



Introduction of Johkasou

Daiki Axis Co.,Ltd
23th August, 2023

■ Company profile

Daiki Axis Co., Ltd.

Date Founded: 12th July, 1958

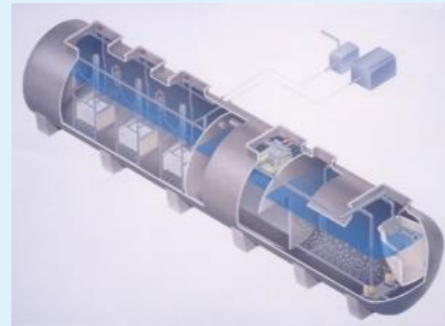
Employees: 1052 (December 31, 2022)

Environmental equipment segment

Johkasou



Industrial wastewater



Wastewater recycling



Groundwater drinkable system



① DEVELOPMENT



② DESIGN



③ MANUFACTURING



④ SALE



⑤ CONSTRUCTION



⑥ MAINTENANCE



■ Company profile – Johkasou factories in Japan

Matsuyama Factory



Fukushima Factory



Tsushima Factory



Shinshu Factory



■ Company profile – Factories in over sea

2015 INDONESIA FACTORY

2018 CHINA FACTORY

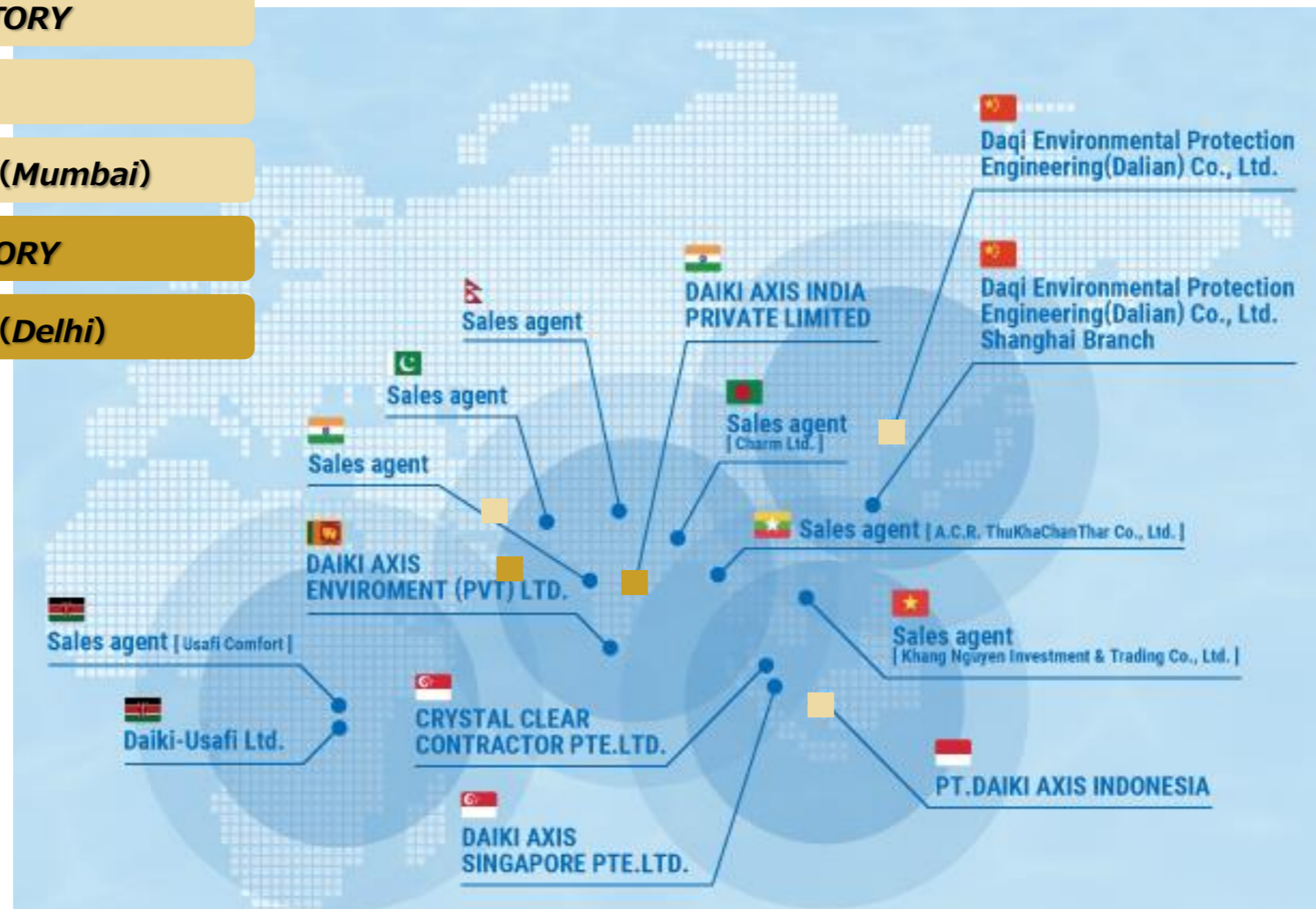
2019 INDIA FACTORY (Mumbai)

