments issued. NTIC measures the cost of employee services received in exchange for stock options or other stock-based awards based on the grant-date fair value of the award and recognizes the cost over the period the employee is required to provide services for the award.

### ***Inventory Valuation***

NTIC's inventories consist primarily of production materials and finished goods. NTIC purchases production materials and finished goods based on forecasted demand and records inventory at the lower of cost or net realizable value. Cost is determined by the first-in, first-out (FIFO) method. Management regularly assesses inventory valuation based on current and forecasted usage, demand and pricing, shelf life, customer inventory-related contractual obligations, and other considerations. If actual results differ from management estimates with respect to the actual or projected selling of inventories at amounts less than their carrying amounts, NTIC would adjust its inventory balances accordingly.

### ***Income Taxes***

NTIC utilizes the asset and liability method of accounting for income taxes, which requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the consolidated financial statements. Deferred income tax assets and liabilities are determined based on the differences between the financial statement and tax basis of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to reverse. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in operations in the period that includes the enactment date.

NTIC records net deferred tax assets to the extent NTIC believes these assets will more likely than not be realized. In making such a determination, NTIC considers all available positive and negative evidence, including future reversals of existing taxable temporary differences, projected future taxable income, tax-planning strategies, and results of recent operations, including the prior three-year history. In the event NTIC determines that it would be able to realize its deferred income tax assets in the future in excess of their net recorded amount, NTIC makes an adjustment to the deferred tax asset valuation allowance, which would reduce the provision for income taxes.

### ***Recent Accounting Pronouncements***

See Note 2 to NTIC's consolidated financial statements for a discussion of recent accounting pronouncements.

**Item 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK**

NTIC is exposed to some market risk stemming from changes in foreign currency exchange rates, commodity prices, and interest rates.

Because the functional currency of NTIC's foreign operations and investments in its foreign joint ventures is the applicable local currency, NTIC is exposed to foreign currency exchange rate risk arising from transactions in the normal course of business. NTIC's principal exchange rate exposure is with the Euro, the Japanese Yen, the Indian Rupee, the Chinese Renminbi, the South Korean Won, and the English Pound against the U.S. Dollar. NTIC's fees for services provided to joint ventures and dividend distributions from these foreign entities are paid in foreign currencies, and, thus, fluctuations in foreign currency exchange rates could result in declines in NTIC's reported net income. Since NTIC's investments in its joint ventures are accounted for using the equity method, any changes in foreign currency exchange rates would be reflected as a foreign currency translation adjustment and would not change NTIC's equity in income from joint ventures reflected in its consolidated statements of operations. NTIC does not hedge against its foreign currency exchange rate risk.

Some raw materials used in NTIC's products are exposed to commodity price changes. The primary commodity price exposures are with a variety of plastic resins.

At the option of NTIC, outstanding advances under NTIC's \$3,000,000 revolving line of credit with PNC Bank bear interest at either (a) an annual rate based on LIBOR plus 2.15% for the applicable LIBOR interest period selected by NTIC or (b) at the rate publicly announced by PNC Bank from time to time as its prime rate and, thus, may subject NTIC to some market risk on interest rates. As of August 31, 2020, NTIC had no borrowings under the line of credit.

**Item 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA**

**INDEX TO CONSOLIDATED FINANCIAL STATEMENTS**

The following items are included herein:

	<u>Page</u>
<a href="#"><u>Report of Independent Registered Public Accounting Firm</u></a>	<a href="#"><u>50</u></a>
<a href="#"><u>Consolidated Balance Sheets as of August 31, 2020 and 2019</u></a>	<a href="#"><u>51</u></a>
<a href="#"><u>Consolidated Statements of Operations for the years ended August 31, 2020 and 2019</u></a>	<a href="#"><u>52</u></a>
<a href="#"><u>Consolidated Statements of Comprehensive (Loss) Income for the years ended August 31, 2020 and 2019</u></a>	<a href="#"><u>53</u></a>
<a href="#"><u>Consolidated Statements of Equity for the years ended August 31, 2020 and 2019</u></a>	<a href="#"><u>54</u></a>
<a href="#"><u>Consolidated Statements of Cash Flows for the years ended August 31, 2020 and 2019</u></a>	<a href="#"><u>55</u></a>
<a href="#"><u>Notes to Consolidated Financial Statements</u></a>	<a href="#"><u>56-76</u></a>

## REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the board of directors of Northern Technologies International Corporation and Subsidiaries:

### Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Northern Technologies International Corporation and Subsidiaries (the "Company") as of August 31, 2020 and 2019, the related consolidated statements of operations, comprehensive income (loss), equity, and cash flows, for each of the two years in the period ended August 31, 2020, and the related notes (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of August 31, 2020 and 2019, and the results of its operations and its cash flows for each of the two years in the period ended August 31, 2020, in conformity with accounting principles generally accepted in the United States of America.

### Basis for Opinion

These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's consolidated financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) ("PCAOB") and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Baker Tilly US, LLP (formerly known as Baker Tilly Virchow Krause, LLP)

We have served as the Company's auditor since 2004.

Minneapolis, Minnesota  
November 13, 2020

**NORTHERN TECHNOLOGIES INTERNATIONAL CORPORATION  
AND SUBSIDIARIES  
CONSOLIDATED BALANCE SHEETS - AUGUST 31, 2020 AND 2019**

	<u>August 31, 2020</u>	<u>August 31, 2019</u>
<b>ASSETS</b>		
CURRENT ASSETS:		
Cash and cash equivalents	\$ 6,403,032	\$ 5,856,758
Available for sale securities	5,544,722	3,565,258
Receivables:		
Trade excluding joint ventures, less allowance for doubtful accounts of \$90,000 as of August 31, 2020 and \$65,000 as of August 31, 2019	8,072,212	9,779,518
Trade joint ventures	475,900	824,473
Fees for services provided to joint ventures	927,286	1,268,000
Income taxes	19,907	457,018
Inventories	10,961,796	10,488,728
Prepaid expenses	797,495	1,062,609
Total current assets	<u>33,202,350</u>	<u>33,302,362</u>
PROPERTY AND EQUIPMENT, NET	<u>7,110,789</u>	<u>7,358,159</u>
OTHER ASSETS:		
Investments in joint ventures	24,090,826	24,207,339
Deferred income taxes	209,729	1,634,258
Patents and trademarks, net	802,006	1,008,969
Operating lease right of use asset	658,788	—
Total other assets	<u>25,761,349</u>	<u>26,850,566</u>
Total assets	<u>\$ 66,074,488</u>	<u>\$ 67,511,087</u>
<b>LIABILITIES AND EQUITY</b>		
CURRENT LIABILITIES:		
Accounts payable	\$ 3,205,241	\$ 4,505,531
Income taxes payable	310,922	6,759
Accrued liabilities:		
Payroll and related benefits	1,314,978	1,857,971
Other	880,118	1,471,532
Current portion of operating lease	386,345	—
Total current liabilities	<u>6,097,604</u>	<u>7,841,793</u>
LONG-TERM LIABILITIES:		
Operating lease, less current portion	272,443	—
Total long-term liabilities	<u>272,443</u>	<u>—</u>
COMMITMENTS AND CONTINGENCIES (Note 15)		
EQUITY:		
Preferred stock, no par value; authorized 10,000 shares; none issued and outstanding	—	—
Common stock, \$0.02 par value per share; authorized 15,000,000 shares as of August 31, 2020 and August 31, 2019; issued and outstanding 9,099,990 and 9,086,816, respectively	182,000	181,736
Additional paid-in capital	17,415,043	16,013,338
Retained earnings	42,472,810	44,992,719
Accumulated other comprehensive loss	(3,410,438)	(4,593,178)
Stockholders' equity	<u>56,659,415</u>	<u>56,594,615</u>
Non-controlling interests	3,045,026	3,074,679
Total equity	<u>59,704,441</u>	<u>59,669,294</u>
Total liabilities and equity	<u>\$ 66,074,488</u>	<u>\$ 67,511,087</u>

See notes to consolidated financial statements.

**NORTHERN TECHNOLOGIES INTERNATIONAL CORPORATION  
AND SUBSIDIARIES  
CONSOLIDATED STATEMENTS OF OPERATIONS  
YEARS ENDED AUGUST 31, 2020 AND 2019**

	<u>2020</u>	<u>2019</u>
<b>NET SALES:</b>		
Net sales, excluding joint ventures	\$ 45,666,045	\$ 53,142,583
Net sales, to joint ventures	1,972,646	2,607,554
Total net sales	47,638,691	55,750,137
Cost of goods sold	31,609,274	37,970,244
Gross profit	16,029,417	17,779,893
<b>JOINT VENTURE OPERATIONS:</b>		
Equity in income from joint ventures	4,270,327	7,225,518
Fees for services provided to joint ventures	4,612,885	5,727,579
Total joint venture operations	8,883,212	12,953,097
<b>OPERATING EXPENSES:</b>		
Selling expenses	10,656,689	10,968,592
General and administrative expenses	8,688,309	9,349,559
Research and development expenses	3,979,455	3,822,070
Total operating expenses	23,324,453	24,140,221
<b>OPERATING INCOME</b>	1,588,176	6,592,769
<b>INTEREST INCOME</b>	167,733	78,257
<b>INTEREST EXPENSE</b>	(16,034)	(13,567)
<b>INCOME BEFORE INCOME TAX EXPENSE</b>	1,739,875	6,657,459
<b>INCOME TAX EXPENSE</b>	2,674,635	841,837
<b>NET (LOSS) INCOME</b>	(934,760)	5,815,622
<b>NET INCOME ATTRIBUTABLE TO NON-CONTROLLING INTERESTS</b>	402,949	606,000
<b>NET (LOSS) INCOME ATTRIBUTABLE TO NTIC</b>	\$ (1,337,709)	\$ 5,209,622
<b>NET (LOSS) INCOME ATTRIBUTABLE TO NTIC PER COMMON SHARE:</b>		
Basic	\$ (0.15)	\$ 0.57
Diluted	\$ (0.15)	\$ 0.55
<b>WEIGHTED AVERAGE COMMON SHARES ASSUMED OUTSTANDING:</b>		
Basic	9,096,981	9,085,584
Diluted	9,096,981	9,415,974
<b>CASH DIVIDENDS DECLARED PER COMMON SHARE</b>	\$ 0.13	\$ 0.24

\*Share and per share data have been adjusted for all periods presented to reflect the two-for-one stock split effective June 28, 2019.

See notes to consolidated financial statements.

**NORTHERN TECHNOLOGIES INTERNATIONAL CORPORATION  
AND SUBSIDIARIES  
CONSOLIDATED STATEMENTS OF COMPREHENSIVE (LOSS) INCOME  
YEARS ENDED AUGUST 31, 2020 AND 2019**

	<u>2020</u>	<u>2019</u>
NET (LOSS) INCOME	\$ (934,760)	\$ 5,815,622
OTHER COMPREHENSIVE INCOME (LOSS) – FOREIGN CURRENCY TRANSLATION ADJUSTMENT	1,150,138	(1,003,643)
COMPREHENSIVE INCOME	215,378	4,811,979
COMPREHENSIVE LOSS ATTRIBUTABLE TO NON-CONTROLLING INTERESTS	(370,347)	(598,336)
COMPREHENSIVE (LOSS) INCOME ATTRIBUTABLE TO NTIC	\$ (154,969)	\$ 4,213,643

See notes to consolidated financial statements.

**NORTHERN TECHNOLOGIES INTERNATIONAL CORPORATION  
AND SUBSIDIARIES  
CONSOLIDATED STATEMENTS OF EQUITY  
YEARS ENDED AUGUST 31, 2020 AND 2019**

	STOCKHOLDERS' EQUITY						
	Common Stock		Additional Paid-in Capital	Retained Earnings	Accumulated Other Comprehensive Loss	Non- Controlling Interests	Total Equity
	Shares	Amount					
BALANCE AT AUGUST 31, 2018	9,082,606	181,652	14,528,951	41,963,341	(3,597,199)	2,742,309	55,819,054
Stock issued for employee stock purchase plan	4,210	84	52,462	—	—	—	52,546
Stock option expense	—	—	1,431,925	—	—	—	1,431,925
Investment by non-controlling Interest	—	—	—	—	—	134,034	134,034
Dividends paid to stockholders	—	—	—	(2,180,244)	—	—	(2,180,244)
Dividend received by non-controlling interest	—	—	—	—	—	(400,000)	(400,000)
Net income	—	—	—	5,209,622	—	606,000	5,815,622
Other comprehensive loss	—	—	—	—	(995,979)	(7,664)	(1,003,643)
BALANCE AT AUGUST 31, 2019	9,086,816	\$ 181,736	\$ 16,013,338	\$ 44,992,719	\$ (4,593,178)	\$ 3,074,679	\$ 59,669,294
Stock options exercised	6,823	137	(137)	—	—	—	—
Stock issued for employee stock purchase plan	6,351	127	64,068	—	—	—	64,195
Stock option expense	—	—	1,337,774	—	—	—	1,337,774
Dividends paid to stockholders	—	—	—	(1,182,200)	—	—	(1,182,200)
Dividend received by non-controlling interest	—	—	—	—	—	(400,000)	(400,000)
Net (loss) income	—	—	—	(1,337,709)	—	402,949	(934,760)
Other comprehensive income (loss)	—	—	—	—	1,182,740	(32,602)	1,150,138
BALANCE AT AUGUST 31, 2020	9,099,990	\$ 182,000	\$ 17,415,043	\$ 42,472,810	\$ (3,410,438)	\$ 3,045,026	\$ 59,704,441

\*Share and per share data have been adjusted for all periods presented to reflect the two-for-one stock split effective June 28, 2019.

See notes to consolidated financial statements.

