



ROTOGRO

Medical Cannabis Trials Indicate Twice the Yield at Half the Cost

- The RotoGro unit consistently yields more than 3 pounds of medical cannabis per 1,000 watts of energy for lighting. This amount is twice the industry average of 1.5 pounds of medical cannabis per 1,000 watts of energy for lighting in traditional flatbed hydroponic growing systems.
- RotoGro's proprietary lighting and cooling systems consume approximately 50% of the electric power normally consumed by traditional flatbed hydroponic growing systems.
- The RotoGro System offers the potential for significant savings for key operational overhead costs including rent, electric power and labour charges.
- RotoGro trials indicate that the cost of each RotoGro unit may be recouped in a single grow cycle, resulting in significant cost savings and financial benefits for licensed medical cannabis producers.

Roto-Gro World Wide (Canada) Inc., a wholly owned subsidiary of Roto-Gro International Limited (**ASX:RGI** or the "**Company**"), has commissioned a series of medical cannabis trials which validate the competitive advantages of the RotoGro System over traditional flatbed hydroponic growing systems. These trials were designed to replicate growing conditions and environments for the same plant species in adjacent rooms involving the same input parameters including building space, power consumption and labour.

The RotoGro System's unique stackable design (two adjacent arrays of three stacked RotoGro units) provides nine (9) times the surface area for growing compared to a traditional single deck flatbed growing system occupying the same floor space. RotoGro's System exposes plants to the positive effects of gravitropism with each rotation of its growing drum. Research has demonstrated that a plant's response to gravity regulates the movement of the plant hormone *auxin* in relation to gravitational influence (Swarup et al., 2005). *Auxin* stimulation in the roots promotes a denser and more active root structure resulting in greater nutrient uptake and much larger yields to the flowers and buds of a plant grown in the RotoGro System. The trials consistently show an increase in yield greater than 30% per plant grown in the RotoGro System in comparison to the yield per plant grown in a traditional flatbed hydroponic system.

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The trials also show that each plant's access to the same amount of light energy in the RotoGro System results in yields of consistent plant size, quality and potency (owing to the RotoGro's System's central distribution of light energy). RotoGro's unique lighting system provides 360 degrees of radiant light energy as compared to 180 degrees in traditional flatbed hydroponic systems. RotoGro's HPS lamps (encased in a glass tube) are cooled at source by a directly connected ventilation system which reduces the costs to cool the entire grow room. This unique cooling system results in the RotoGro System consuming 50% of the energy for lighting and cooling compared to a traditional flatbed hydroponic growing system.

In addition to these significant cost and yield advantages, the trials indicate that each RotoGro unit has the potential to grow 6 to 10 pounds of medical cannabis for each grow cycle (plant strain and grower-expertise dependant). Analysing energy consumption, each RotoGro Unit yields more than 3 pounds of medical cannabis per 1,000 watts of energy for lighting. The industry average for traditional flatbed hydroponic growing systems is 1.5 pounds of medical cannabis per 1,000 watts of energy for lighting. Based on these metrics and the average sales price per pound of medical cannabis in North America, RotoGro projects that the cost of each RotoGro unit may be recouped in a single grow cycle, resulting in significant cost savings and financial benefits for licensed medical cannabis producers.

Managing Director, Michael Carli stated, "The results of these trials show that the RotoGro System is a technological industry-leader for growing medical cannabis. The Roto-Gro System's ability not only to reduce growing costs but to increase yields significantly has resulted in a flood of inquiries from emerging licensed medical cannabis producers and micro farmers the world over."

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For more information please contact

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About Roto-Gro International Limited

Roto-Gro International is an Australian based company with a worldwide exclusive licence to manufacture and distribute the Roto-Gro; advanced automated rotary hydroponic vertical farming system to medical cannabis producers, distributors and resellers, and a worldwide licence to distribute the Roto-Gro System for all other purposes including pharmaceuticals, health and nutrition supplements, nutraceuticals and perishable foods.

The Company is also focused on expanding into industry synergistic opportunities; exploring strategic partnerships and complimentary acquisitions in related markets.

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