Name of Organization Waterworks Bureau, City of Sapporo

Name of Activity	Comprehensive Engineering on Water Supply Systems (B)
Implementation Period	5.June.2017-10.Aug.2017
Main Organizer	JICA Hokkaido, Sapporo Waterworks Bureau, HIECC
Outline and Objectives	This course aims to improve the capacity for waterworks engineer to tackle your own bottlenecks to supply safe and continuous water to your people by experienced Sapporo City's experts or professional engineer. The participants of this course acquire practicable knowledge and techniques of waterworks engineering through lectures, site visits, discussions, and consultations with experienced Japanese experts and professional engineer. Main programs of the training course are as follows. Outline of water supplies in Japan and Sapporo Introduction to water resources and water intake Integrated Operation of water purification plant(Control Room, back washing of filter, jar-test) Pipeline maintenance Countermeasure against water leakage Pipe manufacturing plant (ductile & PE) Network analysis of distribution pipes (EPANET) Water demand forecasting etc.
Target (Cooperator) Countries	Egypt, Ethiopia, Nigeria, Zambia, Malawi, Nepal





Name of Organization	Waterworks Bureau, City of Sapporo
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Name of Activity	JICA Partnership Program: Water Transmission and Distribution System Improvement Project for Water Supply in Ulaanbaatar City
Implementation Period	2016-2018
Main Organizer	JICA Hokkaido, Sapporo Waterworks Bureau, HIECC
Outline and Objectives	< Project Purpose > The capacity of staff in the City Government of Ulaanbaatar related to development of the water transmission and distribution improvement plan is enhanced. < Activities > • To review the existing water transmission and distribution system in Ulaanbaatar City works • To provide training on basics for appropriate water transmission and distribution system • To conduct field survey on water pressure and flow rate on the pipeline network in selected pilot area, and analyze the data collected from the survey so as to provide an envisioned water distribution block area • To discuss problems and countermeasures based on the data and develop a model improvment plan in the envisioned water distribution block area
Target (Cooperator) Countries	Mongol (the City Government of Ulaanbaatar, Ulaanbaatar Water Supply and Seweage Authority, Ulaanbaatar Housing and Public Utilities Authority)
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Name of Organization	Bureau of Waterworks, Tokyo Metropolitan Government
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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 Organizor	JICA, Tokyo Waterworks, Fukuoka City Waterworks Bureau, TSS Tokyo Water
Main Organizer	Co.,Ltd, Public Utility Services Center Co.,Ltd
	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.
Outline and Objectives	FY2017 : Training in Japan (From 25 January through 30 January)
Outline and Objectives	Dispatch of Lecture(From 1 February through 7 February)
	Dispatch of Lecture (From 20 February through 24 february)
Target (Cooperator)	Myanmar Yangon City Development Committee
Countries	, , = = = = = = = = = = = = =





Name of Organization	Bureau of Waterworks, Tokyo Metropolitan Government
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Nieman of Authority	JICA Partnership Program "NRW (Non-Revenue Water) Reduction Technology
Name of Activity	Training and Capacity Building Project in Hanoi"
Implementation Period	February 2016 - January 2019
Main Organizer	JICA, Tokyo Waterworks, TSS Tokyo Water Co.,Ltd
Outline and Objectives	Due to the lack of human resources and technologies for reducing non-revenue water in Hanoi, Vietnam, we implement technical cooperation by offering technical guidance on site and in Japan and providing Japanese-made materials and equipment to improve the capacity of personnel working in the Hanoi Water Limited Company to reduce non-revenue water. FY2017: Training in Japan (From 10 October through 20 October)
Target (Cooperator) Countries	Hanoi Water Limiited Company (HAWACOM)





Name of Organization	Bureau of Waterworks, Tokyo Metropolitan Government
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Name of Activity	Non-revenue water reduction project in Yangon
Implementation Period	2016-2022 (scheduled)
Main Organizer	Tokyo Waterworks, TSS Tokyo Water Co.,Ltd, and etc.
Outline and Objectives	Based on the results of the non-revenue water reduction pilot project implemented in Yangon in FY 2014, we expanded the area in some parts of Yangon and implemented infrastructure development project by utilizing ODA (project cost: 1.8 billion yen). Furthermore, we plan to carry out maintenance and management projects funded separately by Yangon City from the district where infrastructure development is completed. FY2017: Conclusion of the framework agreement (11 July)
Target (Cooperator) Countries	Myanmar Yangon City Development Committee





