

Municipal Potable Water

Mahasawat Water Treatment Plant Bangkok, Thailand

How we created value

- Innovative design combines flash mixing (flocculation) and settlement in a single tank for efficiency
- Variable inflow to suit all influent conditions
- No sludge retention or blockage ensures optimum efficiencies
- Flexible design to suit individual requirements
- Unit efficiencies reduce operating costs
- Due to its high efficiency, the end user has significantly reduced their chemical consumption and associated costs



Brief

Bangkok's continuing drinking water supply shortage has meant that the authorities there needed to seek resolutions to their water supply problems, and so a wide ranging contract was put into effect to meet the identified requirements. Under that contract, the Bangkok authorities placed orders with our competition for the first two phases of the project. However, the client recognized that an Ovivo system was needed in order to assure the final quality of the drinking water supply.

Solution

To assure the quality of the drinking water supply, an order to put in for the delivery, installation and commissioning of two 63m diameter Eimco® Reactor Clarifier™ Solids-Contact units to at the Metropolitan Water Authority's Mahasawat water treatment plant near Bangkok. These were the largest units installed up to that time, necessary because this treatment works constitutes a large-scale drinking water plant serving the city.

Designed and built to provide the most economical solution to precipitation and clarification requirements, the installed Reactor-Clarifiers were able to save considerable amounts of chemicals, compared to competitors' design, thus end user.

Outcome

On start-up the Reactor Clarifier™ Solids-Contact units immediately produced the required treated water quality which was then added into the Bangkok municipal system to ease the drinking water supply shortage.

Since switch-on of the new plant, it has continued to operate trouble-free and within its operational parameters.

Flow rate	> 8,000m ³ /hr
Total capacity of the plant	1,260,000m ³ /day

www.ovivowater.com

© Copyright 2010 GLV. All rights reserved.

092010