LifeGreen LG7 Liquid Fertilizer

A Revolutionary Solution for Sustainable Agriculture



A ‘Pure and Safe’ food



AQUAGROW LANKA (PVT) LTD

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1. Introduction

a) Overview of the need for environmentally friendly agricultural practices

In recent years, the importance of environmentally friendly agricultural practices has become increasingly evident. Traditional farming methods, which heavily rely on chemical fertilizers, pesticides, and insecticides, have led to numerous environmental issues. These include soil degradation, water pollution, loss of biodiversity, and adverse health effects on both humans and animals. The need for sustainable agriculture has emerged as a response to these challenges, aiming to mitigate environmental impact while ensuring food security for future generations.

b) Introduction to LifeGreen LG7 as a unique Alkaline (pH 10.5) based botanical/Plant extract liquid fertilizer

LifeGreen LG7 is an innovative alkaline-based (pH 10.5) 100% botanical/plant extract that revolutionizes traditional farming practices by offering a sustainable alternative to conventional chemical fertilizers. This unique liquid fertilizer is formulated using a blend of plant-based ingredients derived from natural sources. Unlike traditional fertilizers, LifeGreen LG7 harnesses the power of alkaline compounds, providing numerous benefits for soil health and crop growth.

The exceptional composition of LifeGreen LG7 distinguishes it from conventional fertilizers. It is free from harmful chemicals, growth hormones, microbes, or enzymes, ensuring a safe and eco-friendly solution for farmers. Moreover, being non-GMO, biodegradable, non-toxic, and residue-free, it enhances its compatibility with sustainable agricultural practices.

In Sri Lanka, AQUAGROW LANKA (PVT) LTD plays a vital role as the licensed importer of LifeGreen LG7 from Singapore. This partnership facilitates the availability of this high-quality product in the country, supporting farmers in adopting environmentally conscious and sustainable farming techniques. By harnessing the power of alkaline-based botanical/plant extracts, LifeGreen LG7 paves the way for a greener and more productive future in agriculture.

c) Importance of sustainable farming practices for a better tomorrow

Sustainable farming practices are crucial for several reasons. Firstly, they help preserve the health and fertility of the soil. By avoiding the excessive use of chemical fertilizers, sustainable practices maintain a balanced nutrient profile in the soil, preventing its degradation and erosion. This, in turn, promotes long-term productivity and preserves valuable agricultural land.

Secondly, sustainable farming practices promote biodiversity and ecological balance. By minimizing the use of harmful pesticides and insecticides, these practices create a more favorable environment for beneficial insects, birds, and microbes. This, in turn, helps control pests naturally and reduces the reliance on chemical interventions.

Thirdly, sustainable agriculture contributes to the conservation of water resources. Through practices such as precision irrigation and water recycling, farmers can minimize water wastage and ensure efficient water use. This is particularly important in regions facing water scarcity and drought conditions.

Moreover, sustainable farming practices reduce the impact on human health. By reducing the use of chemical fertilizers and pesticides, they minimize the exposure of farmers and consumers to harmful substances. This improves the overall quality and safety of agricultural produce, benefiting both farm workers and consumers.

Additionally, the detrimental effects of chemical fertilizers on human health and the environment have been observed in specific regions, such as Sri Lanka, where chronic kidney disease of unknown etiology (CKDu) has become a significant concern. CKDu has been linked to the extensive use of chemical fertilizers in agriculture. The long-term exposure to these chemicals has been associated with kidney damage among farmers and agricultural workers. AQUAGROW LANKA (PVT) LTD, based in Sri Lanka, serves as the licensed importer of LifeGreen LG7, bringing this eco-friendly and sustainable liquid fertilizer from Singapore to address these concerns and support farmers in adopting environmentally friendly agricultural practices.

Lastly, sustainable agriculture plays a vital role in mitigating climate change. By adopting practices such as organic farming, agroforestry, and carbon sequestration, farmers can contribute to reducing greenhouse gas emissions and enhancing carbon storage in the soil. This helps combat climate change and promotes environmental sustainability.

The adoption of environmentally friendly agricultural practices, such as the use of LifeGreen LG7, is essential for addressing the environmental challenges associated with traditional farming methods. By promoting sustainable farming practices, we can ensure the long-term health of our ecosystems, protect human health, conserve natural resources, and contribute to a better tomorrow for future generations. AQUAGROW LANKA (PVT) LTD, as the licensed importer of LifeGreen LG7 in Sri Lanka, plays a significant role in making this eco-friendly fertilizer accessible to farmers and supporting the transition towards sustainable and environmentally conscious agriculture in the country.

2. Composition and Features of LifeGreen LG7

a) Description of the formulation and its ingredients

LifeGreen LG7 is an innovative Alkaline based botanical/plant liquid fertilizer derived from plant, vegetable and seed oil extraction, carefully formulated to harness the unique attributes of various plant-based ingredients derived from natural sources. The Founder's extensive study of the plant kingdom led to the development of this extraordinary formula, which capitalizes on the innate strengths of individual plants. The primary objective of our fertilizer is to empower plants with a natural immune defense system against diseases and pest attacks.

Our Founder's insight into the plant kingdom inspired the formulation of LifeGreen LG7 to attract specific microbes naturally present in the atmosphere. These beneficial microbes play a pivotal role in taking in Nitrogen from the air, breaking it down, and making it available within the leaves' cellular wall. As a result, the plant can absorb Nitrogen even through the leaves, significantly reducing the dependency on traditional Nitrogen-Phosphorus-Potassium (NPK) ratios.

