

Insight

Industries

2024

Enchating Industrial Growth in East & Central Africa

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AGRITECH AFRICA

SMART
FARMING





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AMRUT FILTRATION, 30, Butere Road, Industrial Area, Nairobi, KENYA.

➤ **FARM AUTOMATION**

➤ **SMART FARMING**

➤ **BETTER CONTROL**

➤ **HIGH YIELD**

Farm Automation

Auto Fan/Light control

Auto Fogger/Sprayer control

Temperature & Humidity control

Farm Co2 Levels

Water Flow Rate



IMPORTANCE OF FARM AUTOMATION

Times are changing and so are agricultural farming methods. Due to continued drastic increase of population, there is more demand for food; healthy food. Research shows that world population is projected to reach 9.8 billion by 2050. Thus, without proper farming methods, there will be increased food shortage. Considering the effects of climate change, food scarcity can be worse. Gladly, there is a one-size-fits all solution which Indcare Africa Limited proudly provides- automated agriculture.

What is Farm Automation ?



Also known as smart farming, automated agriculture is the use of technology and machines to automate farming process. The technology is made possible by meticulous combination of sensors, controllers, industrial Internet of Things (IIoT), GPS, Artificial Intelligence (AI) and advanced analytics. Examples of these systems are; automated greenhouses, autonomous tractors, agricultural robots, crop and soil monitoring systems. At Indcare Africa Limited we facilitate farm automation through automatic fertigation system, weather pod and advanced soil testing kits. Using our technology, farmers are producing healthier food with less land, chemicals, water and energy.

Farm automation has become more popular in recent years because of its advantages over traditional farming methods. Recent studies show that smart agriculture market namely precision farming, livestock monitoring and smart greenhouses is valued at \$ 22 billion and is growing at 13.7% yearly.

What are the benefits of farm automation?

The incredible growth and mass adoption of smart agriculture shows farmers are eager to tap on its benefits. The following are the advantages of farm automation.

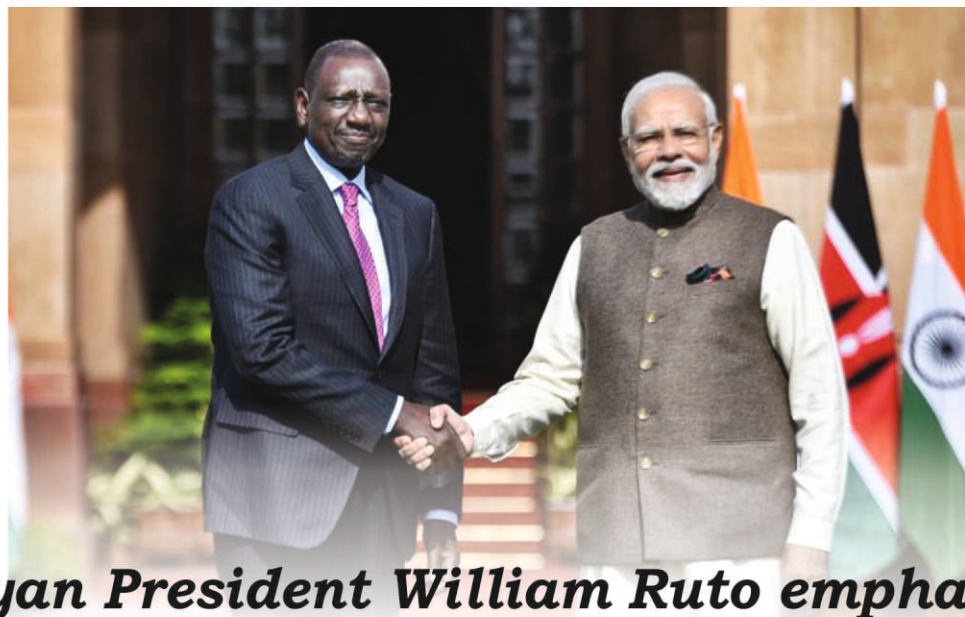
- **Increases efficiency:** Automation speeds up processes by reducing the need for manual labor and minimizing the risk of human error. This helps to increase the efficiency at the farms, ultimately leading to higher profits.
- **Reduces the costs of production:** Automation reduces the cost of labor, as well as the cost of farm inputs such as seeds and fertilizers. This is because the processes are automated meaning there is less waste or excess use of inputs. By using technology to optimize these areas, a farmer saves money.
- **Improves farm quality:** Automated systems improve the quality of crops. For example, the farmer knows when to add more fertilizer or reduce pH. Thus, the quality is always on check mode.
- **Increases productivity:** Automation increases the productivity of the farm. For example, precision farming techniques enable the farmer to optimize irrigation and fertilization practices, leading to higher crop yields.
- **Enhances sustainability:** Automation reduces the environmental impact of farming operations. For example, precision farming techniques minimize the use of water, fertilizers, and pesticides, which can help to reduce the carbon footprint of the environment.
- **Improves safety:** Automation improves the safety at the farm by reducing the risk of accidents and injuries which can occur frequently in case of manual labor. For example, robotic harvesting systems can help to reduce the risk of slips and falls on wet or slippery surfaces.
- **Better data management:** Automation improve the accuracy and efficiency of the data management. For instance, farmers are able to track and analyze data related to irrigation, fertilization, and crop yields. This helps them to make informed decisions about their farm and production.
- **Increases precision:** Automation increases the precision of the farming operations. A farmer knows the exact amount of water, fertilizers, and pesticides to apply leading to more consistent crop yields.
- **Gives the farmer greater control:** Automation enables the farmer to control farming operations. For example, they are able to monitor and control irrigation and fertilization practices in real-time, greenhouse weather and soil parameters such as conductivity, pH and NPK levels. Therefore, a farmer can make quick and informed decisions through automated farming.

