

Name of Organization	<b>Bureau of Waterworks, Tokyo Metropolitan Government</b>
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Name of Activity	JICA Partnership Program "NRW (Non-Revenue Water) Reduction Technology Training and Capacity Building Project in Malaysia"
Implementation Period	2014-2016
Main Organizer	JICA, Tokyo Waterworks, TSS Tokyo Water Co.,Ltd
Outline and Objectives	<p>A training project conducted in Malaysia, which faces a challenge of reducing the high level of NRW (Non-Revenue Water), to establish a system to train experts in NRW reduction, who will then pass on the practical know-how to the trainees selected from water supply utilities across Malaysia. In September 2014, a training field was constructed in Penang State. The project provides training in Malaysia and Japan, and Tokyo Waterworks regularly accepts visiting trainees.</p> <p>FY2015 : Training in Japan (7-10 April 2015, From 28 September through 1 october)</p>
Target (Cooperator) Countries	Malaysia Ministry of Energy, Green Technology and Water PBAPP

Photos



Name of Organization	<b>Bureau of Waterworks, Tokyo Metropolitan Government</b>
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Name of Activity	JICA Technical Cooperation Projects "The Project for Improvement of Water Supply Management of YCDC"
Implementation Period	2015-2020
Main Organizer	JICA, Tokyo Waterworks, Fukuoka City Waterworks Bureau, TSS Tokyo Water Co.,Ltd, Public Utility Services Center Co.,Ltd
Outline and Objectives	<p>In Yangon, while construction of waterworks facilities utilizing yen loans is underway, JICA is also conducting a technical cooperation project associated with a yen loan project, to strength the organizational capacity of Yangon City Development Committee in parallel with the facility construction for securing sustainable water supply service. Tokyo Waterworks and Fukuoka City's Waterworks Bureau conduct seminars and training in Yangon and Japan.</p> <p>FY2015 : Dispatch of Lecture (24-30 January)</p>
Target (Cooperator) Countries	Myanmar Yangon City Development Committee

Photos



Name of Organization	<b>Bureau of Waterworks, Tokyo Metropolitan Government</b>
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Name of Activity	JICA Country Focused Training Course "Water Quality Management"
Implementation Period	18-29 January 2016
Main Organizer	JICA
Outline and Objectives	<p>This training was implemented in Japan over 3 years from FY 2013 to FY 2015. Training in the sewerage field was implemented at the Ministry of Land, Infrastructure, Transport and Tourism in FY 2013; in the following fiscal year, Tokyo Waterworks implemented training in waterworks in general including leakage prevention and water quality management.</p> <p>In FY 2015, about water quality management and water quality inspection as the main theme, Tokyo Waterworks provided lectures, study tours, exercises and opportunities for an exchange of opinions with staff members.</p> <p>Main programs of the training course are as follows;</p> <ul style="list-style-type: none"> <li>·Lecture on water quality management and water quality inspection (e.g. water quality inspection plans, response to quality problems in water sources and tap water, biological/microbiological tests).</li> <li>·Study tours at the Water Quality Management Center, the Training and Technical Development Center, purification plants, etc.</li> <li>·Lecture provided by the Ministry of Health, Labour and Welfare.</li> <li>·Explanation and demonstration of water quality inspection equipment provided by a private company.</li> </ul>
Target (Cooperator) Countries	Republic of South Africa (20 participants)

Photos



Name of Organization	<b>Bureau of Waterworks, Tokyo Metropolitan Government</b>
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Name of Activity	JICA Knowledge Co-Creation program (Group & Region Focus) "Non-Revenue Water Management (Leakage Control)"
Implementation Period	From 30 November through 18 December 2015
Main Organizer	JICA
Outline and Objectives	<p>In Myanmar, there are few engineers with practical skills and knowledge of NRW management and it is therefore imperative to train such engineers. JICA provides training to acquire knowledge and skills concerning NRW management such as leakage prevention for engineers engaged in water supply construction works.</p> <p>Main programs of the training course are as follows;</p> <ul style="list-style-type: none"> <li>•Lecture on leakage prevention measures (e.g. leakage prevention measures in Tokyo, NRW reduction equipment, activities of Waterworks Emergency Services Unit, etc.)</li> <li>•Study tours at the Training and Technical Development Center, purification plants, etc.</li> <li>•Lecture and construction site tour provided by TSS Tokyo Water Co., Ltd.</li> <li>•Lecture provided by the Ministry of Health, Labour and Welfare.</li> <li>•Training at Fukuoka City's Waterworks Bureau.</li> <li>•Lectures and factory tours provided by private companies.</li> </ul>
Target (Cooperator) Countries	Myanmar (8 participants)

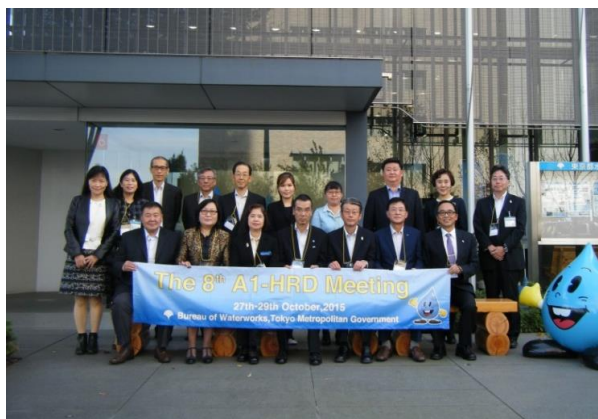
Photos



Name of Organization	<b>Bureau of Waterworks, Tokyo Metropolitan Government</b>
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Name of Activity	Asian Waterworks Utilities Network of Human Resources Development (A1-HRD)
Implementation Period	27-29 October 2015
Main Organizer	Bureau of Waterworks, Tokyo Metropolitan Government :The members host a meeting by turns.
Outline and Objectives	<p>A1-HRD is an initiative among waterworks utilities of Asian cities to contribute to the improvement of waterworks throughout Asia by exchanging information and know-how about human resources development and training.</p> <p>Main Activities:</p> <ul style="list-style-type: none"> <li>-Annual conference on HRD which includes presentation and Q&amp;A session, sharing of ideas, open discussion and technical site visits.</li> <li>-Sharing ideas on HRD through Newsletters and a website.</li> </ul> <p>The 8th conference was held in Tokyo in 2015.</p>
Target (Cooperator) Countries	<p>[Members]</p> <p>Korea: Korea Water Resources Corporation (K-water), Office of Waterworks, Seoul Metropolitan Government</p> <p>Taiwan: Taiwan Water Corporation (TWC)</p> <p>Thailand: Metropolitan Waterworks Authority (MWA)</p> <p>Japan: Bureau of Waterworks, Tokyo Metropolitan Government</p> <p>[observers]</p> <p>Mongolia: Water Services Regulatory Commission of Mongolia (WSRC), Housing and Public Utilities Authority of Ulaanbaatar City (OSNAAUG)</p>

