

# DIAMOND RIDGE BIODIGESTER KENYA



Diamond Ridge Biodigester Kenya  
Advancement through technology



# COMPANY PROFILE

ACRONYM

D.R.B

## FULL NAME

Diamond Ridge Biodigester Kenya

## LAW UNDER COMPANY HAS REGISTERED

Diamond Ridge Biodigester is registered with Government of Kenya in accordance with the registration of companies' act.

## CONTACT DETAILS

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Chair person

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# ABOUT US

Having more than 6 years' experience in the biogas business we have the expertise to offer accurate and reliable solutions for every sanitation need. Following developments in the local market and increasing legislative requirements.

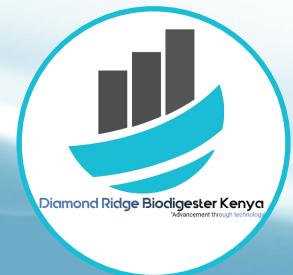
D.R.B adapts its activities in accordance with national quality standards, health and safety, being a registered Company, with a profound sense of responsibility towards the environment and improvement of the quality of life.

## VISION

**Advancement through technology**

## MISSION

**To provide quality sewerage and allied services at commercially and environmentally sustainable levels through application of outstanding processes and technology to the delight of our customers and other stakeholders**



# BACK GROUND

Diamond Ridge Biodigester Kenya is a registered company established in 2016.

Our main role is establishing bio-diversity by rolling out eco-friendly waste management practices.

We specialize in both domestic and commercial biodigester systems that seek to perfectly position households, schools, firms, hospitals, residential areas and other similar ventures ahead of their competitors.

D.R.B introduced into the market its services which combine safety, ergonomics and economical in a visually attractive appearance, while being environmentally friendly.

For over 6 years, D.R.B has gained full recognition in the market. Its presence is widespread; in every household, business and industry.

D.R.B prides itself in servicing the needs of its customers in a safe, efficient, and pioneering manner, yet remains a company with the support of long standing staff.

# ABOUT A BIO-DIGESTER

A Biodigester simply means a tank which digests organic material biologically.

Biodigesters are, however, superb solutions for rural agrarian communities, intensive livestock farms, towns and cities.

In rural areas, biodigesters are built in settlements.

In Indian villages larger units are made to serve a number of families or even a whole village.

In China, where most rural families are clustered, the one family unit is common. Each Biodigester may be supplied with a fresh structure or may be added after an existing septic or primary biodigester subject to suitability checks.



In either case the treatment process is as described for the Biodigester Standard with primary settlement, a Submerged Aerated Filter (SAF) and final settlement with an automatic sludge return and recycling system

The highly efficient Biodigester process design readily caters for variable loadings at sites such as schools or other densely populated localities.

# ABOUT A BIO-DIGESTER

Each Biodigester has a four stage process the first two of which are for the primary settlement of solids.

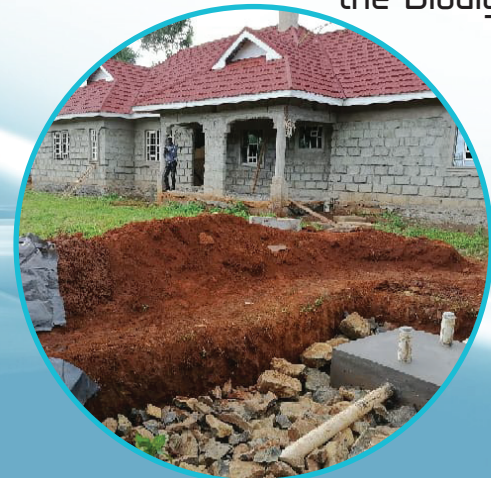
The third stage is a Submerged Aerated Filter (SAF) fed with a supply of air so that naturally occurring micro-organisms degrade the waste water to a high degree in the presence of oxygen.

The final stage of the treatment process is settlement of the secondary solids which are generated within the aerated filter process.

