



BISOL WASTE WATER SOLUTIONS

- COMPANY PROFILE -



NAIROBI

BISOL Wastewater Solutions is a renowned environmental company in Eastern Africa since 2016. Founded by a dedicated team of Kenyan and Australian civil engineers, we specialize in addressing sewerage challenges and promoting sustainable wastewater management practices. Our comprehensive services include Wastewater systems design, Waste-to-resource consultancy, Effluent discharge assessments, Environmental impact assessments, and Environmental audits. We prioritize eco-designs and ensure compliance with legal regulations. Our expertise extends to the construction and installation of wastewater recycling systems, sewerage system reconstruction and maintenance, and drainage works. At **BISOL**, we pride ourselves on delivering innovative, efficient, and environmentally friendly solutions that contribute to a greener and healthier future for you.

OUR MISSION

Bisol waste water solution is committed to building long term relationships based on intergrity and delivering our services as best as possible.

OUR KEY INDUSTRY SPECIALIZATION

- Ultra-modern bio-digesters
- Compact sewage recycling systems (clean 98% clear water)
- Drainage systems (waste water)
- Septic maintenance/ conversions
- Grease interceptors installation
- Waste Plumbing and general fittings
- Bacteria for pit latrines reduction
- Biodigester bacteria ,septic bacteria ,grease degradation bacteria aeration bacteria
- Sewerage management consultancy
- Environment impact assessments (EIA)
- Environmental audits
- Energy audits
- Waste to resource management

ULTRA MODERN BIODIGESTERS

1.BIO-DIGESTER – This is a complete onsite sewer system handling both gray and black water. It achieves this through biodegradation. They speed up the reaction of decomposition of fecal mater. The chamber is inoculated (catalyzed) so it works faster. Systems works in all types of terrain



Sizes
1-40 PE= 1.2M3
100PE= 2M3
1-180PE= 3.5M3
250PE= 7.8M3
450PE= 18.825M3

No dislodging forever
(EXHAUSTION)



What is an EIA and what is its purpose?

Environmental Impact Assessment (EIA) is a tool used to assess the significant effects of a project or development proposal on the environment. EIAs make sure that project decision makers think about the likely effects on the environment at the earliest possible time and aim to avoid, reduce or offset those effects.

Environmental Audit (EA)

An Environmental Audit Old & Ongoing Enterprises/Activities

WHAT IS EA?

Environmental Audit (EA) is the systematic documented, periodic and objective evaluation of how activities and processes of an ongoing project to determine how far these activities and programs conform with the approved environmental management plan of that specific project and sound environmental management practices.

A comprehensive EA promotes safe and healthy environment at all stages of a project operations, as well as decommissioning.

EA, WHAT FOR?

The goal of EA is to establish if proponents of projects are complying with environmental requirements and enforcing legislation.

WHAT ENVIRONMENTAL AUDIT LOOKS FOR

An environmental auditor shall appraise all project activities, including the production of goods and services, taking into consideration environmental regulatory frameworks, environmental standards, environmental health and safety measures and sustainable use of natural resources

A waste audit is a formal, structured process used to quantify the amount and types of wastes being generated by an organization. Information from audits will help identify current waste practices and how they can be improved. Being waste-wise can mean: A more efficient and effective organization.



COMPACT SEWAGE RECYCLING SYSTEM

Bisol Waste Water Solutions provides an effective treatment of sewage in various application. Our sewage treatment provides to full carbon and nitrogen removal and produces high quality efficient (clean, clear, 99% pure odorless water)

Due to it's high quality the water can be used for:-

- a) Discharge into sensitive water cause
- b) Re-flushing toilets
- c) Washing open spaces
- d) Irrigation, lawns and farms
- e) Dust suppression
- f) In instances laundry
- g) Storage for future use

Sizes

1-30 people= 3M3

1-60 people= 6M3

1-159 People= 12M3

1-350 people= Design/Scale (inquiry)

1-500 people= tailor designed/ scaled (inquiry)

1-1000 people= tailor designed/ scaled (inquiry)



Testing is done in conformity to EU Norm En 12566-3 testing institute :

PIA. N Aachem, Germany. System design has been approved by National Environment Protection Council in Australia and Environment Protection Authority



Committed To Manage Your Waste



DRAINAGE SYSTEMS



Our approach involves designing efficient drainage channels that effectively handle blockages, maximizing capacity while minimizing erosion and redundancy. We prioritize maintaining a steady flow of waste to the treatment section while considering the surrounding habitat. Our expertise extends to various sanitary appliances, including toilets and piping systems, where we offer services for their optimal functionality. Our goal is to provide sustainable solutions that prevent blockages and ensure smooth waste management operations.