**NORTHERN TECHNOLOGIES INTERNATIONAL CORPORATION  
AND SUBSIDIARIES  
CONSOLIDATED STATEMENTS OF CASH FLOWS  
FOR THE YEARS ENDED AUGUST 31, 2020 AND 2019**

	2020	2019
<b>CASH FLOWS FROM OPERATING ACTIVITIES:</b>		
Net (loss) income	\$ (934,760)	\$ 5,815,622
Adjustments to reconcile net (loss) income to net cash provided by operating activities:		
Stock-based compensation	1,337,774	1,431,925
Depreciation expense	836,601	841,236
Amortization expense	231,624	261,724
Change in allowance for doubtful accounts	25,000	—
Equity in income from joint ventures	(4,270,327)	(7,225,518)
Dividends received from joint ventures	5,672,099	5,039,041
Loss (gain) on disposal of property and patents	173,810	(36,098)
Deferred income taxes	1,424,529	(89,637)
Changes in current assets and liabilities:		
Receivables:		
Trade, excluding joint ventures	1,680,611	(50,315)
Trade, joint ventures	348,573	(62,967)
Fees for services provided to joint ventures	340,714	89,255
Income taxes	424,002	(189,226)
Inventories	(435,712)	(1,486,833)
Prepaid expenses and other	279,312	744,323
Accounts payable	(1,229,510)	682,786
Income tax payable	302,641	(65,344)
Accrued liabilities	(1,294,911)	(222,952)
Net cash provided by operating activities	<u>4,912,070</u>	<u>5,477,022</u>
<b>CASH FLOWS FROM INVESTING ACTIVITIES:</b>		
Proceeds from the sale of property and equipment	2,190	—
Purchase of available for sale securities	(4,000,000)	(3,365,146)
Proceeds from the sale of available for sale securities	2,020,536	3,100,000
Purchases of property and equipment	(711,412)	(960,339)
Investments in patents	(95,996)	(114,436)
Net cash used in investing activities	<u>(2,784,682)</u>	<u>(1,339,921)</u>
<b>CASH FLOWS FROM FINANCING ACTIVITIES:</b>		
Dividend received by non-controlling interest	(400,000)	(400,000)
Investment by non-controlling interest	—	134,034
Dividends paid on NTIC common stock	(1,182,200)	(2,180,244)
Proceeds from employee stock purchase plan	64,195	52,546
Proceeds from exercise of stock options	—	—
Net cash used in financing activities	<u>(1,518,005)</u>	<u>(2,393,664)</u>
<b>EFFECT OF EXCHANGE RATE CHANGES ON CASH AND CASH EQUIVALENTS</b>	<u>(63,109)</u>	<u>(49,702)</u>
<b>NET INCREASE IN CASH AND CASH EQUIVALENTS</b>	<u>546,274</u>	<u>1,693,735</u>
<b>CASH AND CASH EQUIVALENTS AT BEGINNING OF YEAR</b>	<u>5,856,758</u>	<u>4,163,023</u>
<b>CASH AND CASH EQUIVALENTS AT END OF YEAR</b>	<u>\$ 6,403,032</u>	<u>\$ 5,856,758</u>

See notes to consolidated financial statements.

**NORTHERN TECHNOLOGIES INTERNATIONAL CORPORATION  
AND SUBSIDIARIES  
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS  
YEARS ENDED AUGUST 31, 2020 AND 2019**

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**1. NATURE OF BUSINESS AND SIGNIFICANT ACCOUNTING POLICIES**

*Nature of Business* – Northern Technologies International Corporation and its Subsidiaries (collectively, the Company) develop and market proprietary environmentally beneficial products and services in over 60 countries either directly or via a network of joint ventures, independent distributors, and agents. The Company’s primary business is corrosion prevention marketed mainly under the ZERUST® brand. The Company has been selling its proprietary ZERUST® rust and corrosion inhibiting products and services to the automotive, electronics, electrical, mechanical, military, and retail consumer markets for over 40 years and, more recently, has targeted and expanded into the oil and gas industry. The Company also sells a portfolio of bio-based and certified compostable (fully biodegradable) polymer resin compounds and finished products under the Natur-Tec® brand. These products are intended to reduce the Company’s customers’ carbon footprint and provide environmentally sound disposal options. The Company’s two operating segments are ZERUST and Natur-Tec.

The Company participates, either directly or indirectly, in 19 active joint venture arrangements in North America, Europe, and Asia. Each of these joint ventures generally manufactures and markets products in the geographic territory to which it is assigned. While most of the Company’s joint ventures exclusively sell rust and corrosion inhibiting products, some of the joint ventures also sell the Company’s Natur-Tec® resin compounds and finished products. The profits of joint ventures are shared by the respective joint venture owners in accordance with their respective ownership percentages. The Company typically owns 50% or less of its joint venture entities and does not control the decisions of these entities, including dividend declaration or amount in any given year.

*Impact of COVID-19 Pandemic* – In March 2020, the World Health Organization declared the novel coronavirus (COVID-19) outbreak a global pandemic. As a result of the COVID-19 pandemic and related government mandated restrictions on the Company’s business as well as the businesses of its joint ventures, customers and suppliers, disruption to the Company’s business and the manufacture and sale of its products and services has occurred and is expected to continue into fiscal 2021.

*Principles of Consolidation* – NTIC evaluates its voting and variable interests in entities on a qualitative and quantitative basis. NTIC consolidates entities in which it concludes it has the power to direct the activities that most significantly impact an entity’s economic success and has the obligation to absorb losses or the right to receive benefits that could be significant to the entity. The consolidated financial statements include the accounts of Northern Technologies International Corporation, its wholly-owned subsidiaries, Northern Technologies Holding Company, LLC, NTIC (Shanghai) Co., Ltd. (NTIC China), ZERUST-EXCOR MEXICO, S. de R.L. de C.V (Zerust Mexico), NTIC Europe GmbH (NTI Europe), NTIC’s majority-owned subsidiary in India, Natur-Tec India Private Limited (Natur-Tec India), NTIC’s majority-owned subsidiary in Brazil, Zerust Prevenção de Corrosão S.A. (Zerust Brazil), NTIC’s majority-owned subsidiary in Sri Lanka, Natur Tec Lanka (Pvt) Ltd (Natur Tec Lanka), and NTIC’s majority-owned holding company, NTI Asean LLC (NTI Asean), Zerust Singapore Pte Ltd (Zerust Singapore) and Zerust Vietnam Co. Ltd (Zerust Vietnam). NTIC’s consolidated financial statements do not include the accounts of any of its joint ventures.

*Non-Controlling Interests* – The Company owns 75% of Natur-Tec India, 75% of Natur Tec Lanka, 85% of Zerust Brazil, 60% of NTI Asean, 60% of Zerust Singapore Pte Ltd, and 60% of Zerust Vietnam Co. Ltd. The remaining ownership of the consolidated entities are accounted for as non-controlling interests and reported as part of equity in the consolidated financial statements. The Company allocates gains and losses to the non-controlling interest even when such allocation results in a deficit balance, reducing the losses attributed to the controlling interest. Changes in ownership interests are treated as equity transactions if the Company maintains control.

*Net Sales* – The Company includes net sales to its joint ventures and net sales to unaffiliated customers as separate line items on its consolidated statements of operations. There are no sales originating from the Company’s joint ventures included in the amount, as the Company’s investments in its joint ventures are accounted for using the equity method.

In May 2014, the Financial Accounting Standards Board (FASB) issued guidance creating Accounting Standards Codification (ASC) Section 606, *Revenue from Contracts with Customers* (ASC 606), which establishes a comprehensive new model for the recognition of revenue from contracts with customers. This model is based on the core principle that revenue should be recognized to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services.

On September 1, 2018, the Company adopted ASC 606 for all customer contracts using the modified retrospective method. To determine revenue recognition for arrangements within the scope of ASC 606, the Company performs the following five steps: (1) identify the contracts with a customer; (2) identify the performance obligations in the contract; (3) determine the transaction price; (4) allocate the transaction price to the performance obligations in the contract; and (5) recognize revenue when or as the entity satisfies a performance obligation. The Company only applies the five-step model to contracts when it is probable that the entity will collect the consideration it is entitled to in exchange for the goods it transfers to, or services it performs for, the customer.

The adoption of ASC 606 did not impact the previously reported financial statements in any prior period or result in a cumulative effect adjustment to retained earnings. Therefore, the adoption of the standard did not impact the Company's revenue recognition process. Generally, the Company's performance obligations are satisfied when the customers take possession of the products, which normally occurs at the shipping point or destination depending on the terms of the contracts. The Company's services are generally sold based upon quotes or contracts with customers that include a fixed or determinable price, and sales arrangements do not contain any significant financing component for its customers. The Company does not recognize revenue related to product warranties, nor does the Company incur significant contract costs. Customer arrangements do not generate contract assets or liabilities.

Changes to the Company's significant accounting policies as a result of adopting ASC 606 are discussed below.

*Revenue Recognition* – Revenue is measured based on consideration specified in the contract with a customer, adjusted for any applicable estimates of variable consideration and other factors affecting the transaction price, including noncash consideration, consideration paid or payable to customers, and significant financing components. Revenue from all customers is recognized when a performance obligation is satisfied by transferring control of a distinct good or service to a customer.

Individually promised goods and services in a contract are considered a distinct performance obligation and accounted for separately if the customer can benefit from the individual good or service on its own or with other resources that are readily available to the customer and the good or service is separately identifiable from other promises in the arrangement. When an arrangement includes multiple performance obligations, the consideration is allocated between the performance obligations in proportion to their estimated standalone selling price. Costs related to products delivered are recognized in the period incurred, unless criteria for capitalization of costs are met. Costs of revenues consist primarily of direct labor, manufacturing overhead, materials, and components. The Company does not incur significant upfront costs to obtain a contract. If costs to obtain a contract were to become material, the costs would be recorded as an asset and amortized to expense in a manner consistent with the related recognition of revenue.

The Company excludes government assessed and imposed taxes on revenue generating transactions that are invoiced to customers from revenue. The Company includes freight billed to customers in revenue. Shipping and handling costs associated with outbound freight after control over a product has transferred to a customer are accounted for as a fulfillment cost and are included in cost of goods sold.

The timing of revenue recognition, billing, and cash collections results in accounts receivable on the consolidated balance sheet.

*Performance Obligations* - A performance obligation is a promise in a contract to transfer a distinct good or service to the customer. A contract's transaction price is allocated to each distinct performance obligation in proportion to its standalone selling price and recognized as revenue when, or as, the performance obligation is satisfied. The Company's various performance obligations and the timing or method of revenue recognition are discussed below. The Company's technical service consultants work directly with the end users of NTIC's ZERUST® rust and corrosion inhibiting products to analyze their specific needs and develop systems to meet their performance requirements.

The Company sells its products to both distributors and end-users. Each unit of product delivered under a customer order represents a distinct and separate performance obligation, as the customer can benefit from each unit on its own or with other resources that are readily available to the customer, and each unit of product is separately identifiable from other products in the arrangement.

The transaction price for the Company's products is the invoiced amount. The Company does not have variable consideration in the form of refunds, credits, rebates, price concessions, pricing incentives, or other items impacting transaction price. The purchase order pricing in arrangements with customers is deemed to approximate standalone selling price; therefore, the Company does not need to allocate proceeds on a relative standalone selling price allocation between performance obligations. The Company applies the practical expedient in paragraph 606-10-50-14 and does not disclose information about remaining performance obligations that have original expected durations of one year or less. There are no material obligations that extend beyond one year.

Revenue is recognized when transfer of control occurs, as defined by the terms in the customer agreement. The Company immediately recognizes incidental items that are immaterial in the context of the contract. The Company has applied the practical expedient in paragraph 606-10-25-16A and does not assess if immaterial items are promised goods or services. The Company has also applied the practical expedient in paragraph 606-10-32-18 regarding the adjustment of the promised amount of consideration for the effects of a significant financing component when the customer pays for that good or service within one year or less, as the Company does not have any significant financing components in its customer arrangements since payment is received at or shortly after the point of sale, generally thirty to ninety days.

The Company estimates returns based on an analysis of historical experience if the right to return products is granted to its customers. The Company does not record a return asset, as non-conforming products are generally not returned. The Company's return policy does not vary by geography. The customer has no rotation or price protection rights, and the Company is not under a warranty obligation.

*Sales Commissions* – Sales commissions paid to sales representatives are eligible for capitalization, as they are incremental costs that would not have been incurred without entering into a specific sales arrangement and are recoverable through the expected margin on the transaction. The Company has elected to apply the practical expedient provided by ASC 340-40-25-4 and recognize the incremental costs of obtaining contracts as an expense when incurred, as the amortization period of the assets that would have otherwise been recognized is one year or less. The Company records these costs as a selling expense.

*Product Warranty* – The Company offers warranties on various products and services. These warranties are assurance type warranties that are not sold on a standalone basis; therefore, they are not considered distinct performance obligations. The Company estimates the costs that may be incurred under its warranties and records a liability in the amount of such costs at the time the revenue is recognized for the product sale.

*International Revenue* – The Company markets its products to numerous countries in North America, Europe, Latin America, Asia, and other parts of the world. See Note 11, Segment and Geographical Information, for information regarding revenue disaggregation by geography.

*Trade Receivables* – Payment terms for the Company's unaffiliated customers are determined based on credit risk and vary by customer. The Company typically offers standard payment terms to unaffiliated customers of net 30 days. The Company does not accrue interest on past due accounts receivable. The Company reviews the credit histories of its customers before extending unsecured credit. The Company presents accounts and notes receivable net of an allowance for doubtful accounts. Each quarter, the Company prepares an analysis of its ability to collect outstanding receivables that provides a basis for an allowance estimate for doubtful accounts. In doing so, the Company evaluates the age of its receivables, past collection history, current financial conditions of key customers and its joint ventures, and economic conditions. Based on this evaluation, the Company establishes a reserve for specific accounts and notes receivable that it believes are uncollectible, as well as an estimate of uncollectible receivables not specifically known. The Company believes that an analysis of historical trends and its current knowledge of potential collection problems provide the Company with sufficient information to establish a reasonable estimate for an allowance for doubtful accounts. In the event the Company determines that a smaller or larger uncollectible accounts reserve is appropriate, the Company records a credit or charge to selling expense in the period that it made such determination. Accounts receivable have been reduced by an allowance for uncollectible accounts of \$90,000 as of August 31, 2020 and \$65,000 as of August 31, 2019. Accounts are considered past due based on terms agreed upon between the Company and the customer. Accounts receivable are written-off only after all collection attempts have failed and are based on individual credit evaluation and specific circumstances of the customer.