2022 SRI LANKA FACTORY

2022 INDIA FACTORY (Delhi)

Partners

India	23
Indonesia	1
Vietnam	1
Myanmar	1
Bangladesh	1
Nepal	1
Sri Lanka	1
Pakistan	1
Kennya	1



■ Company profile – Indonesia factory

Factory in Indonesia and Japan are using:

- Same production process
- Same production equipment



- Japan quality product
- Local cost



Cylindrical molding machine



Automatic opener



Automatic molding machine



External view



Interior of the factory



Employee at work

■ Daiki axis Johkasou



BAE-8 : Capsule type Johkasou



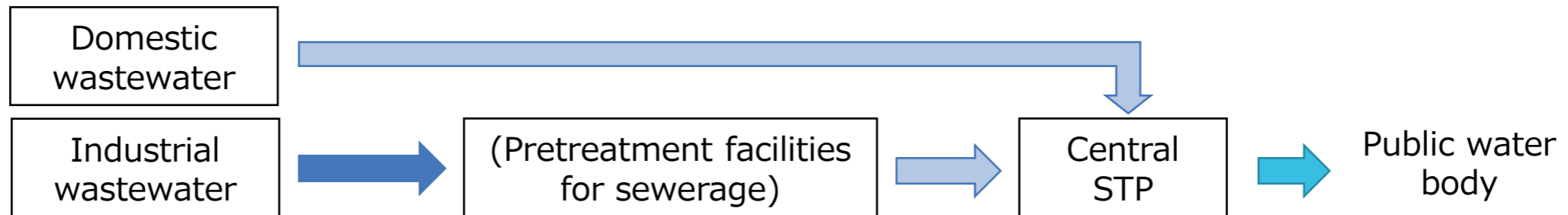
BAE-20 : Cylindrical type Johkasou



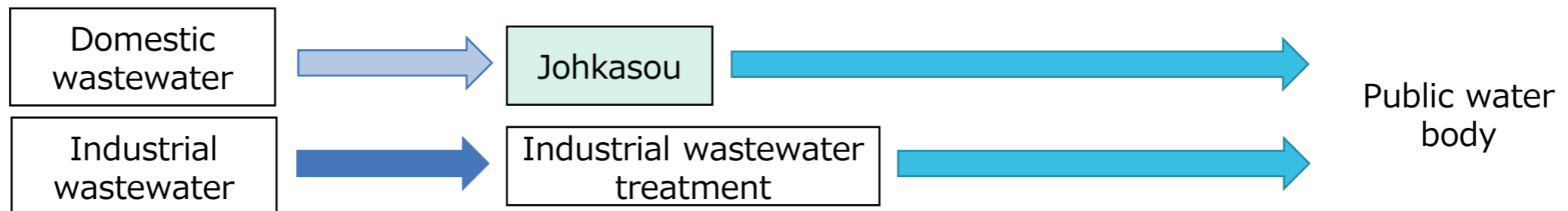
■ Overview of Johkasou (1/4)

Treated water of domestic wastewater and industrial wastewater must fit to each country or area **effluent standards** in order to effluent to public water body to keep clean environmenta in public water body.