#### Photos





Name of Organization	<b>Yokohama Waterworks Bureau, City of Yokohama</b>
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Name of Activity	JICA Partnership Program "Vietnam – Yokohama Safety Water Supply Management Project"
Implementation Period	Whole project term: January 2014 to November 2016
Main Organizer	Yokohama Waterworks Bureau (under contract to JICA)
Outline and Objectives	<p>YWWB and private companies of Yokohama Water Business Association (YWBA) introduce their superior water-related technologies to water utilities in the central and southern regions of Vietnam to contribute to solutions for issues of waterworks and safe water supply. The counterpart is Hue Water Company (HueWACO), which has sustained cooperative relationship with YWWB for more than 10years.</p> <p>1. Type of program:  (1) Dispatch of staff to Hue, Vietnam for research, training, workshop, etc., and transport of the necessary equipment</p> <ul style="list-style-type: none"> <li>• The 5th delegation (May 10-16, 2015) YWWB: 2 staffs</li> <li>• The 6th delegation (Seminar and Demonstration in June 17th, 2015) YWWB: 16 staffs, YWBA: 4 companies</li> <li>• The 7th delegation (December 9-20, 2015) YWWB: 3 staffs, YWBA: 1 company</li> <li>• The 8th delegation (January 3-15, 2016) YWWB: 2 staffs, YWBA: 1 company</li> </ul> <p>*The 1st delegation was dispatched in JFY2013</p> <p>(2) Implementation of the training course (lectures, observations, instruction on practical skills) in Japan</p> <ul style="list-style-type: none"> <li>• November 11-21, 2015: 2 participants from HueWACO</li> <li>• December 1-10, 2015: 3 participants from HueWACO</li> </ul> <p>2. Fields:</p> <ul style="list-style-type: none"> <li>• Improvement of water distribution and water service pipe</li> <li>• Countermeasure against NRW</li> <li>• Improvement of water purification plant</li> <li>• Data Management</li> <li>• Public-Private-Partnership (PPP)</li> </ul>
Target (Cooperator) Countries	Thua Thien – Hue Construction and Water Supply Company (HueWACO), etc., Viet Nam

Photos



Name of Organization	<b>Yokohama Waterworks Bureau, City of Yokohama</b>
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Name of Activity	JICA Training and Dialogue program "African Region Urban Waterworks Engineering"
Implementation Period	July 9 to August 5, 2015
Main Organizer	JICA, Yokohama Water Co.,Ltd., Yokohama Waterworks Bureau (YWWB)
Outline and Objectives	<p>The 4th Tokyo International Conference on African Development(TICAD IV), held in Yokohama in May 2008, marked the start of the JICA-YWWB 3-year training and dialogue program for waterworks professionals from African countries.</p> <p>Under the Agreement of Comprehensive Partnership between JICA &amp; the City of Yokohama signed in Oct. 2011, YWC and YWWB renewed another 3-year contract with JICA for the program to contribute to improve waterworks in Africa.</p> <p>By the end of 2015, YWWB implemented 9 courses (in 2013, each 1 course for French speaking countries and English speaking countries) and accepted 100 participants from 27 countries in Africa.</p> <p>This program is aimed to share and disseminate the necessity of solid management of waterworks and actual improvement measures from the comprehensive viewpoint among the participating organizations.</p> <p>1. Type of Program: Training course (lectures, experience learnings, observations, and discussions etc.)</p> <p>2. Contents:</p> <ul style="list-style-type: none"> <li>• Exchange Program with Japanese pupils (on "Water Class" at a primary school)</li> <li>• Water Resource Management</li> <li>• Observation of the Facilities in Water Resource</li> <li>• Water Safety Plan</li> <li>• History of the Expansion of Waterworks in Yokohama</li> <li>• Water Quality Management</li> <li>• Reduction of NRW &amp; Leakage Prevention Work</li> <li>• Operation and Maintenance of Water Purification Plant</li> <li>• Water Distribution Management</li> <li>• Water Meter Maintenance</li> <li>• Water Tariff Collection and Customer Service etc.</li> </ul>
Target (Cooperator) Countries	Malawi (2), South Sudan (1), Tanzania (1), Eritrea (1), Ethiopia (2), Zambia (1), Senegal (1), Somalia (1), Zimbabwe(1)

Photos



Name of Organization	<b>Yokohama Waterworks Bureau, City of Yokohama</b>
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Name of Activity	Short-term dispatch of YWWB staff to Malawi (JICA Volunteer Program)
Implementation Period	September 30, 2015 to October 29, 2015
Main Organizer	JICA, Yokohama Waterworks Bureau (YWWB)
Outline and Objectives	<p>Based on the agreement of Comprehensive Partnerships signed between JICA and City of Yokohama in October 2011, YWWB dispatched staff to African countries under "JICA short-term volunteers dispatching program" to support water utilities of Africa in solving issues on waterworks.</p> <p>The first dispatch were in 2013 to ZAWA (Zanzibar Water Authority) in Tanzania, and since 2014 we have been dispatching our staffs to BWB (Blantyre Water Board ) in Malawi. 3 of our staffs were dispatched in 2015.</p> <p>1. Type of program: Dispatch of staff as JICA Volunteers</p> <p>2. Fields:</p> <ul style="list-style-type: none"> <li>• Countermeasure against NRW</li> <li>• Construction surveillance</li> <li>• Awareness-raising activities to citizens</li> </ul> <p>etc.</p>
Target (Cooperator) Countries	Blantyre Water Board (BWB), Malawi