Our unique formula embraces a low NPK ratio of 4:1:1, ensuring that it causes no harm to both humans and the environment. LifeGreen LG7's efficacy lies in its ability to enhance plant growth and immunity without relying heavily on synthetic NPK components. By focusing on the intelligent assimilation of Nitrogen and other essential nutrients, our formula enables plants to thrive naturally, promoting sustainable and eco-friendly agricultural practices.

b) Unique characteristics that set it apart from conventional fertilizers

LifeGreen LG7 possesses Seven (07) unique characteristics that differentiate it from conventional fertilizers:

i. **Seven (7) applications in one formula (7 in 1 Liquid Fertilizer Solution)**

1) **Soil treatment (heals 'dead' soil and gives birth to 'living soil')**
   - Turns acidic soil alkaline in 10 minutes
   - Neutralizes toxins introduced from chemical fertilizers, pesticides and weedicides in soil in seven (07) days.
   - Clears, sanitizes soil of parasitic, fungal, bacterial, viral and other diseases in soil introduced from organic and bio fertilizers in seven (07) days
   - Within seven (07) days, enhances the natural migration back of essential plant creatures (e.g earthworm) and microorganisms that aerate and naturally fertilizes the soil giving birth to a ***'Living Soil'.***
2) **Seed treatment**
3) **Fertilizer**
4) **Plant Nutrient**
5) **Weed Suppressant**
6) **Keeps harmful insects, pests, birds, rats mosquitoes, flies away, thus no need to use pesticides, insecticides, herbicides or lay awake driving birds and other rodents from devouring crops.**
7) **Strengthens plants immunity to resist diseases and pest attacks**

ii. **Non-GMO, 100% Plant based DNA and absence of harmful chemicals, growth hormones, microbes, and enzymes**

Being non-GMO means that the genetic material used in the formulation of LifeGreen LG7 does not involve any manipulation or alteration through genetic engineering techniques. This ensures that the fertilizer remains aligned with natural processes and avoids potential concerns associated with genetically modified organisms.

Unlike conventional fertilizers that often contain synthetic chemicals, growth hormones, and genetically modified organisms (GMOs) and other microbes, LifeGreen LG7 is free from such additives. It relies on the natural properties and nutrients present in the botanical ingredients to provide plant nutrition without introducing potentially harmful substances into the environment.

iii. **Biodegradable, leaving no residue**

LifeGreen LG7 is designed to be biodegradable, meaning it can break down naturally into harmless substances over time. When applied to plants and soil, it decomposes without leaving behind any harmful residues. This characteristic reduces the risk of soil and water contamination, ensuring a safer and cleaner agricultural environment.

iv. **Non-toxic and non-inflammable**

The absence of toxic chemicals in LifeGreen LG7 makes it safe to handle and apply. It poses no immediate threat to the health of farmers or the environment. Additionally, the non-inflammable nature of the product ensures that it can be stored and transported safely, minimizing potential hazards.

c) Advantages of using LifeGreen LG7

The use of LifeGreen LG7 as a botanical, plant-based liquid fertilizer offers several advantages:

i. **Soil Treatment Ratio – Turns acidic soil alkaline and conditions soil of dangerous chemical residue, parasitic and microbial diseases from soil in just seven (07) days**

- Excessive use of Chemical fertilizers, pesticides and herbicides have turned the soil very acidic and killed off all goodness in the soil.

  LifeGreen LG7 'Heavy soil treatment application' will turn the acidic soil alkaline in 10 minutes.

- Introduction of heavy metals through the excessive use of chemical fertilizers, pesticides and weedicides have poisoned the soil, killing off all goodness in the land. Radioactive substances introduced in the soil in war stricken areas have made cultivation impossible and dangerous to human health. The earthworm is no longer found in our cultivable land, our soil is now ***'dead'.***

  LifeGreen LG7 'Heavy soil treatment application' the only one of its kind in the world, a one – time treatment will condition soil of toxins and poison in seven (07) days.

- Organic and Bio fertilizers have introduced parasitic, fungal and microbial diseases in the soil and the ***'dead'*** soil is now ***'diseased'.*** The farmer and subsequently the consumer is in danger of these spreading from the soil to the human body in the food we consume.

LifeGreen AM9 'Heavy soil treatment application' will clear the soil of parasitic, fungal, and other microbial diseases in seven (07) days.

- And within these seven (7) days, essential plant microorganisms and living creatures migrate back to the treated soil, aerating and fertilizing and giving birth to a ***'Living Soil'.***

ii. Elimination of the need for chemical fertilizers, pesticides, and insecticides

LifeGreen LG7 provides a comprehensive range of essential nutrients required for plant growth according to its various stages of growth, growing, flowering and fruiting stages, reducing the reliance on chemical fertilizers. By eliminating the use of synthetic pesticides and herbicides, this eco-friendly approach to pest management ensures that crops are protected without harming beneficial insects and the environment.

iii. Crop rotation is unnecessary, reducing soil erosion and promoting sustainable land use

LifeGreen LG7 enhances soil fertility and nutrient availability, eliminating the need for crop rotation. This reduces soil erosion caused by constant tillage and promotes more sustainable land use practices. Farmers can maximize the productivity of their fields without the need for frequent rotation, thereby preserving soil health and structure.

iv. Positive impact on soil health, attracting essential plant microbes and creatures

The botanical ingredients in LifeGreen LG7 support the growth and activity of beneficial microbes in the soil. These microbes play a crucial role in nutrient cycling, disease suppression, and overall soil health. By attracting and nurturing these essential plant microbes and creatures, LifeGreen LG7 contributes to a balanced and thriving soil ecosystem, giving birth back to a 'Living Soil'

v. Healing effect on flood-damaged, uncultivable land and diseased soil in Prawn farms

LifeGreen LG7 can be particularly beneficial for land that has been damaged by floods or is traditionally considered uncultivable. Its unique formulation helps restore the fertility and health of such land by replenishing essential nutrients and improving soil structure. This enables farmers to reclaim and utilize previously unusable land, increasing agricultural productivity and resilience.

