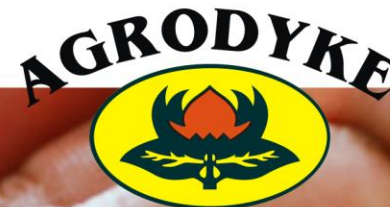




DAHLIAH DUTA UTAMA INTERNATIONAL

Indonesia (General Manufacturer & Distribution)
PT Dahlia Duta Utama
Jl. Cempaka Putih Timur VI
No. 9, Jakarta Pusat 10510
INDONESIA

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NLOCKING A WORLD OF ENDLESS OPPORTUNITIES

AGRODYKE, THE NEW AGRICULTURAL TECHNOLOGY IN COMBATING FOOD SECURITY
INTENSIFYING AGRICULTURE FARMING THROUGH AGRODYKE TECHNOLOGY ORGANICALLY



www.dahliadutautama.com

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THE WORLD AS WE KNOW OF TODAY

- Change is occurring everywhere in agriculture, with price increased for many input items, changes in farm policy and programs, unfavourable weather condition, and pollution and environmental degradation of arable lands;
- Rural communities have been affected, severely in some cases, by change of agriculture-related business activity and experienced economic growth rates comparable to urban and suburban areas;
- in short, multifaceted changes are occurring that are affecting agriculture and rural communities that's unsustainable;
- To cope with changes, farmers and agribusinesses that depend on agriculture must constantly search for alternative methods of ideology and implementation, as everyone is well aware of food sustainability and the importance of food security that's affecting the global economy today.



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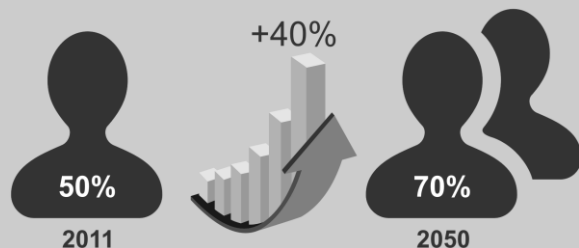
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- the impact of human activity on our planet and its resources is no longer up for debate, on how to sustain higher living standards for an expanding world population in the face of scarcer land and natural resources. Climate change has been wrecking havoc in earnest over the past decade and increasing yearly;
- the concerns is to ensure enough healthy, nutritious organically grown and bred food for a global population that reached eight billion in 2023 and will already total nine billion by 2050, and going about it in the way we have for the past hundred years will simply not work.

Global Urban Population Growth & Annual Meat Consumption Per Capita

Percentage of population becoming urban



Increase in annual meat consumption



Source: FAO 2006, FAO 2007, FAO 2009, OECD 2009



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SUSTAINABILITY THROUGH FERTILIZATION

- Organic fertilizers have been known by farmers for a very long time since the 1920s with the work of the British researcher Albert Howard. But many farmers use synthetic fertilizers due to its practicality and quick availability;
- The global market for organic fertilizer is estimated to account for slightly less than US\$ 6.7 billion in terms of value (2018) and it's predicted to grow at a CAGR of 7.2% during the forecast period (2019-2027)
- The driver that makes organic fertilizer increase is the rising awareness regarding the harmful effects of synthetic fertilizers and the decline in soil fertility is predominantly fueling the market growth of organic fertilizers.
- These fertilizers are essential for promoting environmental sustainability as they do not leave any negative impact on the environment and they are a key source of providing essential nutrients to plant and nourishing soil as well.



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- Increasing implementation of environmental policies for reducing the consumption of non-biodegradable products is projected to foster the market growth of organic fertilizers as synthetic fertilizers are basically produced from chemicals and non-renewable sources which leave a negative impact on the environment such as polluting soil as well as impact the quality of the soil thus what we eat that comes from chemically fertilized crops may posed a hazard to our health. Hence, all these factors are restricting the adoption of synthetic fertilizers thus propelling the market growth of organic fertilizers.



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IMPACT OF SOIL THROUGH ORGANIC VS CONVENTIONAL FARMING

- Organic farming has become an important aspect of the world. The implementation of EC Reg. 2078/92, the EU promotes organic farming based explicitly on its positive effects to the environment;
- A survey of specialists in 18 European countries (all EU-member states plus Norway, Switzerland and the Czech Republic) environmental indicators for the agricultural sector has been adapted, taking into consideration only those indicators that directly affect the system of organic farming to achieve maximum transparency;
- The impact of organic farming on soil properties has been researched comprehensively and results show that organic farming tends to conserve soil fertility and system stability better than conventional farming systems;
- Research results reviewed show that organic farming results in lower or similar nitrate leaching rates than integrated or conventional agriculture. Farm comparisons show that actual leaching rates per hectare are up to 57% lower on organic than on conventional fields.