PLUMBING WORKS

We offer comprehensive plumbing works, including the installation, alteration, repair, and replacement of water pipes, tanks, taps, and fittings. Our expertise extends to drinking water supply systems, ensuring a reliable conveyance of water to portable water tanks

SEPTIC MAINTENANCE & CONVERSIONS

We specialize in septic maintenance and conversions to create more efficient and eco-friendly systems. Our periodic disludging services involve thorough cleaning and disludging of septic tanks. Through our conversion process, we transform septic systems into biological systems by installing soldier bacteria. This bio-digester approach enhances waste decomposition and promotes sustainability



GREASE INTERCEPTOR

This is a waste management system for the grey water – kitchen and bathroom water comes with a Strainer and trap section to hold onto solids and fats.

Best Deal for:

Restaurants Homes Schools

IMPACT

1. Prolong lifespan of soak away
2. Help septic function more efficiently
3. Stops and completely stops smell



BACTERIA SUPPLY

We have different types of Bacteria for different types of setups be it pit latrines, septic, bio-digesters, or grease interceptors. The Bacteria are Bio-engineered to work in different conditions as per functionality.

A. TOILET BACTERIA

psychrophile a type of anaerobic bacteria able to withstand any temperatures.

This bacterium is helps in degrading human faecal waste in an eco-friendly manner

It breaks down 90% of human waste to release water and Bio-gas, which is 50-70%

Methane.

Average life span of Bacteria is up to 35 years

One time inoculation

B. SEPTIC BACTERIA

The septic need good bacterial population

Without adding bacteria your septic tank is going to clog up and over flow that's because essentially your tank and it's soak away are only going to do so much (septic tank need bacteria and microbes to break down solid)

So yes in the case of owning a septic tank on site, bacteria are your friends,

BENEFITS

- a) You will prevent need for regular pumping septic tank pumping can and will cost a lot of money if you do it regularly all tank need a good pump out, but topping up your bacteria means the difference between a pump once every year, and once every five months.
- b) You might already be noticing bad smells from your turning or that some waste water is starting to seep through and Bisol waste bacterial mix to the septic.

C. GREASE INTERCEPTOR BACTERIA

The use of grease interceptors and kitchen drain bacteria restores the biological population of good worker bacteria and enzymes which reduce solids. The beneficial bacterial also get carried over to the soaking area to reduce solids and help prevent logging.

A clogged soak away is the biggest problem for septic system the hardest and costly to repair. Using bacteria will not need an exhauster.



BENEFITS

- a) Reduces surface and bottom waste in system
- b) Efficiently degrades fecal matter and food waste in septic waste, thus preventing sludge build-ups and emanation of foul odors from septic tanks.
- c) Degrades the fats, grease and oils in food waste.
- d) Prevents and removes the bad smell
- e) Packed with powerful bacterial and enzymes to digest the waste.

Grease trap and kitchen drain bacteria precaution:-

- i) Do not touch with bare hands
- ii) Can cause skin irritation
- iii) Keep away from children

Our Bisol compact design effluent standard specification;

BOD 4mg/l, 99%

COD 24mg/l, 97%

TSS 3mg/l, 99%

Purity 98%

APPEARANCE

- 1. Clear
- 2. Colorless
- 3. Odorless
- 4. With no policies



We offer guarantee on our systems and a warranty on the same

BENEFITS OF OUR SYSTEMS

Save your resources with 65% cut on amount on funds saved on fresh water intake

Since you buy water once use it twice

1. No exhaustion
2. Get clean, clear, colorless free water everyday
3. Ambient environment as of no smell whatsoever
4. Top efficiency, significantly under all efficient requirement in Australian, Israel and Kenya standards
5. Safe and silent
6. Cut your cost of water by 60%
7. Can be installed anywhere roof top in case of space issue for large development underground or on the surface.
8. Maintenance friendly

We solve all your sewage management problems be it home, business, institutions, hospital, organization, warehouse, cottage etc.