Prawn farming has almost come to a halt in Sri Lanka in not been able to combat the diseases and chemical toxicity spreading in Prawn farms. LifeGreen AM9, our 'Heavy' Soil Treatment is able to address the situation, clear the diseases and neutralize the toxicity of soil, turn soil pH alkaline, and revive this diseased industry in just 7 to days!

In summary, LifeGreen LG7's composition and features make it a distinctive and environmentally friendly liquid fertilizer. Its absence of harmful chemicals, non-GMO nature, biodegradability, and positive effects on soil health offer significant advantages to farmers, promoting sustainable agriculture and reducing the reliance on chemical inputs.

3. Applications and Benefits of LifeGreen LG7

a) Soil Treatment – LifeGreen AM9

i. Detailed explanation of soil treatment with LifeGreen AM9

As a soil treatment, LifeGreen AM9 helps transform acidic and damaged soil into an alkaline and fertile state. The botanical ingredients in LifeGreen AM9 interact with the soil, releasing essential nutrients and promoting the growth of beneficial microbes. This process improves soil structure, nutrient availability, and overall soil health.

ii. Transformation of acidic and damaged soil to an alkaline, fertile state

LifeGreen AM9 contains natural plant compounds that help neutralize acidity in the soil, making it more suitable for plant growth. By raising the pH level, it creates a favorable environment for various crops and promotes the optimal uptake of nutrients.

iii. Neutralizing toxins and poisonous residue in soil

Prolonged usages of chemical fertilizers, pesticides, fungicides and weedicides have killed off all goodness in the soil, and the soil is considered ‘dead’.
LifeGreen AM9, will condition soil of harmful chemical residue, in soil in just 7 days.

iv. Eradication of parasitic, microbial, and fungal diseases

LifeGreen AM9's powerful formulation acts swiftly within 7 days of treatment in clearing parasitic, microbial, and fungal diseases introduced by organic and bio fertilizers. By eliminating these harmful pathogens, it ensures a disease-free environment conducive to robust plant development.

v. Migration of essential microbes and creatures back to the treated soil

The use of LifeGreen AM9 encourages the migration and colonization of essential microbes and creatures in the soil. These microorganisms play a vital role in nutrient cycling, disease suppression, and overall soil fertility. By providing a hospitable environment, LifeGreen AM9 supports the return and proliferation of these beneficial organisms.

vi. Improved Soil aeration, nutrient release, and enhanced root absorption

LifeGreen AM9 helps improve soil aeration, allowing roots to access oxygen more efficiently. Additionally, it facilitates the release of nutrients trapped in the soil, making them more available to plants. Enhanced root absorption of nutrients leads to healthier plant growth and improved crop yields.

vii. Rapid pH balance and detoxification

LifeGreen AM9 exhibits rapid action in balancing soil pH, converting acidic soil to an alkaline state within just 10 minutes of application. Furthermore, conditions the soil of harmful chemical fertilizers, pesticides, weedicides, and fungicides within 7 days, promoting a healthier environment for plant growth.

viii. Birth of a 'Living Soil'

In just 7 days, LifeGreen AM9 facilitates the transformation of ordinary soil into a vibrant and dynamic "Living Soil." This transformation enhances the natural migration of essential creatures and microbes that aerate and fertilize the soil, further enriching its fertility and supporting sustainable agricultural practices.

b) Seed Treatment

i. Soaking seeds in LifeGreen LG7 for improved germination

Soaking seeds in LifeGreen LG7 before planting can enhance germination rates and overall seedling health. The liquid fertilizer provides essential nutrients and bioactive compounds that promote seedling growth and development.

ii. Activation of seed cells leading to faster root development and higher germination rates

LifeGreen LG7's botanical-based formulation includes natural compounds that play a crucial role in activating seed cells. This unique activation process stimulates rapid root development and enhances germination rates. By harnessing the power of these natural compounds, LifeGreen LG7 ensures that seeds sprout faster and healthier, resulting in stronger and more resilient plants from the very beginning of the growth cycle. Farmers can experience the benefits of enhanced seed performance and improved plant establishment, leading to increased crop yields and overall productivity.

iii. Enhanced resistance against fungal, bacterial, and viral attacks

LifeGreen LG7 contributes to the overall health and vigor of seedlings, fortifying them against a wide range of pathogens, including fungi, bacteria, and viruses. The fertilizer's potent combination of nutrients and bioactive compounds strengthens the seedlings' immune systems, providing a robust natural defense mechanism against common disease-causing agents.

iv. Pest and bird deterrent properties

LifeGreen LG7 possesses natural properties that act as a deterrent to pests and birds. The application of the fertilizer on seeds helps protect them from potential damage caused by pests and minimizes bird predation, ensuring a higher success rate for seed germination.