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HUMAN HEALTH CONCERN

- Using herbicide like Glyphosate on the field for planting purposes could cause cancer and other health issues;
- The world we know have been subjected to abuse just because of profiteering but seldom a cause for human health concern when it comes to cultivation of crops or breeding of a livestock at the expense of economic growth;
- Growing concerns from WHO, UN and NGO Greenpeace have highlighted such plight in the way how food are grown or bred as more and more of society have been inflicted with cancer and other health related issues;
- Monsanto, the largest agrochemical and agricultural biotechnology company in the world has been sued billions of dollars as tens of thousands of people have been inflicted with cancer and other health related issues after using glyphosate based herbicide. A settlement of over \$10 billion was initiated in 2019 after losing 4-5 cases to prosecutors amounting to over \$2 billion in claimant sued;



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- As designated as a probable human carcinogen by the IARC (International Agency for Research on Cancer); farmers, farm workers, landscapers, gardeners, and home users who use Roundup weed killer or other glyphosate-based herbicides are at a risk of developing non-Hodgkin lymphoma and other forms of cancer;
- The same goes for chemical-based or synthetically produced fertilizers over usage has hardened the soil, decreased fertility, strengthened pesticides, polluted air and water and released greenhouse gases, thereby bringing hazards to human health and environment as well;
- Despite the widespread, there are still a growing number of growers globally who does not use undesirable means to grow food for the growing population.
- Sustainable development of the food chain is development that meets the needs of the present without compromising future generations with harm causing effects to meet their own needs - *Circle of Responsibility*.



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OPPORTUNITIES

- Evolving farming practices, increasing R&D investment and growing concern over food security due to rising population is expected to provide immense growth opportunity to the market of organic food;
- Changing the perception of farmers and consumers towards eco-friendly products is also expected to augment the market growth of organic food as rising demand for healthier organic based food has been gaining popularity in the market over the past 10 years;
- Being one of the pioneers in Asia to manufacture high quality organic based fertilizers as activator, DDU's technology had over the past 20 over years conducted many trials and test, privately and commercially with governments, research institutions and private companies resulting in high yielding, eco-friendly and reducing undesirable issues related to agriculture practices.



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- DDU's technologically advance enhancer, Agrodyke have shown tremendous strength in enhancing yield growth, decreased in chemical enhancer usage (conventional fertilizers) and most importantly is that its environmentally friendly - ecologically friendly to water, air, land and even humans.
- Agrodyke allow growers in obtaining optimal beneficial results and it is conveniently light to be carried around due to low dosage application when used on the field in contrast with the use of chemical fertilizers which requires heavy application;
- It is every bit the same as in modern software comparisons; in microchips technology today, microchips are capable of storing abundance of data as compared to the first generation 8" and 5¼" floppy disk and then 3.5" floppy disk which could only store 1.44MB of data.
- Agrodyke of 1kg is equivalent to 100kg of NPK used by conventional farmers, and the agriculture industry.



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FROM AWARENESS TO ACTION IN SUSTAINABILITY

- DDU is instrumental in lowering the amount of resources - land, fertilizers, herbicide, pesticide, and energy - that go into the production of healthier organic standards nutritious food for the growing population;
- every new approach require changes that begins in society for a healthier living lifestyle; and that change has already started more than a decade ago - eating organically grown food;
- decoupling economic growth from resources consumption and less the conventional harmful ways to grow our food is a process with no overnight solutions, it is, however, a process that begins with us, as individual and company;
- At DDU, our contribution in putting technology at the service of a healthier sustainable food production, guided by the responsibility to increase the income of the 680 million farmers globally while reducing environmental impact and hazards that may endanger the human population.