Conclusion: The Future of Farming is Automated

Due to its benefits, in future more than three-quarter of the global farms will be automated. This is because other than producing quality food with less resources, the environmental impact by agricultural industry is greatly reduced.

Indcare offers uniquely innovative farm automation systems. Our experts optimize farmer's agricultural results by giving the best consultancy on smart agriculture. To learn more about our cutting edge farming technology...

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Kenyan President William Ruto emphasizes the strong friendship between India and Kenya

The Kenyan President outlined key areas of collaboration, including rural development, agriculture, vaccine manufacturing, and genomics. Both countries are set to sign memorandum of understanding (MoUs) to foster cooperation in these domains. Ruto highlighted the importance of enhancing business relationships, expressing optimism about strengthening economic ties between India and Kenya.

India provides \$250 million Line of Credit to Kenya for Agricultural Modernisation

Need of the Modern Day Agriculture

Portable Soil Testing Kit

Features

- Instant data collection
- Senses 7 soil parameters namely - Moisture, Temperature, EC, pH and NPK
- GPS enabled for capturing test location
- Instant report print in local language
- Custom data entry like farmer details, land and crop details
- Battery and Bluetooth based for ease of operation
- Cloud data push for backend monitoring and analysis

Hardware features

- Android based portable hardware
- Inbuilt thermal printer for instant on spot report print
- GPS, 4G enabled for real-time data capture and cloud push
- Rugged waterproof sensor for long term use
- Expandable memory for local storage

SOIL TESTING KIT

Optimum soil fertility is crucial for better yield. Poor soil fertility leads to low food production. Although nutrients are applied to improve soil fertility, a farmer should know the actual soil requirement for best results. However, due to the lack of resources such as soil testing laboratories and soil kits, most farmers apply the nutrients blindly. Such applications can have adverse effects on the soil and deteriorate yield further. In other words, blind fertilization causes more toxicity and nutrient imbalance in the soil.