LifeGreen LG7 is yet to be tested in deterring elephants, warthogs, porcupines and monkeys in Sri Lanka. It is effectively proven in keeping snakes, rats, birds, mosquitoes, flies and other household pesky creatures away as well.

c) Fertilizer and Plant Nutrient

i. Role of LifeGreen LG7 in promoting plant growth and fruit bearing

As a liquid fertilizer, LifeGreen LG7 provides plants with essential nutrients necessary for their growth and development. The balanced composition of nutrients supports overall plant health and promotes optimal fruit production.

ii. Improved nutrient absorption by plant roots

The nutrients present in LifeGreen LG7 are readily available and easily absorbed by plant roots. This improved nutrient absorption ensures that plants receive the required elements in appropriate amounts, maximizing their growth potential.

iii. Stimulation of chlorophyll production and photosynthesis

LifeGreen LG7 contains ingredients that stimulate chlorophyll production in plants. Chlorophyll is essential for photosynthesis, the process through which plants convert sunlight into energy. By enhancing chlorophyll production, LifeGreen LG7 promotes efficient photosynthesis and boosts plant growth.

iv. **Strengthening of plant immunity and disease resistance**

The nutrients and bioactive compounds present in LifeGreen LG7 strengthen plant immunity, making them more resistant to diseases and pests. This helps reduce the need for chemical pesticides and insecticides, promoting a more sustainable and eco-friendly approach to plant protection.

v. **Natural repulsion against harmful pests, birds and insects including mosquitoes, flies, cockroaches, rats, snakes etc**

LifeGreen LG7's exceptional formulation serves as a potent natural deterrent against a wide array of plant pests, insects, and birds. The application of this fertilizer on plants creates an unfavorable environment for these organisms, effectively keeping away mosquitoes, flies, cockroaches, rats, snakes, and birds, thus safeguarding crops and promoting higher yields.

d) Weed Suppressant

i. **Weed suppression through the use of LifeGreen LG7**

LifeGreen LG7 gives the plant back its natural ability to suppress and outgrow weeds when applied to the soil or plant. The fertilizer's nutrient composition and botanical ingredients promote the growth and development of desired crops, creating a competitive advantage over weeds.

ii. **Creation of favorable conditions for crop growth and development**

By providing essential nutrients and creating a balanced soil environment, LifeGreen LG7 ensures that crops receive the necessary resources for growth. This supports their ability to out compete weeds and thrive in the given agricultural system.

iii. **Reduction in weed competition and resource uptake**

The application of LifeGreen LG7 helps reduce weed competition by providing crops with a nutrient-rich environment. As crops receive ample resources, they can utilize them more efficiently, limiting the available resources for weed growth and reducing weed infestation.

iv. **Increased crop yield and quality**

By suppressing weed growth and optimizing nutrient availability, LifeGreen LG7 contributes to increased crop yield and improved quality. The absence of weed competition allows crops to utilize resources more effectively, leading to healthier plants and higher productivity.

In summary, LifeGreen LG7 offers various applications and benefits across different stages of agriculture. Whether used for soil treatment, seed treatment, as a fertilizer and plant nutrient, or as a weed suppressant, LifeGreen LG7 promotes optimal plant growth, enhances soil health, improves seed germination rates, and contributes to higher crop yields and bringing the harvest forward by 10%.

4. Case Studies and Tests

a) LifeGreen LG7 - Cambodia Rice Experience

In Cambodia, a series of rice field trials were conducted comparing the use of LifeGreen LG7 with traditional NPK (Nitrogen, Phosphorus, Potassium) fertilizers. The results showcased the remarkable benefits of using LifeGreen LG7 in rice cultivation, leading to increased yields, faster growth, and improved crop quality. These trials were conducted at different stages of rice growth, from 10 days to just before harvest.

At 10 days, the comparison between rice treated with LifeGreen LG7 and rice grown with NPK fertilizers showed a significant difference in soil conditions. The ground treated with LifeGreen LG7 was noticeably softer, indicating improved soil structure and aeration.

Moving to 40 days, the rice plants treated with LifeGreen LG7 exhibited thicker stem stalks compared to the NPK-treated plants. This demonstrated that LifeGreen LG7 enhanced the strength and vigor of the rice plants, making them more resistant to lodging and ensuring better nutrient uptake.

By 60 days, the flowering stage, the rice plants treated with LifeGreen LG7 exhibited earlier and more abundant flowering. In contrast, the NPK-treated rice plants showed delayed flowering, indicating slower growth and development.

As the harvest approached, the difference in yield became even more pronounced. Ten days before harvest, the rice stalks treated with LifeGreen LG7 measured 10 inches and had more seeds, while the NPK-treated rice stalks were only 9 inches long. This showcased the superior growth and yield potential of the rice plants treated with LifeGreen LG7.

Farmers who participated in the trials expressed their satisfaction with the results. They noted the remarkable growth and appearance of the rice plants treated with LifeGreen LG7 and highlighted its organic nature. By using LifeGreen LG7, they were able to achieve higher yields, faster growth, and improved root development. Moreover, they emphasized that no pesticides, insecticides, chemicals, or herbicides were used during the cultivation process, making the rice **'pure and safe'** for consumption.

One farmer even mentioned the potential benefits of using LifeGreen LG7 on Bario rice, a high-value rice variety. They believed that applying LifeGreen LG7 could increase yields and profits for this specific rice type. Additionally, the farmer anticipated a substantial increase in weight and volume of the harvest, estimating a 100% increase in yield based on the count per stalk of rice seed. This trial was conducted on a previously low-performing field, which typically yielded a maximum of 4 tons per acre. However, with the use of LifeGreen LG7, the farmer expected to harvest around 8 tons from the trial crop.