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ABOUT PT DAHLIAH DUTA UTAMA

- PT. Dahlah Duta Utama (DDU) was established in 1998 by DR. H.A.M. Dahlan Said with its' headquarter based in Jakarta;
- The company runs the core business in Agro-industry as manufacture of organic fertilizer and additive for livestock, led by Dr. H.A.M. Dahlan Said and supported by qualified expert in the agricultural sector to create a high technological advancement in the fields of organic fertilizer and additives for livestock;
- Due to its technological advancement, in 2004 DR. H.A.M Dahlan Said was honored by the President of Republic of Indonesia because of his invention in the agricultural sector and had since assisted 75% of farmers in the rice industry in Indonesia by decreasing production cost and increasing yield for the betterment of farmers and had since expanded globally to China, Malaysia, Brunei, Philippines, Congo, Tanzania, Ghana, Ivory Coast, Uganda, Egypt, Morocco, Kenya, Rwanda, Sudan, Zambia, Cameroon, Saudi Arabia and U.A.E.



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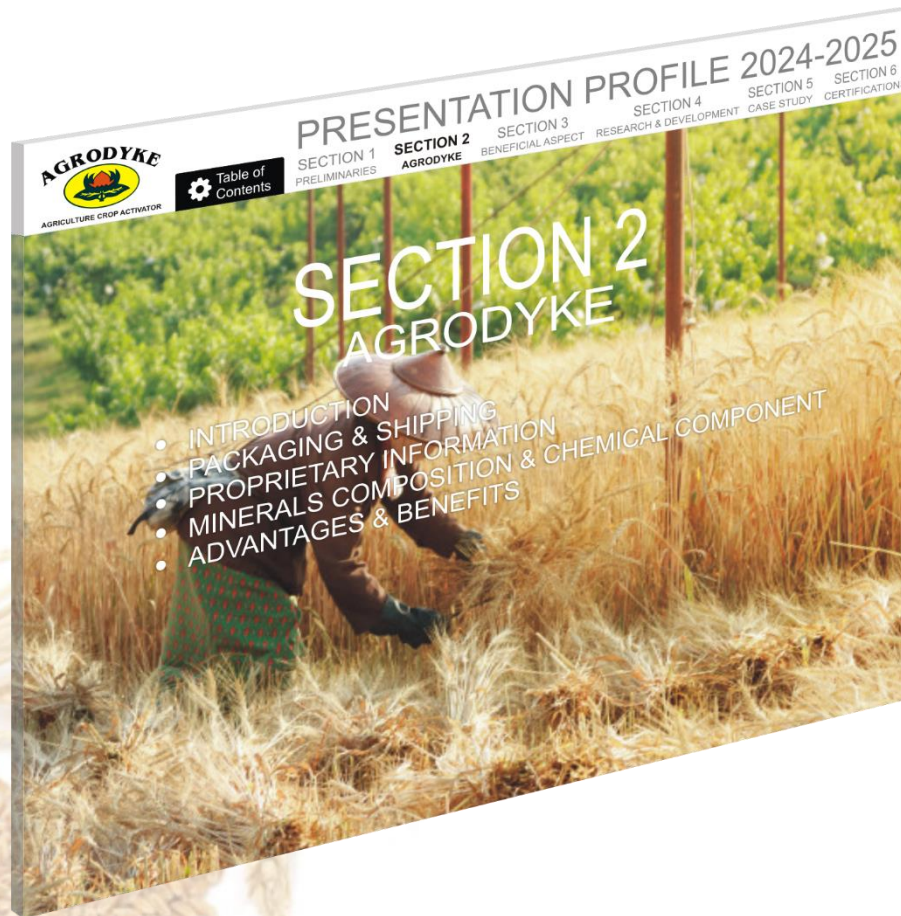
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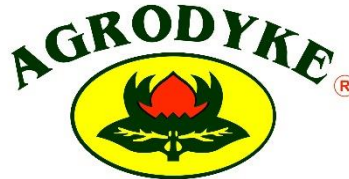
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- MUDA AGRICULTURE DEVELOPMENT AUTHORITY
- ANGKASA - ANGKATAN KOPERASI KEBANGSAAN MALAYSIA
- KOPADI INDONESIA
- INDONESIA RICE FOUNDATION
- PERSATUAN PELADANG NEGERI JOHOR
- JOURNAL OF SCIENCE MALAYSIA (TGPM NO.10)
- INOFICE INDONESIA ORGANIC FARMING

RESEARCH & DEVELOPMENT TESTED BY:

UNIVERSITY TECHNOLOGY OF MALAYSIA

FOREST RESEARCH INSTITUTE OF MALAYSIA (FRIM)

UNIVERSITY WARMEDEWA, BALI

SOIL AND IRRIGATION RESEARCH CENTRE, UNIVERSITY OF GHANA

LABORATORY TESTED BY:

MINISTRY OF AGRICULTURE AND VETERINARY INDONESIA

UNIVERSITY TECHNOLOGI OF MALAYSIA

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INTRODUCTION TO AGRODYKE

- **AGRODYKE Organic Activator**, a new Smart Technology in the form of fertilizer is an eco-friendly, multipurpose and the most complete solution that meets four main interrelated aspects; environment, technique, economy and social;
- Agrodyke comes in the form of a powdery substance that's soluble and used as spray application as well as broadcast solution for all forms of crops;
- Agrodyke have been certified by INOFICE (Indonesian Organic Farming Certification) as being an organic fertilizer and scientifically proven to combat and eliminate plant diseases by the University Technology of Malaysia in collaboration with FRIM (Forest Research Institute of Malaysia) through DNA/RNA Transcriptomic Sequencing;
- It is able to increase production that adds value to the very high yields of organic produce, even though in its application, inorganic fertilizer is utilized.



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- When used on soil, it releases ion element that is bound by mud minerals in hard pan soil horizon and gley-horizon at the depth of 40cm - 60cm through a chemical process called Bio-metabolism by Micro-organism;
- Agrodyke's purpose is to release these nutrients from the clay minerals through soil chemical process as these nutrients are bound by Chemical- Bounding rather than Physical-Mechanical Bounding;
- The application of Agrodyke on soil opens-up pores of the soil to enable easy penetration of C, H, O deep into the soil for transpiration and respiration process to work normally;
- The presence of C (CO₂), H (H₂O), O (O₂) that enters soil freely releases nutrients by existing clay minerals present in the soil through a chemical process of bio-metabolism mechanism by micro-organism and certain bacteria and or by certain substance of bio-metabolism, will produce new bio-metabolite which contains available nutrient to the plant;
- Agrodyke fundamentally works by "*recovering*" nutrients present inside the soil and giving "*dispelling*" effect against various pest and diseases in plants.



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INTRODUCTION TO AGRODYKE INFORMATION

Brand Name :



Form : Fine White Powdery Substance

Processes : Raw materials → Drying → Grinding/Milling → Mixing →
Packing → Storage → Delivery / Shipping

Certifications : Ministry of Agriculture Indonesia;
Material Safety Data Sheet;
Heavy Metals Test Report;
Formaldehyde Test Report;
University Technology Malaysia Report;
Forest Research Institute of Malaysia Report;
Journal of Science Malaysia



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AGRODYKE DESCRIPTIVE INFORMATION

- Microorganism** : No Presence of Micro Organism (Bacteria/ fungus, microbes, etc.)
- Industry Usage** : Beans & Nuts, Fruits & Vegetables, Flowers & Horticulture, Oil Crops, Tuber, Roots & Rhizomes, Grains, Cereals & Legumes, All Forms of Crops, Trees and Grass
- Usage Format** : Sowing, Inoculation & Completely Soluble in Water for Spraying
- Odor** : Odorless
- Prevention Safeness** : The use of this product is not necessary prevention, because it is environmental friendly both to water, soil, air, plants, animals and humans.



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PACKAGING & SHIPPING

**Packaging Material : 25kg Gunny Sack or 1000kg Bulk Sack
For Consignment**

**Quantity Production : Above 1,000 Tons At Anytime In Storage
Yearly**

HS Code : 3101.00.10

Shipping Mode : Sea Freight

Maximum Load : 25 Tons (25,000kg) Per 40' Container



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PROPRIETARY INFORMATION

Patent Coverage : Raw Materials, Formulation, Branding

Ingredients : Minerals, Herbal Plants Extract, Seaweed Extract, Water Hyacinth Extract, Sodium Salt, Sodium Bicarbonate

Chemical Formula : Na_2SO_4 or Na_2CO_3

Molecular Weight : 106 gr/mol.

