



MODERN AGRICULTURE SOLUTIONS LIMITED

ENHANCING FARMER PRODUCTIVITY THROUGH CLIMATE SMART AGRICULTURE TECHNOLOGIES

Company Profile 2023

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Enhancing Farmer Productivity Through Climate Smart Agriculture Technologies

ABOUT US

Who we are

Established on June 18th 2019, Modern Agriculture Solutions Limited was created to solve problems faced by small holder farmers in Zambia with a focus on horticulture. We aggressively market and distribute climate smart, modern methods and affordable agriculture equipment which enhances productivity and livelihoods amongst small holder farmers in Zambia. Modern Agriculture Solutions Limited (Ltd) is a Zambian owned promoter and supplier of products that offer SMART farming solutions to smallholder farmers in order to increase their growth and productivity. This is done through a one stop Knowledge Hub that houses and incorporates all its products and services.

The aim of Modern Agriculture Solutions Ltd is to contribute to the eradication of poverty and contribute greatly to the gross domestic product of Zambia. This will be done by firstly, creating an innovative environmentally SMART and modern holistic product that's fit for the Market so that the company Vision, Mission, Objectives, Values and Goals of the business are clearly reflected in its presentation on the market. Modern Agriculture Solutions epicenter is its Knowledge Hub where farmers come and train and also have hands on practical experiences on how best to use products showcased at the hub. Its model will be guided through a clearly documented business plan with clear performance indicators. This will be implemented by a team that has been specifically built to focus on creating a positive customer experience.

The primary product is the Farmer's Knowledge Hub itself that acts as a one stop centre that incorporates other products and service lines to farmers and other stakeholders. It is a capacity building centre that provides technology, technical and farm management support with an aim to increase company revenue and also raise the socio – economic standards of communities. It will increase nutritional standards through various courses in crop production and management and farming as a business as well as best practices in SMART solutions that easily deal with climate change.

ABOUT US

Our Mission Statement



Our Vision

To be the leading provider of modern technical know how in the agribusiness value chain and providing world class solutions and services to our customers.

Our Mission

To enhance productivity and livelihoods amongst smallholder farmers by providing them with climate smart and effective agriculture equipment, methods and technologies.

Our Values

The Company is well known for implementing its core values and beliefs of;

- Valuing its customer, the Smallholder Farmer.
- Valuing its employees.
- Valuing its suppliers and the quality goods they supply to the Company.
- Valuing its knowledge hub where it builds the capacity of farmers and produces different vegetables for the local community as well as providing training, key advice and information.
- Valuing its mentors for imparting its human resource with knowledge and key technical assistance.

ABOUT US

**MODERN AGRICULTURE SOLUTIONS LIMITED
PRIDES ITSELF IN BEING KNOWN FOR:**

Innovation: Modern Agriculture Solutions Limited's entire portfolio is designed and developed in house and draws on its extensive experience in the agriculture arena, taking into account specific requirements of our clients and partners. It is a continuing endeavor as the company seeks improved and efficient methods of production and processing.

Affordability of its product. All products are of high quality and have been made affordable to all small scale farmers.

High Quality products and services. Our products create prosperity for small scale farmers, ensure and exceed customer expectations and we continually upgrade our technical competence so as to be a world class organization.

Honesty to internal and external stakeholders.

Timely service delivery.

Transparency.

Objectivity in the way it will undertake all its business activities.

Respect to all internal and external stakeholders.

Professional in its dealings with stakeholders at all times.

OUR PRODUCTS

Junior Master Gardener



New product line aimed at promoting the culture and love of gardening in children and youth aged between 5 and 19. The product will “Build a framework for knowledge and exchange“. Knowledge sharing and learning are critical components in developing good practices. We will provide information each person needs to become the best gardener they can be. This product will focus on “Building a community of successful Home Gardeners” Gardening boosts creativity and inspiration, improves mental health, fosters trust and close relationships, and raises cultural awareness. It gives a sense home and belonging, as well as a safe, encouraging environment in which to learn new things. This new product line also promotes a better lifestyle through gardening as gardening is a great way to produce healthy food at home. We will provide participants with the products they need to start their own garden at home so that they can grow, prepare and eat healthy produce made on their own.

OUR PRODUCTS

Hydroponics System



A new product line that involves the cultivation of plants by placing the roots in liquid nutrient solutions rather than soil. It can be used anywhere and with multiple types of fruit and vegetables. Types provided are Aeroponic System, Drip System, Ebb and Flow (Flood and Drain), Deep water culture and the Wick System.

