

## Toshiba Infrastructure Systems & Solutions Corporation

### Summary of technology / advantages

- Offers one stop solutions throughout the plant's life cycle.
- Offers wastewater treatment systems based on a proven record of deliveries to various industrial fields as well as municipal fields.
- Conduct engineering business according to the local situation and regional characteristics.

### EPC Engineering, Procurement and Construction



Water Treatment  
for Municipality



Sewage Treatment  
for Municipality



Water and Wastewater  
Treatment  
for Industrial Parks



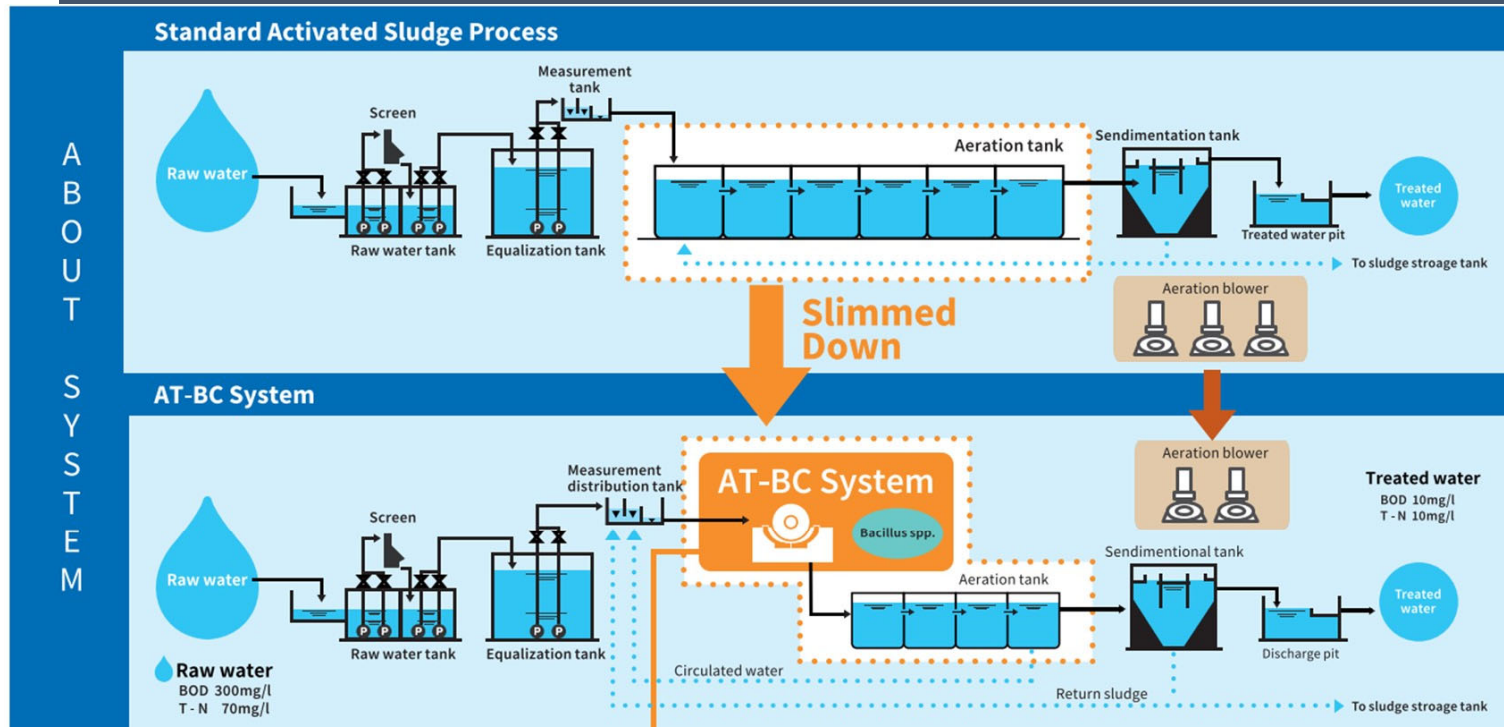
Water and Wastewater  
Treatment  
for Oil and Gas Plants



Water and Wastewater  
Treatment  
for Factories

# Rotating Bacillus Contactor Process

Toshiba Infrastructure Systems & Solutions Corporation



## Summary of technology

- High density active Bacillus (aerobic bacterium) with rotary device
- Remove nitrogen, no bad odor and reduction of excess sludge

AT-BC System(\*1)



AT-BC system



Contractor in the rotary device

## Technology features / advantages

- Energy saving: 30-50% reduction of power consumption
- Less excess sludge: 30% reduction of excess sludge
- Small foot-print: 20-30% reduction of aeration tank capacity
- Deodorizing effect: Absorption and dissolving odorous substances by Bacillus
- Long-life design: Design for 10 years life expectancy
- Recycling of treated excess sludge: Inhibit of plant pathogens by bacillus-dominated soil improvement material.