



# Reducing the Environmental Impact of Business Activities

## Reducing the Environmental Impact at Overseas Group Sites

### Thailand

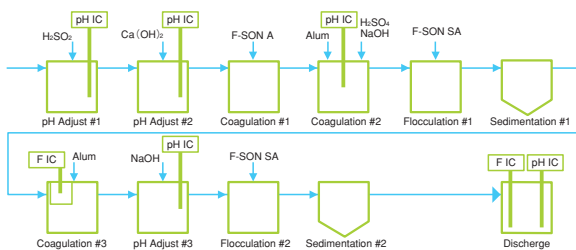
#### Introduction of a Highly Efficient System to Treat Fluorine Ions in Waste Water

At Oki (Thailand) Co., Ltd., the introduction of lead-free solder plating equipment is advancing to reduce the impact of products on the environment. However, the waste water of lead-free soldering equipment contains large quantities of fluorine ions, and with conventional equipment, the treatment of fluorine ions was difficult.

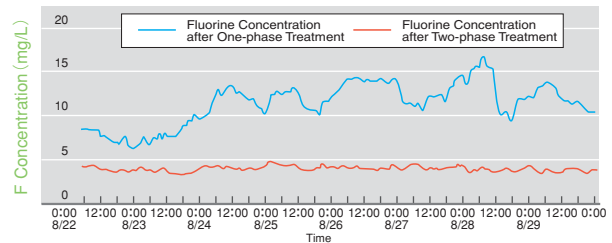
This is why we built a 2-phase flocculation system using a

flocculation agent specifically able to treat fluorine ions.

With one-phase flocculation, the concentration after the treatment had changed depending on the concentration in the untreated waste water, but the fluorine ion concentration after the two-phase flocculation treatment with the new system sufficiently satisfies the limit of 5 mg/L as imposed by waste water regulations.



#### Transition in Fluorine Concentrations in One-phase and Two-phase Treatment



#### Construction of Recycling-based Waste Water Treatment System

Oki Data Corporation built a recycling-based waste water treatment system at Oki Data Manufacturing (Thailand) Co., Ltd., which is its production site in Thailand. The system treats the waste water generated at the plant. Before, the monthly 12,000 tons of waste water was treated to the appropriate level using on-premise membrane treatment equipment and then sent to the waste water treatment facility of the industry complex. However, a growing number of employees and an increase in the use of oil in the canteen, etc. led to the need to add membrane treatment equipment in the plant. Due to

these circumstances, we introduced waste water treatment equipment with a treatment capacity that is six times larger than that of the old equipment and succeeded in improving the water quality to a level that allows the reuse of waste water at the plant. And this means that we realized a recycling-based waste water treatment system for reuse at the plant without using the waste water treatment facility of the industrial complex. The system treats 12,000 tons of waste water per month and allows the reuse of 2,000 tons at the plant, with a prospective cost-cutting effect of 1.7 million yen per year.



### China

COGT (Changzhou OKI-OEG Telecoms Ltd.), which manufactures telecommunications equipment in China, produced excellent results in energy-conservation activities, 3R activities, compliance with environment-related laws and regulations, environmental education and others, and even received an award from Changzhou city as a Model Company for Environmental Conservation.