Name of Organization Bureau of Waterworks, Tokyo Metropolitan Government

Name of Activity	JICA Partnership Program "Water Supply Contral and NRW(Non-Revenue Water) Manegement Technology in Malaysia"
Implementation Period	August 2017~ March 2020
Main Organizer	Tokyo Waterworks, TSS Tokyo Water Co.,Ltd, and etc.
Outline and Objectives	In Labuan Island, Malaysia, which faces the high non-revenue water rate, we implement technical cooperation by offering technical guidance and providing Japanese-made materials and equipment to improve Labuan Water's personnel skill of managing the water supply control by using SCADA and reduce non-revenue water. FY2017: Conclusion of the framework agreement (4 July)
Target (Cooperator) Countries	Myanmar Yangon City Development Committee



lacktriangle Monitor of SCADA (image)



▲ Practice at our Training Field (image)

Name of Organization Bureau of Waterworks, Tokyo Metropolitan Government

Name of Activity	Asian Waterworks Utilities Network of Human Resources Development (A1-HRD)
Implementation Period	1-3 November 2017
Main Organizer	Bureau of Waterworks, Tokyo Metropolitan Government :The members host a meeting by turns.
Outline and Objectives	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. Main Activities: -Annual conference on HRD which includes presentation and Q&A session, sharing of ideas, open discussion and technical site visitsSharing ideas on HRD through Newsletters and a website. The 10th conference was held in Taichung (Taiwan) in 2017.
Target (Cooperator) Countries	Korea : The Office of Waterworks, Seoul Metropolitan Government Taiwan : Taiwan Water Corporation (TWC), Taipei Water Dapartment (TWD) Thailand : Metropolitan Waterworks Authority, Thailand (MWA) Japan : Bureau of Waterworks, Tokyo Metropolitan Government





Name of Organization Yokohama Waterworks Bureau, City of Yokohama

Name of Activity	Activities based on Memorandum of Understanding between Yokohama Waterworks Bureau and Thua Thien Hue Water Supply Joint Stock Company
Implementation Period	July 2017 to December 2019
Main Organizer	Yokohama Waterworks Bureau
Outline and Objectives	Based on 15 years' cooperative relationship with Thua Thien Hue Water Supply Joint Stock Company (HueWACO), Yokohama Waterworks Bureau (YWWB) newly concluded 2 parties' MOU with HueWACO in July, 2017. Based on this MOU, YWWB is working on technical cooperation such as the improvement of water treatment plant and the program development of training courses as well as supporting the business operation of Yokohama Water Business Association (YWBA)* members in Vietnam with the cooperation of HueWACO. *Association of regional companies established in 2011, aiming to promote the oversea business operation of water supply and sewerage. Registered by 166 companies as of March, 2018. 1. Type of activities: (1) Staff dispatch (for research, discussion, technology transfer and seminars) - Staff dispatch is planned in FY 2018 to carry out technical cooperation in the field of water supply/distribution, water purification/quality and facility management. (2) Trainee acceptance (for training, observation and discussion) - Two of HueWACO's management staffs including Deputy General Director visited Yokohama during March 12th to 18th, 2018. - Discussed the plans of cooperation activities based on MOU, and established an action plan - Carried out the observation of a pipeline training facility of YWWB and training on human resource development (3) Business support - YWWB, YWBA and HueWACO co-organized "Seminar on Water Business Promotion" in Hue city, Vietnam. In the seminar, 6 member companies of YWBA delivered presentations and exhibited their technologies, and there were 165 participants from 58 organizations in Vietnam, mainly including water companies. 2. Fields: - Distribution pipe network development - Countermeasure for non-revenue water - Improvement of purification method - SCADA system - Data management
Target (Cooperator) Countries	Thua Thien Hue Water Supply Joint Stock Company (HueWACO), etc., Viet Nam



