



ROTOGRO

ASX Release

22 December 2020

RotoGro to Partner with Canadian University for Agricultural Technology Peer Review Studies

Roto-Gro International Limited (ASX:RGI) (“**RotoGro**” or the “**Company**”) is pleased to announce that it is in discussions with three Canadian universities to conduct peer review studies to validate the Company’s research data for its patented and proprietary agricultural cultivation technology.

Highlights

- RotoGro currently in discussions with three- Canadian universities to conduct peer review studies to validate the Company’s research data for its patented and proprietary agricultural cultivation technology
- RotoGro’s research demonstrates that its patented and proprietary agricultural technology produces significant yield advantages compared to other indoor vertical farming technologies
- RotoGro’s plant nutrient management system recycles approximately 95% of the water used in the system and RotoGro’s supporting, automated technology reduces human intervention in the cultivation area, resulting in reduced labour costs

The Company’s Research

Over the past 18 months, RotoGro conducted continuous studies internally on its patented and proprietary agricultural technology. These studies focussed on testing both the long-term viability and reliability of RotoGro’s new Model 710 Rotational Garden System (the “**Model 710**” or the “**Garden System**”), together with its supporting, automated technology (the “**Automated Technology**”) and RotoGro’s Enterprise Edition iGrow® Software System (the “**iGrow® Software**”). The Garden System and the Automated Technology were subjected to various physical adversities, including scheduled specific component failures, relatively harsh environmental conditions, repetitive movement and other full-unit instabilities and exposure to other mechanical vulnerabilities. These tests enabled RotoGro’s Research and Design Team to assess the Garden Systems and Automated Technology performance in reaction to the various stresses of a

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commercial-scale operation. The efficacy of the Company's iGrow[®] Software was also tested by RotoGro's in-house Software Team for stresses such as data exposure, coding faults and security breaches. RotoGro's Plant Science Team also conducted numerous studies throughout the cultivation cycles. These studies were specific to the crop type cultivated in the Garden Systems focussing on lighting spectrums, system revolution speeds, growing medium types, nutrient feeding parameters, environmental controls, and cycle times. The data arising from the Company's studies of the Garden Systems, Automated Technology, iGrow[®] Software, and crop cycles will be employed by the Company to promote both its comparative and competitive advantages.

RotoGro Achieves Superior Crop Yields and Full-Harvest Crop Times

Each Model 710 produces approximately 88.32 kilograms of leafy greens throughout each 21-day cultivation cycle. This significant production metric is attributable to the intrinsic features of the Garden Systems, including its proprietary full-spectrum LED lighting system and the direct injection feed system. For each 21-day crop cultivation cycle, the Garden Systems (when stacked three-high) produce 264.96 kilograms of leafy greens for every 6.22m² of floor space in the cultivation area. This equates to an annual production of approximately 4,503.32 kilograms of leafy greens for every 6.22m² of floor space.

RotoGro's Proprietary Fertigation System Recycles 95% of Water

RotoGro's proprietary fertigation system (also referred to as its plant nutrient management system) was designed by the Company's Research and Design Team to work seamlessly with the Garden Systems. This fertigation system, complete with a state-of-the-art reverse osmosis and dehumanisation systems, is a closed-loop system. Accordingly, the water used throughout the crop cultivation cycles is recaptured, reconditioned, and reused, allowing RotoGro to recycle up to 95% of the water used.

RotoGro's Supporting, Automated Technology Significantly Lowers Operating Costs

Cultivation with the Model 710 is entirely automated. Limiting the amount of human intervention in the cultivation process reduces the potential introduction of harmful pests and/or pathogens into the cultivation environment, and significantly reduces labour costs. The supporting, automated technology for the Model 710 includes RotoGro-designed elevator systems, motorized actuators, a

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seamless plant nutrient management system (by way of RotoGro's proprietary fertigation system), and automated guided vehicles (the "AGVs") throughout the cultivation area. The operation of the entire facility is controlled by RotoGro's Enterprise Edition iGrow[®] Software System.

With the completion of its substantial internal testing, RotoGro is pleased to confirm that its new, full-facility agricultural cultivation technology is ready for independent, third-party study and verification. The Company is currently in discussions with the plant sciences departments of three Canadian universities to discuss potential synergies for peer review studies.

Study Focus

RotoGro is currently assessing each university's science curricula and the quality of its research laboratories. RotoGro has proposed that these prospective academic partners focus on the verification of RotoGro's internally generated data, with specific focus on the verification of RotoGro's crop cultivation data, together with recommendations for the continued optimization of RotoGro's technology throughout plant cultivation cycles. The Company will keep the market updated once the partnerships are formalised.

RotoGro's COO, Mr. Michael Di Tommaso, states, "It is critically important that RotoGro's data is verified by third-parties. Independent verification of the benefits of the Company's patented and proprietary technology (focussing on our Model 710 Garden System and its supporting, automated technology) will validate both its comparative and competitive advantages. Securing synergistic opportunities with third parties, especially respected academic institutions, is essential to achieving this objective. The proposed engagements with reputable Canadian universities will help RotoGro achieve agri-tech market recognition, solidifying its position at the forefront of indoor vertical farming technology market space".

--ENDS--

This announcement is authorised for release to the market by the Board of Directors of Roto-Gro International Limited.

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About Roto-Gro International Limited

Roto-Gro International Limited (“**RotoGro**”) is an Australian company which utilises its state-of-the-art, automated agricultural cultivation technology to provide sustainable and cost-effective solutions to both conventional and indoor vertical farms. The Company’s global operations are focused on the cultivation of perishable food (produce) and lawful cannabis utilising its proprietary, patented, and patents-pending technology in the indoor vertical farming space.

The core of RotoGro’s technology is its patented Rotational Garden Systems which provides for greater space savings and yields with lower operating costs compared to other farms utilising different technologies. RotoGro’s Rotational Garden Systems are supported by the Company’s proprietary iGrow Enterprise Edition software, state-of-the-art nutrient management system and in-house design and engineering services.

RotoGro’s in-house engineering teams provide consultative services for full facility designs to produce state-of-the-art facilities equipped with RotoGro’s technology. Similarly, RotoGro’s research and design teams work with its existing customers to ensure their long-term success cultivating high-quality crops.

RotoGro has formalised a collaboration with Verity Greens Inc. for the cultivation of perishable foods (produce). This venture is reliant upon RotoGro’s technology to produce greater yields with lower operating costs. In addition, RotoGro continues to nurture relationships for technology sales and growing management services in the lawful cannabis cultivation space, globally.

RotoGro maintains its focus on expansion into industry synergistic opportunities and exploring strategic partnerships in the perishable food (produce) space and the lawful cannabis space, while sourcing lawful cannabis cultivation license ownership opportunities, engaging in growing management services contracts, and providing the agricultural industry with industry-leading nutrient management systems and supporting, automated technology.

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