COMPOSITION INFORMATION - MACRO & MICRO ELEMENTS

MACRO	MICRO
NITROGEN (N)	IRON (Fe)
PHOSPHORUS (P)	BORON (B)
POTASSIUM (K)	MANGANESE (Mn)
CALCIUM (Ca)	COPPER (Cu)
MAGNESIUM (Mg)	ZINC (Zn)
SULFUR (S)	MOLYBDENUM (Mo)
	SODIUM (Na)
	COBALT (Co)



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ANALYSIS COMPOSITION OF AGRODYKE

C - Organic	14.92 %	Boron (B)	4.09 %
C / N Ratio	23.68 %	Molybdenum	3.7 %
Nitrogen (N)	0.63 %	Arsenic	15.6 ppm
Phosphorus (P)	2.21 %	Cobalt	ND
Potassium (K)	4.09 %	Lead (Pb)	ND
Iron (Fe)	0.37 %	Cadmium (Cd)	ND
Copper (Cu)	0.003 %	Water Content	23.50 %
Manganese (Mn)	0.014 %	pH	7.54
Zinc (Zn)	0.009 %		

Humid Acid : An organic substance with high molecular weight (macromolecular or organic polymer) found in agrodyke technology has the nutritive ability to stimulate and activate biological and physiological processes in living organism (worms and microorganism) in the soil to restore soil nutrients and repair soil condition.

C/N Ratio : Flowering and fruiting process in plants are related to the ratio C (Carbon) and N (Nitrogen) in the plant's canopy. The balance of C/N Ratio will determine the balance of vegetative or generative phase. Agrodyke's balance of C/N Ratio harmonizes the formation of flowering & fruiting.

C - Organic: C-Organic found in Agrodyke Technology is what distinguishes it from inorganic fertilizers. Based on data from the FAO in 2016, majority of the world's land lacks C-Organic. C-Organic has an important role in improving soil fertility and providing micro-nutrient and other growth factors not normally supplied by chemical (inorganic) fertilizers.



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CHEMICAL COMPONENTS OF AGRODYKE

Na₂SO₄ – Sodium Sulfate as Plant and Soil's Supplementation

Na₂SO₄ – Sodium Sulfate

Sodium sulfate and Sodium Carbonate can benefit plant growth in agriculture by improving soil conditions and providing essential nutrients. It can help neutralize soil acidity, increase water retention, and reduce water evaporation, creating a more favorable environment for plant roots. Additionally, it can help manage soil salinity, a common issue in arid and semi-arid regions. The efficacy supplementation with Na₂SO₄ and Na₂CO₃ found in Agrodyke Technology :

- **Soil Structure Improvement:** Sodium sulfate can help improve the structure of saline soils by replacing toxic sodium ions (Na⁺) with less damaging sulfate ions (SO₄²⁻). This ion exchange process can lower soil salinity, making the soil more suitable for agricultural production;
- **Salinity Management:** In soils affected by salinity, sodium sulfate can be part of the management strategy. Saline soils contain high concentrations of soluble salts, which can make it difficult for plants to extract water. By managing the levels of sodium sulfate, it is possible to mitigate some of the negative effects of salinity on plant growth; and
- **Plant Tolerance:** Different plants have varying tolerance levels to sodium sulfate. Some studies suggest that sodium sulfate can be more inhibitory to the growth of certain species compared to sodium chloride. This means that while sodium sulfate can be beneficial in some contexts, it might also pose challenges for certain crops; and
- **Overall Plant Health:** By improving soil conditions and nutrient availability, sodium sulfate can contribute to healthier plant growth, potentially leading to increased yields



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THE ADVANTAGES AND USAGE OF AGRODYKE

1. Accelerating the plant growth and improve soil fertility;
2. Activating the microbes in the soil;
3. Normalizing the tissue or the cell of the tree that has been damaged;
4. Reducing costs of production "SAPRODI" to 50%;;
5. Increase resistance to Pests and diseases.
6. Reducing the use of conventional (chemical) fertilizer 60% - 70%;
7. Increasing the yields by up to 15 to over 40%.
8. Labor efficiency; and
9. Friendly for the environment - soil, water, air, animals and human.



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THE EXCELLENCE OF AGRODYKE

1. ON LAND:

- Opening the soil pores (C, H, O easy to entry/penetrate);
- Restoring and improving the soil fertility;
- Neutralizing the pH of the soil that is suitable to crop needs to grow and develop; and
- Activating bacteria or microorganisms in the soil and inhibiting the growth of pathogenic bacteria.

2. ON PLANTS:

- Opening the pores of the tree (C, H, O easy to entry/ penetrate);
- Repairing of the damaged tissue or cells;
- Restoring the condition of plants that are not productive to be productive again;
- Increase resistance of the tree to the pests and diseases; and
- AGRODYKE naturally dispels the pests, not to kill.