These real-life case studies and testimonials from Cambodian rice farmers demonstrate the positive impact of using LifeGreen LG7 in rice cultivation. The trials consistently showed improved soil conditions, stronger stem stalks, earlier and more abundant flowering, and increased yields. Farmers expressed their satisfaction with the Plant based nature of LifeGreen LG7 and its ability to enhance growth, yield, and overall crop quality. These success stories highlight the effectiveness and potential of LifeGreen LG7 in optimizing rice cultivation and promoting sustainable farming practices.

b) LifeGreen LG7 – Indonesia Maize Experience

i. Introduction

In this case study, we will examine the results of an experiment conducted in Indonesia to compare the growth and yield of maize crops using LifeGreen LG7, a botanical-based liquid fertilizer, and chemical fertilizer. The objective was to assess the effectiveness of LifeGreen LG7 in promoting plant health, disease resistance, and crop productivity compared to traditional chemical fertilizers.

ii. Experiment Details

The experiment was conducted on a plot of land measuring 10 x 40 meters (400 m2 or 0.04 hectares). Maize crops were divided into two groups: one group was fertilized with LifeGreen LG7, and the other group was fertilized with chemical fertilizer. The growth, disease incidence, height, cob length, cob weight, and grain quality were monitored and compared between the two groups.

iii. Results and Observations

Disease Resistance

The main problem in corn cultivation is disease, particularly in young plants (1-2 weeks after planting). The crops fertilized with chemical fertilizer showed a high incidence of disease, reaching almost 90%. In contrast, the maize crops fertilized with LifeGreen LG7 had a significantly lower disease incidence of only 40-50%.

Plant Height

At the 7th week of growth, the maize crops fertilized with LifeGreen LG7 exhibited a remarkable height advantage. The average height was 224.2 cm, while the crops fertilized with chemical fertilizer had an average height of 191.8 cm. This indicates that LifeGreen LG7 promotes better plant growth and development.

Cob Length and Weight

The length of cobs in the maize crops fertilized with LifeGreen LG7 averaged 21.3 cm, compared to 19 cm in the crops fertilized with chemical fertilizer. Additionally, the weight of the cobs in the LifeGreen LG7 group was higher, averaging 308.17 grams, compared to 248.2 grams in the chemical fertilizer group. The grains of corn nourished by LifeGreen LG7 were also fuller and of higher quality.

Harvest

The maize crops fertilized with LifeGreen LG7 demonstrated favorable results during the harvest stage. After a growth period of 71 days, the crops yielded a total of 390 kg. This indicates a successful harvest and highlights the effectiveness of LifeGreen LG7 in promoting crop productivity. In comparison, the maize crops treated with chemical fertilizer required a longer growth period of 78 days and yielded 260 kg. This suggests that the crops fertilized with LifeGreen LG7 outperformed those treated with chemical fertilizer in terms of both harvest time and yield.

Return and Cost Analysis

The Return and Cost Ratio (R/C Ratio) is a measure of the profitability of farming practices. In the case of the maize crops fertilized with LifeGreen LG7, the R/C Ratio was calculated as follows:

Return and Cost Ratio (R/C Ratio) = Income / Total Cost

The income from the LifeGreen LG7 crops was Rp 1,560,000, while the total cost was Rp 739,860, resulting in an R/C Ratio of 2.1. This indicates that the farming practice using LifeGreen LG7 was financially feasible.

In contrast, the R/C Ratio for the maize crops fertilized with chemical fertilizer was 1.6. Although still above 1, indicating feasibility, it was lower than the R/C Ratio for the LifeGreen LG7 crops.

iv. Conclusion

The results of this case study demonstrate the effectiveness of LifeGreen LG7 in promoting healthy plant growth, disease resistance, and higher crop yields compared to chemical fertilizer. The maize crops fertilized with LifeGreen LG7 exhibited better disease resistance, taller plants, longer cobs, and higher cob weights. The Return and Cost Ratio analysis also indicated that the LifeGreen LG7 crops were financially more viable.

These findings highlight the potential of LifeGreen LG7 as a sustainable and effective fertilizer for maize cultivation. By reducing disease incidence and enhancing plant growth, LifeGreen LG7 can contribute to increased yields, improved farmer profitability, and reduced reliance on harmful chemical inputs. This case study provides compelling evidence supporting the adoption of LifeGreen LG7 as a preferred choice for maize farmers seeking higher productivity and sustainable agricultural practices.

DESCRIPTION	LG7	Chemical Fertilizer
Type of Sweet corn seeds	Trademark Valentino F1 Cap Red Arrow (Isi = 1.750 btr)	Trademark Valentino F1 Cap Arrow Red (Isi = 1.750 btr)
Land area 10 x 40 m = 400 m2	0.04 Ha	0.04 Ha
Distance Planting	25 cm x 25 cm	25 cm x 5 cm
Needs seeds	1.600 btr x 2 btr /lbg = 3.200 btr	1.600 btr x 2 btr/lbg = 3.200 btr
Date Planting	1 January 2017	1 January 2017
Harvest	**12 March 2017 (71 days)**	**19 March 2017 (78 days)**
Number of Harvest **(yield)**	**390 kg (3,939 kg per acre)**	**260 kg (2,626 kg per acre)**

Description	LG7	Chemical Fertilizer	$ Increase	% Increase
Revenue (Rupiah)	**1,560,000**	**1,040,000**	**520,000**	**50.0%**
Cost (Rupiah)	739,860	633500	106,360	16.8%
Profits (Rupiah)	**820,140**	**406,500**	**413,640**	**101.8%**
Plant height (cm)	224.2	191.8	32.4	16.9%
Number of leaves (Strands)	13.2	11.6	1.6	13.8%
Length of Cob	21.3	19	2.3	12.1%
Weight of Corn (grams)	308.17	248.2	60.0	24.2%
Diameter of Corn (cm)	5	4.5	0.5	11.1%

5. Environmental and Health Benefits of LifeGreen LG7

a) Comparison of the dangers of chemical, bio, and other organic fertilizers

Chemical fertilizers typically contain synthetic compounds that provide essential nutrients to plants. However, their excessive and improper use can have negative consequences. These fertilizers often contain high levels of nitrogen, phosphorus, and potassium, which can lead to nutrient imbalances and harm the environment. Biofertilizers, on the other hand, are derived from natural sources and contain beneficial microorganisms that enhance nutrient availability. Organic fertilizers are made from natural materials such as animal manure or compost. Comparing the three types allows us to highlight the potential risks associated with chemical fertilizers and emphasize the need for safer alternatives.