Overview :

Our Soil Test Kit is a comprehensive soil testing solution designed to provide farmers, horticultural, gardeners, and homeowners with detailed insights into their soil health and nutrient status. By analyzing soil samples, the kit empowers users to make informed decisions regarding fertilizer applications, crop management, and soil improvement strategies. This is because it shows both soil deficiencies and excess nutrients.

Soil Analysis Parameters : The test kit analyzes the following soil parameters:

- pH: Measures the soil's acidity or alkalinity.
- Organic Matter: Indicates the level of decaying plant and animal material in the soil.
- Nitrogen (N): essential macronutrient for plant function and is a key component of amino acids, which form the building blocks of plant proteins and enzymes. Proteins make up the structural materials of all living matters and enzymes facilitate the vast array of biochemical reactions within a plant.
- Phosphorus (P): essential for cell division and development of the growing tip of the plant. Also promotes flowering, and fruiting.
- Potassium (K): Strengthens plants and improves their pests and disease resistance.
- Sulphur (S): Contributes to protein and oil synthesis and plant vigor. It also helps in plant's nitrogen metabolism and enzyme activity.
- Calcium (Ca): critical for root cap formation and strength, and thus for root growth and development.
- Magnesium (Mg): Supports chlorophyll production and overall plant health. It also helps to activate specific enzyme systems.

Benefits of the soil testing kit:




- Customized Fertilization: Provides precise nutrient recommendations based on soil test results, optimizing crop yields and reducing fertilizer wastage.
- Improved Soil Health: Identifies soil deficiencies and imbalances, enabling users to implement targeted soil management practices.
- Increased Crop Productivity: By addressing nutrient limitations and improving soil conditions, the kit contributes to increased crop growth and quality.
- Environmental Sustainability: Reduces nutrient runoff and leaching, protecting waterways and ecosystem health. In recent years, the environmental bodies have tightened their belts on the excess use of agrochemicals to protect the environment and consumers.
- Easy and Convenient: The simple sampling process and online reporting make soil testing accessible and convenient.

The soil test kit is suitable for various soil types, including agricultural, residential, and commercial landscapes.

Indcare Africa Limited also provides technical support and resources to help users interpret test results and implement recommendations.

Conclusion:

Indcare soil testing kit helps the users see a snapshot of the health of their soil. It shows the main nutrients and minerals in the soil as well as nutrients deficiencies. The results help the user to make decisions on fertilizer applications, crop management, and soil improvement strategies.

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-  Experts To Guide You
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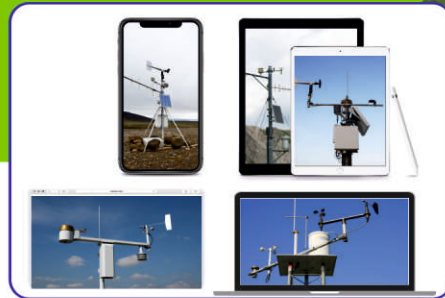
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AGRICULTURE WEATHER POD

Specially tailored-made for Agriculture needs

Choose from
a variety of Sensing
Combinations



Custom made and supplied as per farm requirements

Accurate
and
Precision Data



- Temperature
- Humidity
- Wind Speed
- Wind Direction
- Rainfall
- Dew Point
- Soil Temperature
- Soil Moisture
- Soil NPK
- Soil pH

AGRICULTURE WEATHER POD

Inaccurate weather forecast can affect the grower's period of harvest or planting resulting into reduced income if the unpredicted disaster strikes. Considering the rapid climate change, it is more important than ever for farmers to understand and know weather changes as frequent as possible.

As Indcare, we have put the needs of farmers in the forefront by supplying a robust smart weather pod built to withstand the rough outdoor conditions of the farm all season round. It is also well applicable in greenhouses.

Our Product Features

Our weather pod has the following features which makes it the best fit for your atmospheric and soil forecasting needs:

Compact : it is light weight and can be installed at a height of 3.5m to 4.5m.