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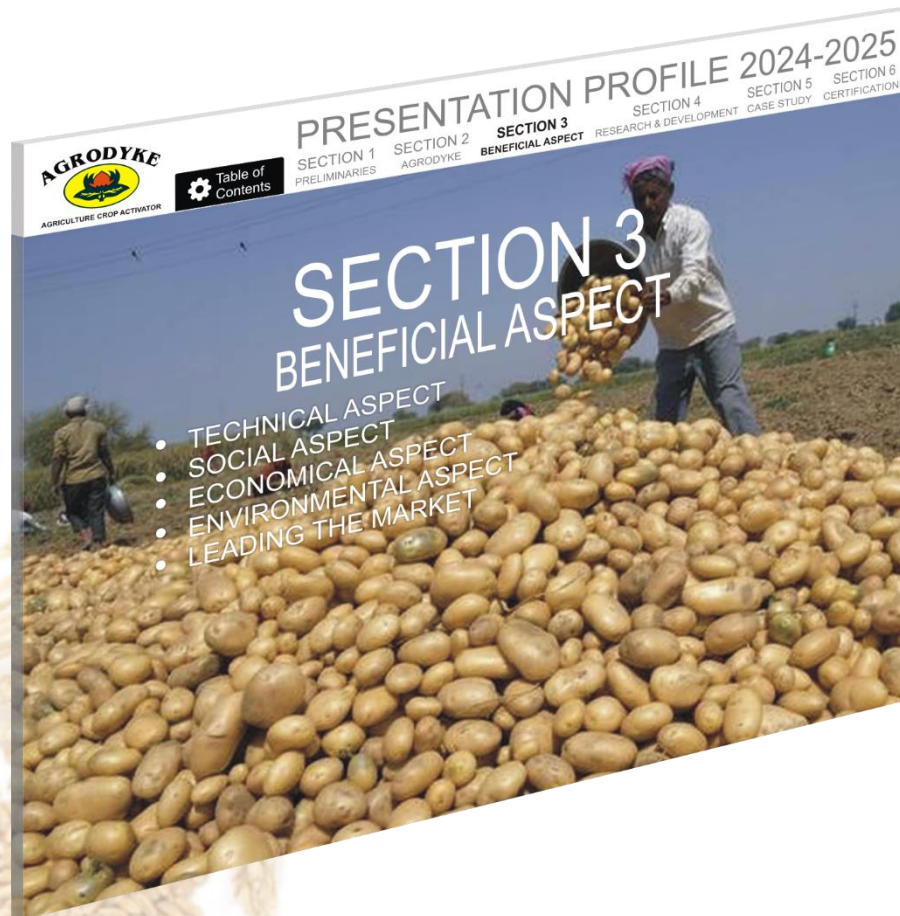
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Technical Aspect

- Reduces manpower
- Practical to be carried;
- Accelerates plant growth;
- Results in an organic harvest;
- Plants defy against pest and disease;
- Improves soil condition and pH balance

- Agrodyke is engineered to simplify and modernize farm operations by reducing the overall need for intensive manpower. Unlike conventional fertilization and pest management methods that require multiple applications and labor cycles, Agrodyke's all-in-one formulation ensures that a single application delivers multiple benefits. Farmers can significantly cut back on time and labor costs while maintaining high productivity, making it especially ideal for large-scale plantations and smallholders alike;
- Designed with field practicality in mind, Agrodyke comes in a lightweight and compact 1kg bag that is easy to transport and apply. This packaging format makes it convenient for farmers in remote or hard-to-access locations, where heavy and bulky inputs pose logistical challenges. Each bag is highly concentrated, ensuring efficient usage per hectare, and can be easily mixed with water or directly applied to soil, depending on the method preferred by the grower; and
- One of Agrodyke's standout features is its ability to accelerate plant growth while supporting a fully organic yield. The product enhances nutrient uptake, stimulates root development, and activates essential physiological functions within the plant. The result is faster vegetative and reproductive growth without the use of synthetic hormones or harmful chemicals. Over time, consistent use of Agrodyke not only increases yields but also regenerates the land, ensuring sustainable cultivation across multiple seasons.



