Introduction of ‘Johkasou’

Contribute to African Clean City

usafi comfort

PROTECT×CHANGE

Daiki AXIS

Example of Pollution in Water Bodies

To prevent these environmental pollution Daiki Axis is in the Africa !

Daiki Axis Introduction

私たちは半世紀に渡って「水と暮らし」をテーマに快適生活の創造と
環境保全を行ってきました。これからは、水だけに留まらず、
"環境としての自然"と"資源としての自然"の両面を持つ
かけがえのない地球と快適な住環境の調和を取りながら、
ダイキアクシスは、未来へ向かって進化し続けます。

- 60 years experience water treatment company
- Having four Johkasou factories in Japan, and one factory in Indonesia.
- Two more new factories will be established in China and India in 2018.
- Entered into the African market in 2017.
- Having an official distributor in Kenya.
- Attended the TICAD Ministerial Meeting Side Event, African Clean Cities Platform held in Mozambique in August 2017.

Septic Tanks in Kenya

Apartments 30m3/d

Individual House 5m3/d

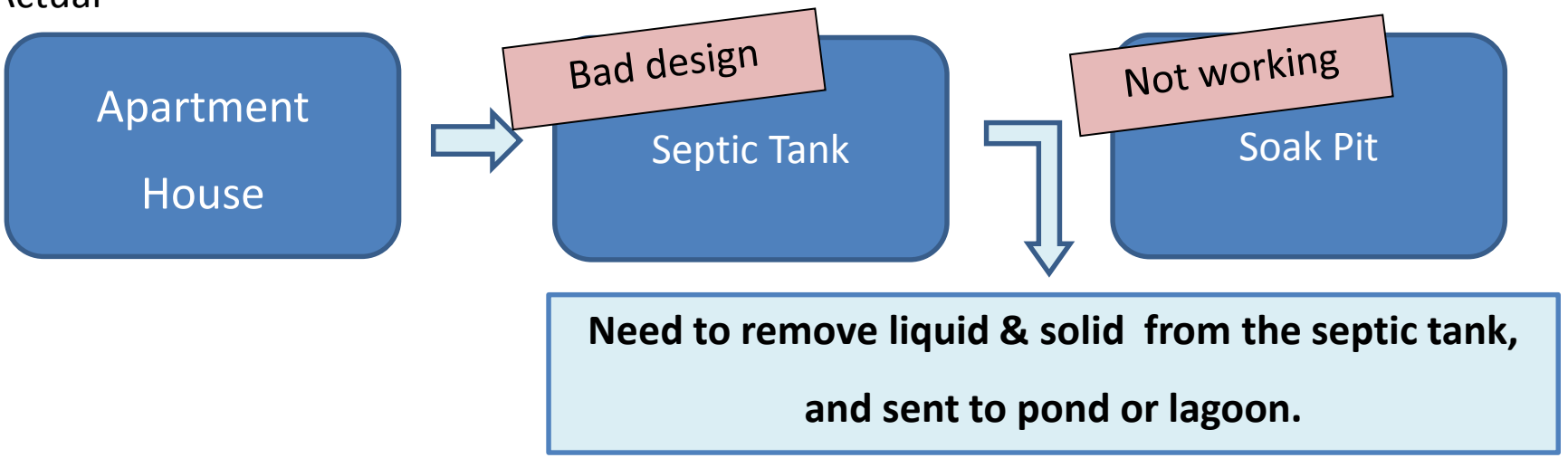
These Septic Tanks are not appropriate water treatment system