Advice on the construction of training yard

Name of Organization Yokohama Waterworks Bureau, City of Yokohama

Name of Activity	JICA Knowledge Co-creration program "African Region Urban Waterworks Engineering"
Implementation Period	November 6 to December 8, 2017
Main Organizer	JICA, Yokohama Water Co.,Ltd., Yokohama Waterworks Bureau (YWWB)
	The 4th Tokyo International Conference on African Development (TICAD IV) held in Yokohama in May 2008, marked the start of the JICA-YWWB knowledge co-creation program for waterworks professionals from African countries, and this program contributes to improving waterworks in Africa. By the end of 2016, YWWB implemented 10 courses and accepted 108 participants from 28 countries in Africa. In 2017, YWWB accepted 10 participants in the program. In this program, participants learned the history of water supply, the institution and mechanism of water purification plant in Japan and YWWB's activities such as non-revenue water reduction. In addition, they made action plans to improve their situations by comparing it with YWWB's operation.
Outline and Objectives	Contents of specific program in 2017: Observation of water sources and water facilities such as water purification plants and lecture of water treatment and water quality management Introduction of activities in YWWB such as Water Safety Plan, asset management, etc. Lecture of NRW reduction and practice of leakage detection works in training yard Observation of Expansion history of Yokohama in Waterworks commemoration hall Lecture of mapping system, distribution management and water meter management Observation of pipe installation site and lecture of construction management Exchange Program with Japanese pupils (on "Water Class" at a primary school) Management plan, meter reading, billing collection and customer service etc.
Target (Cooperator)	Eritrea (1), Kenya (1), Malawi (2), Nigeria (2), Rwanda (1), Tanzania (1), Uganda
Countries	(1), Zambia (1)



Water Meter Management in Water Meter Test Laboratory

Yokohama Waterworks Bureau, City of Yokohama Name of Organization

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Name of Activity	Short-term dispatch of YWWB staff to Malawi (JICA Volunteer Program)
Implementation Period	September 18, 2017 to October 28, 2017 (41 days)
Main Organizer	JICA, Yokohama Waterworks Bureau (YWWB)
Outline and Objectives	Based on the agreement of Comprehensive Partnerships signed between JICA and City of Yokohama in October 2011, YWWB dispatched its staffs to African countries under "JICA short-term volunteers dispatching program" to support water utilities of Africa in solving issues on waterworks. 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. By the end of 2016, total 9 of our staffs were dispatched, and in 2017, 4 of our staffs were dispatched. Type of Program: Dispatch of staff as JICA Volunteers Specific Activities in 2017: We selected "Chiwembe Housing DMA" as a model area. For technical field, we instructed NRW reduction methods (e.g. DMA creation, Minimum Night Flow Measurement, Step test, leakage detection) and drawing management of pipeline. For revenue field, we implemented the customer satisfaction survey in same model area and grasped the needs of customers. In addition, we hold the workshop for meter readers and revenue supervisors and grasped the issue of billing.
Target (Cooperator) Countries	Blantyre Water Board (BWB), Malawi





Name of Activity	Capacity Development Project for Improvement of Management Ability of Water Supply Authorities
Implementation Period	18 June - 22 July, 2017 (Dispatch engineers) 18 June - 19 Aug, 2017 (Dispatch engineers) 16 July - 19 Aug, 2017 (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 dispatched short-term engineers with Saitama City, Saitama Prefecture, and Yokohama City. Kawasaki City's role in the project is the planning of the pipeline network and water quality control.
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	Chiba Prefectural Waterworks Bureau
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Name of Astroit	Disable consider to The Demographic Describing of Time
Name of Activity	Dispatch experts to The Democratic Republic of Timor-Leste
Implementation Period	30 April 2012-29 April 2015 (A long term technical expert dispatching) 19 May-15 June 2014(Short term technical staffs dispatching) 26 October - 4 November 2015(Short term technical staffs dispatching) 27 July 2015-26 July 2017 (A long term technical expert dispatching) 8 January - 7 February 2016(Short term technical staffs dispatching) 13 January - 5 March 2017(Short term technical staffs dispatching) 21 August 2017 - (A long term technical expert dispatching) 11 November 2017 - 11 November (Short term technical staffs dispatching) 25 February 2018 - 25 February (Short term technical staffs dispatching)
Main Organizer	JICA
Outline and Objectives	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. However, the water coverage rate remained at 70% (95% in city, 61% in village) in 2012 despite various supports from the Government of Japan. For this, the water supply sector in Timor Leste is still required continual supports to make the improvement of water supply system. In response to JICA, Chiba Prefectural Waterworks Bureau (CPWB) has been dispatching technical staffs to improve of water supply system in Timor Leste. (Dispatch of long term experts) -CPWB dispatched a technical staff in response to request from JICA for the Democratic Republic of Timor-Leste from April, 2012 through April 2015. The 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. -From July 2015 through July 2017, a second long term staff was dispatched. And since August 2017, a third long term staff has been dispatched and continuing to expand 24hours/7days water supply areas in Dili. -Details are as follows. i) Technical support of improvement of operating and the water quality chemical control of the water purification plant. ii)Technical support of improvement of water distribution system for 24hours/7days water supply district expansion. iii)Technical support of organization for administering water service business by independent profit. (Dispatch of short term staffs) -CPWB has dispatched total number of 21 technical staffs in short term since 2014. -Details are as follows, i)Technical support of water utility account based on Local public enterprise law, organizational formation. ii)Technical support of water quality check and chemical doses. iv)Technical support of operation of water supply facilities. v)Technical support of how to oparete the water leak detector and the metal detector. On March 2018, ambassador