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Economical Aspect

- Affordable price
- Increase Farmer's Income
- Cost Reduction by up to 50%
- Increases Harvest up to 40%
- Keep up with progress of time

- Agrodyke is intentionally priced to remain affordable and accessible to farmers of all scales, from rural smallholders to commercial growers. A usage of just 1kg is equivalent to 100kg of conventional fertilizers;
- By integrating Agrodyke into their crop management routines, farmers can significantly increase their income through higher productivity and lower input costs. Trials and field reports have shown that Agrodyke can help boost harvest yields by 15% to over 40%, depending on crop type and field condition. This improved output translates directly into greater earnings per hectare, especially for high-value crops targeting premium or export markets;
- Cost savings are a key advantage of Agrodyke, with reductions of up to 50% in total expenditure on inputs. The product minimizes reliance on multiple conventional fertilizers and chemical treatments. In fact, usage of traditional chemical fertilizers can be reduced by 60% to 70%, thanks to Agrodyke's all-in-one formulation. This not only brings immediate financial relief but also reduces environmental stress and future soil remediation costs; and
- Agrodyke also supports farmers in keeping pace with the evolving demands of modern agriculture. As global markets shift toward organic, sustainable, and eco-friendly produce, Agrodyke enables growers to align with these trends without needing to overhaul their entire farming system. It bridges the gap between tradition and innovation—making it a smart, future-ready choice for the forward-looking farmer.



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Environmental Aspect

- Activates soil microbes
- Does not have negative effects
- Eco-friendly for soil water air and even for human

- Agrodyke is developed with deep consideration for environmental sustainability, beginning with its ability to activate beneficial soil microbes. These microorganisms play a critical role in breaking down organic matter, enhancing nutrient availability, and improving soil structure. By stimulating microbial life, Agrodyke promotes a living, breathing soil ecosystem that supports healthy crop growth and long-term land fertility;
- Unlike many chemical-based inputs, Agrodyke poses no negative side effects to the environment. It is free from harmful residues, heavy metals, or synthetic compounds that can leach into the soil or water table. This ensures that surrounding ecosystems remain undisturbed, even with prolonged use over multiple planting seasons. Agrodyke's clean profile makes it an ideal choice for farms seeking to transition into organic or regenerative agriculture practices;
- Agrodyke is fully eco-friendly, offering protection not just to the soil, but also to the air, water, animals, and humans. When applied, it does not release toxic fumes or volatile compounds that could harm nearby communities or livestock. Its runoff, if any, is non-polluting and safe for aquatic life, making it a sustainable option for farms located near rivers, ponds, or coastal areas; and
- The holistic safety of Agrodyke underscores its role in building a responsible and resilient agricultural future. Farmers who adopt Agrodyke are not only nurturing healthier crops, but also playing an active role in environmental conservation.



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Social Aspect

- Improves the Prosperity of Farmers
- Support to local and regional economies
- Organic Homestay

- Agrodyke contributes meaningfully to the social well-being and prosperity of farming communities. By improving yields and reducing farming costs, it helps increase farmers' income and financial security. This uplift in earnings enables rural families to invest in better living conditions, education for their children, and healthcare - laying the foundation for stronger, more resilient communities;
- The adoption of Agrodyke has ripple effects that extend beyond individual farms to support local and regional economies. With increased productivity and surplus harvests, farmers can create new business opportunities such as direct-to-market sales, food processing ventures, or value-added organic products. These activities generate employment and stimulate growth across the agricultural supply chain—from seedling suppliers to rural marketplaces;
- Agrodyke also aligns with a growing social movement toward sustainable, experience-based agriculture, such as community-supported farming and organic homestays. By enabling truly organic farming without chemicals, it allows farmers to open their land to visitors seeking authentic, eco-friendly rural experiences. Agrodyke indirectly supports agri-tourism models that generate income while educating the public about green living and food origins; and
- At its core, Agrodyke is not just a product, but a catalyst for social transformation. It empowers farmers to become stewards of the land and drivers of economic development in their regions and helps shape a future where agriculture is not just productive - but also inclusive, ethical, and community-driven.



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LEADING THE MARKET

- Agrodyke is quickly emerging as a market leader in sustainable agricultural inputs, setting a new standard for performance, affordability, and environmental responsibility. Unlike conventional fertilizers that rely heavily on chemicals, Agrodyke's advanced formulation delivers powerful results while staying true to organic principles. It meets the evolving demands of both farmers and consumers who seek healthier food and greener farming methods;
- What sets Agrodyke apart is its ability to deliver multiple benefits in a single, easy-to-use product. From accelerating plant growth and improving soil health to reducing dependency on chemical fertilizers and cutting operational costs, Agrodyke offers unmatched versatility. Its proven results—such as increasing harvest yields by up to 40% and reducing fertilizer use by up to 70%—make it a trusted solution among modern growers;
- Agrodyke's market leadership is also driven by its accessibility and adaptability. Packaged in compact 1kg bags, it's designed for practical use across all farm sizes, from smallholders to commercial estates. Its affordability ensures that even resource-limited farmers can access cutting-edge agricultural innovation, empowering them to scale production sustainably without financial strain; and
- As global agriculture shifts toward sustainability, Agrodyke is positioned at the forefront of this transformation. It bridges the gap between traditional farming practices and future-ready solutions, making it not only a product of today—but a leader of tomorrow. Backed by strong field performance and a growing user base, Agrodyke is not just following market trends—it's defining them.