*Trade Receivables from Joint Ventures* – Trade receivables from joint ventures arise from sales of products the Company makes to its joint ventures. Payment terms for the Company’s joint ventures also are determined based on credit risk; however, additional consideration is given to the individual joint venture due to the transportation time associated with ocean delivery of most products and certain other factors. Generally, accounts receivable from the Company’s joint ventures unpaid after 90 days are considered past due. The Company does not accrue interest on past due balances. The Company periodically reviews amounts due from its joint ventures for collectability and, based on past experience and continuous review of the balances due, determined that an allowance for doubtful accounts related to its joint venture receivables was not necessary as of August 31, 2020 or 2019.

*Fees for Services Provided to Joint Ventures* – The Company provides services to its joint ventures including consulting, legal, travel, insurance, technical, and marketing services based on licensing or other agreements with its joint ventures. The Company receives fees for the services it provides to its joint ventures. The fees for services received by the Company from its joint ventures are generally based on either a flat fee or a percentage of net sales by the Company’s joint ventures depending on local laws and tax regulations. Under the Company’s agreements with its joint ventures, amounts are earned when product is shipped from joint venture facilities, at which point a sale is deemed to have occurred and results in obligation for the joint venture to pay the royalty and recognition of the fee by the Company. The Company reviews the financial situation of each of its joint ventures to assist in the likelihood of collections on amounts earned. The Company accounts for these fees on a cash basis if uncertainty exists surrounding the collection of such fees.

*Cash and Cash Equivalents* – The Company includes as cash and cash equivalents highly liquid, short-term investments with maturity of three months or less when purchased, which are readily convertible into known amounts of cash. The Company maintains its cash in high quality financial institutions. The balances, at times, may exceed federally insured limits.

*Available for Sale Securities* – Available for sale securities are recorded at fair value. Unrealized holding gains and losses on available for sale securities are not significant.

*Inventories* – Inventories are recorded at the lower of cost (first-in, first-out basis) or net realizable value.

*Property and Depreciation* – Property and equipment are stated at cost. Depreciation is computed using the straight-line method based on the estimated service lives of the various assets as follows:

Buildings and improvements	5-30 years
Machinery and equipment	3-10 years

*Patents and Trademarks* – Patents and trademarks, including acquisition costs, are stated at cost, less accumulated amortization. Amortization is computed using the straight-line method over the estimated useful lives of the respective assets. Upon retirement, the cost of assets disposed and the related accumulated amortization are removed from the accounts, and any resulting gain or loss is credited or charged to operations.

*Investments in Joint Ventures* – Investments in the Company’s joint ventures are accounted for using the equity method. Under the equity method, investments are initially recorded at cost and are adjusted for dividends, distributed and undistributed earnings and losses, changes in foreign currency exchange rates, and additional investments. In the event the Company’s share of a joint venture’s cumulative losses exceeds the Company’s investment balance, the balance is reported at zero value until proportionate income exceeds the losses. The Company assesses its joint ventures for impairment on an annual basis as of August 31 of each year as part of its fiscal year end analysis. In addition to the annual review for impairment, the Company reviews the operating results of each joint venture on a quarterly basis in comparison to its historical operating results and its accrual of fees for services provided to joint ventures. If the operating results of a joint venture do not meet financial performance expectations, an additional evaluation is performed on the joint venture. The Company’s evaluation of its investments in joint ventures requires the Company to make assumptions about future cash flows of its joint ventures. These assumptions require significant judgment, and actual results may differ from assumed or estimated amounts. All investments in joint ventures had positive equity as of August 31, 2020 and 2019. The Company considers any of its joint ventures to be significant and discloses entity specific financial information if the joint venture’s income or assets make up more than 20% of the Company’s total assets or income.

The Company classifies distributions received from its joint ventures based on the nature of the distributions, generally, in operating activities on the consolidated statements of cash flows.

If the Company is no longer able to exercise significant influence over operating and financial policy of a joint venture previously accounted for under the equity method, it maintains the investment at the carrying value as of the date that significant influence no longer exists and discontinues accruing the proportionate earnings or losses of the investment.

Investments are considered to be impaired when a decline in fair value is judged to be other-than-temporary. Fair value is calculated based on publicly available market information or other estimates determined by management. The Company employs a systematic methodology on a quarterly basis that considers available quantitative and qualitative evidence in evaluating potential impairment of our investments. If the cost of an investment exceeds its fair value, the Company evaluates, among other factors, general market conditions, credit quality, the duration and extent to which the fair value is less than cost, and for equity securities, the Company's intent and ability to hold, or plans to sell, the investment. The Company also considers specific adverse conditions related to the financial health of and business outlook for the investee, including industry and sector performance, changes in technology, and operational and financing cash flow factors. Once a decline in fair value is determined to be other-than-temporary, an impairment charge is recorded to other income (expense), and a new cost basis in the investment is established.

*Recoverability of Long-Lived Assets* – The Company reviews its long-lived assets whenever events or changes in circumstances indicate the carrying amount of the assets may not be recoverable. The Company determines potential impairment by comparing the carrying value of the assets with expected net cash flows expected to be provided by operating activities of the business or related products. If the sum of the expected undiscounted future net cash flows is less than the carrying value, the Company evaluates whether an impairment loss should be recognized. An impairment loss is measured by comparing the amount by which the carrying value exceeds the fair value of the asset. When evaluating assets for impairment, the Company groups long-lived assets with other assets and liabilities at the lowest level for which identifiable cash flows are largely independent of the cash flows of other assets and liabilities.

*Income Taxes* – The Company utilizes the asset and liability method of accounting for income taxes, which requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the consolidated financial statements. Deferred income tax assets and liabilities are determined based on the differences between the financial statement and tax basis of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to reverse. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in operations in the period that includes the enactment date.

The Company records net deferred tax assets to the extent the Company believes these assets will more likely than not be realized. In making such a determination, the Company considers all available positive and negative evidence, including future reversals of existing taxable temporary differences, projected future taxable income, tax-planning strategies, and results of recent operations. In the event the Company determines that it would be able to realize its deferred assets in the future in excess of their net recorded amount, the Company makes an adjustment to the deferred tax asset valuation allowance, which would reduce the provision for income taxes.

The Company records uncertain tax positions on the basis of a two-step process whereby the Company determines whether it is more likely than not that the tax positions will be sustained based on the technical merits of the position and those tax positions that meet the more-likely-than-not recognition threshold. The Company recognizes the largest amount of tax benefit that is greater than 50 percent likely to be realized upon ultimate settlement with the related tax authority.

*Foreign Currency Translation (Accumulated Other Comprehensive Income (Loss))* – The functional currency of NTIC China, Zerust Brazil, Natur-Tec India, Natur Tec Lanka, Zerust Mexico, Zerust Singapore, Zerust Vietnam, NTI Europe, and each unconsolidated international joint venture is the applicable local currency. The translation of the applicable foreign currencies into U.S. dollars is performed for balance sheet accounts using exchange rates in effect at the balance sheet date and for revenue and expense accounts using an average monthly exchange rate. Translation gains or losses are reported as an element of other comprehensive income (loss).

The Company (excluding NTIC China, Zerust Brazil, Natur-Tec India, Natur Tec Lanka, Zerust Singapore, Zerust Vietnam, NTI Asean, Zerust Mexico, NTI Europe, and NTIC's joint ventures) conducts all foreign transactions based on the U.S. dollar. Since investments in joint ventures are accounted for using the equity method, any changes in foreign currency exchange rates are reflected as a foreign currency translation adjustment and do not change the equity in income from joint ventures reflected in the Company's consolidated statements of operations.

*Fair Value of Financial Instruments* – The carrying value of cash and cash equivalents, available for sale securities, short-term accounts and notes receivable, notes payable, trade accounts payables, and other accrued expenses approximate fair value because of the short maturity of those instruments.

*Shipping and Handling* – The Company records all amounts billed to customers in a sales transaction related to shipping and handling as sales. The Company records costs related to shipping and handling in cost of goods sold.

*Research and Development* – The Company expenses all costs related to product research and development as incurred.

*Common Stock* – The Company issues authorized but unissued shares of common stock upon the exercise of stock options.

*Stock Split* – On June 3, 2019, NTIC's Board of Directors declared a two-for-one stock split of NTIC's common stock effected in the form of a 100% share dividend distributed on June 28, 2019 to record holders as of June 17, 2019. Earnings and dividends declared per share and weighted average shares outstanding are presented in this report after the effect of the 100 percent stock dividend. The two-for-one stock split is retroactively reflected in the share amounts in all periods presented in this report.

*Stock-Based Compensation* – The Company recognizes compensation cost relating to share-based payment transactions, including grants of employee stock options and transactions under the Company's employee stock purchase plan, in its consolidated financial statements. That cost is measured based on the fair value of the equity or liability instruments issued. The Company measures the cost of employee services received in exchange for stock options and other stock-based awards based on the grant-date fair value of the award and recognizes the cost over the period the employee is required to provide services for the award (generally the vesting term).

*Subsequent Events* – The Company has evaluated events occurring after the date of the consolidated financial statements for events requiring disclosure in the consolidated financial statements.

*Use of Estimates* – The preparation of the consolidated financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent 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 could differ from those estimates.

## **2. ACCOUNTING PRONOUNCEMENTS**

### *New Accounting Pronouncements Adopted*

In February 2016, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) No. 2016-02, Leases. The guidance in ASU 2016-02 supersedes the lease recognition requirements in the Accounting Standards Codification (ASC) Topic 840, Leases. ASU 2016-02 requires an entity to recognize assets and liabilities arising from a lease for both financing and operating leases, along with additional qualitative and quantitative disclosures. This standard became effective for the Company on September 1, 2019.

In February 2018, the FASB issued ASU No. 2018-02, Income Statement – Reporting Comprehensive Income (Topic 220) Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income, which will allow a reclassification from accumulated other comprehensive income to retained earnings for the tax effects resulting from the Tax Cuts and Jobs Act (Tax Reform Act) that are stranded in accumulated other comprehensive income. This standard also requires certain disclosures about stranded tax effects. ASU No. 2018-02, however, does not change the underlying guidance that requires that the effect of a change in tax laws or rates be included in income from continuing operations. ASU No. 2018-02 was adopted by the Company commencing with first quarter of the Company's fiscal year 2020, and it did not have any impact on its consolidated financial statements.

The FASB has subsequently issued the following amendments to ASU 2016-02, which have the same effective date and transition date of September 1, 2019, and which are collectively referred to as the new leasing standards:

- ASU No. 2018-01, Leases (Topic 842): Land Easement Practical Expedient for Transition to Topic 842, which permits an entity to elect an optional transition practical expedient to not evaluate under Topic 842 land easements that existed or expired prior to adoption of Topic 842 and that were not previously accounted for as leases under the prior standard, ASC 840, Leases.
- ASU No. 2018-10, Codification Improvements to Topic 842, Leases, which amends certain narrow aspects of the guidance issued in ASU 2016-02.
- ASU No. 2018-11, Leases (Topic 842): Targeted Improvements, which allows for a transition approach to initially apply ASU 2016-02 at the adoption date and recognize a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption as well as an additional practical expedient for lessors to not separate non-lease components from the associated lease component.
- ASU No. 2018-20, Narrow-Scope Improvements for Lessors, which contains certain narrow scope improvements to the guidance issued in ASU 2016-02.

Additional information and disclosures required by this new standard are contained in Note 15, titled “Commitments and Contingencies.”

The Company adopted the new leasing standards on September 1, 2019, using a modified retrospective transition approach to be applied to leases existing as of, or entered into after, September 1, 2019; and, consequently, financial information will not be updated and the disclosures required under Topic 842 will not be provided for dates and periods prior to September 1, 2019. The Company has reviewed its existing lease contracts and the impact of the new leasing standards on its consolidated results of operations, financial position and disclosures. Upon adoption of the new leasing standards, the Company recognized a lease liability and related right-of-use asset on its consolidated balance sheet of approximately \$600,000 as of September 1, 2019.

#### *New Accounting Pronouncements Not Yet Adopted*

In June 2016, the FASB issued ASU No. 2016-13, Measurement of Credit Losses on Financial Instruments, which revises guidance for the accounting for credit losses on financial instruments within its scope, and in November 2018, issued ASU No. 2018-19 and in April 2019, issued ASU No. 2019-04 and in May 2019, issued ASU No. 2019-05, and in November 2019, issued ASU No. 2019-11, which amended the standard. The new standard introduces an approach, based on expected losses, to estimate credit losses on certain types of financial instruments and modifies the impairment model for available-for-sale debt securities. The new approach to estimating credit losses (referred to as the current expected credit losses model) applies to most financial assets measured at amortized cost and certain other instruments, including trade and other receivables, loans, held-to-maturity debt securities, net investments in leases and off-balance-sheet credit exposures. This ASU is effective for fiscal years beginning after December 15, 2022, including interim periods within those fiscal years, with early adoption permitted. Entities are required to apply the standard’s provisions as a cumulative-effect adjustment to retained earnings as of the beginning of the first reporting period in which the guidance is adopted. The Company is still evaluating the impact of this ASU.

Although there are several other new accounting pronouncements issued or proposed by the FASB, which the Company has adopted or will adopt, as applicable, the Company does not believe any of these accounting pronouncements has had or will have a material impact on the Company’s consolidated financial position or operating results.

### 3. INVENTORIES

Inventories consisted of the following:

	<b>August 31, 2020</b>	<b>August 31, 2019</b>
Production materials	\$ 3,866,791	\$ 1,980,816
Finished goods	7,095,006	8,507,912
	<u>\$ 10,961,796</u>	<u>\$ 10,488,728</u>

### 4. PROPERTY AND EQUIPMENT, NET

Property and equipment, net consisted of the following:

	<b>August 31, 2020</b>	<b>August 31, 2019</b>
Land	\$ 310,365	\$ 310,365
Buildings and improvements	8,167,783	7,749,980
Machinery and equipment	4,940,912	4,903,664
	<u>13,419,060</u>	<u>12,964,009</u>
Less accumulated depreciation	<u>(6,308,271)</u>	<u>(5,605,850)</u>
	<u>\$ 7,110,789</u>	<u>\$ 7,358,159</u>

### 5. PATENTS AND TRADEMARKS, NET

Patents and trademarks, net consisted of the following:

	<b>August 31, 2020</b>	<b>August 31, 2019</b>
Patents and trademarks	\$ 2,907,852	\$ 2,938,876
Less accumulated amortization	<u>(2,105,846)</u>	<u>(1,929,907)</u>
	<u>\$ 802,006</u>	<u>\$ 1,008,969</u>

Patent and trademark costs are amortized over seven years. Costs incurred related to patents and trademarks are capitalized until filed and approved, at which time the amounts capitalized to date are amortized, and any further costs, including maintenance costs, are expensed as incurred. Amortization expense was \$231,624 and \$261,724 for the years ended August 31, 2020 and 2019, respectively. Amortization expense is estimated to be \$200,000 in each of the next four fiscal years.