【Sewerage area (Central STP)】



【Johkasou area (discharge to public water)】



■ Overview of Johkasou (2/4)

- ① Johkasou can treat the domestic wastewater (Black and Grey) to meet to effluent standards and effluent to public water body.
⇒ Johkasou's effluent water quality is lower than the sewerage wastewater effluent standard.



- ② Johkasou must be certified by the government.
⇒ Treatment performance, tank structure and products quality must be guaranteed by third party.

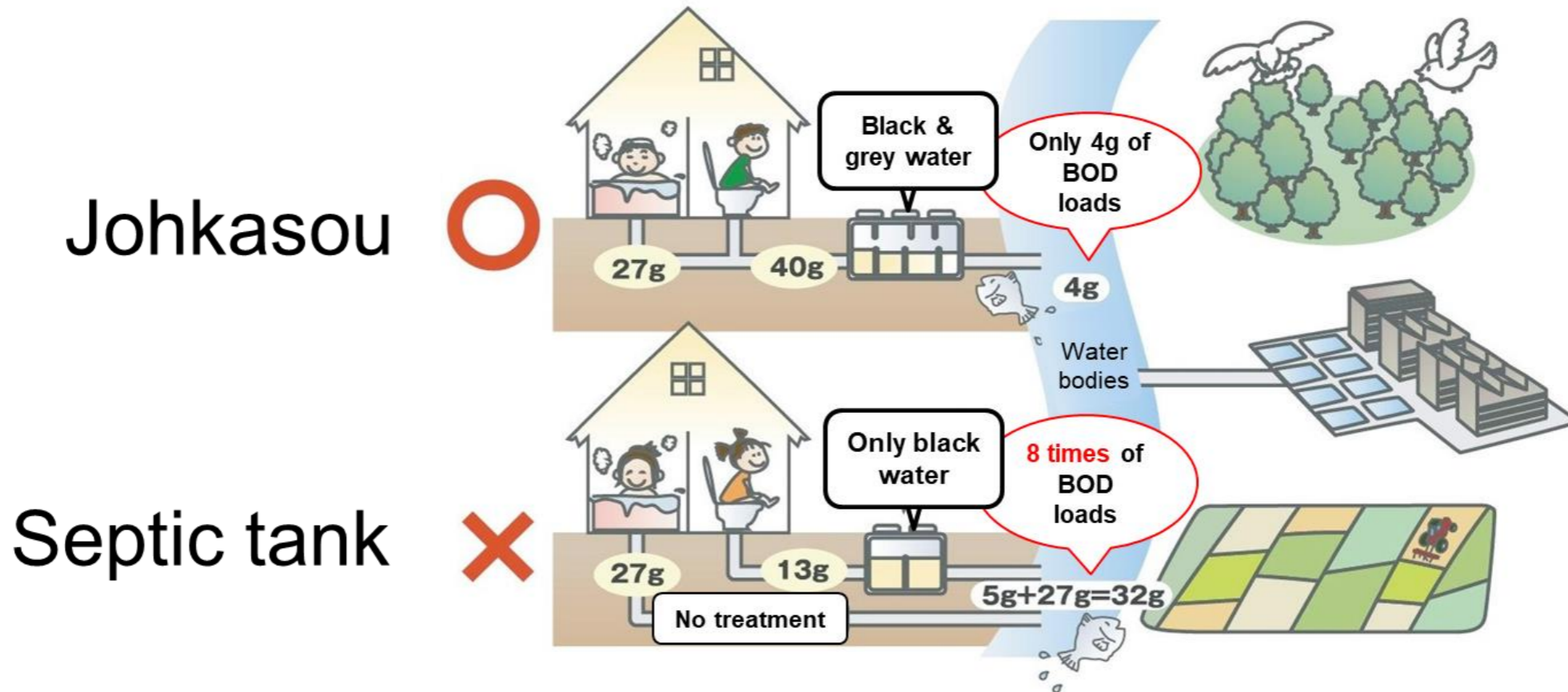
■ Overview of Johkasou (3/4)

