



ASX and MEDIA RELEASE

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## Roots and Seach Medical Group to research Root Zone Temperature Optimization "RTZO" technology on Cannabis

- Seach is a leading Israeli medicinal cannabis producer listed on the Tel Aviv Stock Exchange
- Research to be conducted over one growing cycle (Dec 2019 – Mar 2020) during the Israeli winter at Seach Medical Group premises in the centre of Israel
- Research to examine effect of RTZO on different variations of plant, including weight, EC, PH and soil moisture amongst other variables

Roots Sustainable Agricultural Technologies Limited (ASX: ROO, Roots or Company) is pleased to advise that it has signed a collaboration agreement with Tel Aviv Stock Exchange Listed medicinal cannabis producer, Seach Medical Group Ltd (TASE: SEMG, Seach) to research the effect of Root's patented Root Zone Temperature Optimization (RTZO) technology on cannabis crops.

Seach is one of Israel's preeminent medicinal cannabis companies that has been growing top quality medicinal cannabis since 2008 and supplying various forms to patients with a medical cannabis licence issued by the Israeli Ministry of Health.

Roots and Seach will test the effects that RTZO technology has on the weight, EC, PH and soil moisture levels of cannabis crops. Testing will be undertaken at Seach's premise in Givat Chen, Israel, over the Israeli winter (Dec 2019 – Mar 2020), being one growing cycle with results reported shortly thereafter.

Research will be undertaken by Seach's Chief Grower, Nitzan Lotringer (Bsc & MBA from Ben Gorion University) and Roots' Chief Agronomist, Eli Vered (also former senior Agronomist at Netafim).

This research builds on the trial that Roots has previously conducted on medicinal cannabis during hotter months (ASX announcement: 9 July 2018). This trial demonstrated an increase of approximately 40% in a fully acclimatized environment. These results, and further validation from this collaboration, will leave Roots well positioned to capitalise on the rapidly growing medicinal cannabis industry.

**Roots CEO, Sharon Devir said:** *"This research collaboration provides Roots with another opportunity to prove the efficacy of its patented RTZO technology in a rapidly growing industry. Our technology has had a positive impact on cannabis yields previously and we are confident that results from this research will have the same effect. It will surely contribute to RTZO technology becoming essential for cannabis growers the world over."*

**Seach Medical Group CEO, Yogev Sarid added:** *"Seach has been engaged in improving cannabis cultivation since its inception in Israel and we constantly look for new technologies as part of our R&D strategy to improve the cultivation process further. We regard Roots as a highly dedicated and credible partner and we look forward to starting this mutual collaboration."*

-ENDS-



### **About Roots Sustainable Agricultural Technologies Ltd**

Israeli-based, Roots Sustainable Agricultural Technologies Ltd. is developing and commercialising disruptive, modular, cutting-edge technologies to address critical problems faced by agriculture today, including plant climate management and the shortage of water for irrigation.

Roots has developed proprietary know-how and patents to optimise performance, lower installation costs, and reduce energy consumption to bring maximum benefit to farmers through their two-in-one root zone heating and cooling technology and off the grid irrigation by condensation technology.

Roots is a graduate company of the Office of the Israeli Chief Scientist Technological Incubator program.

More information [www.Rootssat.com](http://www.Rootssat.com)

### **About Root Zone Temperature Optimization (RZTO)**

Root Zone Temperature Optimization (RZTO) optimises plant physiology for increased growth, productivity and quality by stabilising the plant's root zone temperature. Leveraging the principle of Ground Source Heat Exchange (GSHE), ROOTS installs a closed-loop system of pipes. The lower part is installed at a depth where soil temperature is stable and not affected by weather extremes, and the upper part in the target crop's root zone just below the soil surface. Water flowing through the lower pipes is charged by the soil's stable temperature. The heated (or cooled) water is pumped through the pipes installed in the root zone, where the heat (or cold) is discharged.

This significantly increases yields, increases growing cycle planting options, improves quality, mitigates extreme heat and cold stress while significantly reducing energy consumption by stabilising and optimising the ROOTS zone temperature.

### **About Seach Medical Group Ltd**

The Seach company has been growing top-quality medical cannabis strains since 2008. This medical cannabis, in its various forms, is supplied to patients with a medical cannabis license issued by the Ministry of Health. We offer a wide variety of strains and products suitable to all clients and guarantee a year-round supply of medication as well as personal service by the dedicated staff at our company offices. Seach constantly works to develop new strains and products that are customized to respond to the needs of patients and doctors.

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