### 6. INVESTMENTS IN JOINT VENTURES

The consolidated financial statements of the Company's foreign joint ventures are initially prepared using the accounting principles accepted in the respective joint ventures' countries of domicile. Amounts related to foreign joint ventures reported in the below tables and the accompanying consolidated financial statements have subsequently been adjusted to conform with accounting principles generally accepted in the United States of America in all material respects. All material profits on sales recorded that remain on the balance sheet from the Company to its joint ventures and from joint ventures to other joint ventures have been eliminated for financial reporting purposes.

The Company considers the Company's joint venture in Germany, Excor Korrosionsschutz – Technologien und Produkte GmbH (EXCOR) and the following other joint ventures in France, Finland, India and Thailand, respectively, to be individually significant to the Company's consolidated assets and income as of August 31, 2020: ACOBAL SAS, ZERUST OY, HARITA-NTI LTD and ZERUST SPECIALTY TECH CO. LTD. Financial information from the audited and unaudited financial statements of EXCOR and the Company's joint ventures in France, Finland, India and Thailand, as well as all the Company's other joint ventures, are summarized as follows:

	As of August 31, 2020						
	Total	EXCOR	FRANCE	FINLAND	INDIA	THAILAND	OTHER
Current assets	\$ 55,825,418	\$ 25,742,619	\$ 4,099,160	\$ 1,955,879	\$ 4,010,855	\$ 4,022,399	\$ 15,994,506
Total assets	60,295,587	28,449,772	4,873,484	2,261,147	4,242,660	4,055,451	16,413,073
Current liabilities	11,002,867	2,424,565	2,073,710	415,496	1,007,529	993,332	4,088,235
Noncurrent liabilities	365,274	—	—	—	32,999	—	332,275
Joint ventures' equity	48,927,446	26,025,207	2,799,774	1,845,651	3,202,132	3,062,119	11,992,563
Northern Technologies International Corporation's share of joint ventures' equity	24,090,826	13,012,606	1,399,887	922,814	1,603,013	1,531,060	5,621,446
Northern Technologies International Corporation's share of joint ventures' undistributed earnings	21,855,747	12,981,701	1,399,887	902,814	738,191	1,429,060	4,404,094

	Fiscal Year Ended August 31, 2020						
	Total	EXCOR	FRANCE	FINLAND	INDIA	THAILAND	OTHER
Net sales	\$ 87,030,062	\$ 32,546,402	\$ 8,133,294	\$ 3,088,865	\$ 5,481,303	\$ 6,471,831	\$ 31,308,367
Gross profit	39,532,750	18,739,471	3,061,433	1,916,001	2,498,196	2,046,478	11,271,171
Net income	8,545,473	5,266,541	473,137	419,728	697,349	503,884	1,184,834
Northern Technologies International Corporation's share of equity in income of joint ventures	4,270,327	2,622,423	237,490	209,972	349,218	253,192	598,032
Northern Technologies International Corporation's dividends received from joint ventures	5,672,099	4,675,850	—	325,635	261,220	160,074	249,320

	As of August 31, 2019		
	Total	EXCOR	All Other
Current assets	\$ 59,162,834	\$ 29,139,787	\$ 30,023,047
Total assets	63,326,703	31,666,841	31,659,862
Current liabilities	14,145,499	3,573,160	10,572,339
Noncurrent liabilities	20,797	—	20,797
Joint ventures' equity	49,160,407	28,093,681	21,066,726
Northern Technologies International Corporation's share of joint ventures' equity	24,207,339	14,046,842	10,160,497
Northern Technologies International Corporation's share of joint ventures' undistributed earnings	22,178,126	14,015,937	8,162,189

	Fiscal Year Ended August 31, 2019		
	Total	EXCOR	All Other
Net sales	\$ 114,635,435	\$ 47,015,841	\$ 67,619,594
Gross profit	51,312,013	25,622,261	25,689,752
Net income	14,688,999	10,827,448	3,861,551
Northern Technologies International Corporation's share of equity in income of joint ventures	7,225,518	5,415,362	1,810,156
Northern Technologies International Corporation's dividends received from joint ventures	5,039,041	3,345,600	1,693,441

The Company did not make any joint venture investments during fiscal 2020 or fiscal 2019.

## 7. CORPORATE DEBT

The Company has a revolving line of credit with PNC Bank, National Association (PNC Bank) of \$3,000,000. No amounts were outstanding under the line of credit as of both August 31, 2020 and 2019. At the option of the Company, outstanding advances under the line of credit bear interest at either (a) an annual rate based on LIBOR plus 2.15% for the applicable LIBOR interest period selected by the Company or (b) at the rate publicly announced by PNC Bank from time to time as its prime rate.

The line of credit is governed under a loan agreement. The loan agreement contains standard covenants, including affirmative financial covenants, such as the maintenance of a minimum fixed charge coverage ratio, and negative covenants, which, among other things, limit the incurrence of additional indebtedness, loans and equity investments, disposition of assets, mergers and consolidations, and other matters customarily restricted in such agreements. Under the loan agreement, the Company is subject to a minimum fixed charge coverage ratio of 1.10:1.00. As of August 31, 2020, the Company was in compliance with all debt covenants.

The revolving credit facility allows the Company to request that PNC Bank issue letters of credit up to \$1,200,000. The Company did not have any letters of credit reserved against the available letters of credit balance as of August 31, 2020 and 2019 with PNC Bank. The availability of advances under the line of credit will be reduced by the face amount of any letter of credit issued and outstanding (whether or not drawn) under the revolving credit facility.

On December 16, 2019, the Company and PNC Bank extended the maturity date of the line of credit from January 7, 2020 to January 7, 2021. All other terms of the line of credit and the loan agreement and other documents evidencing the line of credit remain the same.

As of August 31, 2020, the Company had \$88,831 of letters of credit with JP Morgan Chase Bank that are performance based and set to expire between 2020 and 2022.

## 8. STOCKHOLDERS' EQUITY

On June 3, 2019, the Company's Board of Directors declared a two-for-one stock split of the Company's common stock effected in the form of a 100% share dividend distributed on June 28, 2019 to record holders as of June 17, 2019. All share and per share values have been adjusted to retroactively reflect the effect of the two-for-one stock split.

During fiscal 2020, the Company's Board of Directors declared cash dividends on the following dates in the following amounts to holders of record of the Company's common stock as of the following record dates:

<b>Declaration Date</b>	<b>Amount</b>	<b>Record Date</b>	<b>Payable Date</b>
October 22, 2019	\$0.065	November 6, 2019	November 20, 2019
January 22, 2020	\$0.065	February 5, 2020	February 19, 2020

On April 23, 2020, the Company announced the temporary suspension of its quarterly cash dividend pending clarity on the COVID-19 pandemic. Therefore, the Company did not declare a cash dividend during the quarter ended May 31, 2020 or August 31, 2020.

During fiscal 2019, the Company's Board of Directors declared cash dividends on the following dates in the following amounts to holders of record of the Company's common stock as of the following record dates:

<b>Declaration Date</b>	<b>Amount</b>	<b>Record Date</b>	<b>Payable Date</b>
October 24, 2018	\$0.06	November 7, 2018	November 21, 2018
January 23, 2019	\$0.06	February 6, 2019	February 22, 2019
April 25, 2019	\$0.06	May 9, 2019	May 23, 2019
July 24, 2019	\$0.06	August 7, 2019	August 21, 2019

On January 15, 2015, the Company's Board of Directors authorized the repurchase of up to \$3,000,000 in shares of common stock through open market purchases or unsolicited or solicited privately negotiated transactions. This program has no expiration date but may be terminated by the Company's Board of Directors at any time. As of August 31, 2020, up to \$2,640,548 in shares of common stock remained available for repurchase under the stock repurchase program.

During fiscal 2020, the Company did not repurchase or retire any shares of its common stock. During fiscal 2020, stock options to purchase an aggregate of 11,974 shares of common stock were exercised at a weighted average exercise price of \$5.13 per share; some of the options were exercised on a cashless basis, resulting in the net issuance of 6,823 shares of common stock.

During fiscal 2019, the Company did not repurchase or retire any shares of its common stock. During fiscal 2019, no stock options to purchase shares of common stock were exercised.

## 9. NET (LOSS) INCOME PER COMMON SHARE

Basic net (loss) income per common share is computed by dividing net (loss) income by the weighted average number of common shares outstanding. Diluted net (loss) income per share assumes the exercise of stock options using the treasury stock method, if dilutive.

The following is a reconciliation of the net income per share computation for fiscal 2020 and fiscal 2019:

<b>Numerator:</b>	<b>August 31, 2020</b>	<b>August 31, 2019</b>
Net (loss) income attributable to NTIC	\$ (1,337,709)	\$ 5,209,622
<b>Denominator:</b>		
Basic-weighted shares outstanding	9,096,981	9,085,584
Weighted shares assumed upon exercise of stock options	-	330,390
Diluted – weighted shares outstanding	<u>9,096,981</u>	<u>9,415,974</u>
Basic net (loss) income per share:	\$ (0.15)	\$ 0.57
Diluted net (loss) income per share:	\$ (0.15)	\$ 0.55

\*Share and per share data have been adjusted for all periods presented to reflect the two-for-one stock split effective June 28, 2019.

The dilutive impact summarized above relates to the periods when the average market price of the Company's common stock exceeded the exercise price of the potentially dilutive option securities granted. Net income per common share was based on the weighted average number of common shares outstanding during the periods when computing the basic net income per share. When dilutive, stock options are included as equivalents using the treasury stock market method when computing the diluted net income per share. Excluded from the computation of diluted net income per share as of August 31, 2020 were options outstanding to purchase 1,127,968 shares of common stock due to the net loss for the period. Excluded from the computation of diluted net income per share as of August 31, 2019 were options outstanding to purchase 141,768 shares of common stock.

## 10. STOCK-BASED COMPENSATION

The Company has three stock-based compensation plans under which stock options or other stock-based awards have been granted: the Northern Technologies International Corporation 2019 Stock Incentive Plan (the 2019 Plan), which was approved by stockholders at the 2019 annual meeting of stockholders, the Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan (the 2007 Plan) and the Northern Technologies International Corporation Employee Stock Purchase Plan (the ESPP). The 2019 Plan replaced the 2007 Plan with respect to future grants; and, therefore, no further awards may be made under the 2007 Plan. The Compensation Committee of the Board of Directors and the Board of Directors administer these plans.

The 2019 Plan provides for the grant of incentive stock options, non-statutory stock options, stock appreciation rights, restricted stock, stock unit awards, performance awards, and stock bonuses to eligible recipients to enable the Company and its subsidiaries to attract and retain qualified individuals through opportunities for equity participation in the Company and to reward those individuals who contribute to the achievement of the Company's economic objectives. Subject to adjustment as provided in the 2019 Plan, up to a maximum of 800,000 shares of the Company's common stock are issuable under the 2019 Plan. Options granted generally have a term of ten years and become exercisable over a one- or three- year period beginning on the one-year anniversary of the date of grant. Options are granted at per share exercise prices equal to the market value of the Company's common stock on the date of grant. The Company issues new shares upon the exercise of options. During the fiscal years ended August 31, 2020 and 2019, the Company granted stock options under the 2019 Plan to purchase an aggregate of 300,770 and 141,767 shares of its common stock to various employees and directors, respectively. As of August 31, 2020, 499,230 shares of common stock remained available under the 2019 Plan.

The maximum number of shares of common stock of the Company available for issuance under the ESPP is 200,000 shares, subject to adjustment as provided in the ESPP. The ESPP provides for six-month offering periods beginning on September 1 and March 1 of each year. The purchase price of the shares is 90% of the lower of the fair market value of common stock at the beginning or end of the offering period. This discount may not exceed the maximum discount rate permitted for plans of this type under Section 423 of the Internal Revenue Code of 1986, as amended. The ESPP is compensatory for financial reporting purposes. The Company issued 2,754 and 2,462 shares on March 1, 2020 and 2019, respectively, and 3,597 and 1,748 shares on September 1, 2019 and 2018, respectively, under the ESPP. As of August 31, 2020, 84,693 shares of common stock remained available for sale under the ESPP.

The fair value of option grants is determined at the date of grant using the Black-Scholes option pricing model with the assumptions listed below. The volatility factor used in the Black-Scholes option pricing model is based on historical stock price fluctuations, and the risk-free interest rate is based on U.S. treasury rates appropriate for the expected term. Dividend yield and expected volatility are estimated using historical amounts that are anticipated to be consistent with current values. Expected life of the option is based on the life of the option agreements. Based on these valuations, the Company recognized compensation expense of \$1,337,774 and \$1,431,925 during fiscal 2020 and fiscal 2019, respectively, related to the options that vested during such time. As of August 31, 2020, the total compensation cost for non-vested options not yet recognized on the Company's consolidated statements of operations was \$20,834, which is expected to be recognized during fiscal 2021, based on outstanding options as of August 31, 2020. Future option grants will impact the compensation expense recognized. Stock-based compensation expense is included in general and administrative expense on the consolidated statements of operations.