b) Negative impacts of chemical fertilizers on soil, water, and air pollution

Chemical fertilizers can cause significant environmental damage. When overused or misapplied, they can leach into the soil and contaminate groundwater, leading to water pollution. The excessive use of nitrogen-based fertilizers can also contribute to eutrophication, causing algae blooms and oxygen depletion in water bodies. Furthermore, the application of chemical fertilizers can release greenhouse gases such as nitrous oxide, contributing to climate change. These negative impacts on soil, water, and air quality highlight the importance of adopting more environmentally friendly alternatives.

c) Adverse health effects of pesticide exposure on humans

Pesticides, including insecticides and herbicides, are commonly used in conventional farming to control pests and weeds. However, prolonged exposure to these chemicals can have detrimental effects on human health. Studies have linked pesticide exposure to various health issues, including respiratory problems, neurological disorders, reproductive disorders, and certain types of cancer. Additionally, pesticide residues on crops can pose risks to consumers when consumed. These health concerns underscore the need for safer agricultural practices and the use of alternatives like LifeGreen LG7.

d) The connection to Chronic Kidney Disease of Unknown Etiology (CKDu)

Chronic kidney disease of unknown etiology (CKDu) has become a significant concern, particularly in regions like Sri Lanka, where it is prevalent among farmers and agricultural workers. Research suggests a possible link between the extensive use of chemical fertilizers in agriculture and the occurrence of CKDu. Prolonged exposure to the chemicals present in these fertilizers, coupled with other factors such as heat stress and dehydration, may contribute to the development of kidney damage. This highlights the urgent need to address this issue and transition to safer and more sustainable agricultural practices.

e) LifeGreen LG7 as a sustainable and safe alternative

LifeGreen LG7 offers several environmental and health benefits as a sustainable and safe alternative to chemical fertilizers and pesticides. As a botanical-based liquid fertilizer, it is free from harmful chemicals, growth hormones, microbes, and enzymes. It is also non-GMO and plant-based, further ensuring its safety and compatibility with safe farming practices. Unlike chemical fertilizers, LifeGreen LG7 is biodegradable, leaving no harmful residues in the soil or water. Its non-toxic and non-inflammable nature makes it safer for both farmers and the environment. By choosing LifeGreen LG7, farmers can reduce their reliance on chemical inputs, minimize pollution, and contribute to a healthier and more sustainable agricultural system, potentially reducing the risk of CKDu associated with chemical fertilizer use.

In summary, comparing the dangers of chemical, bio, and organic fertilizers allows us to highlight the risks associated with chemical fertilizers and emphasize the need for safer alternatives. The negative impacts of chemical fertilizers on soil, water, and air pollution demonstrate the environmental hazards they pose. Additionally, the adverse health effects of pesticide exposure on humans underscore

6. Conclusion

a) Recap of the advantages and benefits of LifeGreen LG7

A unique botanical-based liquid fertilizer, we discussed its composition, features, and applications, highlighting its environmentally friendly and sustainable nature. LifeGreen LG7 stands out from conventional fertilizers due to its absence of harmful chemicals, growth hormones, microbes, and enzymes. It is non-GMO and plant-based, making it safe for both the environment and human health. Furthermore, it is biodegradable, leaving no harmful residues, and offers multiple benefits such as improved soil health, enhanced plant growth, increased crop yield, and resistance to pests and diseases.

b) Emphasis on its role in promoting sustainable agriculture and environmental conservation

LifeGreen LG7 plays a crucial role in promoting sustainable agriculture and environmental conservation. By eliminating the need for chemical fertilizers, pesticides, and insecticides, it reduces the environmental impact of agricultural practices. It encourages sustainable land use by eliminating the requirement for crop rotation, thus reducing soil erosion. The product's positive impact on soil health, attracting essential plant microbes and creatures, contributes to the preservation of biodiversity. Moreover, its ability to heal flood-damaged or uncultivatable land presents an opportunity to restore and rehabilitate degraded areas.

c) Encouragement for farmers to adopt this innovative liquid fertilizer

In light of the numerous benefits and advantages discussed, it is highly recommended that farmers consider adopting LifeGreen LG7 as an innovative liquid fertilizer. Its unique formulation and characteristics offer a safe and sustainable alternative to conventional chemical inputs. By using LifeGreen LG7, farmers can improve soil fertility, enhance plant growth, increase crop yield, and reduce their reliance on harmful chemicals. Furthermore, the product's positive environmental and health impacts provide a compelling reason to transition towards this eco-friendly solution.

d) Promote action for a global shift towards eco-friendly farming practices

In conclusion, the adoption of environmentally friendly agricultural practices is crucial for a sustainable future. LifeGreen LG7 represents a significant step towards achieving this goal. It offers farmers a viable alternative to chemical fertilizers and pesticides, promoting sustainable land use, preserving soil health, and safeguarding human and environmental well-being. To address the challenges of climate change, soil degradation, and water pollution, it is essential for farmers, policymakers, and stakeholders to embrace this shift towards eco-friendly farming practices. By supporting and advocating for the use of products like LifeGreen LG7, we can contribute to a more sustainable, resilient, and environmentally conscious agricultural system.

Furthermore, it is important to emphasize that LifeGreen LG7 brings additional benefits to Sri Lanka, such as increased yield, cost savings, and a potential solution for addressing Chronic Kidney Disease of unknown etiology (CKDu). Given the positive outcomes observed in the trials, it is recommended that the Sri Lankan government consider the adoption of LifeGreen LG7 in agricultural practices. By doing so, they can promote sustainable farming, improve farmers' livelihoods, and contribute to the reduction of CKDu cases.