Photos





Name of Organization	<b>Kawasaki City Water and Wastewater Works Bureau</b>
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Name of Activity	Capacity Development Project for Improvement of Management Ability of Water Supply Authorities
Implementation Period	3 June - 29 August, 2015 (Dispatch engineers) 26 November, 2015 - 23 February, 2016 (Dispatch engineers)
Main Organizer	JICA
Outline and Objectives	This project is to contribute to improve the management of nationwide water supply authorities with mid-term and long-term view through strengthening planning, implementation and monitoring ability of Government and Water Supply State Enterprises. The term of the project is from 2012 to 2017. We dispatch short-term engineers with Saitama City, Saitama Prefecture, and Yokohama City. Kawasaki City's role in the project is mainly pipeline network planning.
Target (Cooperator) Countries	Vientiane Capital Water Supply State Enterprise (NPNL), Luang Prabang Provincial Water Supply State Enterprise (PNP-LP) and Khammouane Provincial Water Supply State Enterprise (PNP-KM)

Photos



Name of Organization	<b>Chiba Prefectural Waterworks Bureau</b>
Name of Activity	Dispatch experts to The Democratic Republic of Timor-Leste
Implementation Period	<p>30 April 2012-29 April 2015 (Long term technical an expert dispatching)</p> <p>19 May-15 June 2014(Short term technical experts dispatching)</p> <p>27 July 2015- (Long term technical an expert dispatching)</p> <p>26 October - 4 November 2015(Short term technical experts dispatching)</p> <p>8 January - 7 February 2016(Short term technical experts dispatching)</p>
Main Organizer	JICA
Outline and Objectives	<ul style="list-style-type: none"> <li>• Government of the Democratic Republic Timor Leste set a goal for the water supply sector that realizes to provide 100 % of the population in the country with safe and abundant water in 2030.</li> <li>• However, the water coverage rate remained at 70% (95% in city, 61% in village) in 2012 despite various supports from the Government of Japan.</li> <li>• For this, the water supply sector in Timor Leste is still required continual supports to make the improvement of water supply system.</li> <li>• In response to JICA, Chiba Prefectural Waterworks Bureau (CPWB) has been dispatching technical staffs to improve of water supply system in Timor Leste.</li> </ul> <p>(Dispatch of long term expert)</p> <ul style="list-style-type: none"> <li>• CPWB dispatched a technical staff in response to request from JICA for the Democratic Republic of Timor-Leste from April, 2012 through April 2015.</li> <li>• A technical staff wrestled for improvement while teaching the field staff with the water service skill and realized for 24hours/7days water supply about some areas.</li> <li>• In 2015, CPWB has been dispatching a technical staff from July and continued supporting to able to supply for the expansion of the water-supply district for 24 hours.</li> <li>• Details are as follows.</li> </ul> <p>i) Technical support of Improvement of operating and the water quality chemical control of the water purification plant.</p> <p>ii) Technical support of improvement of water distribution system for 24hours/7days water supply district expansion.</p> <p>iii) Technical support of organization for administering water service business by independent profit.</p> <p>(Dispatch of short term expert)</p> <ul style="list-style-type: none"> <li>• CPWB has dispatched total number of eight technical staffs in short term since 2014.</li> <li>• In addition, Commissioner of CPWB talked about for waterworks for senior government official and concerned in Democratic Republic Timor Leste.</li> <li>• Details are as follows,</li> </ul> <p>i) Technical support of water utility account based on Local public enterprise law, organizational formation.</p> <p>ii) Technical support of efficient water supply system and Understanding of Non-revenue water.</p> <p>iii) Technical support of Water quality check and chemical doses.</p> <p>iv) Technical support of O&amp;M of water supply facilities.</p>
Target (Cooperator) Countries	The Democratic Republic of Timor-Leste

Name of Organization

**Chiba Prefectural Waterworks Bureau**

Photos



Name of Organization	<b>Saitama City Waterworks Bureau</b>
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Name of Activity	Capacity Development Project for Improvement of Management Ability of Water Supply Authorities
Implementation Period	10 June - 15 October 2015 (Dispatch 2 engineers) 27 August - 9 October 2015 (Accept 13 trainees) 10 December 2015 - 5 March 2016 (Dispatch 2 engineers)
Main Organizer	JICA
Outline and Objectives	<p>This project is to contribute to improve the management of nationwide water supply authorities with mid-term and long-term view through strengthening planning, implementation and monitoring ability of Government and Water Supply State Enterprises. The term of the project is from 2012 to 2017.</p> <p>We dispatched short-term experts with Saitama Prefecture, Kawasaki City and Yokohama City. Saitama City's role in the project was mainly about pipeline network planning and business management.</p> <p>We accepted trainees with 3 water utilities (mentioned above) and other related organizations for 44 days(actual working was 29 days) and Saitama City's role was arrangement and implementation of the part of training in total 8 days in 2015.</p>
Target (Cooperator) Countries	Laos / Vientiane Capital Water Supply State Enterprise (NPNL), Luang Prabang Provincial Water Supply State Enterprise (PNP-LP) and Khammouane Provincial Water Supply State Enterprise (PNP-KM)

Photos





Name of Organization	<b>Saitama City Waterworks Bureau</b>
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Name of Activity	Invitation from Laos for JWWA Annual Conference 2015
Implementation Period	19 - 24 October 2015
Main Organizer	Japan Water Works Association
Outline and Objectives	<p>Saitama City Waterworks Bureau(SCWB) has supported Lao Water Sector since 1992.</p> <p>There is no water works association in Laos. However, the necessity of establishment is understood for standard and certification of water materials, improvement of training, international contacts and more.</p> <p>JWWA Annual Conference was held in Saitama City in 2015. Taking advantage of this opportunity, SCWB invited officers from Department of Housing and Urban Planning(1 person) and Ministry of Public Works and Transport and Vientiane Capital Water Supply State Enterprise(1 person).</p> <p>During the conference, they strengthened the cooperation with SCWB, learned about the role and management of JWJA, formed connections with other overseas Water Works Association officials, visited Japanese water company's booths at Water Exhibition and attended site visits.</p>
Target (Cooperator) Countries	Laos / Department of Housing and Urban Planning, Ministry of Public Works and Transport, Vientiane Capital Water Supply State Enterprise.

