

(5) Mandalay City in Myanmar

--- Water utility field

In response to the request from Mandalay City, we started the technical cooperation in December 2013, aiming at improving the water purification facilities (sterilization facilities) to secure stable supply of safe water, as well as assisting the appropriate operation, maintenance and management of the water purification plants and improving the water quality analysis technology.

Utilized project: JICA Partnership Program

(6) Additional information

We implemented training organized by the Japan International Cooperation Agency (JICA), etc., upon the request of the training implementation agencies (Kitakyushu International Techno-cooperative Association (KITA), etc.)

Dispatch of personnel and the acceptance of trainees

(As of the end of March, 2019)

	Dispatch of personnel to foreign countries		Acceptance of trainees from foreign countries	
	Total number of personnel	Number of countries	Total number of trainees	Number of countries and areas
Water utility	140	7	1,688	128
Sewer system	59	10	4,514	136

2 | Overseas water business

Along with the increasing population and the urbanization in Asian countries, overseas water business is expected to expand into an 87 trillion yen market by 2025, which is regarded as one of the pillars of the national government's "Japan Revival Strategy" and the "Kitakyushu City New Growth Strategy."

By utilizing the strengths we have developed through international technical cooperation and networking with several cities in Asia, we are engaged in overseas water business and international contributions by making concerted efforts in cooperation with government organizations and private entities centered on Kitakyushu Overseas Water Business Association.

Major activities

(1) Establishment of "Kitakyushu Overseas Water Business Association"

In August, 2010, the "Kitakyushu Overseas Water Business Association (hereinafter referred to as the Association)" was founded by a wide range of entities, including enterprises in various industrial fields (57 companies at the time of initial establishment), academic experts, and ministries and organizations of the national government, which made us prepare Japan's first organization for promoting overseas water business through the cooperation of the government and private sector.

The Association has set the target for water business in the Kingdom of Cambodia, Hai Phong City in Vietnam, Dalian City in China, and Indonesia, each of which has a strong human network which has been cultivated through previous technical cooperation. And they have been carrying out the activities to work out specific orders with concerted efforts, sharing information between participating enterprises and related organizations, while considering effective methods of overseas business development.

Organization of "Kitakyushu Overseas Water Business Association"

(As of September 1, 2019)

Kitakyushu Overseas Water Business Association

Chairman Noriaki Kiyota
(Vice President, Kitakyushu Chamber of Commerce and Industry)

Deputy Chairman Hitoshi Arita
(President and Representative Director, Kitakyushu Water Service, Co. Ltd.)

Member Yuya Sato
(Associate professor, Institute of Water Cycle System, Waseda University)

* "Kitakyushu Overseas Water Business Association" is positioned as one of the members of the "Water Business Promotion Society" established in the Kitakyushu Asian Center for Low Carbon Society.

Private enterprises (150 companies)

- Enterprises in Kitakyushu City (83 companies)
- Enterprises outside Kitakyushu City (67 companies)

Related organization (9 organizations)

- Kitakyushu Chamber of Commerce and Industry
- Japan Bank for International Cooperation (JBIC)
- Japan Water Works Association
- Japan Global Center for Urban Sanitation
- Kitakyushu Asian Center for Low Carbon Society
- JICA Kyushu
- Development Bank of Japan Inc.
- Organization for Small & Medium Enterprises and Regional Innovation, JAPAN, Kyushu Headquarters
- Japan External Trade Organization (JETRO)

Academic expert (5 professors)

- Tetsuya Kusuda, Professor Emeritus of Kyushu University
- Katsumi Moriyama, Professor Emeritus, Kyushu Kyoritsu University
- Sam Tabuchi, Professor, Graduate School of Toyo University
- Hidenari Yasui, Professor, The University of Kitakyushu
- Yuya Sato, associate professor, Institute of Water Cycle System, Waseda University

Related Bureaus of Kitakyushu City (4 bureaus)

- Planning and Coordination Bureau
- Environment Bureau
- Industry and Economics Bureau
- Water and Sewer Bureau

Observer (6 organizations)

- Ministry of International Affairs and Communications
- Ministry of Health, Labour and Welfare
- Ministry of Economy, Trade and Industry
- Ministry of Land, Infrastructure, Transport and Tourism
- Japan Sewerage Works Agency
- Japan Institute of Wastewater Engineering and Technology

Secretariat • Kitakyushu Water Service Co., Ltd.

(2) Dispatch of missions

As the first specific activity of the Association, we dispatched a mission to Hai Phong City in Vietnam in November, 2010.

In April, 2011, we dispatched a mission to Dalian City, upon the request from the municipal government of Dalian City, China, and held "Kitakyushu City water business seminar" and "exhibition and business meetings".

(3) PR activities

The Association exhibited a booth in "VIETWATER 2013" (October 2013), and further participated in the exhibition and business talks at the water business seminar held in Phnom Penh City, Kingdom of Cambodia to advertise the technologies of the member enterprises toward the world.

