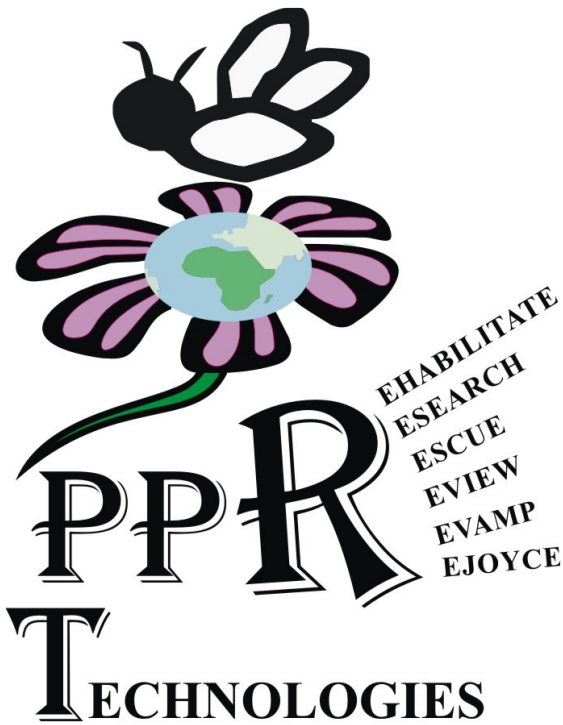


**Enhancing Biodiversity
Compliance
Increased Productivity through
Dedicated Research**

Company Profile

14 years



www.pprrt.co.za

Member: Dr Lenie Venter
Professional Natural Scientist
Professional body SACNASP: 400266/06
B-BBEE contributor level: 4
B-BBEE procurement level: 100%

**Plant Propagation and
Rehabilitation Technologies cc**

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Plant Propagation and Rehabilitation Technologies cc

(CK 1994/014666/23)

Introduction:

PPR Technologies cc has its origins in 1994 with the establishment of CL Solutions cc in Pretoria offering manufacturing and marketing solutions in the botanical research environment. In recent years the company focused more on botanical research, plant propagation, plant rescue and rehabilitation projects therefore the name change to Plant Propagation and Rehabilitation Technologies cc in 2008.

Mission

PPR Technologies cc research and apply propagation technologies which will support South Africa's commitment to protect and enhance our natural biodiversity while identifying opportunities and solutions for food production and economic development.

Services

PPR Technologies cc offers services in:

- ✓ Enhance indigenous plant species diversity in a rehabilitated area.
- ✓ Red Data Plant Species rescue, relocation and propagation
- ✓ Rehabilitation plans for mine and other development industries – Agribusiness projects and mine closure.
- ✓ Develop “on-farm” quality management systems based on GAP and assist with site audits
- ✓ Research in botany, plant reproductive biology/ecology and plant propagation
- ✓ Research proposal development
- ✓ Mentoring of young researchers
- ✓ Document review – Reports, publications, manuscripts etc.
- ✓ Garden design for companies and private landowners
- ✓ Vegetable production projects: One square meter gardening and Hydroponics; Mushroom growing; Compost & vermi-composting



Core Values

- We believe to be honest in all our negotiations and project involvement with our clients, focusing on what will be the best way to address the client's needs.
- Project delivery is very important to us, we are very task driven and take pride in delivering on our promises.

Member and Associates

Dr Helena Maria Venter is the sole member and primary consultant. To be able to address the client's total Land Rehabilitations needs in a professional and cost-effective manner strong relationships have been forged with a group of professional environmental associates. Dr Lenie Venter is also manager of the Environmental rehabilitation/ restoration unit of Eco Info and Associates Environmental Services (Pty) Ltd, a BBBEE level 2 company. She is a member of the Land Rehabilitation Society of Southern Africa (LARSSA) and was a council member 2018 to 2020.

Social Contribution

As part of our practical project implementation, we aim to, as far as possible within the legal framework of the clients' company, give unemployed members from communities in close proximity of the project opportunity to work on the project and be exposed to skills development.

National and International Clients

- Mafube Coal (Pty) Ltd – Exxaro, Thungela and Mafube co-operative
- Thungela (Anglo American)
- Eskom
- EkoInfo cc
- Exxaro
- Seriti Coal Kriel
- Omnia Holdings, Sasol
- CAN AGRI (One Agri CAN)
- Knight Piesold SA
- MMG Kinsevere SARL, Democratic Republic of the Congo
- Mumi Mining SARL – Glencore, Democratic Republic of the Congo

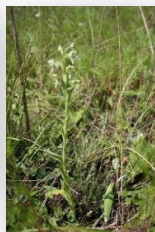
Plant rescue and propagation



Plant rescue offers an opportunity to have a more cost-effective rehabilitation plan for a development site at closure time as well as the conservation of the endemic vegetation of the affected area. Plant rescue offers the opportunity to conserve rare and endangered species. Plants that will be destroyed during development are rescued, relocated and/or kept at PPRT’s nursery or when possible at a holding nursery at the site of the development.