Kenya Project with our Local Partner

- Kenyan Domestic Water Treatment Situation

- Design

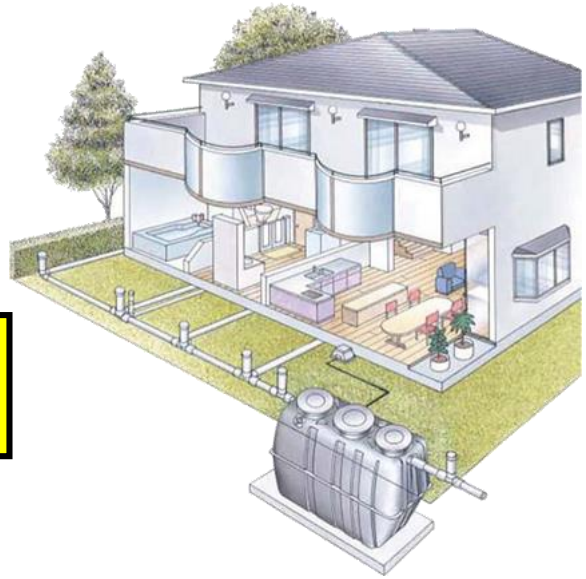
- Actual



*Soak Pit: As wastewater (greywater or blackwater after primary treatment) percolates through the soil from the soak pit, small particles are filtered out by the soil matrix and organics are digested by microorganisms.

What is Johkasou ?

- Johkasou is decentralized onsite domestic wastewater treatment system.
- Developed and improved by Japanese government and companies from 1960s.
- To produce Johkasou in Japan, manufactures must get government certification.
- Designed for treating both black and gray water discharged from facilities.
- Anaerobic & aerobic system enable low running cost and small foot print.
- Johkasou treated water and sludge are easy to reuse.
- Very low initial cost compare than centralized system.



Johkasou was developed to solve water pollution caused during the rapid economic growth of the 1960s.

Small scale Daiki Axis Johkasou (Capsule Type)

Example of Capsule Type: 1～15m3L/day

Type	Inflow Capacity (m3/day)	Length(m)		
		W	L	H
BA1	1	0.75	1.86	1.30
BA2	2	0,96	3.00	1.30
BA5	5	1.70	2.80	1.98
BA10	10	2.20	3.60	1.98
BA15	15	2.20	4.85	2.28

Main material : FRP

Technology : Anaerobic & Aerobic (MBBR)

Designed in Japan

Manufactured in Indonesia

BA4 : Capsule Type Johkasou

Effluent treated water quality is BOD less than 20mg/L

Large scale Daiki Axis Johkasou (Cylinder Type)

Example of Cylinder Type:20～50m3/day

Type	Inflow Capacity (m3/day)	Length(m)		
		W	L	H
BAE20	20	Φ2.17	5.32	2.30
BAE50	50	Φ2.17	10.67	2.30
BAE80	80	Φ2.17	8.81	2.30
		Φ2.17	8.63	2.30
BAE100	100	Φ2.17	10.94	2.30
		Φ2.17	10.70	2.30

*BAE80,BAE100 (more than BAE 50 needs two tanks)