Seedlings



For our farmers who want a “Kick Start” to planting we now have in stock high quality seedlings for onion, tomatoes, cabbages, broccoli, cauliflower, peppers . Seedlings are easier and less time consuming and may save up to 6 weeks of growing time.

OUR PRODUCTS

Food and Nutrition Class



This class will focus on showcasing nutrition as a critical part of health and development that is related to improved infant, child and maternal health, stronger immune systems, safer pregnancy and child birth, low risk of non-communicable diseases such as diabetes and cardiovascular disease and longevity. The objective of this course is to ensure that participants attain the skills to prepare and preserve vegetables in such a way as to maintain vitamins, minerals, phytonutrients and essential nutrients for maximum health benefits.

OUR PRODUCTS

Greenhouse Construction



This new product will promote construction of greenhouses, greenhouses are used for the cultivation of high-quality fruits, flowers, various crop nurseries, ornamental and medicinal plants. The benefits of greenhouses to our clients are high production per unit area because the genetic potential of the crop can be completely exploited, vegetables and nurseries can be grown off-season that obtain high market prices, good quality products and it is easy to protect the crops from pests, diseases and extreme climatic conditions.

Organic Fertilizers

We have now introduced organic fertilizer for our clients. Advantages of using organic fertilizer are that soil structure is improved and as a result the soil's ability to hold onto water and nutrients increases; microbes thrive; organic fertilizers are also sustainable and environmentally friendly; they reduce the use of pesticides and plant damage threat is avoided.

OUR PRODUCTS

Irrigation sales and installations – We have a signed agreement (Sole distributorship) in place with **Floppy Sprinkler** and KSNM Marketing, a company in India which produces and supplies **Rain hose irrigation** to us. In order to produce 1.5 million onions per hectare, a farmer needs to use this kind of irrigation. We also provide **Drip irrigation systems**.

Floppy Irrigation



We provide solar powered floppy that allows for even water distribution, reduced maintenance costs and increase yields from 15 – 40%. It is energy saving and has a lifespan of up to 25 years. Floppy Sprinkler technology embraces the three macro drivers of the global agricultural sector namely water saving, energy saving and environmental sustainability. This innovative technology ensures the effective application of water in various industries – Agriculture, Golf courses, Landscaping, Nurseries, Solar Panel Cleaning, Dust Control, Mine-dump Leaching, Fire Protection and Domestic Gardens. Precision Agriculture is enhanced through cooling and the accurate application of fertigation and pesticides.

OUR PRODUCTS

Rain Hose Irrigation



We provide Rain Hose which is an affordable spray irrigation technology. It is easy to install, gives uniform wetness, no clogging, fast irrigation where filtration is not required. It is a replacement for Sprinkler Irrigation System. Rain Hose is flexible hose with pattern of drip holes. These drip holes are made with nano punching technology to ensure uniform flow of water. Rain Hose is suitable for closely spaced crops, onion, vegetable crops, leafy vegetables, groundnut etc.

Rain Hose Irrigation

Flat Inline Drip Kit contains all the items required for 1 acre of land. All the required fittings are part of the kit. Lock connectors ensure easy installation in the field. This is a standard kit with 200 Micron / 16 mm / 4 LPH / 30 cm. Different spacing and discharge are also available.



OUR PRODUCTS

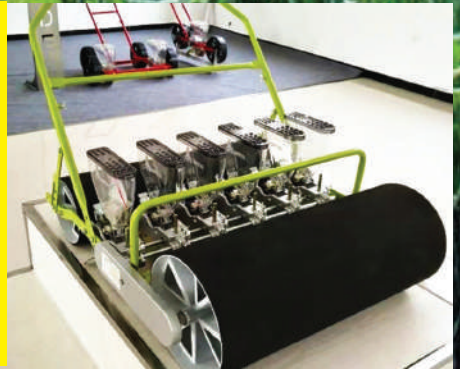
Supply of Diesel Pumps

We recommend and supply pumps according to the needs of the farmer. The farmer may choose from our wide range of solar or engine pumps.



Hand Held Vegetable Planters

We provide hand held vegetable seed planters, the planters enable you to directly sow seeds. This removes the laborious exercise of transplanting for smallholder farmers.



Maize and Soya Seed Planters

For easy and convenient planting of maize and soya we have two in one maize and soya planters in stock.