The fair value of each option grant is estimated on the grant date using the Black-Scholes option pricing model with the following assumptions and results for the grants:

	Fiscal Year 2020	Fiscal Year 2019
Dividend yield	2.41%	1.32%
Expected volatility	45.2%	45.8%
Expected life of option (years)	10	10
Weighted average risk-free interest rate	1.40%	2.75%

Stock option activity during the periods indicated was as follows:

	Number of Shares (#)	Weighted Average Exercise Price	Aggregate Intrinsic Value
Outstanding at August 31, 2018	697,406	\$ 7.29	
Options granted	141,767	18.23	
Options exercised	—	—	
Options terminated	—	—	
Outstanding at August 31, 2019	839,173	\$ 9.13	
Options granted	300,770	10.87	
Options exercised	(11,975)	5.13	
Options terminated	—	—	

	<u>Number of Shares (#)</u>	<u>Weighted Average Exercise Price</u>	<u>Aggregate Intrinsic Value</u>
Outstanding at August 31, 2020	1,127,968	\$ 9.63	\$ 1,091,425
Exercisable at August 31, 2020	810,363	\$ 9.18	\$ 1,091,425

\*Share and per share data have been adjusted for all periods presented to reflect the two-for-one stock split effective June 28, 2019.

The weighted average per share fair value of options granted during fiscal 2020 and fiscal 2019 was \$9.63 and \$9.02, respectively. The weighted average remaining contractual life of the options outstanding and exercisable as of August 31, 2020 was 6.02 years and 5.90 years, respectively.

## 11. SEGMENT AND GEOGRAPHIC INFORMATION

### Segment Information

The Company's chief operating decision maker is its Chief Executive Officer. The Company's business is organized into two reportable segments: ZERUST<sup>®</sup> and Natur-Tec<sup>®</sup>. The Company has been selling its proprietary ZERUST<sup>®</sup> rust and corrosion inhibiting products and services to the automotive, electronics, electrical, mechanical, military, and retail consumer markets for over 40 years and, more recently, has targeted and expanded into the oil and gas industry. The Company also sells a portfolio of bio-based and compostable (fully biodegradable) polymer resins and finished products under the Natur-Tec<sup>®</sup> brand.

The following tables present the Company's business segment information:

	<u>Fiscal 2020</u>	<u>Fiscal 2019</u>
ZERUST <sup>®</sup> net sales	\$ 34,474,535	\$ 38,174,712
Natur-Tec <sup>®</sup> net sales	13,164,156	17,575,425
Total net sales	<u>\$ 47,638,691</u>	<u>\$ 55,750,137</u>

The following table sets forth the Company's cost of goods sold by segment:

	<u>Fiscal 2020</u>	<u>Fiscal 2019</u>
Direct cost of goods sold		
ZERUST <sup>®</sup>	\$ 18,717,684	\$ 21,505,335
Natur-Tec <sup>®</sup>	10,168,051	13,691,038
Indirect cost of goods sold	2,723,539	2,773,871
Total net cost of goods sold	<u>\$ 31,609,274</u>	<u>\$ 37,970,244</u>

The Company utilizes product net sales and direct and indirect cost of goods sold for each product in reviewing the financial performance of a product type. Further allocation of Company expenses or assets, aside from amounts presented in the tables above, is not utilized in evaluating product performance, nor does such allocation occur for internal financial reporting.

Sales to the Company's joint ventures are included in the foregoing geographic and segment information, however, sales by the Company's joint ventures to other parties are not included. The foregoing geographic and segment information represents only sales and cost of goods sold recognized directly by the Company.

All joint venture operations, including equity in income, fees for services, and related dividends, are related to ZERUST<sup>®</sup> products and services.

## Geographic Information

Net sales by geographic location for fiscal 2020 and fiscal 2019 were as follows:

	<b>Fiscal Year Ended August 31,</b>	
	<b>2020</b>	<b>2019</b>
Inside the U.S.A. to unaffiliated customers	\$ 20,218,213	\$ 24,560,459
Outside the U.S.A. to:		
Joint ventures in which the Company is a shareholder directly and indirectly	1,972,646	2,607,554
Unaffiliated customers	25,447,832	28,582,124
	<u>\$ 47,638,691</u>	<u>\$ 55,750,137</u>

Net sales by geographic location are based on the location of the customer.

Fees for services provided to joint ventures by geographic location as a percentage of total fees for services provided to joint ventures, respectively, were as follows:

	<b>Fiscal 2020</b>	<b>Fiscal 2019</b>
Germany	\$ 843,752	\$ 852,526
Japan	628,889	748,489
Poland	553,198	704,942
Sweden	372,017	589,654
Thailand	328,452	418,334
France	310,661	430,537
Czech Republic	270,032	345,798
South Korea	266,703	346,244
Finland	256,375	281,295
United Kingdom	255,121	319,671
India	250,976	350,172
Other	276,709	339,917
	<u>\$ 4,612,885</u>	<u>\$ 5,727,579</u>

Sales to the Company's joint ventures are included in the foregoing segment and geographic information; however, sales by the Company's joint ventures to other parties are not included. The foregoing segment and geographic information represents only sales and cost of goods sold recognized directly by the Company.

See Note 6 for additional details on geographical information regarding equity in income from joint ventures.

The geographical distribution of total long-lived assets and net sales is as follows:

	<b>At August 31, 2020</b>	<b>At August 31, 2019</b>
China	\$ 376,088	\$ 337,162
Other	172,833	178,087
United States	6,561,868	6,842,910
Total long-lived assets	<u>\$ 7,110,789</u>	<u>\$ 7,358,159</u>

	<b>Fiscal Year Ended August 31, 2020</b>	<b>Fiscal Year Ended August 31, 2019</b>
China	\$ 13,409,770	\$ 13,030,298
Brazil	2,753,930	3,151,509
India	5,655,797	8,109,468
Other	5,600,982	6,898,403
United States	20,218,212	24,560,459
Total net sales	<u>\$ 47,638,691</u>	<u>\$ 55,750,137</u>

Long-lived assets located in China, Brazil, Germany, and India consist of property and equipment. These assets are periodically reviewed to assure the net realizable value from the estimated future production based on forecasted sales exceeds the carrying value of the assets.

Sales to the Company's joint ventures are included in the foregoing segment and geographic information; however, sales by the Company's joint ventures to other parties are not included. The foregoing segment and geographic information represents only sales recognized directly by the Company and sold in that geographic territory.

All joint venture operations, including equity in income, fees for services, and related dividends, are primarily related to ZERUST<sup>®</sup> products and services.

## 12. RETIREMENT PLAN

The Company has a 401(k) employee savings plan. Employees who meet certain age and service requirements may elect to contribute up to 15% of their salaries. The Company typically contributes the lesser of 50% of the participant's contributions or 3.5% of the employee's salary. The Company recognized expense for the savings plan of \$234,534 and \$228,605 for fiscal 2020 and fiscal 2019, respectively.

## 13. RELATED PARTY TRANSACTIONS

During both fiscal 2020 and fiscal 2019, the Company made consulting payments of \$144,000 to Bioplastic Polymers LLC, an entity owned by Ramani Narayan, Ph.D., a director of the Company.

## 14. INCOME TAXES

The provision for income taxes for the fiscal years ended August 31, 2020 and 2019 was approximately as follows:

	<b>Fiscal Year Ended August 31,</b>	
	<b>2020</b>	<b>2019</b>
Current:		
Federal	\$ —	\$ —
State	23,000	48,000
Foreign	1,226,000	902,000
	<u>1,249,000</u>	<u>950,000</u>
Deferred:		
Federal	1,501,000	(315,000)
State	101,000	(21,000)
Foreign	(177,000)	228,000
	<u>1,425,000</u>	<u>(108,000)</u>
	<u>\$ 2,674,000</u>	<u>\$ 842,000</u>

Reconciliations of the expected federal income tax at the statutory rate of 21.0% with the provisions for income taxes for the fiscal years ended August 31, 2020 and 2019 were approximately as follows:

	<b>Fiscal Year Ended August 31,</b>	
	<b>2020</b>	<b>2019</b>
Tax computed at statutory rates	\$ 365,000	\$ 1,398,000
State income tax, net of federal benefit	23,000	27,000
Tax effect on equity in income of international joint ventures	(888,000)	(1,490,000)
Tax effect of foreign operations	641,000	672,000
Deemed repatriation	108,000	204,000
Research and development credit	(368,000)	(133,000)
Valuation allowance	2,797,000	133,000
Stock based compensation	189,000	208,000
Non-controlling interest	(55,000)	(74,000)
Other	(138,000)	(103,000)
	<u>\$ 2,674,000</u>	<u>\$ 842,000</u>

The Company has not provided U.S. income taxes or foreign withholding taxes with respect to its portion of the cumulative undistributed earnings of certain foreign subsidiaries and joint ventures that are essentially permanent in duration. As a result of the 2017 tax law changes, U.S. federal income taxes on dividends received from the Company's foreign subsidiaries and joint ventures after December 31, 2017 have been generally eliminated. However, the Company continues to be subject to foreign withholding taxes upon repatriation of any undistributed earnings that are not essentially permanent in duration. The Company recorded a tax benefit of approximately \$76,000 and tax expense of approximately \$4,000 during fiscal 2020 and fiscal 2019, respectively, representing changes in the deferred tax liability for foreign withholding taxes to be paid with respect to the portion of the cumulative undistributed earnings of foreign subsidiaries and joint ventures that the Company determined were not essentially permanent in duration.

The Company measures deferred tax assets and liabilities using enacted tax rates that will apply in the years in which the temporary differences are expected to be recovered or paid. The tax effect of the temporary differences and tax carryforwards comprising the net deferred taxes shown on the consolidated balance sheets as of August 31, 2020 and 2019 was approximately as follows:

	<b>August 31,</b>	
	<b>2020</b>	<b>2019</b>
Accrued compensation	\$ 173,500	\$ 153,400
Inventory costs	64,000	60,900
Other accrued expenses	74,900	39,700
Lease liability	147,500	-
Goodwill and other intangible assets	581,200	688,400
Stock-based compensation	397,300	299,300
Foreign tax credit carryforward	5,790,500	5,790,500
Other credit and loss carryforwards	4,824,200	3,631,700
Total deferred tax assets	<u>12,053,100</u>	<u>10,663,900</u>
Valuation allowance	(11,561,700)	(8,764,300)
Total deferred tax assets after valuation allowance	<u>491,400</u>	<u>1,899,600</u>
Property and equipment	(50,700)	(111,900)
Right-of-use asset	(147,500)	-
Other	(83,400)	(153,400)
Total deferred tax liabilities	<u>(281,600)</u>	<u>(265,300)</u>
Net deferred tax assets	<u>\$ 209,800</u>	<u>\$ 1,634,300</u>

As of August 31, 2020, the Company had foreign tax credit carryforwards of approximately \$5,790,500, which will begin to expire if not utilized prior to August 31, 2021. In addition, the Company had federal and state tax credit carryforwards of \$3,312,400 as of August 31, 2020 which began to expire in fiscal 2021. These federal and state tax credit carryforwards consist primarily of federal and Minnesota research and development credit carryforwards. The Company also has a deferred tax asset of \$1,260,600 for federal and state net operating loss carryforwards as of August 31, 2020. The federal net operating loss carryforward has an indefinite carryforward period. The Company has a deferred tax asset of \$251,200 for foreign net operating loss carryforwards, \$229,200 of which has an indefinite carryforward period.

The Company records a tax valuation allowance to reduce deferred tax assets to the amount expected to be realized when it is more likely than not that some portion or all of its deferred tax assets will not be realized.

As of August 31, 2020, the Company determined based on all available evidence, including historical data and projections of future results, that it is more likely than not that its domestic deferred tax assets, including its foreign tax credit carryforward and federal and Minnesota research and development credit carryforwards will not be realized. The Company determined that its domestic deferred tax assets, including its federal and state net operating loss carryforwards, foreign tax credit carryforwards, and federal and Minnesota research and development credit carryforwards will not be realized due to the absence of objectively verifiable sources of taxable income. On the basis of this evaluation, the Company has recorded a valuation allowance of \$11,561,700 as August 31, 2020 to recognize only the portion of the deferred tax assets that is more likely than not to be realized. The net deferred tax asset as of August 31, 2020 relates entirely to non-US deferred tax assets which are expected to be realized by offset of deferred tax liability for withholding tax on cumulative undistributed earnings in foreign subsidiaries and joint ventures that the Company determined were not essentially permanent.

As of August 31, 2019, the Company determined it was still in a position that a full valuation allowance was not necessary and recorded a valuation allowance of \$5,790,500 with respect to the foreign tax credit carryforwards and a valuation allowance of \$2,973,800 with respect to federal and state tax credit carryforwards that was determined would not be utilized prior to expiration. The Company determined that its foreign tax credit carryforward would not be realized due to insufficient foreign source taxable income within the carryforward period and the fact that for ordering purposes the foreign tax credit carryforward is not allowed to be utilized until after any current year foreign tax credits are utilized. The Company determined that its federal and Minnesota research and development credit carryforwards would not be realized due to insufficient federal and Minnesota taxable income within the carryforward period after considering the foreign tax credit utilization. The change in the valuation allowance totaled \$2,797,000 and \$133,000 for the years ended August 31, 2020 and 2019, respectively.

The following is a tabular reconciliation of the total amounts of approximated unrecognized tax benefits:

	<b>Fiscal Year Ended August 31,</b>	
	<b>2020</b>	<b>2019</b>
Gross unrecognized tax benefits – beginning balance	\$ 248,000	\$ 242,000
Gross increases – prior period tax positions	15,200	1,000
Gross increases – current period tax positions	15,000	5,000
Gross unrecognized tax benefits – ending balance	<u>\$ 278,200</u>	<u>\$ 248,000</u>

The entire amount of unrecognized tax benefits would affect the effective tax rate if recognized. It is not expected that the amount of unrecognized tax benefits will change significantly in the next 12 months.

The Company recognizes interest related to unrecognized tax benefits and penalties as income tax expense. Accrued interest and penalties are included within the related tax liability line in the consolidated balance sheet. There was no liability for the payment of interest and penalties as of both August 31, 2020 and August 31, 2019.

The Company is subject to taxation in the United States and various states and foreign jurisdictions. With few exceptions, as of August 31, 2020, the Company is no longer subject to federal, state, local, or foreign examinations by tax authorities for years prior to August 31, 2017.