#### Photos



# Saitama Public Enterprise Bureau


Provincial Waterworks Authority, Thailand

Name of Organization	<b>Saitama Public Enterprise Bureau</b>
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Name of Activity	The Project for Improving Water Treatment Plant Operations and Maintenance Management of the Water Supply State Enterprises"
Implementation Period	14 February - 27 February, 2016 (Dispatch engineers)
Main Organizer	JICA
Outline and Objectives	<p>This project is carried out as a JICA's Partnership Program in January,2016 - January,2019.</p> <p>This project aims to realize a stable supply of high-quality water and contribute to the development of all waterworks projects in the Lao PDR. These objectives will be accomplished by improving the technical skills of employees of the Water Supply State Enterprises in the target areas and carrying out sound water treatment plant operations, maintenance management, and conducting and maintaining water quality management.</p> <p>【Dispatch Engineers】</p> <p>Number of dispatch engineers : 3 people</p> <p>Content : Baseline survey for the project planning</p>
Target (Cooperator) Countries	Department of Housing and Urban Planning, Ministry of Public Works and Transport

#### Photos



Name of Organization	<b>Saitama Public Enterprise Bureau</b>
Name of Activity	Capacity Development Project for Improvement of Management Ability of Water Supply Authorities
Implementation Period	22 July - 15 October, 2016 (Dispatch engineers)
Main Organizer	JICA
Outline and Objectives	<p>This project is to contribute to improve the management of nationwide water supply authorities with mid-term and long-term view through strengthening planning, implementation and monitoring ability of Government and Water Supply State Enterprises. The term of the project is from 2012 to 2017.</p> <p>We dispatch short-term engineers with Saitama City, Kawasaki City, and Yokohama City. Saitama Prefecture's role in the project is governance, performance indicators, and water purification plant planning.</p>
Target (Cooperator) Countries	Department of Housing and Urban Planning, Ministry of Public Works and Transport
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Name of Organization	<b>Nagoya City Waterworks and Sewerage Bureau</b>
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Name of Activity	The JICA Partnership Program (Capacity Development Project for Construction Management of Water Supply Pipe Laying)
Implementation Period	March 2014 ~ March 2017
Main Organizer	JICA
Outline and Objectives	Improving the capacity of NWSDB staffs to supervise and manage construction of waterworks facilities particularly in the area of the pipe connection skill to avoid water leakage from the connection points. Technical training in Japan for NWSDB staffs and holding a seminar in Sri Lanka by Nagoya City staffs
Target (Cooperator) Countries	National Water Supply and Drainage Board of the Government of Democratic Social Republic of Sri Lanka

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Name of Organization	<b>Nagoya City Waterworks and Sewerage Bureau</b>
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Name of Activity	The JICA Partnership Program Improvement of Sewage Treatment in Mexico City Project
Implementation Period	January 2015 ~ March 2017
Main Organizer	JICA
Outline and Objectives	Improvement of sewage-treated water in Mexico City Project. Training in Japan for Mexico City staffs and instructing in Mexico City by Nagoya City staffs.
Target (Cooperator) Countries	Mexico City

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Name of Organization	<b>Nagoya City Waterworks and Sewerage Bureau</b>
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Name of Activity	The JICA Training and Dialogue Programs Non-Revenue Water Management(Leakage Control) A
Implementation Period	30th Sep~2th Oct and 23th Oct 2015 (Whole Period : 23th Sep~5th Nov 44 days)
Main Organizer	JICA
Outline and Objectives	This program aims to Capacity Development for Non Revenue Water management of Dvelopping countries engineers.
Target (Cooperator) Countries	AFGHANISTAN,TAJIKISTAN,MALAWI,MOROCCO,SOUTH SUDAN,ZAMBIA,ZIMBABWE, PALAU

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Name of Organization	<b>Nagoya City Waterworks and Sewerage Bureau</b>
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Name of Activity	The JICA Training and Dialogue Programs Non-Revenue Water Management(Leakage Control) B
Implementation Period	10th Nov ~ 23th Dec 2015 44days
Main Organizer	JICA
Outline and Objectives	This program aims to Capacity Development for Non Revenue Water management of Developing countries engineers.
Target (Cooperator) Countries	SRI LANKA,ETHIOPIA,RWANDA,NIGERIA,TANZANIA,BRAZIL

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Name of Organization	<b>Hamamatsu City Water Services Department</b>
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Project	JICA Training and Dialogue Programs "Non-Revenue Water Management (Leakage Control)"
Implementation	26–30 October 2015
Main Organizer	JICA
Outline and Objectives	<p>JICA carries out this program by inviting administrative officers, engineers, and researchers from developing countries and providing training on the skills and knowledge necessary for each country.</p> <p>The program is to be implemented for 3 years between 2014 and 2016 in Hamamatsu.</p> <p>We accepted 11 trainees from 8 countries in 2015 to learn about non-revenue water management.</p> <p>The main training programs carried out in Hamamatsu are as follows;</p> <ul style="list-style-type: none"> <li>• Workflow for Leak Detection</li> <li>• Field Training for Leak Detection</li> <li>• Study Tour for Leak Repair Construction</li> <li>• Safety Measures for Water Supply Installation</li> <li>• Explanation of the Simple Filter Bed (Demonstration with a small model)</li> <li>• Study Tour of a Water Purification Plant</li> </ul>
Target (Partner) Countries	Zambia (2 persons), Malawi (2 persons), Zimbabwe, South Sudan, Morocco, Afghanistan, Tajikistan (2 persons), Palau (total 11 participants)