Solar Powered : it consists of a solar power which enables it to run independently without interruption.

Network Agnostic : it has a wide range of connectivity through options such as WiFi, Ethernet and GSM.

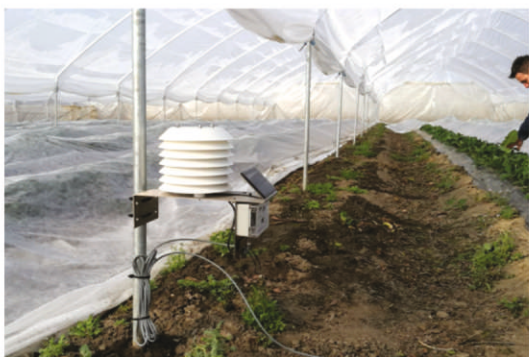
Real-Time Data : our weather pod continuously monitors and transfers real-time data at configurable intervals.

Weatherproof : our product is made to endure harsh weather conditions in all seasons.

Over-The-Air Update : using modern technology, our weather pod automatically upgradeable from a central server without any onsite visit.



Why you Need a Weather Pod ?



Weather conditions can vary over short distances, especially for measurements such as rainfall and wind direction which means that off-site measurements maybe inaccurate. This is because they are taken miles away as part of a public weather network making them inappropriate enough for irrigation or temperature scheduling purpose in a farmer's growing area.

To have a thorough discussion on your agriculture weather pod, BOOK APPOINTMENT We can also fully customize your agricultural weather pod depending on the parameters you wish to monitor. Get in touch. We would be happy to serve you.



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Are you fed-up from ... **Hard Water, Scale & Rust**

AMRUT Scaleguard

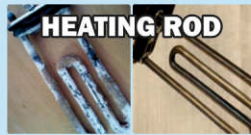
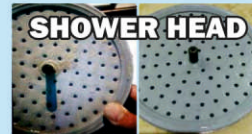


The Electronic Eco-Friendly
100% Maintenance Free Solution

HARD WATER SOLUTION
that can be used in any application

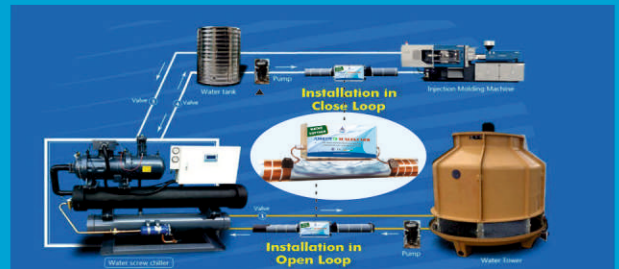
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Effects on Various Surfaces.. Before & After



**AN ELECTRONIC SYSTEM
WHICH IS MUCH EFFECTIVE
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100% ELECTRONIC / FULLY NON-MAGNETIC



**To Reduce & To Prevent
SCALING PROBLEMS**



Anti-Scale DEFENCE

Hard Water can lead to Scaling, Priming, Foaming & damage to Boilers



A Solution
against Scale
in Farming

**Protect Your Farm
from HARD WATER Effect**

Grow Your Crop with our system



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IMPROVE YOUR FARM EFFICIENCY

with **AMRUT SCALE GUARD**

As fertiliser prices increase globally, it is imperative that we make the most of the limited resources we currently have. By eliminating pipe scaling issues, restoring nutrient balance, and creating an environment where plants can take in the nutrients which are already available, **AMRUT's** innovative water conditioning system can improve the efficiency of any patch of land.

Learn how you can unlock the power of water with AMRUT, the innovative water softening equipment.

HOW DOES WATER CONDITIONING BENEFIT CROPS?



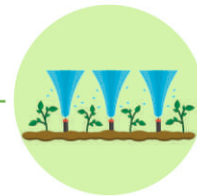
Unlocking the Natural Minerals in Water

Water that is treated using Hydrosmart products makes the otherwise insoluble mineral particles in water bioavailable as plant nutrients. This reduces the volume of fertiliser and chemicals required.



