

## Artemis & Angel Co. Ltd.

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**To:** The Honourable Minister of Agriculture and Food Security, Mr. Lobin Lowe, MP.

**Subject:** Provision of US\$20 Million Per Year (US\$100 Million Over 5 Years), 0% Interest Credit Fund Facility to Provide Liquid, 100% Organic Bio Fertilizers for the Regeneration of Soil and Agriculture in Malawi.

Dear Mr. Lowe,

### Purpose of the Proposal

The purpose of the Credit Fund is to help the government of Malawi to transform agriculture, increase exports, and ensure food security by means of two advanced bio-technology 100% organic, liquid, microbial bio-fertilizers (Bio-Plant and Pro-Plant). The benefits for the country are stated on pages 2-3. Field tests have already been carried out in Malawi.

### Credit Terms

- We can provide the bio-fertilizers on credit with 0% interest to the value of US\$20 million each year (US\$100 million over 5 years) and no change of price over 5 years to achieve this.
- We will provide credit in the form of the bio-fertilizers (not cash) for up to US\$100 million over 5 years. In each year, we will supply the bio-fertilizers, Bio-Plant and Pro-Plant, to the value of US\$20 million. 0% interest. The amount can be increased.
- At the start of each year 30% of the annual amount would be paid while the remaining 70% would be paid after 12 months through a guaranteed Letter of Credit (L/C). The price will not change during the period of the contract, which can be for five years of shipments.
- A Standby Letter of Credit (L/C) guaranteed by an international bank, such as Citibank (USA), Lloyd's Bank (UK), HSBC (Hong Kong), Dresdner Bank (Germany), and Commerzbank (Germany) will be required for each year's shipment over a 12-month period.

### Sample Payment Plan

For each annual shipment we would require payment as shown in the example below:

#### Year Period 1: 1<sup>st</sup> June 2022 - 31<sup>st</sup> May 2023

Payment 1: 1 <sup>st</sup> June 2022	30%	US\$6 million
Payment 2: 31 <sup>st</sup> May 2023	70%	US\$14 million

#### Year Period 2: 1<sup>st</sup> June 2023- 31<sup>st</sup> May 2024

Payment 1: 1 <sup>st</sup> June 2023	30%	US\$6 million
Payment 2: 31 <sup>st</sup> May 2024	70%	US\$14 million

#### Year Period 3: 1<sup>st</sup> June 2024- 31<sup>st</sup> May 2025

Payment 1: 1 <sup>st</sup> June 2024	30%	US\$6 million
Payment 2: 31 <sup>st</sup> May 2025	70%	US\$14 million

#### Year Period 4: 1<sup>st</sup> June 2025 - 31<sup>st</sup> May 2026

Payment 1: 1 <sup>st</sup> June 2025	30%	US\$6 million
Payment 2: 31 <sup>st</sup> May 2026	70%	US\$14 million

#### Year Period 5: 1<sup>st</sup> June 2026 - 31<sup>st</sup> May 2027

Payment 1: 1 <sup>st</sup> June 2026	30%	US\$6 million
Payment 2: 31 <sup>st</sup> May 2027	70%	US\$14 million