Name of Organization	<b>Osaka Municipal Waterworks Bureau (OMWB)</b>
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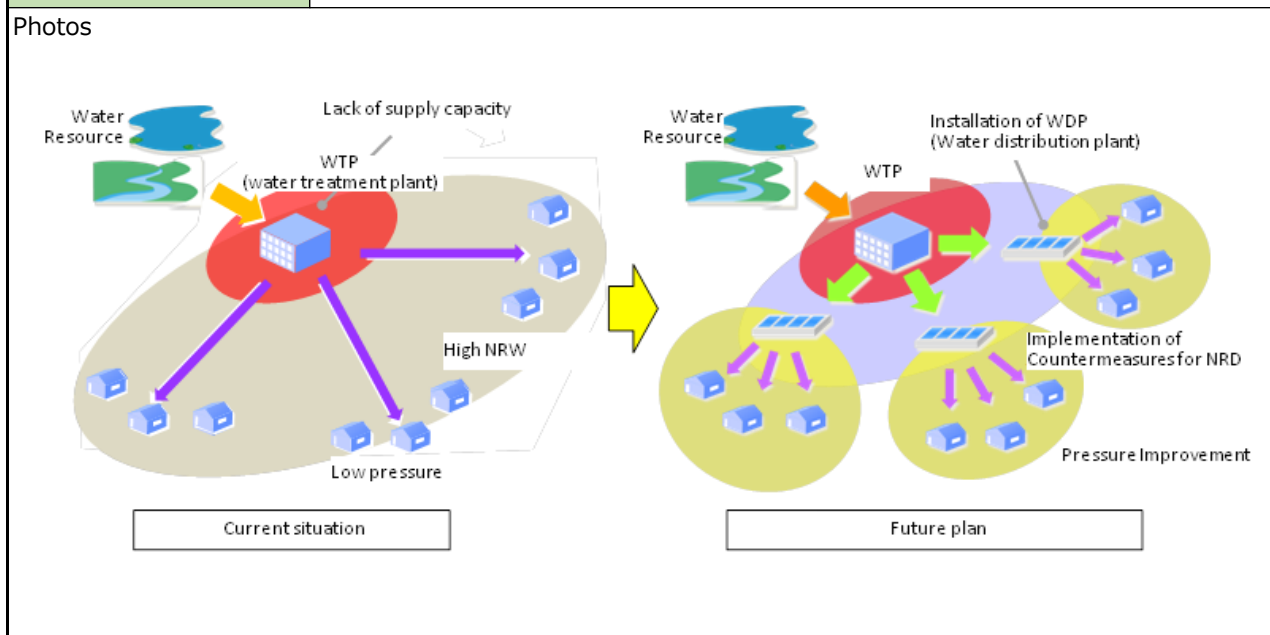
Name of Activity	Technical Exchange 2016 between SAWACO, BWACO and OMWB
Implementation Period	21st - 29th March 2016
Main Organizer	Osaka Municipal Waterworks Bureau (OMWB)
Outline and Objectives	<p>Saigon Water Corporation (SAWACO) and OMWB have mutually agreed to exchange and share technical and managerial knowledge, experiences, information for the purpose of making contribution toward the development of both waterworks and promoting their friendship, signed "Technical Partnership Agreement" on December 2009, revised it on November 2015.</p> <p>Based on this agreement, OMWB has accepted SAWACO's staffs annually since 2010.</p> <p>In this year(2016), OMWB accepted 3 participants from SAWACO and 2 participants from BWACO* (Ba Ria - Vung Tau Water Supply JSC) between 21st to 29th March 2016, and conducted lectures, site visits and discussion.</p> <p>In the technical exchange, OMWB introduced its master plan, O&amp;M methods of the facilities and its HRD (the system to develop human resources) etc. Issues on the SAWACO and BWACO were discussed as well, and OMWB advised solutions to solve them.</p> <p>*BWACO joined the technical exchange on referral from SAWACO.</p>
Target (Cooperator) Countries	<p>Vietnam (Saigon Water Corporation [SAWACO])</p> <p>Vietnam (Ba Ria - Vung Tau Water Supply JSC [BWACO])</p>

Photos



Name of Organization	<b>Osaka Municipal Waterworks Bureau (OMWB)</b>
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Name of Activity	The preparatory survey on water supply improvement project in Ho Chi Minh city (JICA)
Implementation Period	18th February 2014 - 30th September 2015
Main Organizer	TOYO ENGINEERING CORPORATION (representative) OSAKA MUNICIPAL WATERWORKS BUREAU PANASONIC ENVIRONMENTAL SYSTEMS & ENGINEERING CO., LTD. PRICEWATERHOUSECOOPERS CO., LTD.
Outline and Objectives	<p>The preparatory survey (JICA PPP-FS) was done for water supply improvement in Ho Chi Minh city by OMWB and Japanese private companies (TOYO ENGINEERING, PANASONIC ENVIRONMENTAL SYSTEMS &amp; ENGINEERING, PRICE WATER HOUSE COOPERS) between February 2014 to September 2015.</p> <p>This survey aimed to study the feasibility of the business project to install, manage, and maintenance water distribution reservoirs (WDPs) in Ho Chi Minh city, based on the result of our past relevant surveys*.</p> <p>*Past surveys</p> <ul style="list-style-type: none"> <li>- NEDO, "Project on 'Water-saving Recycling Systems", 2009-2010</li> <li>- METI, "The Study on effective approach to support local waterworks in Ho Chi Minh City cooperated with Japanese private sector and Japanese public sector", 2011</li> <li>- JICA, "The Study on Water Supply Improvement in Ho Chi Minh City", 2012-2013</li> </ul>
Target (Cooperator) Countries	Vietnam (Saigon Water Corporation [SAWACO])



Name of Organization	<b>Osaka Municipal Waterworks Bureau (OMWB)</b>
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Name of Activity	Survey in Vietnam
Implementation Period	23rd - 25th February 2016
Main Organizer	Ministry of Health, Labour and Welfare
Outline and Objectives	<p>This survey in Vietnam was held by Ministry of Health, Labour and Welfare of Japan to support business expansion of Japanese water industry as contribution on development of Asian water sector.</p> <p>OMWB cooperated on holding the survey in Vietnam with our relationship between OMWB and the waterworks (SAWACO:Saigon Water Corporation, BWACO:Ba Ria - Vung Tau Water Supply JSC) in Vietnam.</p> <p>In this survey, we got information about their technical and non-technical problems and requests with Japanese private companies.</p>
Target (Cooperator) Countries	<p>Vietnam (Saigon Water Corporation [SAWACO])</p> <p>Vietnam (Ba Ria - Vung Tau Water Supply JSC [BWACO])</p>