## 15. COMMITMENTS AND CONTINGENCIES

### *Operating Leases*

The Company currently has operating leases for various buildings, equipment and vehicles. These leases are under non-cancelable operating lease agreements with expiration dates between November 30, 2020 and June 30, 2024. The Company has the option to extend certain leases to five or ten-year term(s) and has the right of first refusal on any sale.

The Company records lease liabilities within current liabilities or long-term liabilities based upon the length of time associated with the lease payments. The Company records its long-term operating leases as right-of-use assets. Upon initial adoption, using the modified retrospective transition approach, no leases with terms less than 12 months have been capitalized to the consolidated balance sheet consistent with ASC 842. Instead, these leases are recognized in the consolidated statement of operations on a straight-line expense throughout the lives of the leases. None of the Company's leases contain common area maintenance or security agreements.

The Company has made certain assumptions and judgments when applying ASC 842, the most significant of which is that the Company elected the package of practical expedients available for transition that allow the Company to not reassess whether expired or existing contracts contain leases under the new definition of a lease, lease classification for expired or existing leases and whether previously capitalized initial direct costs would qualify for capitalization under ASC 842. Additionally, the Company did not elect to use hindsight when considering judgments and estimates such as assessments of lessee options to extend or terminate a lease or purchase the underlying asset. The Company has no contingent rent agreements.

### *Present Value of Leases*

(in thousands):	<b>August 31, 2020</b>
Right-of-use assets, net	\$ 658,788
Current portion of lease liability	386,345
Lease liability, less current portion	272,443
Total lease liability	<u>\$ 658,788</u>

As of August 31, 2020, the weighted-average remaining lease term was 2.02 years. The Company's lease agreements do not provide a readily determinable implicit rate nor is it available to the Company from its lessors. Instead, as of August 31, 2020, the Company estimates the weighted-average discount rate for its operating leases to be 2.31% to present value based on the incremental borrowing rate.

Future minimum payments for the next five fiscal years and thereafter as of August 31, 2020 under these long-term operating leases are as follows (in thousands):

Fiscal 2021	\$ 386,345
Fiscal 2022	208,419
Fiscal 2023	59,993
Fiscal 2024	19,932
Total future minimum lease payments	674,689
Less amount representing interest	(15,901)
Present value of obligations under operating leases	658,788
Less current portion	(386,345)
Long-term operating lease obligations	<u>\$ 272,443</u>

The following table presents future minimum lease payments for the Company's operating leases as of August 31, 2019 under ASC 840 and is being presented for comparative purposes:

Fiscal 2020	\$	286,723
Fiscal 2021		241,035
Fiscal 2022		107,522
Total future minimum rent	\$	<u>635,280</u>

Rent expense under these leases was approximately \$131,840 for the year ended August 31, 2019.

#### *Annual Bonus Plan*

On August 27, 2020, the Compensation Committee of the Board of Directors of the Company approved the material terms of an annual bonus plan for the Company's executive officers as well as certain officers and employees for the fiscal year ending August 31, 2021. For fiscal 2021, as in past years, the total amount available under the bonus plan for all plan participants, including executive officers, is dependent upon the Company's earnings before interest, taxes, and other income, as adjusted to take into account amounts to be paid under the bonus plan and certain other adjustments (Adjusted EBITOI). Each plan participant's percentage of the overall bonus pool is based upon the number of plan participants, the individual's annual base salary, and the individual's position and level of responsibility within the company. In the case of each of the Company's executive officer participants, 75% of the amount of their individual bonus payout will be determined based upon the Company's actual EBITOI for fiscal 2021 compared to a pre-established target EBITOI for fiscal 2021, and 25% of the payout will be determined based upon such executive officer's achievement of certain pre-established individual performance objectives. The payment of bonuses under the plan is discretionary, and bonuses may be paid to executive officer participants in both cash and shares of NTIC common stock, the exact amount and percentages of which were determined by the Company's Board of Directors, upon recommendation of the Compensation Committee, after the completion of the Company's consolidated financial statements for fiscal 2021.

On August 31, 2019, the Compensation Committee of the Board of Directors of the Company approved the material terms of an annual bonus plan for the Company's executive officers as well as certain officers and employees for the fiscal year ending August 31, 2020. \$1,300,000 was recognized for bonuses for the fiscal year ended August 31, 2020, \$800,000 of the bonus is comprised of stock options granted to management on September 1, 2019 and \$500,000 will be paid out in cash and profit sharing subsequent to year end. This is compared to \$2,000,000 recognized for bonuses for the fiscal year ended August 31, 2019, \$800,000 of the bonus comprised of stock options granted to management on September 1, 2018 and \$1,200,000 was paid out in cash and profit sharing subsequent to year end.

#### *Concentrations*

Five joint ventures (consisting of the Company's joint ventures in the United States, Indonesia, Philippines, Russia and India) accounted for 88.2% of the Company's trade joint venture receivables as of August 31, 2020, and five joint ventures (consisting of the Company's joint ventures in South Korea, Thailand, France, Germany and India) accounted for 69.6% of the Company's trade joint venture receivables as of August 31, 2019.

#### *Legal Matters*

On March 23, 2015, NTIC and NTI Asean LLC, a majority-owned subsidiary of NTIC, filed a lawsuit in Tianjin No 1 Intermediate People's Court against two individuals, Tao Meng and Xu Hui, related to breaches of duties and contractual commitments owed to NTI Asean under certain agreements related to NTIC's former joint venture in China, Tianjin Zerust Anti-Corrosion Technologies Ltd. The lawsuit alleges, among other things, that Mr. Tao Meng and Xu Hui have engaged in self-dealing, usurped business opportunities, and received economic benefits that were required to go to Tianjin Zerust. At this point, the Company is not able to reasonably estimate the amount of any recovery to NTI Asean, if any.

From time to time, the Company is subject to various other claims and legal actions in the ordinary course of its business. The Company records a liability in its consolidated financial statements for costs related to claims, including future legal costs, settlements, and judgments, where the Company has assessed that a loss is probable, and an amount could be reasonably estimated. If the reasonable estimate of a probable loss is a range, the Company records the most probable estimate of the loss or the minimum amount when no amount within the range is a better estimate than any other amount. The Company discloses a contingent liability even if the liability is not probable or the amount is not estimable, or both, if there is a reasonable possibility that material loss may have been incurred. In the opinion of management, as of August 31, 2020, the amount of liability, if any, with respect to these matters, individually or in the aggregate, will not materially affect the Company's consolidated results of operations, financial position, or cash flows.

## 16. STATEMENTS OF CASH FLOWS

Supplemental disclosures of cash flow information consist of:

	Fiscal Year Ended August 31,	
	2020	2019
Cash paid during the year for income tax	\$ 1,099,635	\$ 841,837
Cash paid during the year for interest	16,034	13,567
Non-cash investing and financing activities:		
Purchases of property and equipment included in accounts payable	—	53,512

## 17. FAIR VALUE MEASUREMENTS

The Company follows the authoritative guidance on fair value measurements and disclosures with respect to assets and liabilities that are measured at fair value on both a recurring and non-recurring basis. Under this guidance, fair value is defined as the exit price, or the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants as of the measurement date. The authoritative guidance also establishes a hierarchy for inputs used in measuring fair value that maximizes the use of observable inputs and minimizes the use of unobservable inputs by requiring that the most observable inputs be used when available. Observable inputs are inputs market participants would use in valuing the asset or liability, developed based on market data obtained from sources independent of the Company. Unobservable inputs are inputs that reflect the Company's assumptions about the factors market participants would use in valuing the asset or liability developed based upon the best information available in the circumstances. The categorization of financial assets and financial liabilities within the valuation hierarchy is based upon the lowest level of input that is significant to the fair value measurement.

The hierarchy is broken down into three levels defined as follows:

Level 1 - Inputs are quoted prices in active markets for identical assets or liabilities.

Level 2 - Inputs include quoted prices for similar assets or liabilities in active markets, quoted prices for identical or similar assets or liabilities in markets that are not active, and inputs (other than quoted prices) that are observable for the asset or liability, either directly or indirectly.

Level 3 - Inputs are unobservable for the asset or liability.

See the section below titled Valuation Techniques for further discussion of how the Company determines fair value for investments.

### *Assets and Liabilities That Are Measured at Fair Value on a Recurring Basis*

Assets and liabilities that are measured at fair value on a recurring basis primarily relate to marketable equity securities. These items are marked-to-market at each reporting period, and the Company estimates that market value approximates costs.

The following tables provide information by level for assets and liabilities that are measured at fair value on a recurring basis:

	Fair value as of August 31, 2020	Fair Value Measurements Using Inputs Considered as		
		Level 1	Level 2	Level 3
Available for sale securities	\$ 5,544,722	\$ 5,544,722	\$ —	\$ —

	Fair value as of August 31, 2019	Fair Value Measurements Using Inputs Considered as		
		Level 1	Level 2	Level 3
Available for sale securities	\$ 3,565,258	\$ 3,565,258	\$ —	\$ —

*Valuation Techniques*

Financial assets that are classified as Level 1 securities include cash equivalents and available for sale securities. These are valued using quoted market prices in an active market.

The Company reviews the fair value hierarchy classification on a quarterly basis. Changes in the ability to observe valuation inputs may result in a reclassification of levels for certain securities within the fair value hierarchy. The Company's policy is to recognize transfers into and out of levels within the fair value hierarchy at the end of the fiscal quarter in which the actual event or change in circumstances that caused the transfer occurs. There were no transfers between Level 1, Level 2, or Level 3 during the fiscal years ended August 31, 2020 or August 31, 2019. When a determination is made to classify an asset or liability within Level 3, the determination is based upon the significance of the unobservable inputs to the overall fair value measurement.

**Item 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE**

None

**Item 9A. CONTROLS AND PROCEDURES**

**Evaluation of Disclosure Controls and Procedures**

NTIC maintains disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended) that are designed to provide reasonable assurance that information required to be disclosed by NTIC in the reports it files or submits under the Securities Exchange Act of 1934, as amended, is recorded, processed, summarized, and reported within the time periods specified in the Securities and Exchange Commission's rules and forms and that such information is accumulated and communicated to NTIC's management, including NTIC's principal executive officer and principal financial officer, or persons performing similar functions, as appropriate to allow timely decisions regarding required disclosure. NTIC's management evaluated, with the participation of its Chief Executive Officer and its Chief Financial Officer, the effectiveness of the design and operation of NTIC's disclosure controls and procedures as of the end of the period covered in this report. Based on that evaluation, NTIC's Chief Executive Officer and Chief Financial Officer concluded that NTIC's disclosure controls and procedures were effective as of the end of such period to provide reasonable assurance that information required to be disclosed in the reports that NTIC files or submits under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in the SEC's rules and forms, and that such information is accumulated and communicated to NTIC's management, including NTIC's Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

**Management's Report on Internal Control over Financial Reporting**

NTIC's management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f) for Northern Technologies International Corporation and its subsidiaries. This system is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with U.S. generally accepted accounting principles.

The Company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the Company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with U.S. generally accepted accounting principles, and that receipts and expenditures of the Company are being made only in accordance with authorizations of management and directors of the Company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the Company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements, and even when determined to be effective, can only provide reasonable assurance with respect to financial statement preparation and presentation. In addition, projection of any evaluation of the effectiveness of internal control over financial reporting to future periods is subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Management, with the participation of NTIC's President and Chief Executive Officer and Chief Financial Officer, evaluated the effectiveness of the Company's internal control over financial reporting as of August 31, 2020. In making this evaluation, management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission in Internal Control – Integrated Framework (2013). Based on this assessment, management concluded that the Company's internal control over financial reporting was effective as of August 31, 2020.

This report does not include an attestation report of NTIC's independent registered public accounting firm regarding internal control over financial reporting. Management's report was not subject to attestation by NTIC's independent registered public accounting firm pursuant to rules of the Securities and Exchange Commission that permit NTIC to provide only management's report in this report.

**Changes in Internal Control over Financial Reporting**

There was no change in NTIC's internal control over financial reporting that occurred during the quarter ended August 31, 2020 that has materially affected or is reasonably likely to materially affect NTIC's internal control over financial reporting.

**Item 9B. OTHER INFORMATION**

Not applicable.

## PART III

### Item 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

#### Directors

The information in the “Proposal One – Election of Directors” section of NTIC’s definitive proxy statement to be filed with the Securities and Exchange Commission with respect to NTIC’s next annual meeting of stockholders, which involves the election of directors, is incorporated in this annual report on Form 10-K by reference.

#### Executive Officers

Information concerning NTIC’s executive officers and officers is included in this annual report on Form 10-K under Item 4A of Part I under the heading “Executive Officers of the Registrant.”

#### Code of Ethics

NTIC has adopted a code of ethics that applies to its principal executive officer, principal financial officer, principal accounting officer, or controller or persons performing similar functions, as well as other employees and NTIC’s directors and meets the requirements of the SEC and the Nasdaq Global Market. A copy of NTIC’s Code of Ethics is filed as an exhibit to this report. NTIC intends to satisfy the disclosure requirements of Item 5.05 of Form 8-K regarding amendments to or waivers from any provision of its code of ethics by posting such information on its corporate website at [www.ntic.com](http://www.ntic.com).

#### Changes to Nomination Procedures

During the fourth quarter of fiscal 2020, NTIC made no material changes to the procedures by which stockholders may recommend nominees to NTIC’s Board of Directors, as described in NTIC’s most recent proxy statement.

#### Audit Committee Matters

The information in the “Corporate Governance—Audit Committee” section of NTIC’s definitive proxy statement to be filed with the Securities and Exchange Commission with respect to NTIC’s next annual meeting of stockholders, which involves the election of directors, is incorporated in this annual report on Form 10-K by reference.

### Item 11. EXECUTIVE COMPENSATION

The information in the “Director Compensation” and “Executive Compensation” sections of NTIC’s definitive proxy statement to be filed with the Securities and Exchange Commission with respect to NTIC’s next annual meeting of stockholders, which involves the election of directors, is incorporated in this annual report on Form 10-K by reference.

### Item 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

#### Stock Ownership

The information in the “Stock Ownership—Beneficial Ownership of Significant Stockholders and Management” section of NTIC’s definitive proxy statement to be filed with the Securities and Exchange Commission with respect to NTIC’s next annual meeting of stockholders, which involves the election of directors, is incorporated in this annual report on Form 10-K by reference.