Which Minerals are Unlocked?

Minerals such as iron, calcium and magnesium are often the cause of build-up in pipes, but they are also useful nutrients once treated. Using Hydrosmart technology, each mineral is broken down into bioavailable plant nutrition.



Scale Removal and Improved Irrigation

Hydrosmart provides efficient scale removal in irrigation pipes and fittings such as sprays and drippers. This leads to improved water flow, better irrigation and more efficient uptake of nutrients by plants.



Benefits in Conditions of High Salinity

For growers who must work with water which is high in salinity, Hydrosmarts unique technology allows growers to raise a diverse range of crops in otherwise toxic conditions. With better quality water, growers can significantly reduce their reliance on fertiliser and descaling chemicals, leading to lower costs and healthier crops.



Improved Efficiency with Fewer Chemicals

As the most cutting-edge scientifically researched water softening equipment supplier, Hydrosmart is committed to helping growers get the most out of the most fundamental element for crops: their water.



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AUTOMATIC FERTIGATION CONSOLE

Fully Automatic Multi Zone Fertigation
and Irrigation System
with Scheduling and Auto Valve Control



TAKE YOUR FARM TO THE
NEXT LEVEL



Auto Fertilizer Dosing

Auto-dosing from up to 8 fertilizer tanks. Based on volume, ratio, EC, etc.



Auto Scheduling

Multiple crop template based auto scheduling of mixing and irrigation.



Auto Zone Irrigation

Auto zone based drip line irrigation based on volume, plants, EC, etc. Multi Crop management.



Remote Control and Monitoring

Operate and monitor your console remotely.

AUTOMATIC FERTIGATION SYSTEM

As environmental regulations continue to get stricter and consumer concerns over the use of agrochemicals such as pesticides, fertilizers and fungicides increase, farmers are progressively adopting smart agriculture through automatic fertigation system. Studies shows that excessive use of agrochemicals is contributing to climate change and leading to production of unhealthy food that can result into illnesses such as Parkinson's disease and increased risk of some cancers. To curb such issues, the environment and health bodies are encouraging farmers to adopt modern farming technologies such as automatic fertigation system. At Indcare Africa Limited, we are in the fore front to ensure both the farmer and consumer benefit by supplying advanced modern automatic fertigation systems.

What is Fertigation?

Fertigation is the technique of supplying dissolved fertilizer or nutrients and water to crops through an irrigation system. Employing an automated fertigation system can help growers make informed decisions that can significantly impact water and nutrient usage as well as contribute to reducing crop disease, thus obtaining the maximum possible yield of marketable production from a given quantity of these inputs.

How the Automatic Fertigation System Works

The working process behind this technology is simple and straight forward. It is comprised of sensors and controllers that are activated as soil parameters change. For instance, if the soil gets too dry, sensors measuring soil moisture senses the dryness and crops are automatically irrigated. The sensors and controllers' operations are made possible by advanced data analytics which apply Internet of Things (IoT) technology and in some models artificial intelligence.

Why a Grower Needs Automatic Fertigation System?

There are several benefits of using this system:

- **Precision in fertigation:** the system delivers accurate volumes of nutrients and controls other parameters like moisture and pH for optimal growth. This also reduces crop failure leading to more yield.
- **Integrated control with easy system management:** the farmer has one controller that handles all the irrigation, backflushing and fertigation needs. Additionally, the farmer can monitor and control the fertigation when offsite.
- **Easy to use:** it avoids the hassle of traditional fertigation machines where the farmer requires a lot of knowledge and experience on the correct moisture for crops and when exactly to water. Thus, the automatic system takes the complexity out of fertigation and simplifies farming.
- **High quality produce:** due to controlled nutrients supply, the crops produced are of high quality. Moreover, the nutrients are directly applied to the plant roots through the irrigation system. This increases the efficiency of nutrient absorption and results in improved crop resilience to disease.