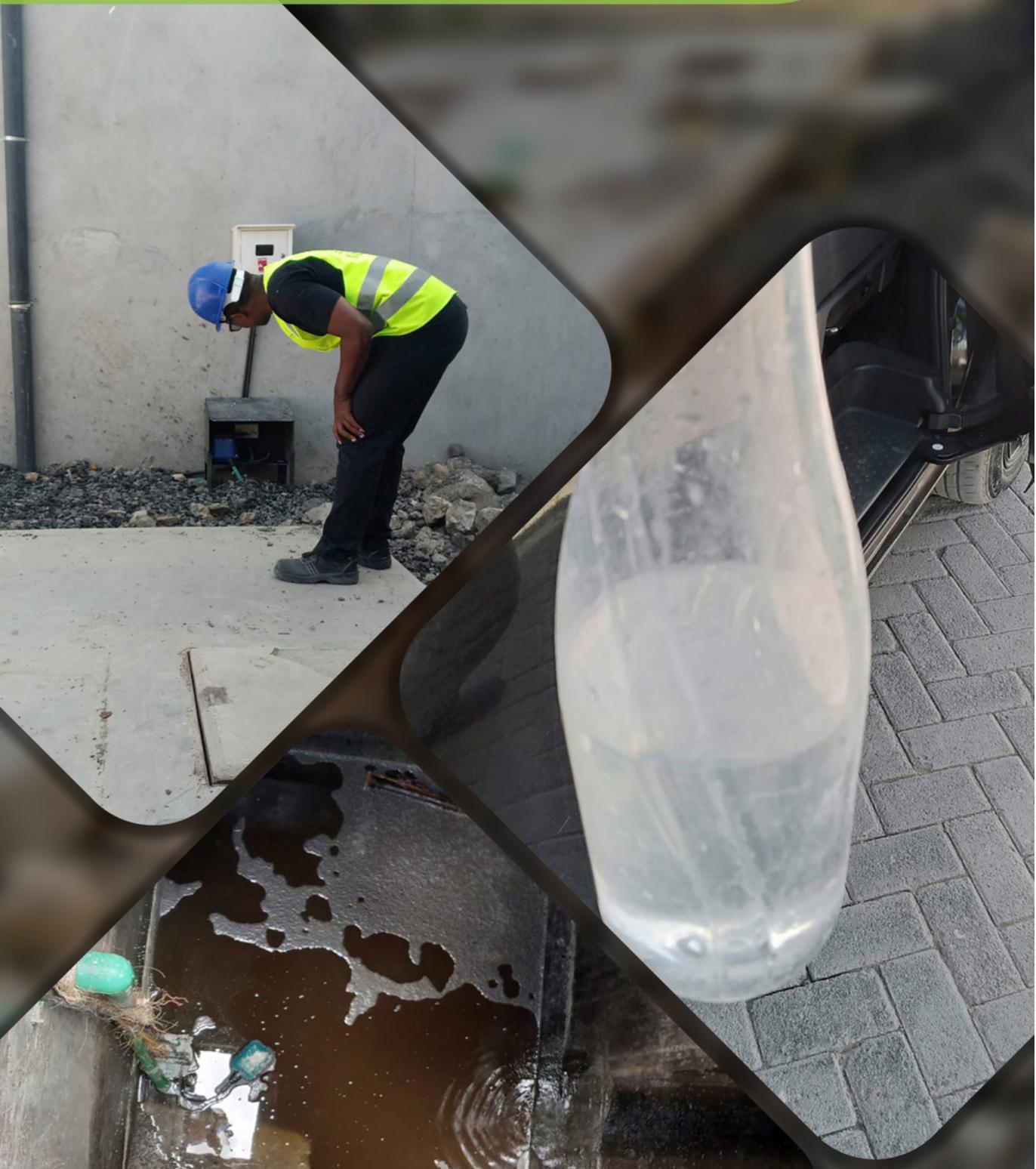
Septic tank system automation in Kabete Nairobi the system was a normal septic and had to be turned into a septic tank that's automated in terms of emptying and treatment. The system is now functioning okay with a leach field



Catholic Assumption sisters in Nairobi Karen area , the system is a 2m³ system that recycle sewage water back to clean clear water to be used for irrigation in the farm



This is a grain bulk handler in Nairobi embakasi the system had to be revamped to a sewage treatment and recycling system that does 10m³ everyday



Septic Tank System Automation



Nairobi, Kabete



Grain Bulk Handlers



Nairobi, Embakasi



Water Recycling System



Nairobi, Karen



Water Recycling System



Rwanda





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