In conclusion, LifeGreen LG7 presents a wide array of advantages and benefits that make it a valuable addition to sustainable agriculture. By adopting this innovative liquid fertilizer, farmers can contribute to a global movement towards environmentally conscious farming practices. The numerous benefits of LifeGreen LG7, including enhanced crop growth, improved soil health, and reduced reliance on harmful chemicals, make it an attractive choice for farmers seeking sustainable solutions. Moreover, the potential of LifeGreen LG7 in addressing the environmental challenges associated with traditional farming methods cannot be overlooked.

It is imperative that the Sri Lankan government acknowledges the significance of LifeGreen LG7 and recognizes its potential to transform the agricultural sector. By supporting the implementation of this eco-friendly solution, the government can drive positive change, benefiting farmers, the environment, and public health. Embracing LifeGreen LG7 is not just a wise choice for individual farmers but also a crucial step towards a sustainable future for Sri Lanka's agriculture industry.

Together, let us embrace LifeGreen LG7 and work towards a brighter and greener tomorrow, fostering sustainable agricultural practices that will have a lasting positive impact on our environment, society, and future generations.

7. Annexures: Test Reports and Approvals

A collection of test reports from various reputable institutions have been included, highlighting the effectiveness and performance of LifeGreen LG7. These reports serve as valuable evidence of the product's capabilities and its positive impact on agricultural practices.

ජාතික පොහොර ලේකම් කාර්යාලය
தேசிய உரச் செயலகம்
National Fertilizer Secretariat

කාබනික පොහොර හා ජීවානුම් පොහොර සහ ඊ හා වගා, කාබනික ආහාර, එළවළු, පලතුරු, මිරිස්, එළු හා අර්තාපල් වගා ප්‍රවර්ධනය, බීජ නිෂ්පාදන හා
உயர் கன்சுக்க கலிமாற்றம் மாவட்ட அபிவிருத்தி
தேசிய பசளையுற்றி மேம்பாடு மற்றும் விநியோக ஒழுங்குறுத்துகை மற்றும் நெல், தானிய வகைகள், தேசிய உணவுகள், மரக்கறிகள் உற்பத்திகள், பழங்கள், பிரசாரம், மொலசஸ் மற்றும் உருளைக்கிழங்கு செய்கை மேம்பாடு, விதை உருளைக்கிழங்கு மற்றும் உயர் தொழில்நுட்ப காய்கறிகள் இறக்குமதிகளை
State Ministry of Promoting the Production & Regulating the Supply of Organic Fertilizer, and Paddy & Grains, Organic Foods, Vegetables, Fruits, Chilies

මගේ අංකය. எனது இல. My No. AQU/01/NPK/2022-DEC/591 ඔබේ අංකය. உமது இல. Your No.

දිනය. திகதி. Date 23/01/2023

Chief Executive Officer/ Director
AQUAGROW LANKA PVT LTD

Dear Sir/Madam

Quality Assurance of Fertilizer (File No : AQU/01/NPK/2022-DEC/591)
Stage 02 – Before Unloading Approval (Marketing Approval)

This letter has reference to the following details with regard to the testing for quality of imported fertilizer in Sri Lanka,

- Name/Type/Ratio of fertilizer: BC 280 LIQUID FERTILIZER/ GOVIKIRULA FERTILIZER
- Quantity imported: 500 t

	Testing stage 1
Sample No	2022-01-AQUAGROW
Sample code	AAA-0-5633-2-3
Analytical report No **	(7423)013-0367
Name of the laboratory (Tested)	Bureau Veritas Lanka (Pvt) Ltd.
Analytical Report Date	19/01/2023

** *Copy of the analytical report is annexed here with for your information*

According to the Analytical report/s, it is observed that the fertilizer to be distributed is acceptable to use in Sri Lanka.

02. Therefore, I have no objection to proceed with unloading and distributing the said fertilizer.

03. However, you should strictly adhere to the instructions available in my letter reference no 4/5/6/Quality dated 26.06.2009 regarding quality assurance of fertilizer

Yours faithfully,

Chandana Lokuhewage
Director
National Fertilizer Secretariat

Director
National Fertilizer Secretariat
13th Floor, Sethsiripaya Stage II
Battaramulla

අධ්‍යක්ෂ ☎ - 011-2876366
செயலாளர் ✉ - dimfs@agrimin.gov.lk
Director ☎ - 011-2876366

කාර්යාලය ☎- 011-2876366
அலுவலகம் ✉ - dimfs@agrimin.gov.lk
Office ☎ - 011-2876366

13 වන මහල, සෙත්සිරිපාය අදියර II, බත්තරමුල්ල
13வது தளம், செத்சிரிபாய 2ம் கட்டம், பத்தரமுல்லை
13th Floor, Sethsiripaya 2nd stage, Battaramulla

TEST REPORT

Jan 19, 2023

Report No: (7423)013-0367

TEST RESULTS

Test/Unit	Test Method	Results	L.O.Q
Total Nitrogen Content (as N)*, per cent by mass	SLS 645: Part 1: Section C: 2009	6.6	-
Potassium content (as K_2O)*, per cent by mass	SLS 645: Part 4: Section 1: 1989	2.5	-
Total Phosphorous (as P_2O_5)*, per cent by mass	SLS 645: Part 5 : 1985	7.9	-
Cadmium (as Cd), mg/kg	AOAC 2006.03: 2009 with ICP-MS	ND	0.05
Arsenic (as As), mg/kg		0.15	0.05
Lead (as Pb), mg/kg		0.25	0.05
Chromium (as Cr), mg/kg		0.20	0.05
Mercury (as Hg), mg/kg		ND	0.05

*Test not covered ISO 17025: 2017 by Sri Lanka Accreditation Board for conformity assessment.

