



Sameer Khan

IPPS – STUDENT NOMINATION PRESENTATION - 2018

Objectives

- **Promoting horticultural research**
 - **Improve Plant production Techniques.**
 - **Improve the knowledge and Skillsets**
 - **Better business ethics**
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- A 3D graphic of interlocking puzzle pieces in various colors (blue, green, yellow, red, black) with the Australian flag pattern on one piece.

Qualifications in horticulture

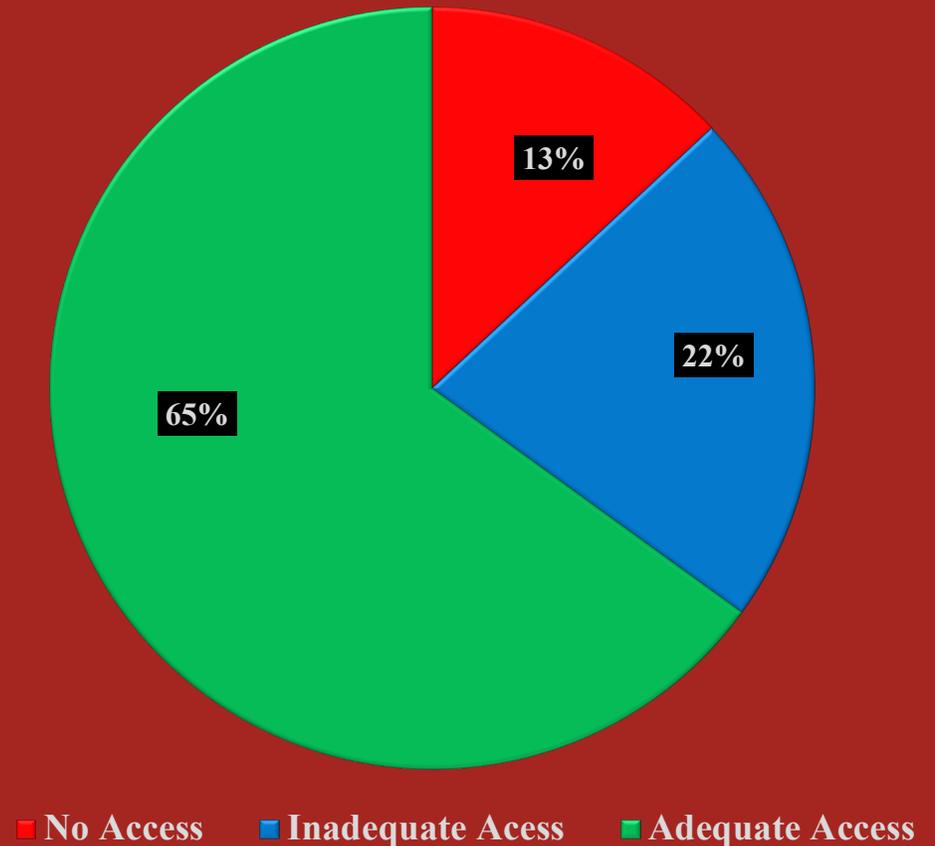
- **National Diploma: Horticulture (16/16 Distinctions - *Cum Laude*).**
- **Bachelor of Technology: Horticulture**
- **Masters Degree (Current): Biotechnology – *Cyanobacteria*.**



Personal Gain to assist South Africa

- **Australia** has managed to produce **enough food for 60 million** individuals which is almost triple the current population size.
- South Africa Has a population size of **56 Million** with approximately **7,3 Million** people experiencing hunger.
- A different measured showed that **12.3 million** people reporting inadequate or severely inadequate food access.

South Africa Food Access Distribution in 2017



Personal Gain to assist South Africa

- Learning and applying Australian growing methods in South Africa
- Forms of water management.
- Alternatives in water harvesting
- New Technology
- Improvise , Adapt , Overcome.



Horticultural field of interest

- Sustainable Horticultural/agricultural practices.
- Current study on improving soil structure and nutrient uptake using cyanobacteria
- The use of these cyanobacteria to Improve saline soils and Deteriorated Soil composition and structure.



Horticultural field of interest

- Sustainable container farms for the use of poverty stricken zones or disaster hit zones.



Combine container farms and cyanobacteria

- **Cyanobacteria can be used to reclaim alkaline soils and fertility can be improved for subsequent cultivation of cereal crops, sugarcane and horticultural crops.**
- **The use of cyanobacteria as a supplement to poor soils.**
- **Faster and more sustainable food farms for disaster hit zones.**
- **Form of sustainable food poverty alleviation in poverty stricken areas.**

Horticultural experience

- SANBI NBG KZN- Nursery and data management
- Durban Botanical gardens - Tissue culture
- King Shaka International Airport – Invasive alien species I.D & Removal



Work Experience

- Newspaper delivery
- Digital Sound and décor
- Catering
- Repairs to Gaming consoles
- Call Centres
- I.T networking and support



“The harder I work,
the luckier I get.”

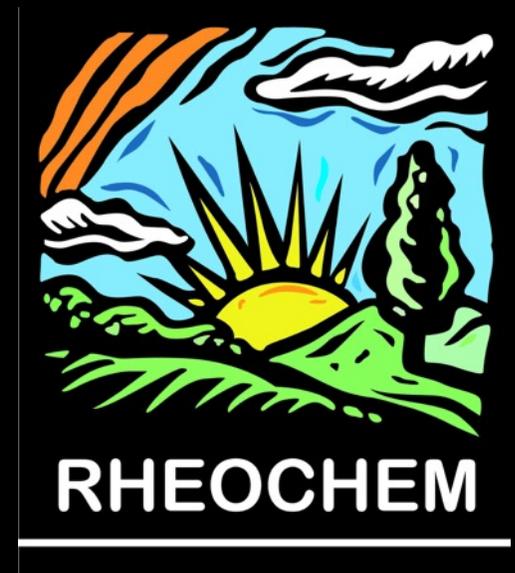
+ -15 years of work experience

Personal Gain

- Interests in Australia's flora and fauna – Enhance knowledge
- Ability to expand my Plant identification and learn the tricks of the trade
- Latest growing techniques – Technologically advanced method of Horticulture
- Never seen a kangaroo in reality 😊

Acknowledgments

- Faculty of applied sciences - Department of Horticulture
- Institute for water and wastewater technology (IWWT).
- RheoChem Pty (LTD).



Thank you IPPS