Photos





Name of Organization	<b>Osaka Municipal Waterworks Bureau (OMWB)</b>
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Name of Activity	JICA Region-Focused Training of "Operation and Maintenance of Urban Water Supply System"
Implementation Period	22 May-17 June 2015
Main Organizer	JICA
Outline and Objectives	<p>The training course of "Operation and Maintenance of Urban Water Supply System" is provided in order to foster the technology as to the effective utilization measures of existing urban water supply facilities in developing countries, as well as facility maintenance, which is for the engineers in charge of water supply and maintenance of water supply.</p> <p>And also we have received accumulated numbers of 219 participants from 65 countries so far in order to develop and ensure the human resources in our organization who can respond to international contribution or international business development.</p> <p>Main programs of the training course are as follows:</p> <ul style="list-style-type: none"> <li>•General information on Osaka Municipal Waterworks Bureau, overseas development, disaster preparedness</li> <li>•Practice of water leakage research, flexible inspection and maintenance</li> <li>•Drawing management</li> <li>•Overview of pipe line maintenance, water leakage survey, repair</li> <li>•Water supply equipment overview, maintenance technology, direct water, water supply meter</li> <li>•Accessory equipment of the conduit, practice of piping</li> <li>•Water supply repair training (crimp repairs, dismantle of small diameter tube )</li> <li>•Operation and maintenance of water intake and purification plant, water distribution facility</li> <li>•Maintenance of electrical and mechanical equipment</li> <li>•Operation and management of water purification facility</li> <li>•Water quality management (water quality management method, water treatment, etc.)</li> <li>•Observation of water intake and purification plant, water distribution facility</li> </ul>
Target (Cooperator) Countries	Ethiopia, Myanmar(2),Cambodia,Malaysia,Kenya,Bangladesh,Nigeria,Turkey,South Sudan(2),Zambia,Iran,Pakistan,Morocco,Sudan 18 participants in total

Photos



Name of Organization	<b>Kyoto City Water and Sewerage Works Bureau</b>
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Name of Activity	Technical cooperation to Vararsi City
Implementation Period	22-Apr-15
Main Organizer	Kyoto City
Outline and Objectives	<p>We organized the technical visit to Toba wastewater treatment plant to explain sewer works of Kyoto City in response to a request from Vararasi City, India.</p> <p>Main programs of the training course are as follows;</p> <ul style="list-style-type: none"> <li>• Sewerage works of Kyoto City</li> <li>• Technical visit to Toba wasetewater treatment plant</li> <li>• C00rdination method with each company related to a certain roadwork</li> <li>• Technical discussion</li> </ul>
Target (Cooperator) Countries	India (5 participants)

Photos



Name of Organization	<b>Kyoto City Water and Sewerage Works Bureau</b>
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Name of Activity	JICA country focused training "Role of Government for water supply,waterworks management"
Implementation Period	23-24 October 2015
Main Organizer	JICA
Outline and Objectives	<p>This training is mainly aiming to foster development of engineers who will take on leading roles in their waterworks facilities. In response to the request by JICA, Kyoto City conducted lectures and the inspection about the water technologies, for water engineers of developing country. The training in Kyoto City received a request in this program.</p> <p>Main programs of the training course are as follows.</p> <ul style="list-style-type: none"> <li>•Management strategy of Kyoto City Water and Sewerage Works Bureau</li> <li>•Methods of the water demand prediction</li> <li>•Operation and management of the water purification plants</li> <li>•Improvement, replacement and earthquake resistance of distribution pipes</li> <li>•Replacement of lead service pipes</li> <li>•Public sewerage works of Kyoto City</li> <li>•Technical visit to a water quality management center and a wastewater treatment plant</li> </ul>
Target (Cooperator) Countries	Laos(13 participants)

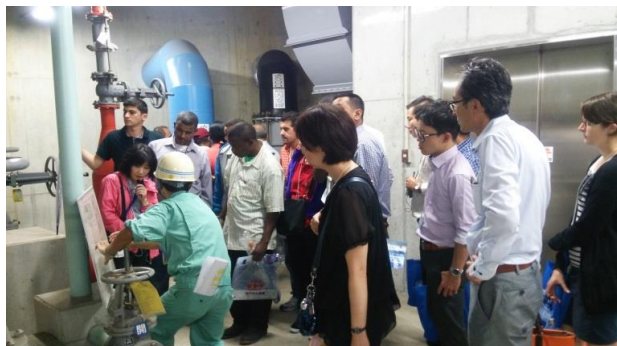
#### Photos



Name of Organization	<b>KOBE City Waterworks Bureau</b>
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Name of Activity	JICA knowledge co-creation Program "Operation and Maintenance of Urban Water Supply System (Water Quality and Purification) (B)"
Implementation Period	13 July - 14 August 2015
Main Organizer	JICA
Outline and Objectives	<p>This training is aiming to foster engineers who are in charge of water quality and purification. 14 participants from 13 countries visited Kobe City in 2015.</p> <p>Main programs of the training course are as follows.</p> <ul style="list-style-type: none"> <li>• Water Treatment Method</li> <li>• Maintenance of Machinery and Electrical Equipment</li> <li>• Water Quality Management</li> <li>• Operation and Maintenance of Water Purification Plant</li> <li>• Water Safety Plan</li> <li>• Study Tour of Facilities (Reservoir, Water Purification Plant, Pump Station and so on)</li> </ul>
Target (Cooperator) Countries	Ecuador, Eritrea, Ethiopia, Laos (2), India, Iraq, Malawi, Democratic Republic of the Congo, Sri Lanka, Solomon, Republic of South Africa, Turkey, Zimbabwe (14 participants)