NOTE:
L.O.Q – Limit of quantification,
mg/kg – milligram per kilogram,
ND – Not Detected.
ICP-MS- Inductively Coupled Plasma Mass Spectrometry

Contact information for this report (Technical and General Inquiries and Feedback)

GENERAL INQUIRIES:		
MOHOMED NAWZER	TEL: +94 764 412 907	E-MAIL: mohomed.nawzer@bureauveritas.com
TECHNICAL INQUIRIES:		
RUWANI AMARASINGHE	TEL: +94 768 229 457	E-MAIL: ruwani.amarasinghe@bureauveritas.com
FEED BACK:		
KUMUDINI RATHNAYAKE – ASST. QA MANAGER	TEL: +94 768 229 455	E-MAIL: kumudinie.rathnayake@bureauveritas.com

REVIEWED BY: HIMASHA JAYAWARDENA

BUREAU VERITAS CONSUMER PRODUCTS SERVICES LANKA (PVT) LTD.
AUTHORIZED SIGNATORY

APPROVED BY:

RUWANI AMARASINGHE
ASSISTANT MANAGER –
FOOD & MICROBIOLOGY LABORATORY

END OF THE REPORT

CERTIFIED COPY
ADMARKETING/NFS
DATE :- 20/04/2023
B.G.C. Arunashantha
Assistant Director
National Fertilizer Secretariat,
State Ministry of Production ... Supply of Fertilizer, Fertilizer and Regulation of ... Use, and Insecticide Use,
"Govijana Mandiraya",
... Lane, Battaramulla.

The content of this PDF file is in accordance with the original issued reports for reference only.

Chemlab CHEMLAB
Teknologi Kimia Chemical Technology 化学工艺
UEN: 197601182H

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30 Kallang Pudding Road #04-03 Valiant Industrial Building Singapore 349312
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Executive Chairman : **Dato' Dr. F. W. Kam** Ph.D, C.Chem., C.Sci., FRSC, FRACI, FIFST, FIMMM, FRSH, FCMI, FEI, FMKC, FPRIM, FPRIS, FMOSTA

Executive Director : **Datin P. K. Wong**
CEO : **Dato' Marcus K.F. Kam** Dip. NIOA, FRSH, FCMI, FEI B.E. (Hons.), M.Sc., C.Chem., FRACI, MRSC, MBA, AMIChemE

CERTIFICATE OF ANALYSIS

Customer : **Aqua Grow Lanka (Pvt) Ltd**
No 325 Talawatugoda Road
Kotte, Sri Lanka

Lab No: **CLS/N110787/2022**

Date: 2nd December 2022

Date of Submission : 1st December 2022

Date of Analysis : 1 – 2 December 2022

Sample Description : One (1) sample of BC-280 (Liquid Fertilizer)

RESULTS OF ANALYSIS:-

PARAMETER (S)	METHOD (S)	RESULT(S)	Spec.
Nitrogen, %	Titration	5.5	4 Min
Phosphorus, %	UV-Visible	0.99	0.25 Min
Potassium, %	Acid Digestion/AAS	1.98	1.0 Min
Moisture, %	Not Applicable	Not Applicable	Not Applicable
Arsenic, ppm	Hydride Generation/AAS	0.7	25 Max
Cadmium, ppm	Acid Digestion/AAS	Not Detected (<0.01)	3 Max
Lead, ppm	Acid Digestion/AAS	1.7	30 Max
Mercury, ppm	Hydride Generation/AAS	Not Detected (<0.005)	1 Max
Chromium, ppm	Acid Digestion/AAS	5.5	50 Max

The above analysis is based solely on the sample submitted by the customer.

Yours faithfully,

Mr. Lim Yew Saung
Manager

page 1 of 1
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Institute of Materials, Minerals & Mining (IMMM)
Energy Institute (EI)
International Union of Independent Laboratories (UILI)
Plastics & Rubber Institute (Singapore) (PRIS)
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Royal Society of Chemistry (RSC)
Royal Society for the Promotion of Health (RSPH)
SAC - Singapore Laboratory Accreditation Scheme (SAC-SINGLAS)

CHEMLAB
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Executive Director : Datin P. K. Wong
CEO : Dato' Mercurs K.P. Kam Dip. NIOA, FRSH, FCMI, FEI B.E. (Hons.), M.Sc., C.Chem., FRACI, MRSC, MBA, AMIChemE

CERTIFICATE OF ANALYSIS

Customer : **M/S AquaGrow Lanka (Pvt) Ltd**
No 325 Talawatugoda Road
Pittakotte
Sri Lanka

Lab No: **CLS/N111646/2023**

Date: 5th July 2023

Date of Submission : 27th June 2023

Date of Analysis : 27th June 2023 – 4th July 2023

Sample Description : One (1) sample of Liquid Fertiliser (Plant-based)

Sample Marked : LifeGreen LG 7

RESULTS OF ANALYSIS:-

PARAMETER (S)	METHOD (S)	RESULT(S)
Total Yeast & Mold Count, CFU/g	In-House based on USP	Not Detected
Standard Plate Count, CFU/g	In-House based on USP	Not Detected

Detection Limit : <10

No Microbes Detected

The above analysis is based solely on the sample submitted by the customer.

Yours faithfully,

Mr. Lim Yew Saung
Manager

page 1 of 1
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Institute of Materials, Minerals & Mining	(IMMM)	Royal Society for the Promotion of Health	(RSPH)
Energy Institute	(EI)	SAC - Singapore Laboratory Accreditation Scheme	(SAC-SINGLAS)

ksaf/

LifeGreen LG7

Finally a …

‘Pure and Safe’

food

Empowering Sustainable Agriculture for a Greener Tomorrow



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