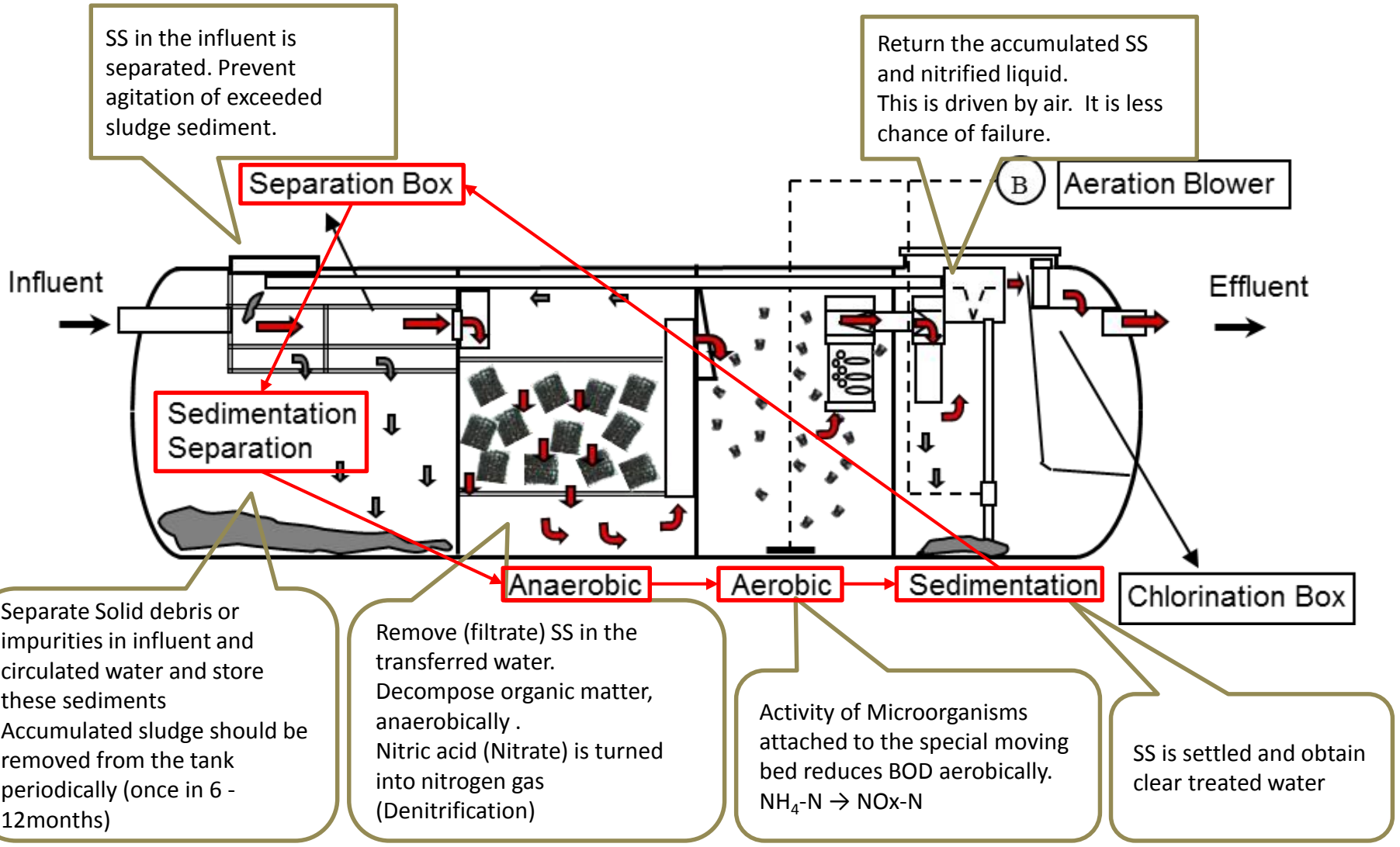
BAE20 : Cylinder Type Johkasou

BAE is BOD removal type

- Effluent BOD ＜20mg/L
- BOD removal rate is 90% or more

Structure & Function

- Johkasou is packaged system, and completely different from Septic tank !!



Indonesia Factory

- Produce in Automation factory, always we can provide high quality product!!

Factory in Indonesia and Factories in Japan are:

- Same Production Process
- Using Same Production Equipment

Product in Indonesia:

- **High Quality Product**
- **Local Cost**

Cylindrical Molding Machine

Automatic Opener

Automatic Molding Machine

Indonesia Factory Appearance

In the Factory

Work Landscape

Kenya Project Example

Nairobi Apartment Project 60m3/d

Kenya Project Example

Johkasou introduction at the installation site

Kenya Project Example

Small scale Johkasou installation_1m3/day

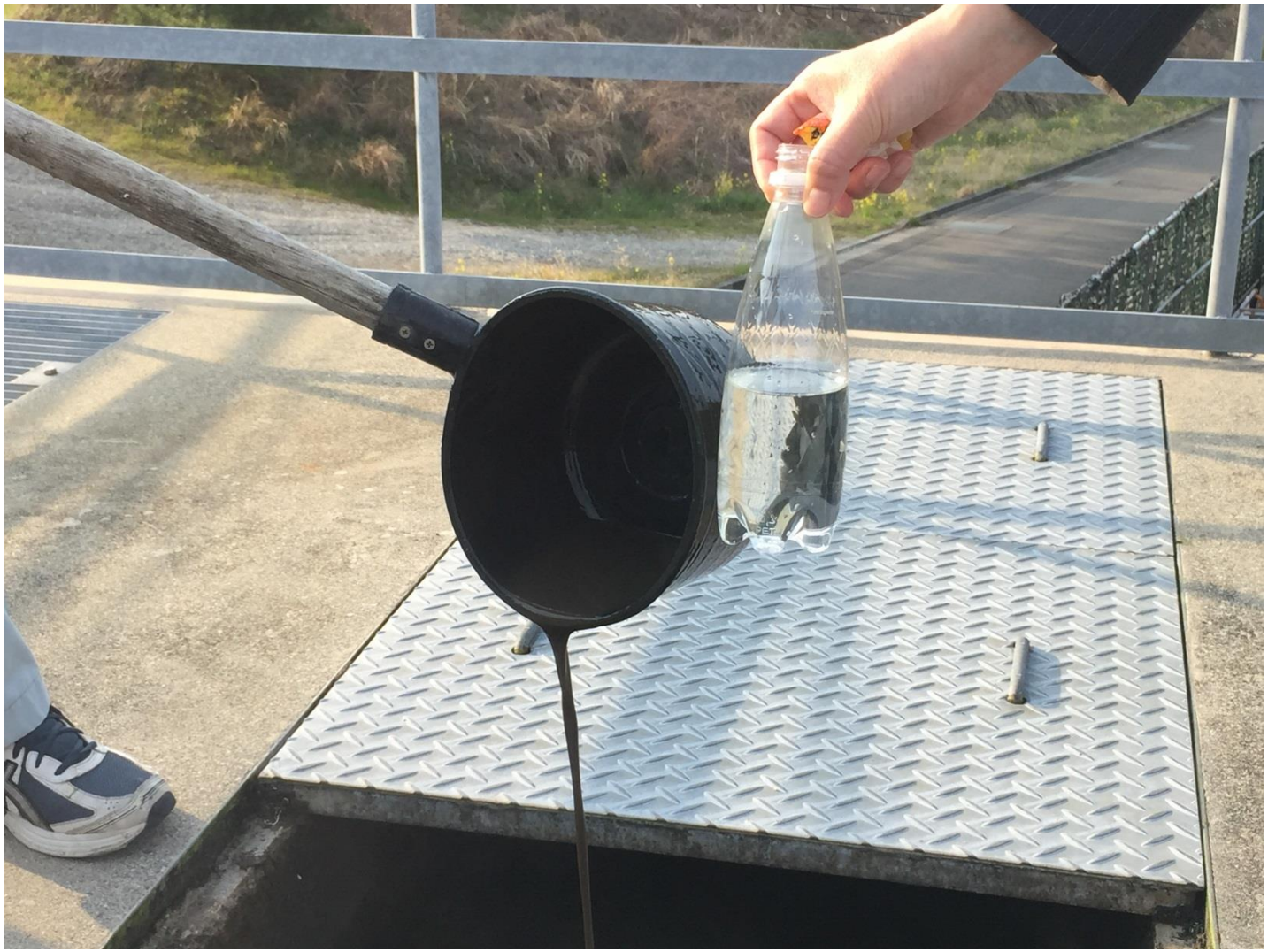
Kenya Project Example

Small scale Johkasou installation_1m3/day

Kenya Project Example

Training for Kenyan plumbers at installation site

Treated Water Quality



Thank you!!