

Ushio Consultants Co., Ltd.

Planning, Survey and Design for Waterworks

- **With the hands-on approach as our basic policy, we propose water use plans that best fit each condition.**

Features

- We support maintenance and renewal planning of waterworks facilities while carefully considering the financial condition of each client.
- We support functional diagnosis and renewal planning of deteriorated facilities related to the waterworks system in general.
- We support seismic diagnosis and seismic retrofit planning and formulation of risk control manuals related to the waterworks system in general.
- We provide technical support to clients' efforts to eliminate areas uncovered by water supply systems.
- Other operations include prediction of water demands, planning of appropriate water pricing, and management planning.

Overview (Technical principles, actions, etc.)

In Japan, water demands are decreasing due to various factors including a decreasing population, diffusion of water-saving equipment, and the economic depression. Many waterworks facilities, which are a social infrastructure mainly established in the period of rapid economic growth, have shown signs of deterioration and are facing a time of renewal although water utilities expect no increase in income from water charges.

Those waterworks facilities are urgently required to undergo refurbishment both in structural and non-structural aspects in order to maintain their functions as the minimum lifeline in an emergency situation, needless to say in a peace time. It is time the water utilities worked together with water users to reconsider what is necessary to ensure stable and sustainable supply of water and steadily set appropriate measures into action.

As a technical consultant to help ensure safe, secure and stable water supply operations in this nation known as a disaster-prone country, we have gained trust from our clients through our long experience as a reliable consultant and are therefore sure of our capability, coupled with rich technical expertise, to provide solutions to water-related problems in any area.

We will be grateful if we are awarded contracts to help improve every kind of waterworks-related issues.



Introductory Track Record

- Preparation of an application for water use permit, Water Bureau, Nara Prefectural Government, Japan, 2011
- Survey on waterworks damage by the Great East Japan Earthquake, the Calamity Science Institute, Japan, 2011
- Survey on pipeline damage by the Great East Japan Earthquake, Construction Engineering Research Institute Foundation, Japan, 2011
- Execution design of water source ultraviolet treatment facility, etc., Ono City, Hyogo prefecture, Japan, 2010
- Survey on water treatment plant filtered water quality, Water Department, Osaka Prefectural Government, Japan, 2010
- Development and design of water treatment plant water channels, Wakayama City, Wakayama prefecture, Japan, 2010
- Formulation of waterworks risk management manual, Tanabe City, Wakayama prefecture, Japan, 2010
- Review of risk management plan, Water Department, Osaka Prefectural Government, Japan, 2009
- Review of water demand, etc., Water Bureau, Nara Prefectural Government, Japan, 2009
- Preliminary survey on seismic resistance of waterworks facilities, Kakogawa City, Hyogo prefecture, Japan, 2009
- Formulation of waterworks business integration and development plan including asset evaluation, Shimoichi Town, Nara prefecture, Japan, 2008
- Water treatment plant seismic diagnosis (RC, 10,000 t), Water Department, Osaka Prefectural Government, Japan, 2008
- Distribution reservoir seismic diagnosis (PC, 3,000 t), Ikaruga Town, Nara prefecture, Japan, 2007
- Execution design of small water system expansion, Nachikatsuura Town, Wakayama prefecture, Japan, 2007
- Survey on water treatment plant development including basic design, membrane filtration (14,740 t), Kushimoto Town, Wakayama prefecture, Japan, 2006
- Execution design for waterworks development, membrane filtration, 3,000 t, Kubokawa Town, Kochi prefecture, Japan, 2003
- Technical guidance on ITF (NR) Beiji waterworks facility, Chiyoda Corp., Iraq
- Technical guidance on the steelworks wastewater treatment facility, Companhia Siderurgica de Tubarao, Vitoria, Kawasaki Steel Corp., Brazil
- Machine layout planning for Chinese paper core factory project, Nippon Paper Core Industrial Co., Ltd., China
- Machine layout design for Shanghai Baoshan Iron & Steel, Hitachi Zosen Corp., China
- Formulation of basic plan for industrial waste treatment, Cavite Export Processing Zone, Manila, Overseas Economic Assistance Fund, the Philippines

Message

Water and waterworks are directly connected to the life of citizens. They are lifelines of greatest class importance because citizens' life can be in danger if not for them. This fact has been greatly emphasized by the Great East Japan Earthquake or Typhoon No. 12; the importance of water supply is again recognized anew.

What should be given top priority to protect life and living of people. It is quite apparent when we look at developing countries and regions, where waterworks are the first to be developed.

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