PPR Nursery actively propagates indigenous species. Research is done to determine the most effective seed germination media. Different growing media is tested to determine which media ensures the best survival rate of seedlings. Earthworm (Vermi) compost and earthworm tea is tested in the different media.



Environmental Rehabilitation:
Biodiversity conservation and enhancement



PPR Technologies address rehabilitation projects with the aim to find the best solution for both the client and the environment. Depending on the extent the functioning of natural ecosystem in an area has been disturbed rehabilitation has three different options to consider:

1. Restoration



- All thresholds of ecosystem functionality are still intact.
- Back to the “original”
- Harness natural ecosystem processes

2. Rehabilitation

- To many thresholds of ecosystem functionality has been surpassed
- Re-create a new self sustaining ecosystem
- Human intervention needed until ecosystem becomes self sustaining

3. Re-allocate

- All thresholds of ecosystem functionality has been destroyed
- New use e.g. Agro-forestry
- Permanent human management

We generally aim to apply a soft rehabilitation approach using brush packing, puddling, geojute covering, hand seeding of either commercial seed or spreading of the soil seedbank from the surrounding natural veld.

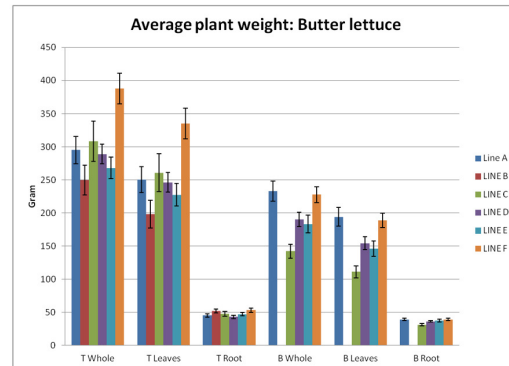
Research and Development



PPR Technologies produce biodiversity mats customized for a specific ecological area and rehabilitation applications. These

mats ensures improved biodiversity, stabilization and erosion prevention.

Research is provided in support of developing food production technologies such as the development of best protocols for hydroponic food production, small scale mushroom production.



Projects in support of self-sustaining food production for the home grower or small producer is a priority for PPRT cc.

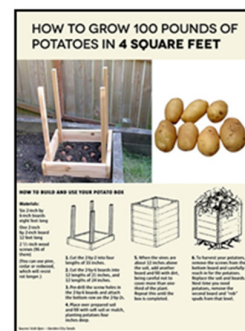
The principle of being self-sufficient in terms of food production is supported through the small 1m x 1m



Vegetable Patch system:

www.Vegpatch.co.za

VP 1: Salad plot		
Bush beans	Radishes	Lettuce B
Lettuce A	Cherry Tomatoes	Cucumber
Rocket (salad)	Spring onions	Lettuce C



Mentoring and Document review

PPR Technologies helps young researchers to develop their potential as upcoming professionals in botanical research. Young researchers are assisted with the identification of short comings in their skills levels and the interventions needed to address them are determined. Through an understanding of the mentee's role in his or her research programs they are assisted in the development of research projects. The mentees are exposed to the professional research network of the mentor.



The more than 17 years' experience of developing proposal and writing reports and scientific papers are applied to ensure quality review of documents, research proposals, project proposals and reports for young researchers and professionals.

Indigenous garden design



In South Africa the preservation and protection of our countries rich biodiversity has been identified as being extremely important, as well as the protection of our water resource. Home and office gardens have also been identified as a possible source of alien invasive plants entering our natural plant resource. Corporate and small business gardens are designed to maximise the institution's contribution to the preservation of SA's biodiversity. A detailed garden plan is developed utilising indigenous species, preferably endemic to the area.



Member profile

Dr. Lenie Venter, consulting researcher and sole member of this closed corporation, has more than 30 years' experience in botanical research. She is registered as a professional natural scientist at the South African Council for Natural Scientific Professions (SACNASP: Reg. no. 400266/06). She has obtained a certificate for Agricultural Business Level 1 and has attended GlobalGAP training during 2018. She has successfully completed accredited Assessor and Moderators training during 2018 and is a SAQA accredited Assessor (Registration nr.: AGR/ASS/2422/19) for AgriSETA since 30 July 2019.



Dr. Venter is author and co-author of more than 90 scientific publications, conference papers/poster and project reports. She is a member of the South African Association of Botanists (SAAB) and the Land Rehabilitation Society of Southern Africa (LaRSSA). She is a council member of LaRSSA since 2018. Dr. Venter is an experienced project leader and has completed several formal and informal project management courses. She has managed research projects as well as large government community projects for the CSIR.

Dr Venter annually updates her Certificate of Fitness (COF) and completes mine safety training (A1.2; AAIM; GTS 1,2,5,6,7,8. Highwall & Slope Stability at KBC or onsite as required by a specific mining company.

For a list of all the projects Dr Venter has been involved in refer to the company's project portfolio.