Photos





Name of Organization	<b>KOBE City Waterworks Bureau</b>
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Name of Activity	Identification and formation of public-private partnership type projects in the overseas water business in the water supply sector
Implementation Period	7 - 11 December 2015
Main Organizer	Ministry of Health, Labour and Welfare
Outline and Objectives	<p>Mitsubishi Electric, Kobe Water Service Corporation, and Kobe City Waterworks Bureau investigated the feasibility of introducing monitoring and control system in Colombo, Kalutara and Anuradhapura of Sri Lanka.</p> <p>Main program of this project is as follows.</p> <ul style="list-style-type: none"> <li>•Field investigation of water treatment facilities</li> <li>•Technical discussion with NWSDB engineers</li> <li>•Meeting with other agencies</li> </ul>
Target (Cooperator) Countries	NWSDB:National Water Supply and Drainage Board, Sri Lanka

Photos





Name of Organization	<b>The City of Hiroshima Waterworks Bureau</b>
Name of Activity	JICA Operation and Maintenance of Urban Water Supply Systems Course B
Implementation Period	July 2 to August 10, 2015
Main Organizer	JICA
Outline and Objectives	<p>The City of Hiroshima accepts technicians in the field of waterworks from developing countries so that they can acquire practical knowledge and skills about Hiroshima's water supply and distribution. The goal of this program is for the trainees to contribute to the development of waterworks services in their countries. The City has accepted 29 trainees since receiving JICA Chugoku's request in 2013.</p> <p>Main Programs of Training Course:</p> <ul style="list-style-type: none"> <li>•Hydrologic Accounting</li> <li>•Operation and Maintenance of Purification Plants</li> <li>•Water Quality Management</li> <li>•Leak Prevention Training</li> <li>•Repair of Burst Water Pipes</li> <li>•Visit to Nukui Dam and the forest at the source of the Ota River</li> </ul>
Target (Cooperator) Countries	Albania, Democratic Republic of Congo,Iraq (2), Malawi (2), Nigeria (2),Sri Lanka,Tanzania [ten participants in total]

Photos





Name of Organization	<b>The City of Hiroshima Waterworks Bureau</b>
Name of Activity	Project 2: JICA Country Specific Training Course "Environment / Water Management Engineering" (Iraq)
Implementation Period	September 3 - 18, 2015
Main Organizer	JICA
Outline and Objectives	<p>The City of Hiroshima accepts technicians in the field of waterworks from the Republic of Iraq so that they can acquire practical knowledge and skills about Hiroshima's water supply and distribution. The goal of this program is for the trainees to contribute to the development of their waterworks services. The City has accepted 31 trainees since receiving JICA Chugoku's request in 2011.</p> <p>Main Programs of Training Course:</p> <ul style="list-style-type: none"> <li>• Operation and Maintenance of Purification Plants</li> <li>• Water Quality Management</li> <li>• Leak Prevention Training</li> <li>• Repair to Burst Water Pipes</li> <li>• Visit to Nukui Dam and the forest at the source of the Ota River</li> </ul>
Target (Cooperator) Countries	Iraq (Seven participants in total for the 2015 program)



Photos



Name of Organization	<b>Shimonoseki City Waterworks &amp; Sewerage Bureau</b>
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Name of Activity	2015 Staff Exchange Program with Qingdao Water Group Co., Ltd.
Implementation Period	18 October - 14 October 2015
Main Organizer	Shimonoseki City Waterworks & Sewerage Bureau・Qingdao Water Group Co., Ltd.
Outline and Objectives	<p>The cities of Shimonoseki and Qingdao have promoted friendly exchanges in a variety of fields since becoming friendship cities in 1979.</p> <p>As part of these activities, Shimonoseki City Waterworks &amp; Sewerage Bureau and Qingdao Water Group CO., Ltd dispatch the staffs mutually from 2000.</p> <p>This staff exchange program is aiming to deepen friendly relations and improve water and sewerage technology in both cities.</p>
Target (Cooperator) Countries	China・Qingdao Water Group Co., Ltd.

Name of Organization	<b>Fukuoka City Waterworks Bureau</b>
Name of Activity	JICA Partnership Program: Project to support reducing unaccounted water through effective control on Nadi/ Lautoka regional supply in Fiji
Implementation Period	March 2014 - February 2017
Main Organizer	JICA
Outline and Objectives	<p>■ <b>Purpose</b></p> <ul style="list-style-type: none"> <li>• To develop capacities of Water Authority of Fiji (WAF) engineers in charge of planning and maintenance on distribution pipes</li> <li>• To support NRW reduction activities in some pilot areas by WAF engineers who are transferred skills from Fukuoka.</li> </ul> <p>■ <b>Activities in Fiji by dispatched engineers from Fukuoka city</b></p> <ul style="list-style-type: none"> <li>• 3 times a year for 3 years</li> </ul> <p>(examples)</p> <ul style="list-style-type: none"> <li>• Lecture: leak prevention, planning of distribution pipe network</li> <li>• Site visit: waterworks facilities, repairing leakages</li> <li>• Discussion: NRW reduction measures (physical and non-physical losses)</li> <li>• Support: NRW reduction activities in some pilot areas by WAF</li> </ul> <p>■ <b>Training in Japan</b></p> <ul style="list-style-type: none"> <li>• once a year for 3 years</li> </ul> <p>(examples)</p> <ul style="list-style-type: none"> <li>• Lecture: NRW reduction measures in Fukuoka</li> <li>• Site visit: leak detection, water distribution control center</li> <li>• Practical training: plumbing service pipes, repairing leakage</li> </ul>
Target (Cooperator) Countries	Water Authority of Fiji
<p>photos</p> <div>   </div>	

Name of Organization	<b>Fukuoka City Waterworks Bureau</b>
Name of Activity	JICA Expert Yangon city water supply and sanitation advisor
Implementation Period	August 2015 - July 2017
Main Organizer	JICA
Outline and Objectives	<p>■ <b>Outputs</b></p> <ul style="list-style-type: none"> <li>• Capacity of Yangon City Development Committee (YCDC) for planning and implementation is improved.</li> <li>• Activities to achieve Water Vision and Master Plan on water supply services is accelerated.</li> <li>• Coordination among activities on water supply and sanitation in Yangon City is enhanced.</li> </ul> <p>■ <b>Activities</b></p> <ol style="list-style-type: none"> <li>1) To advise YCDC and its Water &amp; Sanitation Department to achieve "Water Vision of Yangon City" proposed in Master Plan</li> <li>2) To advise YCDC and its Water &amp; Sanitation Department to develop and improve water supply services based on the Master Plan</li> <li>3) To advise and assist officials of YCDC and its Water &amp; Sanitation Department to coordinate with other concerned Ministries/ Departments, Donors, INGOs, and private companies</li> <li>4) To share the experience and knowledge of Yangon to other Municipalities/ Township Development Committee and provide necessary advice</li> <li>5) To consider future Japanese assistance programs</li> </ol>
Target (Cooperator) Countries	Yangon City Development Committee, Myanmar
<p>photos</p> <div>   </div>	



