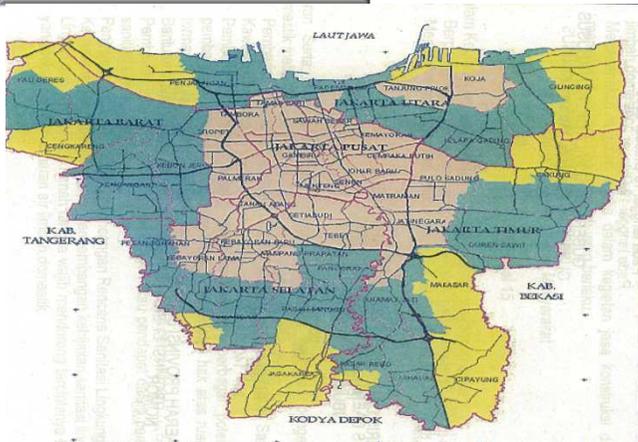


Operator・Cooperator

Kubota corporation
 Kubota Johkasou system Co., Ltd
 PD PALJAYA , etc.

Project location

Jakarta ,Indonesia



Business background

- Currently there is only one wastewater treatment plant (40,000m³/day) in Jakarta. It services 200,000 persons (2% of Jakarta population).
- "On-site treatment plant" will be popularized as community level facility in the future.
 Water quality treated by anaerobic system is bad. It does not fit to urban area, because it needs large space .
- "Septic tank "are applied in every family, half of those are of anaerobic treatment. Desludging is not executed properly and it makes the water quality so bad. It may cause ground water pollution.
- Because Commercial and residential areas are expanding, it is difficult to secure large space for the construction of large waste water treatment plant.

Need to resolve problems

- Rivers ' water quality is deteriorating due to the pollution of the waste water from septic tank and untreated domestic sewage. (About 40% of the surface water is polluted by fecal. It causes waterborne diseases.)
- Because of the traffic congestion, etc. It is difficult to lay sewer pipe in urban area. (The master plan established in 1990's for sewage system has not been executed yet.)
 ⇒ In order to improve the effluent quality, we suggest that on-site equipment should be also considered as below.

Project's outline

- We have installed Japanese Johkasou at apartments and houses, and monitor the situation of sludge, influent and effluent water quality, etc. as demonstration test.
 - Small Johkasou (2011 ~ 2012 executed)
 - Large Johkasou (2012 ~ 2013 going on)
 To collect the data to develop suitable Johkasou for Indonesia conditions with transferring maintenance technology in Indonesia .

Technology overview



	Influent	effluent	Rejection rate (%)
BOD	200 mg/L	20mg/L ≥	90% ≤
Nitrogen	45 mg/L	10mg/L ≥	77% ≤

Result

- We can modify Johkasou to fit for Indonesian conditions, and it can be applied to Indonesian market, which is expanding especially for commercial buildings, hospitals, hotels, apartments and etc. according to the market research and the field test carried out in this program.

Project's challenges and prospects

- Reducing manufacturing cost by local production and developing suitable Johkasou product for local market.
- Familiarizing the regulation of drainage operation, certification and subsidiaries systems.
- Starting the demonstration test and ensuring profit in the third year after establishment of Johkasou business in Indonesia.
- Promoting on-site treatment technology such as Jakarta Johkasou model project throughout Indonesia and the other Asian countries which have been facing the similar pollution problem.