## Securities Authorized for Issuance under Equity Compensation Plans

The following table summarizes outstanding options and other awards under NTIC's equity compensation plans as of August 31, 2020. NTIC's equity compensation plans as of August 31, 2020 were the Northern Technologies International Corporation 2019 Stock Incentive Plan, the Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan, and the Northern Technologies International Corporation Employee Stock Purchase Plan. Except for automatic annual grants of \$50,000 in options to purchase shares of NTIC common stock to NTIC's directors in consideration for their services as directors of NTIC and an automatic annual grant of \$10,000 in options to purchase shares of NTIC common stock to NTIC's Chairman of the Board in consideration for his services as Chairman, in each case on the first day of each fiscal year, and automatic initial pro rata grants of \$50,000 in options to purchase shares of NTIC common stock to NTIC's new directors in consideration for their services as directors of NTIC on the first date of their appointment as directors, options and other awards granted in the future under the Northern Technologies International Corporation 2019 Stock Incentive Plan are within the discretion of the Board of Directors and the Compensation Committee of the Board of Directors and, therefore, cannot be ascertained at this time. No future grants of options or other stock awards will be made under the Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan.

Plan Category	(a)	(b)	(c)
	Number of Securities to be Issued Upon Exercise of Outstanding Options, Warrants and Rights	Weighted-Average Exercise Price of Outstanding Options, Warrants and Rights	Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (excluding securities reflected in column (a))
Equity compensation plans approved by security holders	1,127,968(1)(2)	\$ 9.63	583,923(3)
Equity compensation plans not approved by security holders	—	—	—
<b>Total</b>	<b>1,127,968(1)(2)</b>	<b>\$ 9.63</b>	<b>583,923(3)</b>

\*Share and per share data have been adjusted for all periods presented to reflect the two-for-one stock split effective June 28, 2019.

- (1) Amount includes 827,198 shares of NTIC common stock issuable upon the exercise of stock options outstanding as of August 31, 2020 under the Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan and 300,770 shares of NTIC common stock issuable upon the exercise of stock options outstanding as of August 31, 2020 under the Northern Technologies International Corporation 2019 Stock Incentive Plan.
- (2) Excludes employee stock purchase rights accruing under the Northern Technologies International Corporation Employee Stock Purchase Plan. Under such plan, each eligible employee may purchase up to 2,000 shares of NTIC common stock at semi-annual intervals on February 28th or 29th (as the case may be) and August 31st each year at a purchase price per share equal to 90% of the lower of (i) the closing sales price per share of NTIC common stock on the first day of the offering period or (ii) the closing sales price per share of NTIC common stock on the last day of the offering period.
- (3) Amount includes 499,230 shares available as of August 31, 2020 for future issuance under Northern Technologies International Corporation 2019 Stock Incentive Plan and 84,693 shares available at August 31, 2020 for future issuance under the Northern Technologies International Corporation Employee Stock Purchase Plan.

## Item 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The information in the "Related Person Relationships and Transactions" and "Corporate Governance—Director Independence" sections of NTIC's definitive proxy statement to be filed with the Securities and Exchange Commission with respect to NTIC's next annual meeting of stockholders, which involves the election of directors, is incorporated in this annual report on Form 10-K by reference.

**Item 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES**

The information in the “Proposal Three—Ratification of Selection of Independent Registered Public Accounting Firm—Audit, Audit-Related, Tax and Other Fees” and “Proposal Three—Ratification of Selection of Independent Registered Public Accounting Firm—Audit Committee Pre-Approval Policies and Procedures” sections of NTIC’s definitive proxy statement to be filed with the Securities and Exchange Commission with respect to NTIC’s next annual meeting of stockholders, which involves the election of directors, is incorporated in this annual report on Form 10-K by reference.

## PART IV

### Item 15. EXHIBIT AND FINANCIAL STATEMENT SCHEDULES

#### Financial Statements

NTIC's consolidated financial statements are included in Item 8 of Part III of this report.

#### Financial Statement Schedules

All financial statement schedules are omitted because they are inapplicable since NTIC is a smaller reporting company.

#### Exhibits

The exhibits being filed or furnished with this report are listed below. Each management contract or compensatory plan or arrangement required to be filed as an exhibit to this report is asterisked below.

A copy of any exhibits listed or referred to herein will be furnished at a reasonable cost to any person who is a stockholder upon receipt from any such person of a written request for any such exhibit. Such request should be sent to: Mr. Matthew Wolsfeld, Corporate Secretary, Northern Technologies International Corporation, 4201 Woodland Road, P.O. Box 69, Circle Pines, Minnesota 55014 Attn: Stockholder Information.

<u>Item No.</u>	<u>Item</u>	<u>Method of Filing</u>
3.1	Restated Certificate of Incorporation of Northern Technologies International Corporation	<a href="#">Incorporated by reference to Exhibit 3.1 to NTIC's Quarterly Report on Form 10-Q for the fiscal quarter ended February 28, 2009 (File No. 001-11038)</a>
3.2	Certificate of Amendment to the Restated Certificate of Incorporation of Northern Technologies International Corporation dated January 16, 2018	<a href="#">Incorporated by reference to Exhibit 3.1 to NTIC's Current Report on Form 8-K as filed with the Securities and Exchange Commission on January 16, 2018 (File No. 001-11038)</a>
3.3	Certificate of Validation of the Certificate of Amendment to Restated Certificate of Incorporation of Northern Technologies International Corporation dated January 18, 2019	<a href="#">Incorporated by reference to Exhibit 3.1 to NTIC's Current Report on Form 8-K as filed with the Securities and Exchange Commission on January 25, 2019 (File No. 001-11038)</a>
3.4	Amended and Restated Bylaws of Northern Technologies International Corporation	<a href="#">Incorporated by reference to Exhibit 3.1 to NTIC's Current Report on Form 8-K as filed with the Securities and Exchange Commission on November 24, 2008 (File No. 001-11038)</a>
4.1	Specimen Stock Certificate Representing Common Stock of Northern Technologies International Corporation	Incorporated by reference to Exhibit 4.1 to NTIC's Registration Statement on Form 10 (File No. 001-19331) (Filed on paper - hyperlink is not required pursuant to Rule 105 of Regulation S-T)
4.2	Description of Common Stock of Northern Technologies International Corporation	<a href="#">Filed herewith</a>

10.1	Northern Technologies International Corporation 2019 Stock Incentive Plan*	<a href="#"><u>Incorporated by reference to Exhibit 10.1 to NTIC's Current Report on Form 8-K as filed with the Securities and Exchange Commission on January 25, 2019 (File No. 001-11038)</u></a>
10.2	Form of Incentive Stock Option Agreement for Northern Technologies International Corporation 2019 Stock Incentive Plan*	<a href="#"><u>Incorporated by reference to Exhibit 10.2 to NTIC's Current Report on Form 8-K as filed with the Securities and Exchange Commission on January 25, 2019 (File No. 001-11038)</u></a>
10.3	Form of Non-Statutory Stock Option Agreement for Northern Technologies International Corporation 2019 Stock Incentive Plan*	<a href="#"><u>Incorporated by reference to Exhibit 10.3 to NTIC's Current Report on Form 8-K as filed with the Securities and Exchange Commission on January 25, 2019 (File No. 001-11038)</u></a>
10.4	Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan*	<a href="#"><u>Incorporated by reference to Exhibit 10.1 to NTIC's Current Report on Form 8-K as filed with the Securities and Exchange Commission on January 24, 2011 (File No. 001-11038)</u></a>
10.5	Form of Incentive Stock Option Agreement for Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan*	<a href="#"><u>Incorporated by reference to Exhibit 10.2 to NTIC's Current Report on Form 8-K as filed with the Securities and Exchange Commission on January 24, 2011 (File No. 001-11038)</u></a>
10.6	Form of Non-Statutory Stock Option Agreement for Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan*	<a href="#"><u>Incorporated by reference to Exhibit 10.3 to NTIC's Current Report on Form 8-K as filed with the Securities and Exchange Commission on January 24, 2011 (File No. 001-11038)</u></a>
10.7	Form of Restricted Stock Agreement for Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan*	<a href="#"><u>Incorporated by reference to Exhibit 10.4 to NTIC's Current Report on Form 8-K as filed with the Securities and Exchange Commission on January 24, 2011 (File No. 001-11038)</u></a>
10.8	Northern Technologies International Corporation Employee Stock Purchase Plan*	<a href="#"><u>Incorporated by reference to Exhibit 10.11 to NTIC's Annual Report on Form 10-KSB for the fiscal year ended August 31, 2006 (File No. 001-11038)</u></a>
10.9	Material Terms of Northern Technologies International Corporation Annual Bonus Plan*	<a href="#"><u>Incorporated by reference to Exhibit 10.6 to NTIC's Annual Report on Form 10-K for the fiscal year ended August 31, 2015 (File No. 001-11038)</u></a>

10.10	Form of Indemnification Agreement between Northern Technologies International Corporation and its Directors and Officers*	<a href="#"><u>Incorporated by reference to Exhibit 10.1 to NTIC's Current Report on Form 8-K as filed with the Securities and Exchange Commission on October 23, 2019 (File No. 001-11038)</u></a>
10.11	Agreement dated as of May 25, 2009 between Northern Technologies International Corporation and Sunggyu Lee, Ph.D.*	<a href="#"><u>Incorporated by reference to Exhibit 10.2 to NTIC's Quarterly Report on Form 10-Q for the fiscal quarter ended May 31, 2009 (File No. 001-11038)</u></a>
10.12	Description of Non-Employee Director Compensation Arrangements*	<a href="#"><u>Incorporated by reference to Exhibit 10.9 to NTIC's Annual Report on Form 10-K for the fiscal year ended August 31, 2018 (File No. 001-11038)</u></a>
10.13	Executive Employment Agreement dated as of November 18, 2011 between Northern Technologies International Corporation and G. Patrick Lynch*	<a href="#"><u>Incorporated by reference to Exhibit 10.13 to NTIC's Annual Report on Form 10-K for the fiscal year ended August 31, 2011 (File No. 001-11038)</u></a>
10.14	Confidential Information, Inventions Assignment, Noncompetition and Non-Solicitation Agreement dated as of November 18, 2011 between Northern Technologies International Corporation and G. Patrick Lynch*	<a href="#"><u>Incorporated by reference to Exhibit 10.14 to NTIC's Annual Report on Form 10-K for the fiscal year ended August 31, 2011 (File No. 001-11038)</u></a>
10.15	Executive Employment Agreement dated as of November 18, 2011 between Northern Technologies International Corporation and Matthew C. Wolsfeld*	<a href="#"><u>Incorporated by reference to Exhibit 10.15 to NTIC's Annual Report on Form 10-K for the fiscal year ended August 31, 2011 (File No. 001-11038)</u></a>
10.16	Confidential Information, Inventions Assignment, Noncompetition and Non-Solicitation Agreement dated as of November 18, 2011 between Northern Technologies International Corporation and Matthew C. Wolsfeld*	<a href="#"><u>Incorporated by reference to Exhibit 10.16 to NTIC's Annual Report on Form 10-K for the fiscal year ended August 31, 2011 (File No. 001-11038)</u></a>
10.17	Amended and Restated Committed Line of Credit Note dated as of January 10, 2011 issued by Northern Technologies International Corporation to PNC Bank, National Association	<a href="#"><u>Incorporated by reference to Exhibit 10.2 to NTIC's Current Report on Form 8-K as filed with the Securities and Exchange Commission on January 12, 2011 (File No. 001-11038)</u></a>
10.18	Loan Agreement dated as of January 10, 2011 between Northern Technologies International Corporation and PNC Bank, National Association	<a href="#"><u>Incorporated by reference to Exhibit 10.6 to NTIC's Current Report on Form 8-K as filed with the Securities and Exchange Commission on January 12, 2011 (File No. 001-11038)</u></a>
10.19	Waiver and First Amendment to Loan Documents dated as of January 10, 2012 between Northern Technologies International Corporation and PNC Bank, National Association	<a href="#"><u>Incorporated by reference to Exhibit 10.6 to NTIC's Quarterly Report on Form 10-Q for the fiscal quarter ended November 30, 2011 (File No. 001-11038)</u></a>

10.20	Waiver and Second Amendment to Loan Documents dated December 11, 2012 between Northern Technologies International Corporation and PNC Bank, National Association	<a href="#"><u>Incorporated by reference to Exhibit 10.1 to NTIC's Quarterly Report on Form 10-Q for the fiscal quarter ended November 30, 2012 (File No. 001-11038)</u></a>
10.21	Letter dated December 31, 2013 to Northern Technologies International Corporation from PNC Bank, National Association	<a href="#"><u>Incorporated by reference to Exhibit 10.1 to NTIC's Quarterly Report on Form 10-Q for the fiscal quarter ended February 28, 2014 (File No. 001-11038)</u></a>
10.22	Letter dated January 8, 2015 to Northern Technologies International Corporation from PNC Bank, National Association	<a href="#"><u>Incorporated by reference to Exhibit 10.1 to NTIC's Quarterly Report on Form 10-Q for the fiscal quarter ended February 28, 2015 (File No. 001-11038)</u></a>
10.23	Amendment to Loan Documents dated January 6, 2016 by and between Northern Technologies International Corporation from PNC Bank, National Association	<a href="#"><u>Incorporated by reference to Exhibit 10.1 to NTIC's Quarterly Report on Form 10-Q for the fiscal quarter ended February 29, 2016 (File No. 001-11038)</u></a>
10.24	Letter Agreement effective as of January 11, 2017 between PNC Bank, National Association and Northern Technologies International Corporation	<a href="#"><u>Incorporated by reference to Exhibit 10.1 to NTIC's Quarterly Report on Form 10-Q for the fiscal quarter ended November 30, 2016 (File No. 001-11038)</u></a>
10.25	Letter Agreement effective as of January 5, 2018 between PNC Bank, National Association and Northern Technologies International Corporation	<a href="#"><u>Incorporated by reference to Exhibit 10.1 to NTIC's Quarterly Report on Form 10-Q for the fiscal quarter ended November 30, 2017 (File No. 001-11038)</u></a>
10.26	Letter Agreement effective as of January 8, 2019 between PNC Bank, National Association and Northern Technologies International Corporation	<a href="#"><u>Incorporated by reference to Exhibit 10.1 to NTIC's Quarterly Report on Form 10-Q for the fiscal quarter ended November 30, 2018 (File No. 001-11038)</u></a>
10.27	Letter Agreement effective as of December 16, 2019 between PNC Bank, National Association and Northern Technologies International Corporation	<a href="#"><u>Incorporated by reference to Exhibit 10.1 to NTIC's Quarterly Report on Form 10-Q for the fiscal quarter ended November 30, 2019 (File No. 001-11038)</u></a>
10.28	Purchase and Sale Agreement dated as of July 14, 2014 between Northern Technologies International Corporation and Glen Willow Holdings, LLC	<a href="#"><u>Incorporated by reference to Exhibit 10.1 to NTIC's Current Report on Form 8-K as filed with the Securities and Exchange Commission on July 15, 2014 (File No. 001-11038)</u></a>
10.29	Consulting Agreement dated January 11, 2017 by and among Northern Technologies International Corporation, BioPlastic Polymers LLC, and Ramani Narayan, Ph.D.	<a href="#"><u>Incorporated by reference to Exhibit 10.2 to NTIC's Quarterly Report on Form 10-Q for the fiscal quarter ended November 30, 2016 (File No. 001-11038)</u></a>
14.1	Code of Ethics	<a href="#"><u>Incorporated by reference to Exhibit 14.1 to NTIC's Annual Report on Form 10-KSB for the fiscal year ended August 31, 2004 (File No. 001-11038)</u></a>