Treatment of toilet wastewater only dose not keep clean the water body.

■ Water quality of domestic wastewater (Japan)

		Quantity	BOD	
			Load	Concentration
		L/person · day	g-BOD/person · day	mg/L
Toilet		50	13	260
Domestic non-fecal wastewater	Kitchen	30	18	600
	Landry	40	9	75
	Bath	50		
	Sink	20		
	Other	10		
Total		200	40	200

■ Overview of Johkasou (4/4)

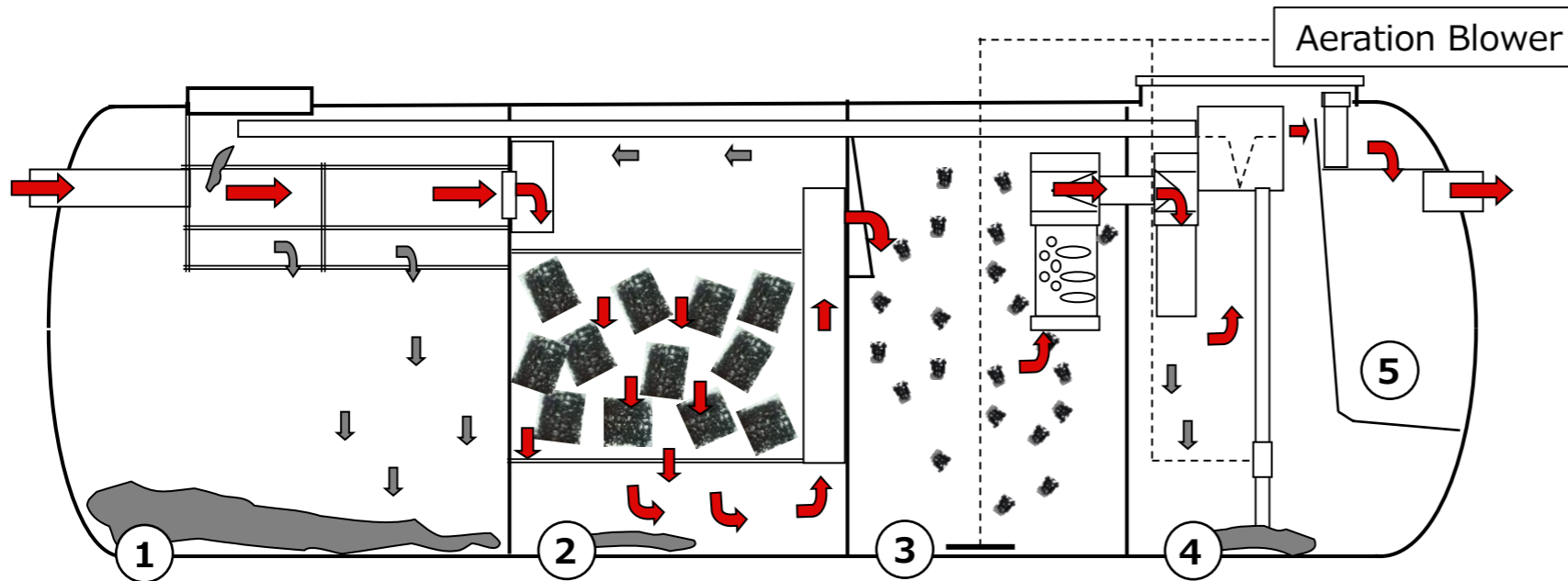


■ Features of Johkasou

- Made by FRP or PP : Corrosion resistance and Water leakage resistance is high(Waterproof)
- Same production quality
- High treatment performance: BOD removal rate more than 90%
- Short installation period
- Easy maintenance and no need the operator
- Low operation cost
- Treated water is easy to reuse
- Strong against earthquake
- Onsite treatment



