

06 November 2025

To Whom It May Concern

Confirmation of Support for the Project “Ultra-Oxygen™ Micro & Ultrafine Bubble Generator and DRYLET Biocatalyst Integration”

This letter serves to confirm that the Technology Innovation Agency (TIA) has funded and supported Ultra-Oxygen™ Micro & Ultrafine Bubble Generator and DRYLET Biocatalyst Integration under project number TIA-14727-01.

The Micro and Ultrafine Bubble (MB/UFB) technology is a powerful aeration technology that generates tiny bubbles of oxygen that provide a high surface area for bacterial growth. This technology creates an oxygen-rich environment that promotes the growth of aerobic microorganisms, which are more efficient in degrading pollutants than anaerobic microorganisms. The MB/UFBs also help to reduce the toxicity of pollutants by promoting the biodegradation of contaminants into less harmful compounds.

This project was part of TIA’s mandate to stimulate technology innovation, promote industrialisation, and strengthen local manufacturing capacity.

Under TIA support, Soldevco achieved key milestones, including:

- **Successful design, prototyping, and testing** of the Ultra-Oxygen™ WWtW system, validated through **dissolved oxygen, gas–liquid entrenchment, and flow performance tests** with highly positive results.
- **Integration of DRYLET biocatalyst media**, confirming synergistic effects in pollutant degradation and sludge dewatering.
- **Demonstration projects** at Spier Wine Estate and Klappmuts Wastewater Treatment Works, where results **exceeded market expectations** in COD/BOD removal and operational efficiency
- **Participation in national and international exhibitions**, including **IFAT Africa (July 2025)** and the **Global SME Ministerial Meeting (July 2025)**, representing South African innovation on global platforms.



- Ongoing incubation and business development as part of the GCIP–South Africa Alumni Programme, focusing on commercialisation, market readiness, and youth-driven innovation.

TIA acknowledges Soldevco (Pty) Ltd as a cleantech enterprise contributing to the National System of Innovation (NSI) and advancing key national priorities – water security, circular economy development, and climate resilience. The company's innovation directly supports South Africa's commitments under the UN Sustainable Development Goals (SDGs 6, 9, and 13).

TIA remains supportive of Soldevco's continued innovation journey and its efforts to attract partnerships, investment, and commercial deployment of this proudly South African technology, both locally and internationally.

Yours sincerely,

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Vusi Skosana

Acting Head: Global Cleantech Innovation Programme and Enterprise Development