Name of Organization

Chiba Prefectural Waterworks Bureau

Target (Cooperator) Countries

The Democratic Republic of Timor-Leste



Lecture at the National University of Timor-Leste(UNTL)



Short term technical staffs from CPWB and trainees of Timor-Leste

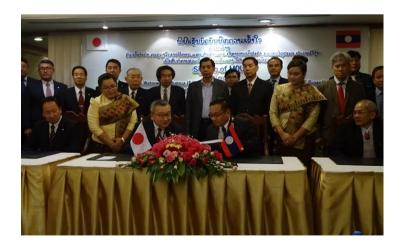
Name of Organization	Saitama City Waterworks Bureau
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Name of Activity	Capacity Development Project for Improvement of Management Ability of Water Supply Authorities
Implementation Period	18 June - 22 July 2017 (Dispatch 1 expert) 18 June - 19 August 2017 (Dispatch 2 experts)
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 dispatched short-term experts with Kawasaki City, Yokohama City and Saitama Prefecture. Saitama City's role in the project was mainly about pipeline network planning and business management. The short-term 3 experts of 2017 attended for final-seminar and carried out of evaluation for couterparts of this project.
Target (Cooperator) Countries	Laos / Vientiane Capital Water Supply State Enterprise, Luang Prabang Provincial Water Supply State Enterprise, Khammouane Provincial Water Supply State Enterprise



Name of Organization	Saitama City Waterworks Bureau
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Conclusion of the MOU between Saitama City Waterworks Bureau and Department of Water Supply, Ministry of Public Works and Transport of Lao PDR regarding Implementation of Cooperation aimed at Strengthening the Lao Water Supply Sector
26 December 2017
Saitama City Waterworks Bureau
Saitama City Waterworks Bureau(SCWB) has been continuously providing technical cooperation for Lao water supply sector since 1992. In December 2016, we concluded MOU. In the MOU, Vientiane Capital Water Supply State Enterprise(Vientiane Capital WSSE), Luang Prabang Province Water Supply State Enterprise(Luang Prabang Province WSSE) as a leader of northern part and Khammouane Province Water Supply State Enterprise(Khammouane Province WSSE) as a leader of southern part were added as members of the cooperation for improvement of whole water supply sector of Lao PDR. We shall actively cooperate with Lao water supply sector for further improvement from 2016 to 2021 based on the MOU. In December 2017, we concluded new MOU between SCWB and Department of Water Supply, Ministry of Public Works and Transport(DWS). In the new MOU, SCWB decided to implement or participate in the two JICA cooperation programs. And this MOU specifies details of the cooperation for the Lao Water Supply Sector by SCWB through collaboration with DWS, Vientiane Capital WSSE, Luang Prabang Province WSSE and Khammouane Province WSSE.
Laos /Department of Water Supply, Ministry of Public Works and Transport, Vientiane Capital WSSE, Luang Prabang Province WSSE, Khammouane Province WSSE