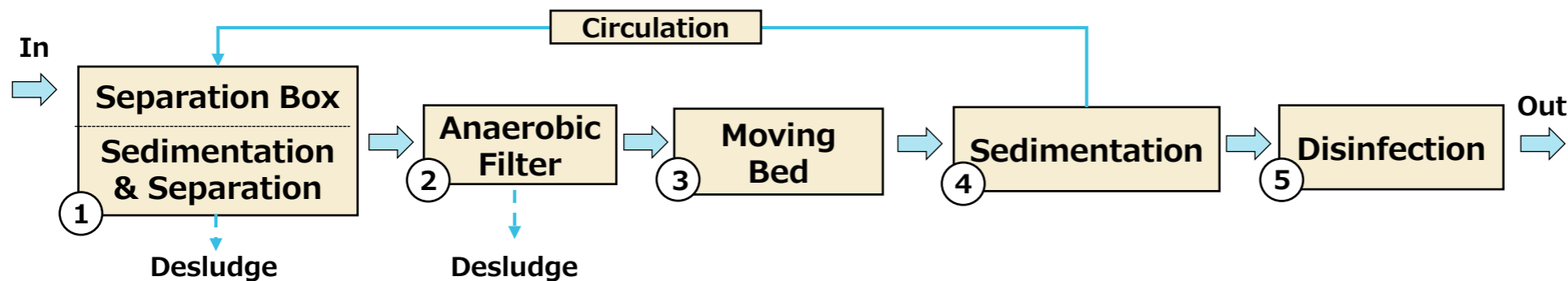
■ Inside image and flow



② Anaerobic media



① Moving bed media



■ Features of Johkasou (water quality)

The type of Johkasou can be selected according to area effluent standards.

Tertiary treatment can be added for more severe standards.

■ Water quality

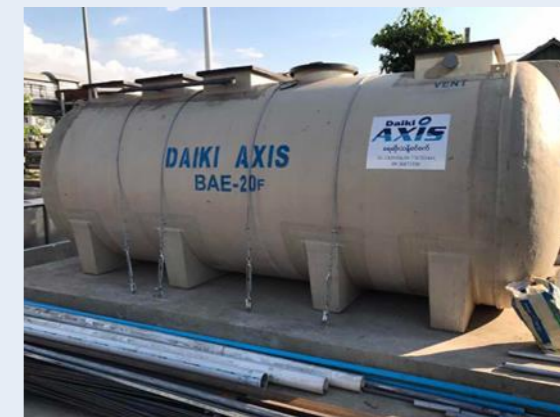
Item		Inlet	BAE	BJE	BJ α
BOD	mg/L	300	20	10	10
COD	mg/L	400	50	25	20
SS	mg/L	200	30	20	20
T-N	mg/L	50	45	20	10

■ Installation

Under ground installation



Above ground installation



■ Project References



■ Summary

Johkasou is onsite domestic wastewater treatment system developed in Japan

Daiki Axis is a water treatment company with **65** years experience in Japan

Johkasou can treat **BOD** of domestic wastewater down to 20mg/L, which is not a problem when discharged into natural water bodies

Daiki Axis has **nine Johkasou factories** around the world

We can provide any type of Johkasou, from inexpensive overseas-made Johkasou to fully compliant Japanese standard Johkasou

Please contact Daiki Axis if you have problems with domestic wastewater treatment!!!