OUR PRODUCTS

Hybrid Onion Seed

We are distributors of Hybrid vegetable seeds from trusted brands such as Starke Ayres and Syngenta. We offer a variety of onion seeds such as the Starke Ayres Yakuti F1 which contains 15, 000 seeds



Poly Pipes and Poly Accessories

In stock we have high quality poly pipes and accessories of different sizes for reliable water distribution.



OUR PRODUCTS

Organic Herbicides

For the control of weeds we have available a wide range of organic pesticides proven to be effective



Galvanised Reservoir Dams

We supply and install reservoir dams of different size and capacity. These reservoir dams provide essential water for stock, irrigation and gardens. They also provide water for fire protection and can be used for recreation.



OUR SERVICES

Aggregation service and Market Linkages – When the onion is ready, the farmers through Modern Agriculture Solutions sale the onions to chain stores and Zambian and Congolese traders.

Farmer training and knowledge ‘enhancement – This is done to build capacity amongst the farmers. We have a demo plot in Kitwe where we have practical training and hands on experience for farmers.

Onion planting services – We have 5 onion planters which farmers are able to hire at a fee. The planters are able to drill 1.5million to 2 million onion seeds per hectare. This is the easiest way for farmers to increase plant population and income.

Agriculture Extension Services and Monitoring – We have recruited a number of extension officers specialized in onion growing to help the farmers manage the crop from planting to harvest.

Agronomy Services – Provides information and advisory service on how to manage farm and its technology including planning, implementation, monitoring and post-harvest evaluation.

OUR SERVICES

Crop Production Consultancy - Farm mapping, Soil and plant analysis, Fertilizer recommendations, Integrated pest management, Manure management, Crop residue and cover crop management, Environmental services and recommendations.

Irrigation Consultancy Services – Professional and Technical Support from Planning, Installation, Implementation and Harvesting.

Zambians in Diaspora Farming Service – We provide Farm planning and management for Zambians in the Diaspora.

Rural development services through the use of climate smart agriculture – Professional farming support to help farmers maximize opportunities and improve efficiency.

Farmer Training in Horticulture – We offer various training programs in horticulture that currently include vegetable and crop production. These courses are about gaining practical skills in organic horticulture. This course focuses on different components of growing mixed vegetable crops for direct markets and includes interactive online content, plus opportunities for experiential learning through our demonstration plot.

OUR SUPPLIERS



Rainhose | KSNM Marketing, India

Drip Irrigation System | KSNM Marketing, India

Floppy Sprinkler Irrigation System | Floppy, South Africa

Reservoir Dams | Moggs Distributors, South Africa

Hand Held Vegetable Planters | Taian Mingyi Machinery

Equipment Co. Ltd, China

Hybrid Vegetable Seeds | Starke Aryes and Syngenta

Fertilizer | Yara Fertilizers

OUR VALUED CLIENTS



- Small Holder Farmers
- Cooperatives
- Walk In Clients
- Local Based Farmers
- Ministry of Agriculture Zambia
- Zambia National Service
- IDE Zambia
- NRDC
- Kansanshi Mine Foundation
- Lifesong
- Accelerated Growth for Small and Medium Scale Enterprises (AGS)
- Poor Clares

OUR PROJECTS



Grizzly Mine - Ontario Farm

OUR PROJECTS



Chimoko Farms

OUR PROJECTS



Primemade Farms

OUR PROJECTS



PLEAP Zambia

OUR PROJECTS

The Farmer's Knowledge Hub



The Farmer's Knowledge Hub is the latest and current project being implemented by Modern Agriculture Solutions. The Knowledge Hub incorporates all stages of SMART farming from planning to post harvest.

All activities conducted by us will be incorporated into the hub as a one stop centre to cater for the community, individual farmers and cooperatives. The Hub aims at building the technical skills and capacities of those that will participate. It will also serve as a one stop shop for the supply of relevant products and services.

The Hub will be an information and knowledge centre based on practical experiences and hands on knowledge.

BOARD OF DIRECTORS

Responsible for the company's strategic direction, talent development and financial performance, our Board of Directors is dedicated to building a company that nourishes the world in a safe, responsible and sustainable way. Although they represent a diverse collection of experience both inside and outside of Modern Agriculture Solutions, each of them has a strong track record of leading people to achieve results.

Together, they are working to make Modern Agriculture Solutions Ltd the most trusted partner in SMART Agricultural solutions for farmers.



**Sally Sampa
Siame**



**Changala
Yambayamba**



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