

## Announcement of Establishment of Cadmium Removal System in Industrial Wastewater

Oji Holdings Corporation (hereinafter "Oji") has developed an efficient cadmium removal system for industrial wastewater\*1 and put this system into practical application\*2.

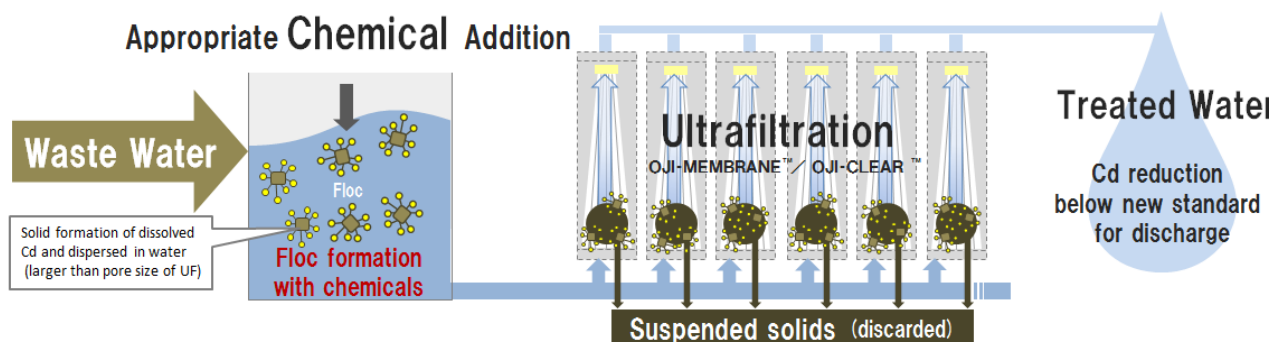
Since the regulation of cadmium in the Water Pollution Control Law in Japan has recently been strengthened\*3, development of a system that ensures to remove cadmium from wastewater containing various components has been required.

Oji succeeded in developing this system using our own chemical treatment technology and the ultrafiltration membrane\*4 of our products. Although it is a compact facility, it ensures to reduce the cadmium concentration in wastewater to below the new standard value.

Oji will continue to aim to expand the use of this system and be engaged in proposing the innovative water treatment technologies that meet the needs of society and customers.

### ■ How this system works

The dissolved cadmium in the wastewater is chemically treated to form suspensions (solid particles), followed by removal with our own ultrafiltration membrane.



### ■ Features of this system

Compared with other systems such as dissolved air floatation and adsorption, this system has the following advantages:

(1) Cd can reliably be removed.

Using our ultrafiltration membrane with a pore size of 0.02  $\mu$ m, it complies with the strict new effluent standard.

(2) Energy and cost saving

Treatment with minimal chemical costs can be carried out.  
In addition, this is an energy saving system with low electric power cost because of using the highly efficient membrane filtration system.

(3) Space saving

The installation space is small due to the efficient and simple treatment flow with compact pretreatment tank and separator.

Ultrafiltration facility for removal of chemically formed floc of cadmium.



\*1: Patent No. 6015841

\*2: Oji Group has already delivered the developed cadmium-removing system to Monbetsu Fishery Cooperative Association and has confirmed that cadmium has stably been removed to or less than the new standard value.

\*3: As a part of revisions to the Enforcement Regulations of the Water Pollution Control Law in December 2014, etc., the wastewater standard for cadmium has been strengthened from 0.1 mg/L to 0.03 mg/L

\*4: Product Name: OJI-MEMBRANE™ · OJI-CLEAR™

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