These solids are automatically returned to the primary settlement chambers for storage. The sludge return system also has the important function of recycling effluent throughout the Biodigester.

Biodigester System is suitable for:

- Housing Developments
- Hotels
- Public Houses
- Industrial Sites
- Camping Sites
- Nursing and Retirement Homes
- Recreational facilities
- Schools
- Hostels



# WHAT MAKES UP THE SYSTEM?

- A BIODIGESTER TANK
- A SOAK-AGE OR FRENCH DRAIN

# HOW DOES THE SYSTEM WORK?

Biodigesters use the principle of:

**DISPLACEMENT** which ensures that equal volume of water flushed from the toilet is equal to the water that is displaced from the biodigester to the soakage.

**BIODEGRATION**-This Process completely breaks down organic matter waste from the toilet) into water, carbon dioxide, methane & nitrogen. Enzymes are used to speed up the growth of bacteria which consequently speeds up the rate of reaction.

## THE SOAKAGE/ FRENCH DRAIN

This is where the water discharged from the biodigester goes into. To make sure it is effective, the following have to be considered:

1. The length of the French drain.
2. The type of soil



## APPROVALS

Our structures meet all requirements and regulations set by NCA on product quality and safety.

Biodigesters are in conformity with the NCA and a wide range of other standards.

All accessories and materials meet the required standards. Also, our excellent cooperation with other firms is another guarantee for the total satisfaction of our customers.

## INSTALLATION

With our experience in the Biodigester and septic waste management industry, we have the expertise to offer complete technical installation, which assures a fair, efficient and hustle free operation.

In addition, our trained technicians ensure the installation process is carried out without any trouble. Consistency, expertise and our experience in the Biodigester field guarantee the safety and high quality of our services from the aesthetic as well as functional point of view.



## D.R.B QUALITY

The department of Quality, Health, Safety and Environment coordinates the Company's activities to comply with NEMA standards, aiming a continuous improvement. Our service quality is ensured with technical inspections carried out in certified laboratories. We prioritize the concerns of health, safety and social responsibility. Today, our Management System embraces all operational standards and legislative requirements and we are committed to ongoing improvement.

Our Health & Safety, Environment and Quality policy aims to:

- Satisfy the requirements of our customers.
- Implement measures to prevent accidents and damage to our environment.
- Comply with the Law.
- Continually improve our processes and systems.



## PHILOSOPHY

The Quality Management system is designed and implemented for the control and management of all operations and technical installations.

There is full control and traceability to source at any given moment.

The system incorporates the policies and objectives of the Company that are applied to satisfy customer specified requirements related to the key areas of our business.

The Environmental Management system is designed and implemented for the control and management of all related environmental aspects and effects directly linked to our operations, including all emergency procedures dealing with abnormal situations which will affect our environment.

We make sure that our actions have positive impact to our children and generations to come.

The Occupational Health and Safety Management system is designed and implemented for the control and management of all related Health and Safety Hazards and Risks directly linked to our operations, and affecting the safety of our immediate environment, including all emergency procedures dealing with abnormal situations which will affect employees' safety, and the safety of those immediately affected.

## SAFETY YOUR SAFETY IS OUR PRIORITY

At D.R.B we set as our fundamental obligation our commitment towards the safety and security of our people, community and the environment.

Safety is our primary objective and we conform to all regulations and standards, and in addition we consider other variables we identified in our 11+ years of experience which further promotes safety.

## INSTALLATION RANGE & COST (KSH)



SIZE	USERS	PRICES
1M <sup>3</sup>	1-50 users	@78,000
1.5M <sup>3</sup>	1-100users.	@100,000
2 M <sup>3</sup>	1-150 users	@140,000
3 M <sup>3</sup>	1-300 users	@220,000
4 M <sup>3</sup>	1-500 users	@330,000
5 M <sup>3</sup>	1-800 users	@400,000

Price is exclusive of excavation and purchase of hardcore





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