Bio Wastewater Treatment Equipment "BIOALSI™"

Japan ALSi Co., Ltd. (Komono-cho, Mie pref)

Outline

- Development of BIOALSI, an internal circulation type anaerobic-aerobic biological treatment equipment with high performance and efficiency for treating a high concentration of wastewater.
- •No need of a sludge dewatering equipment become possible in treatment of wastewater because of no generation of excess sludge.
- · Unmanned automatic operation become possible in treatment of wastewater.

Characteristics

- 1. Space saving and energy saving by use of an integrated anaerobic-aerobic sedimentation system.
- 2. A high treatment rate results in significant reduction of the amount of waste generated with no formation of excess sludge.
 - BOD removal capacity is 3-10 times greater than the conventional activated sludge treatment process.
 - •The amount of CO₂ formed is low because of biological treatment of wastewater.
 - Water processed by BIOALSI consistently keeps the quality not only to be discharged into rivers but also to be recycled.
- 3. Can be used for treatment of a high concentration of waste fluid
 - Anaerobic and aerobic treatment are alternately repeated for treating a high concentration of waste fluid such as water-soluble metal cutting oil and mold release agents.



Introduction Examples

• Automobile manufacturers in Japan and overseas, industrial machinery manufacturers, food processing plants. Wastewater from emulsifier manufacture plant : chemical company and toiletry manufacturing company Wastewater from meat processing plant : meat production company

Wastewater from edible oil making plant : chocolate manufacturer and margarine manufacturer Wastewater in metal cutting : automobile manufacturer/wastewater related to mold release agent : auto parts

manufacturer :



Effects



Technical Development

- Patented in US, European countries, China, and Korea.
- No generation of dewatered sludge cake (0 ton/year) for last 10 years at waste water treatment facilities where 1,100 tons of the dewatered sludge cake were annually generated.
- · Establishment of the technology on unmanned automatic operation and remote monitoring control system.

Measures for market development

- Establishment of NIPPONALSI Thailand, Ltd. in Thailand, September 2011 and installation of BIOALSI in Japanese auto parts manufacture plant, which is under test.
- From 2013, very active in marketing and sales of not only the wastewater treatment equipment but also ALSI FLOC N100TR, an organic polymer coagulant for wastewater treatment. Promoting overseas expansion as the comprehensive manufacturer of water treatment in Asia starting with Thailand.

Company Outline

Representative : Representative Director Kiyoharu Fujino Capital : 80 million yen, Number of employees : 30 Major products : Designing, manufacture, and installation of wastewater treatment facilities URL : http:// www.japan-alsi.co.jp/

Contact information

General Affairs Dept./Sales of Wastewater Treatment and Technology Div.: Fusaka Fujino Address : 1270, Yahachi, Takenari, Komono-cho, Mie-gun, Mie TEL : +81-59-399-2626 E-mail : soumu@japan-alsi.co.jp