## The Main Benefits

- The bio-fertilizers and this Credit Fund will benefit Malawi's agriculture as follows:
  1. *Soil Transformation:* Poor soil can be changed into a crumbly, fertile state, rich in microbial and beneficial insect life by means of organic farming techniques. Crop disease problems cannot be solved until the soil food web and the soil's fertility have been restored.
  2. *Increasing Soil Microbial Life:* Fertile soil with an abundance of microbial life produces higher crop yields; sequesters more carbon; and allows for increased agricultural productivity. Also, an abundance of soil microbes helps plants tolerate hot temperatures and drought brought about by climate change.
  3. *Food Security:* They will enable Malawi to achieve its food security goals.
  4. *Crop Yield Increase:* The bio-fertilisers will increase crop production beyond what chemical agriculture can produce as the soil fertility is restored.
  5. *Reduction of Crop Production Costs:* The use of these organic bio-fertilisers without the need for agrochemical sprays will reduce crop production costs.
  6. *The End of Chemical Farming:* The bio-fertilisers will eradicate chemical agriculture from Malawi. This will ensure that western and other markets do not reject exported produce owing to chemical content.
  7. *Removal of Harmful Chemicals:* Toxic agrochemicals in the soil can be made harmless through microbial bioremediation.
  8. *Reduction in Chemical Residues in Food:* There will be no problem with chemical residue levels in the food products. The EU and Japan, for example, are becoming stricter about chemical residues.
  9. *Mitigation of Effects of Climate Change:* 100% organic crop farming with the bio-fertilisers provides climate-smart practices. Traditional crop regions will not escape because stresses, such as pest and disease pressure and drought, are expected to increase, and crop production losses are inevitable if farmers do not implement regenerative, 100% organic, climate-smart practices quickly and effectively in order to mitigate the increasing effects of climate change.
  10. *Protection of Food Production System:* Regenerative, 100% organic farming helps to protect the food system. The current pandemic, the increasing recurrence of droughts, floods, forest fires and new pests are a constant reminder that our food system is under threat and must become more sustainable and resilient. Organic farming provides the sustainability and resilience. The corona virus crisis has made acutely clear the interrelations between our health, ecosystems, supply chains, consumption patterns, and the planet. Countries need to do much more to keep their population and the planet healthy.
  11. *Global Demand for Healthy Food Products:* Before Covid-19 the global demand for healthy, 100% organic chocolate and crop was vastly unmet. Covid-19 is making consumers more health conscious with the emphasis on chemical-free food products. The Credit Fund will enable Malawi to produce chemical-free, 100% organic products for an unlimited global, 100% organic consumer market.
  12. *Poverty Alleviation:* The crop produce of Malawi will be in demand as the produce will be grown each year with less and less chemicals and pesticides until the country is 100% organic after 3-4 years. This will mean that the farmers can be guaranteed a market and good prices for their crops and that they will become wealthier and poverty will be reduced.
  13. *Water Conservation:* 100% organic farming techniques and the improvement of the soil's microbial life will help farmers to conserve water. This will become very important as droughts increase and the effects of climate change worsen. Organic farming techniques make the soil cooler; improve soil structure so that moisture can be held and made accessible; and increase fungi networks that supply moisture to the roots.
  14. *Ecosystem Protection:* Unlike 100% organic farming chemical agriculture damages the environment and pollutes underground water and waterways. This is especially important nowadays because increasingly consumers are no longer supporting products in countries and industries that do not protect the land, forests, and ecosystems.
  15. *Deforestation Reduction:* Deforestation disrupts local weather patterns and causes carbon emissions, contributing to global climate change. As weather patterns change, such as higher

temperatures and droughts, crop farmers are not able to grow as much, and they expand into new areas. Extensive 100% organic crop farming can reduce the practice of deforestation.

16. *Desertification*: The bio-fertilisers will reverse the desertification of farm land through regenerative agriculture.
17. *Pasture Land*: Degraded pasture land can be restored, and this will improve the growth and nourishment of livestock.

### **Efficacy of the Bio-fertilisers**

The company website shows evidence of field test results in different countries as well as presentations about the nature and benefits of the bio-fertilisers: [www.artemisthai.com/overview-of-the-beneficial-effects-of-bio-plant-and-pro-plant/](http://www.artemisthai.com/overview-of-the-beneficial-effects-of-bio-plant-and-pro-plant/)

### **Implementation of the Bio-fertiliser Project**

Malawi has farmers who are using chemicals or various kinds of organic fertilisers; and many who do not use any fertiliser.

- **100% Chemical Farmers**: The bio-fertilisers will enable chemical farmers to change to bio-chemical farming, if they prefer a phased approach, and thereby halve in Year 1 the amount of chemical fertiliser they use while still increasing their production, and reducing their costs significantly. They can phase out the remaining 50% of their chemical fertiliser in Years 2 and 3 until they will be farming 100% organically with higher yields, and superior crop quality.
- **100% Organic Farmers**: They will be able to use very effective bio-fertilisers, which will increase their crop yields and quality significantly.
- **Farmers Not Using Fertiliser**: Farmers who do not use any fertiliser will be able to restore the fertility of their soil.

### **Technical Assistance**

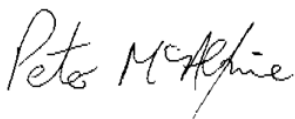
We will conduct workshops for agriculture extension workers so that they can train farmers in 100% organic and regenerative farming using the bio-fertilisers. We will also train young people how to make a good living from 100% organic farming. This will enable many people to leave the cities and to return to the rural areas where unused land can be developed for the benefit of their state's and the country's economy.

### **Introduction to the Company**

Artemis & Angel Co. Ltd., is located in Bangkok and was founded in 1986 by the company President, Somkiet Panjanapongchai. In addition to Bio-Plant and Pro-Plant, the company produces a wide range of bio-technology products for prawn and fish farms; liquid pro-biotics for animals to increase their rate of growth and health; and a microbial waste water treatment product. The products are a combination of USA bio-technology and the company founder's own discoveries of new bio-technology processes.

**Mr. Godwin Sam Ng'Oma** is representing us to present this proposal to you. Thank you very much for considering it.

My warmest regards,



Peter McAlpine  
Chief Marketing Officer