For more details contact us :



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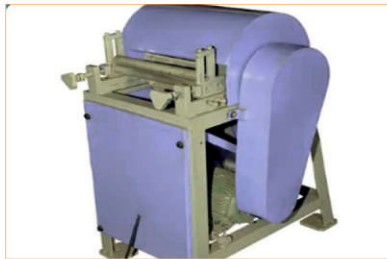


PLA - Corn

1 Banana Stem cutting



2 Banana Fibre Extractor



3 Drying Process



6 Pulp Molding Machine



5 Beater Machine



4 Digester



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U.V.
Kills germs & bacteria



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Removes impurities, bacteria & Virus.



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PRE CARBON BLOCK FILTER
Removes colour, odour, free Chlorine and also absorbs insecticides and pesticides.



PRE CARBON FILTER
Eliminates colour, odour, free Chlorine and also absorbs insecticides and pesticides.



SEDIMENT FILTER
Removes suspended impurities in water like sand, dust, dirt, rust, silt etc.

- Rust
- Virus
- Sediments
- Mineral
- Water Molecule
- Bacteria
- Suspended Solids



UF Filter



Amrut Aqua + UF + UV



Amrut Aqua DIGI



Amrut Under Sink Filter



Amrut Flash

Safe Water for Better health... Better life



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Best water for making great Taste of a Coffee

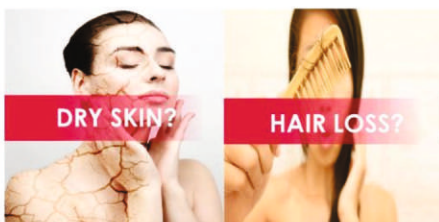
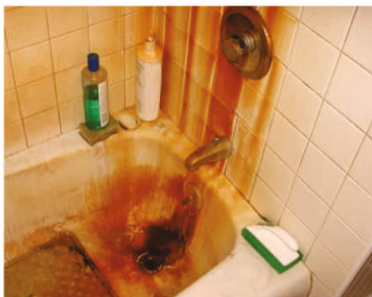
Plumbing & appliances are protect from Scaling



RETHINK YOUR WATER

- Do You Know Every Drop of water you use needs to be treated not just for drinking ?
- Have you noticed if your pipes; taps; showers are getting clogged ?
- Have you noticed white Scale or lime scale problems ?
- Have you had undesirable taste of chlorine or odour from your water ?
- Have you noticed unusal dry skin & hair texture ?

If you have experienced all this problems, then your water needs to treated before use



DRY SKIN?



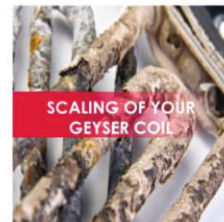
HAIR LOSS?



CORROSION OF YOUR WASHING MACHINE



BLOCKED SHOWER HEAD



SCALING OF YOUR GEYSER COIL



BOREWELL WATER IN BATHROOM?



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HIGH SPEED INKJET PRINTER



HIGH SPEED MULTIPURPOSE INKJET STACKER



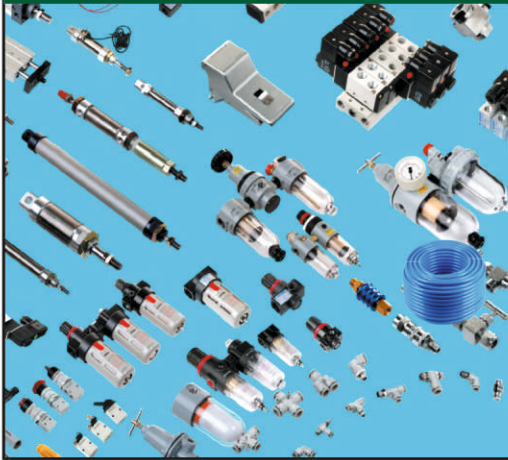
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