

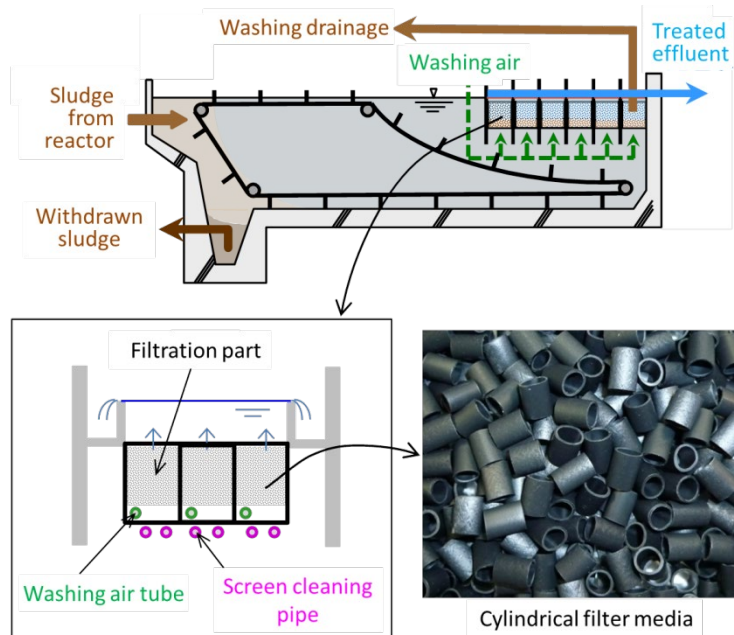
# Demonstration of Treatment Performance Improvement Technology for Final Settling Tanks

Implementer: The consortium of METAWATER Co., Ltd., JS, and Matsumoto City

Final settling tank containing filtration part improves treatment performance **quantitatively** and **qualitatively**

## Technology Overview

- ① A filtration part in the downstream of the final settling tank : improves treatment performance
- ② Cylindrical filter media with a small pressure loss : enables operation with the conventional water level differences
- ③ Prefabricated filtration part : enables reducing on-site works and great time shortening of water flow stopping



The upper part of filtration area

## Benefits

- No expansion of the final settling tank is required : solve the problem of the shortage of treatment capability caused by merging of WWTPs
- No rapid filtration facilities are required

## Achievements

### Quantitative improvement

- Increase the **treatment quantity twice** as the conventional process while having the equivalent water quality
- Reduce the construction cost **by 58%** compared to the extension of final settling tank

### Qualitative improvement

- Achieve **BOD  $\leq$  10mg/L** and **equivalent water quality** to that of the **rapid filtration process**
- Reduce the construction cost by **71%** compared to the new construction of rapid filtration facilities