Additionally, in December 2018, Kitakyushu City held "Seminar on Water and Sewer Works Cambodia-Japan" together with the Ministry of Health Labour and Welfare and the Ministry of Land, Infrastructure, Transport and Tourism. With the 20th anniversary of exchange of water works technology, we held a discussion meeting on improvement in the management of private water utilities. We also held a conference on the improvement of sewage treatment and technical cooperation program in the future and a meeting on the introduction of technologies and products of member enterprises of the Association.

Exhibition and business meeting at Water Business Seminar in Phnom Penh City

(4) Achievements so far

Results have been gradually achieved through concerted efforts by the government and private sector.

[Major orders we received from Kingdom of Cambodia]

- Mar. 2011: Project for supplementing the basic design for constructing a water purification plant in Siem Reap City
- Dec. 2011: We concluded a memorandum on the project for technical consultation relating to the formulation of the master plan on waterworks (over the next 4 years) in 9 major cities with the Ministry of Mining, Industry and Energy of Cambodia
- Jan. 2012: Basic research relating to the plans of waterworks and sewer pipes in Kampot City and Kep City
- May 2012: Preparatory research for developing waterworks in Battambang City and Kampong Chan City
- Feb. 2013: Project for planning sewage systems in Siem Reap City
- Jun. 2013: Project for improvement of main water supply network in Sen Monorom City
- Jul. 2013: Project for supporting the feasibility of the JCM project in Phnom Penh
- Aug. 2013: Project for expanding waterworks in Kampong Chan City and Battambang City
- Oct. 2013: Assistance for sewer system trainings in Japan for Cambodians
- May 2014: Preparatory research for planning the expansion and development of local waterworks in Kampot and Sihanoukville
- May 2014: Project for energy saving by raising the efficiency of water purification plant equipment in the Phnom Penh Water Supply Authority, Cambodia (JCM project planning research)
- Aug. 2014: Project for improvement of urban sewage and drainage systems in Phnom Penh
- Jun. 2015: Ministry of Economy, Trade and Industry FY2015 project for infrastructure systems overseas development promotion survey etc.
- Sep. 2015: Detail design for the project for expanding waterworks facilities in Kampot City
- Dec. 2015: Detail design for the water supply network expansion project in Siem Reap City
- Jan. 2016: Conclusion of a memorandum concerning activities for sustainable development of waterworks in the Kingdom of Cambodia
- Mar. 2016: Project for improvement of main water supply network in Sen Monorom City
- Apr. 2016: Construction work in Kampot City water supply network improvement project
- Feb. 2017: Conclusion of a "memorandum concerning the technical cooperation and exchange" with Phnom Penh
- May 2017: Preparation and investigation for main water supply network expansion and improvement plan in Pursat Town and Svay Rien Town
- Oct. 2017: Collection of information and investigation for confirmation about main water supply sector in Phnom Penh Capital City
- Apr. 2018: Preparation and investigation for sewage treatment plant improvement plan in Phnom Penh Capital City

- Dec. 2018: Project for expansion of main water supply network (expansion of water distribution network) in Siem Reap City
- Mar. 2019: Project for expansion of main water supply network in Kampong Thom City

[Major orders received from Vietnam]

- Oct. 2011: Conclusion of a memorandum concerning water and sewage development with Hai Phong City
- We agreed to provide technical advice for water distribution block system to be introduced in 5 years
- Nov. 2011: PPP initial research project by the Ministry of Health, Labor and Welfare
- Feb. 2012: Project for developing human resources for the sewer system in Hai Phong City
- May 2013: A member enterprise (local corporation) of the Association received an order for U-BCF Development Project in Hai Phong City
- May 2013: We concluded an agreement for mutual cooperation for the "Diffusion of U-BCF with Hi Phong City Waterworks Public Corporation in Vietnam."
- Dec. 2013: U-BCF was completed in Bingbao Water Purification Plant
- Dec. 2013: Information gathering and investigation about local water service sectors in Vietnam
- Jun. 2014: Digging up and embodying of a project for public-private cooperation type overseas water business in water supply field in Ilo Chi Minh City
- Jul. 2014: Preparatory research for the upgrade plan of the An Duong Water Purification Plant in Hai Phong City
- Mar. 2015: Project for reconstructing the mapping system of Hai Phong City Waterworks Public Corporation
- Feb. 2016: Demonstration experiments of U-BCF in 6 local cities (Small and medium-sized enterprises overseas development support project)
- Jul. 2016: Detail design for the upgrade plan of the An Duong Water Purification Plant in Hai Phong City
- Feb. 2017: Project of Preparing Sewage facility Information Management System in Hai Phong City
- Aug. 2018: A plan of upgrading the An Duong Water Purification Plant in Hai Phong City

[Major orders received from Indonesia]

- Nov. 2012: We received an order for planning a sewer system development in Surabaya City from the Ministry of Land, Infrastructure, Transport and Tourism (in collaboration with the member enterprises of the Association)
- Jun. 2013: We cooperated in technical assistance for developing a low-carbon city plan in Surabaya City (JCM project)
- Feb. 2014: Complementary research for a sewer system development project in the Special Capital Region of Jakarta
- Sep. 2014: Project for assisting sewer system trainings for Indonesians
- Apr. 2016: Implementation of training in Japan related to the project for capacity development of drawing up plans concerning sewer system development in the Special Capital Region of Jakarta