21.1	Subsidiaries of the Registrant	<a href="#">Filed herewith</a>
23.1	Consent of Baker Tilly US, LLP	<a href="#">Filed herewith</a>
31.1	Certification of President and Chief Executive Officer Pursuant to SEC Rule 13a-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002	<a href="#">Filed herewith</a>
31.2	Certification of Chief Financial Officer Pursuant to SEC Rule 13a-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002	<a href="#">Filed herewith</a>
32.1	Certification of President and Chief Executive Officer Pursuant to Rule 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002	<a href="#">Furnished herewith</a>
32.2	Certification of Chief Financial Officer Pursuant to Rule 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002	<a href="#">Furnished herewith</a>
101	The following materials from Northern Technologies International Corporation's Annual Report on Form 10-K for the fiscal year ended August 31, 2020, formatted in XBRL (Extensible Business Reporting Language): (i) the Consolidated Balance Sheets, (ii) the Consolidated Statements of Operations, (iii) the Consolidated Statements of Comprehensive Income (Loss), (iv) the Consolidated Statements of Equity, (v) the Consolidated Statements of Cash Flows, and (vi) Notes to Consolidated Financial Statements	Filed herewith

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\* A management contract or compensatory plan or arrangement.

**Item 16. FORM 10-K SUMMARY**

**None.**

## SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

### NORTHERN TECHNOLOGIES INTERNATIONAL CORPORATION

November 13, 2020

By: /s/ G. Patrick Lynch  
G. Patrick Lynch  
President and Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

<u>Name</u>	<u>Title</u>	<u>Date</u>
<u>/s/ G. Patrick Lynch</u> G. Patrick Lynch	President and Chief Executive Officer and Director (principal executive officer)	November 13, 2020
<u>/s/ Matthew C. Wolsfeld, CPA</u> Matthew C. Wolsfeld, CPA	Chief Financial Officer and Corporate Secretary (principal financial and accounting officer)	November 13, 2020
<u>/s/ Richard J. Nigon</u> Richard J. Nigon	Chairman of the Board	November 13, 2020
<u>/s/ Nancy E. Calderon</u> Nancy E. Calderon	Director	November 13, 2020
<u>/s/ Sarah E. Kemp</u> Sarah E. Kemp	Director	November 13, 2020
<u>/s/ Soo Keong Koh</u> Soo Keong Koh	Director	November 13, 2020
<u>/s/ Sunggyu Lee, Ph.D.</u> Sunggyu Lee, Ph.D.	Director	November 13, 2020
<u>/s/ Ramani Narayan, Ph. D.</u> Ramani Narayan, Ph.D.	Director	November 13, 2020
<u>/s/ Konstantin von Falkenhausen</u> Konstantin von Falkenhausen	Director	November 13, 2020

**NORTHERN TECHNOLOGIES INTERNATIONAL CORPORATION**  
**DESCRIPTION OF SECURITIES REGISTERED PURSUANT TO SECTION 12 OF**  
**THE SECURITIES EXCHANGE ACT OF 1934**

Northern Technologies International Corporation, a Delaware corporation (referred to as NTIC, we, us and our), has only one class of securities registered under Section 12 of the Securities Exchange Act of 1934, as amended: common stock, par value \$0.02 per share (common stock).

The following description of our common stock is a summary and does not purport to be complete. It is subject to and qualified in its entirety by reference to our Restated Certificate of Incorporation, as amended (Charter), and our Amended and Restated Bylaws (Bylaws), which are filed as exhibits to our Annual Report on Form 10-K for the fiscal year ended August 31, 2020 and are incorporated by reference herein. We encourage you to read our Charter, our Bylaws and the applicable provisions of the General Corporation Law of the State of Delaware (DGCL) for additional information.

**Authorized Shares**

Our Charter authorizes the issuance of up to 15,010,000 shares of capital stock, consisting of:

- 15,000,000 shares of common stock; and
- 10,000 shares of preferred stock, no par value per share (preferred stock).

As of August 31, 2020, we had 9,099,990 shares of common stock outstanding and no preferred stock outstanding.

We may amend from time to time our Charter to increase the number of authorized shares of common stock or preferred stock. Any such amendment would require the approval of the holders of a majority of the voting power of the shares entitled to vote thereon.

**Voting Rights**

Each holder of our common stock is entitled to one vote per share registered in the holder's name on our books on all matters submitted to a vote of stockholders. Our common stock does not have cumulative voting rights. Our Bylaws provide that, in all matters, other than the election of directors and except as otherwise required by law, the Charter, or the Bylaws, the affirmative vote of a majority of the voting power of the shares present or represented by proxy at the meeting and entitled to vote on the subject matter shall be the act of the stockholders. Directors shall be elected by a plurality of the voting power of the shares present in person or represented by proxy at the meeting and entitled to vote on the election of directors.

**Dividend Rights**

Subject to applicable law and the rights, if any, of the holders of outstanding shares of any series of preferred stock we may designate and issue in the future, holders of our common stock are entitled to receive ratably the dividends, if any, at such times and in such amounts as may be declared by the Board. Dividends may be paid in cash, in property, or in shares of the capital stock, subject to the provisions of the Charter. Before payment of any dividend, there may be set aside out of any funds of NTIC available for dividends such sum or sums as the directors from time to time, in their absolute discretion, think proper as a reserve or reserves to meet contingencies, or for equalizing dividends, or for repairing or maintaining any property of NTIC, or for such other purpose as the directors think is in the best interest of NTIC, and the directors may modify or abolish any such reserve in the manner in which it was created.

## **Liquidation Rights**

If there is a liquidation, dissolution or winding up of NTIC, subject to applicable law and the rights, if any, of the holders of outstanding shares of any series of preferred stock we may designate and issue in the future, holders of our common stock are entitled to share ratably in all the assets that remain after we pay our liabilities.

## **Other Rights and Preferences**

Holders of our common stock do not have preemptive or subscription rights, and they have no right to convert their common stock into any other securities, and there are no redemption or sinking fund provisions applicable to our common stock. The rights, preferences, and privileges of common stockholders are subject to the rights of the stockholders of any series of preferred stock which we may designate in the future. Our Charter and Bylaws do not restrict the ability of a holder of common stock to transfer his or her shares of common stock. All currently outstanding shares of our common stock are fully paid and nonassessable.

## **Transfer Agent and Registrar**

The transfer agent and registrar for our common stock is Broadridge Financial Services.

## **Exchange Listing**

Our common stock is listed on the Nasdaq Global Market under the symbol "NTIC."

## **Anti-Takeover Effects of Certain Provisions of our Charter and Bylaws and the DGCL**

Our Charter and Bylaws and the DGCL contain provisions that may have the anti-takeover effect of delaying, deferring or preventing a change in control of NTIC.

### ***Anti-Takeover Provisions in our Charter and Bylaws***

Our Charter and Bylaws contain the following anti-takeover provisions that may have the anti-takeover effect of delaying, deferring or preventing a change in control of NTIC:

- We have shares of common stock and preferred stock available for future issuance without stockholder approval. The existence of unissued and unreserved common stock and preferred stock may enable the Board of Directors to issue shares to persons friendly to current management or to issue preferred stock with terms that could render more difficult or discourage a third-party attempt to obtain control of us by means of a merger, tender offer, proxy contest or otherwise, thereby protecting the continuity of our management.
- The Board of Directors may adopt, amend or repeal our Bylaws, subject to the reserved power of the stockholders to adopt, amend or repeal our Bylaws.
- Special meetings of our stockholders may be called only by our Chairman of the Board, Chief Executive Officer or President at the request in writing of stockholders owning a majority in the amount of the entire capital stock of NTIC issued and outstanding and entitled to vote.
- Stockholders must follow advance notice procedures to submit proposals for business to be brought before an annual meeting of stockholders. Additionally, stockholders must follow advance notice procedures to propose nominees for election to our Board of Directors at an annual meeting of stockholders.
- Subject to the rights, if any, of the holders of any series of preferred stock then outstanding, vacancies and newly created directorships resulting from any increase in the authorized number of directors may be filled by a majority of the directors then in office though less than a quorum, and each director so chosen shall hold office until the next annual election or until a successor is duly elected and qualified or until his or her earlier death, resignation or removal as hereinafter provided.

### ***Delaware Business Combination Statute***

We are a Delaware corporation and are subject to Section 203 of the DGCL, known as the Delaware Business Combination Statute. In general, Section 203 of the DGCL prohibits a publicly-held Delaware corporation from engaging in a “business combination” with an “interested stockholder” for a period of three years following the time at which the stockholder became an interested stockholder, unless:

- Prior to the time the stockholder became an interested stockholder, the board of directors of the corporation approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder;
- Upon consummation of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced, exclusive of shares owned by directors who are also officers and by certain employee stock plans; or
- At or subsequent to such time, the business combination is approved by the board of directors and authorized at an annual or special meeting of the stockholder by the affirmative vote of at least two-thirds of the outstanding voting stock that is not owned by the interested stockholder.

Generally, for purposes of the Delaware Business Combination Statute, a “business combination” includes a merger, asset or stock sale or other transaction resulting in a financial benefit to the interested stockholder, and an “interested stockholder” is a person who owns, individually or through other persons, 15% or more of the corporation’s outstanding voting stock at any time within the three-year period immediately before the date of determination.

## SUBSIDIARIES OF THE REGISTRANT

<b>Name of Subsidiary</b>	<b>State or Other Jurisdiction of Incorporation or Organization</b>	<b>Ownership Interest</b>	<b>Names Under Which Subsidiary Does Business</b>
NTI ASEAN LLC	Delaware	60%	Same
Northern Technologies Holding Company, LLC	Delaware	100%	Same
Natur-Tec India Private Limited	India	75%	Same
Natur Tec Lanka (Pvt) Ltd	Sri Lanka <sup>(1)</sup>	75%	Same
Zerust Prevenção de Corrosão S.A.	Brazil	85%	Same
NTIC (Shanghai) Co., Ltd.	China	100%	Same
ZERUST-EXCOR MEXICO, S. de R.L. de C.V	Mexico	100%	Same
NTIC Europe GmbH	Germany	100%	Same
Zerust Singapore Pte Ltd	Singapore <sup>(2)</sup>	60%	Same
Zerust Vietnam Co. Ltd	Vietnam <sup>(2)</sup>	60%	Same

(1) Natur Tec Lanka (Pvt) Ltd. is 100% owned by Natur-Tec India Private Limited and, therefore, indirectly owned by Northern Technologies International Corporation.

(2) Zerust Singapore Pte Ltd and Zerust Vietnam Co. Ltd are 100% owned by NTI Asean LLC and, therefore, indirectly owned by Northern Technologies International Corporation.

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in the Registration Statements on Form S-8 (File Nos. 333-140244, 333-140245, 333-171828, and 333-229391) of Northern Technologies International Corporation and Subsidiaries of our report dated November 13, 2020, relating to the consolidated financial statements, which appears on page 50 of this annual report on Form 10-K for the fiscal year ended August 31, 2020.

/s/ Baker Tilly US, LLP

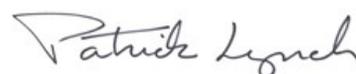
Minneapolis, Minnesota  
November 13, 2020

## CERTIFICATION PURSUANT TO SECTION 302(a) OF THE SARBANES-OXLEY ACT OF 2002

I, G. Patrick Lynch, certify that:

1. I have reviewed this annual report on Form 10-K of Northern Technologies International Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 13, 2020



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G. Patrick Lynch  
President and Chief Executive Officer  
(principal executive officer)

## CERTIFICATION PURSUANT TO SECTION 302(a) OF THE SARBANES-OXLEY ACT OF 2002

I, Matthew C. Wolsfeld, certify that:

1. I have reviewed this annual report on Form 10-K of Northern Technologies International Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 13, 2020



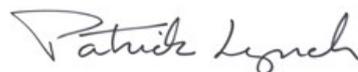
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Matthew C. Wolsfeld, CPA  
Chief Financial Officer and Corporate Secretary  
(principal financial officer)

**CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT  
TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report of Northern Technologies International Corporation (the "Company") on Form 10-K for the period ending August 31, 2020 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, G. Patrick Lynch, President and Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge and belief:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.



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G. Patrick Lynch  
President and Chief Executive Officer  
(principal executive officer)

Circle Pines, Minnesota  
November 13, 2020

**CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT  
TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report of Northern Technologies International Corporation (the "Company") on Form 10-K for the period ending August 31, 2020 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Matthew C. Wolsfeld, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge and belief:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.



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Matthew C. Wolsfeld, CPA  
Chief Financial Officer and Corporate Secretary  
(principal financial officer and principal accounting officer)

Circle Pines, Minnesota  
November 13, 2020