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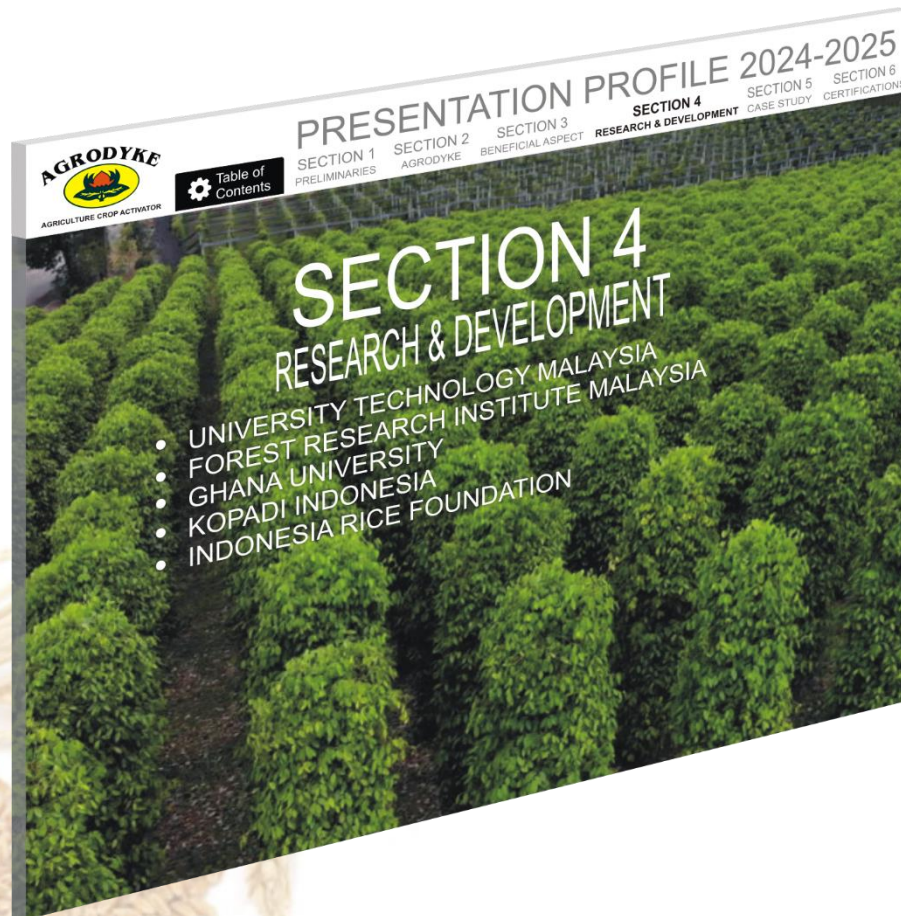
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UTM

UNIVERSITI TEKNOLOGI MALAYSIA

UNIVERSITY TECHNOLOGY OF MALAYSIA

RESEARCH PROFILE: GUP-IISJ 2016

BY: PROF ADIBAH YAHYA & ASSOC PROF DR MADIHAH MD SALLEH

At the Faculty of Bioscience and Medical Engineering, UTM, fundamental research was carried out involving a group of 26 postgraduate students as part of their project. The effects of bio-feed Agrodyke to the environment, soil and water was studied. At present, biological analysis of water and soil treated with both bio-feeds showed possible selectivity of bacterial growth that is beneficial to soil and water. Fungal growth was not observed from bio-feed treated soil and water, indicating to the possibility of bio-feed to act as anti-fungal agent.

Mutual agreement had also been achieved with the Genetic cluster of Forest Research Institute Malaysia (FRIM) to collaborate in R&D exclusively for bio-feed Agrodyke. This collaboration is aimed at finding scientific proof to the effects of bio-feed Agrodyke to defense system of plants against fatal fungal infection.

*** REFER TO SEPARATE RESEARCH FILES ***



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*** REFER TO SEPARATE CASE STUDIES FILES ***



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