

8 December 2022

## **Roots further strengthens its intellectual property suite with certificate of design registration in Israel**

### **Highlights:**

- **Certificate of design registration awarded from the Israeli Patent Office for Roots' revolutionary Heat Exchange Probe ("HEP") technology**
- **HEP technology is designed to heat or cool plant substrates in pots, grow bags or soil**
- **It is compatible with Root Zone Temperature Optimisation ("RZTO") technology and delivers a number of benefits to users including cost reduction, shortened crop cycles and increased yields**
- **Design registration rounds out the group's IP protection footprint across major global markets, including the US, UK, China and the European Union**
- **Highlights the Company's ongoing R&D and product commercialisation abilities**

**Roots Sustainable Agricultural Technologies Limited (ASX: ROO, Roots or the Company)** is pleased to advise that it has secured a certificate of design registration from the Israeli Patent Office for the Company's revolutionary Heat Exchange Probe ("HEP") technology.

The HEP is designed to heat or cool plant substrates in pots, grow bags and soil. The innovative technology is compatible with the Company's Root Zone Temperature Optimisation ("RZTO") system, allowing for streamlined, cost-effective installation and energy saving operation.

The HEP allows farmers to reduce air heating and cooling expenditures creating a sustainable solution for the agricultural industry, which also increases crop yield and shortens grow cycles. The design highlights the continual innovation capabilities and considerable R&D, and field trial done by the Company to develop and commercialise the technology.

The design registration significantly strengthens the Company's intellectual property portfolio and follows similar patent approvals in other large markets, including the USA (refer ASX announcement: 24 March 2022).

The global jurisdictions where Roots has now achieved IP design registration now comprise most of the world's major markets including China, the European Union, India, Canada and the United Kingdom.

The design registration will provide Roots with registration for an initial period of five years, which may be extended by four periods of five years each, subject to additional applications. The milestone provides the



Company with sufficient IP protection and the ability to ramp up a targeted business development program across Israel.

**Management commentary:**

**CEO Mr Boaz Wachtel said:** *"Roots continues to gain recognition from government regulators in major markets, and this design registration for our HEP technology in Israel highlights the Company's ongoing approach to innovation and product commercialisation."*

*"The design registration adds to the group's IP protection footprint across the US and other major global markets, and provides Roots with the ability to leverage its technology further into Israel. The Company continues to advance business development initiatives with farmers and growers in key markets and anticipates additional sales will materialise in the coming months."*

**-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 management of plant's root zone temperatures 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. Using Ground source heat exchange (GSHE) installations either alone, or in combination with heat pumps, or with heat pumps alone, ROOTS is able to provide accurate range of root zone temperatures for farmer and the plants to obtain the multiple benefits.

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.

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*This announcement was authorised by the Board of Directors of Roots Sustainable Agricultural Technologies Limited.*

**Forward looking statements**

This announcement contains forward-looking statements with respect to ROOTS and its respective operations, strategy, investments, financial performance and condition. These statements generally can be identified by use of



forward-looking words such as "may", "will", "expect", "estimate", "anticipate", "intends", "believe" or "continue" or the negative thereof or similar variations.

The actual results and performance of ROOTS could differ materially from those expressed or implied by such statements. Such statements are qualified in their entirety by the inherent risks and uncertainties surrounding future expectations. Some important factors that could cause actual results to differ materially from expectations include, among other things, general economic and market factors, competition and government regulation.

The cautionary statements qualify all forward-looking statements attributable to ROOTS and persons acting on its behalf. Unless otherwise stated, all forward-looking statements speak only as of the date of this announcement and ROOTS has no obligation to up-date such statements, except to the extent required by applicable laws.