Name of Organization	<b>Fukuoka City Waterworks Bureau</b>
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Name of Activity	JICA group and region focused training: Non-Revenue Water management (Leakage control)
Implementation Period	November, 2015
Main Organizer	JICA
Outline and Objectives	<p>■ <b>Purpose</b></p> <ul style="list-style-type: none"> <li>• To improve technical levels in developing countries including Asia</li> <li>• To develop capacities of engineers of Fukuoka city through international cooperation activities and to improve technical standards of Fukuoka city by accumulating activities</li> </ul> <p>■ <b>Activities</b> (examples)</p> <ul style="list-style-type: none"> <li>• Lecture: utility management in Fukuoka, NRW reduction measures</li> <li>• Site visit: dams, waterworks facilities , laying distribution pipes</li> <li>• Support: action plans by trainees</li> </ul>
Target (Cooperator) Countries	Philippines, Fiji (2), Pakistan, Nepal (2), Laos (2), Tunisia, Tonga and Bangladesh (2)

Photos



Name of Organization	<b>Fukuoka City Waterworks Bureau</b>
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Name of Activity	Council of Local Authorities for International Relations: Local government officials training program
Implementation Period	June - November, 2015
Main Organizer	Council of Local Authorities for International Relations
Outline and Objectives	<p>■ <b>Purpose</b></p> <ul style="list-style-type: none"> <li>• To improve water utility management in Yangon City Development Committee through capacity development of an engineer from Yangon.</li> <li>• To develop capacities of engineers of Fukuoka city through international cooperation activities and to improve technical standards of Fukuoka city by accumulating activities</li> </ul> <p>■ <b>Activities</b> (examples)</p> <ul style="list-style-type: none"> <li>• Lecture: utility management in Fukuoka, NRW reduction measures</li> <li>• Site visit: dams, waterworks facilities , laying distribution pipes</li> <li>• Support: action plan by a trainee "Water quality management in Nyaunghnapin water purification plant"</li> </ul>
Target (Cooperator) Countries	Yangon City Development Committee, Myanmar

photos



Name of Organization	<b>Fukuoka City Waterworks Bureau</b>
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Name of Activity	JICA technical assistance project: Project for improvement of water supply management of YCDC
Implementation Period	2015 - 2020
Main Organizer	JICA
Outline and Objectives	<p>In Yangon, while construction of waterworks facilities utilizing yen loans is underway, JICA is also conducting a technical cooperation project associated with a yen loan project, to strength the organizational capacity of Yangon City Development Committee in parallel with the facility construction for securing sustainable water supply service. Bureau of Waterworks Tokyo Metropolitan Government and Fukuoka City's Waterworks Bureau conduct seminars and training in Yangon and Japan.</p> <p>FY2015 : Dispatch of Lecture (24-30 January)</p>
Target (Cooperator) Countries	Republic of the Union of Myanmar, Yangon City Development Committee



photos



Name of Organization	<b>Okinawa Prefecture Enterprise Bureau</b>
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Name of Activity	Water Conservation Management in Island Areas
Implementation Period	13th July to 4th September, 2015
Main Organizer	JICA
Outline and Objectives	Acceptance of trainees from (foreign) water utilities, in cooperation between JICA Okinawa and Okinawa Water Supply Agency, aiming at international exchanges and international cooperation through technical transfer regarding effective water system in Pacific islands area. (This is the 6th year and 69 trainees have participated in this training so far. )
Target (Cooperator) Countries	SAMOA(3),Fiji(1), Papua New Guinea(1), Kiribati(1), Nauru(1),Solomon(2), Vanuatu(1),Micronesia(1),Marshall Islands(1)

Name of Activity	Capacity Enhancement Project for Samoa Water Authority in Cooperation with Okinawa
Implementation Period	2014FY~2019FY
Main Organizer	JICA
Outline and Objectives	The project have been providing Samoa Water Authority (SWA) with guidance on proper management technologies regarding Non-Revenue Water, water quality and water purification plant in Apia, capital city of Samoa. For the purpose of contributing to stable water supply and security in Apia, experts are dispatched from water authorities under Okinawa Prefecture.
Target (Cooperator) Countries	Samoa Water Authority

Name of Organization	<b>Japan Water Works Association</b>
Name of Activity	JICA Group Training Course "Comprehensive Engineering on Water Supply Systems (A)"
Implementation Period	17 June -19 August, 2015
Main Organizer	JICA Tokyo
Outline and Objectives	<p>This training is aiming to foster development of engineers who will take on leading roles in managing waterworks facilities and target of the training is mid-level waterworks engineers from developing countries.</p> <p>The program features a number of lectures, observation tours and exercises regarding comprehensive water supply technologies for about 2 months. The training has a long history and so far a total of 598 trainees from about 90 countries and regions have participated.</p> <p>Main programs of the training course are as follows.</p> <ul style="list-style-type: none"> <li>• Water intake, reservoir, distribution facilities</li> <li>• Jar test (Optimization of coaguration)</li> <li>• Leak prevention</li> <li>• Exercise on basic planning of water supply systems</li> <li>• Observation of water pipe/valve factories</li> <li>• Anti-seismic construction and measures for disaster</li> <li>• Groundwater technology</li> <li>• Water treatment process</li> <li>• Water demand forecasting and hydraulics in water distribution networks etc.</li> </ul>
Target (Cooperator) Countries	CAMBODIA, ETHIOPIA, MALAWI(2), MYANMAR, RWANDA, SAMOA, SOMALIA, SUDAN(2) (TOTAL 10 participants)
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