Name of Organization Public Enterprise Bureau, Saitama Prefectural Government

Name of Activity	The Project for Improving Water Treatment Plant Operations and Maintenance Management of the Water Supply State Enterprises
Implementation Period	January, 2016 - January, 2019
Main Organizer	Saitama Prefectural Government (JICA Partnership Program)
Outline and Objectives	The Public Enterprise Bureau, Saitama Prefectural Government, as the JICA Partnership Program, has carried out the technical assistance to improve operation, maintenance and water quality management abilities in the water purification plants under the jurisdiction of Water Supply State Enterprises in Laos , through the dispatch of engineers and the acceptance of trainees. OPurpose of Assistance We will aim for the sound operation of the water purification plant and supply of good quality water by improvement of technical abilities of Water Supply State Enterprises' staffs. Target of Assistance Water Purification Plants in Vientiane Capital, Luang Prabang and Khammouane OActivities Guidance for maintenance of chemical injection pump, calculation and control of the chemical injection amount, cleaning of filtration reservoir etc. <results 2017="" fy="" in=""> 1 Dispatch of Engineers First dispatch (June 6 - June 18, Luang Prabang): 3 engineers Second dispatch (September 3 - September 16, Khammouane): 3 engineers Third dispatch (December 3 - December 16, Vientiane Capital): 3 engineers Project policy discussion (July 10 - July 15, Vientiane Capital): 3 members 2 Acceptance of Trainees Lectures and field experiences (November 20 - December 1): 3 trainees</results>
Target (Cooperator) Countries	Department of Water Supply, Ministry of Public Works and Transport, Lao PDR



Activities in Luang Prabang



Activities in Khammouane

Name of Organization Public Enterprise Bureau, Saitama Prefectural Government

Name of Activity	Acceptance of Trainees from Provincial Waterworks Authority (PWA)
Implementation Period	February, 2018
Main Organizer	Saitama Prefectural Government
Outline and Objectives	After the completion of technical assistance to PWA by the JICA partnership program project (FY2011-2015), PWA strongly requested us to continue the support. In order to improve more advanced water technology in Thailand, we implemented technical assistance through acceptance of trainees. Training period February 6 - February 16, 2018 8 trainees (PWA Headquarter and regional office staff) Acquire specialized knowledge and skills regarding the following contents. Energy saving method in water purification plant - Facility management for space saving of water purification plant - Water quality monitoring equipment Water quality monitoring equipment Lecture, practical training and visit to water purification plant / companies related to waterworks Saitama Public Enterprise Bureau Transportation in Japan Interpretation for training Texts and other materials [PWA] Travel to Japan (Airfare) Accommodation in Japan (Hotel Charge) Per diem
Target (Cooperator) Countries	Provincial Waterworks Authority (PWA), Thailand







Visit to sludge treatment plant

	The JICA Training and Dialogue Programs
Name of Activity	Non-Revenue Water Management(Leakage Control) A
Implementation Period	13 September \sim 26 October 2017 (The training in Nagoya was 6 days)
Main Organizer	JICA
Outline and Objectives	This program aims to Capacity Development for Non Revenue Water management of Dvelopping countries engineers. The main training programs in Nagoya are as follows; Leakage Control in Nagoya Water Distribution Pipelines Renewal Planning Pipeline Design Field Training for Joining Water Pipes
Target (Cooperator) Countries	Marshall Islands, Uganda, Timor Leste, Malawi (2), Zimbabwe (2)



Name of Activity	The JICA Training and Dialogue Programs Non-Revenue Water Management(Leakage Control) B
Implementation Period	5 November \sim 16 December 2017
Main Organizer	JICA
Outline and Objectives	This program aims to Capacity Development for Non Revenue Water management of Dveloping countries engineers. The main training programs are as follows; Leakage Control in Nagoya Water Distribution Planning Water Distribution Pipelines Renewal Planning Pipeline Design Field Training for Joining Water Pipes Water Meter Readings Public Relations Site visits (Intake, Water Purification Plant, etc.)
Target (Cooperator) Countries	Egypt, Ethiopia, Guinea, Iraq, Malaysia (4), Peru, Rwanda



Name of Organization Hamamatsu City Water Services Department

Project	JICA Partnership program "Skills Support Regarding Leak Prevention Initiatives in Bandung City"
Implementation	Whole Project Term: March 2017 to July 2019
Main Organizer	Hamamatsu City Water Services Department
Outline and Objectives	The conclusion of the Letter of Intent (LOI) regarding exchange in areas such as Culture and Environment in December 2014 between Hamamatsu City and Bandung City as an opportunity, we are providing technical instruction on leak prevention measures as skills support for the reduction of non-revenue water in Bandung City. 1. Activities (FY2017): • The 1st delegation (July 9–23, 2017)
Target (Partner) Countries	Bandung City, Republic of Indonesia (PDAM Tirtawening Kota Bandung)





Name of Activity	Technical Exchange between SAWACO, BWACO and OMWB
Implementation Period	12th - 20th December 2017
Main Organizer	Osaka Municipal Waterworks Bureau (OMWB)
Outline and Objectives	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. Based on this agreement, OMWB has accepted SAWACO's staffs annually since FY 2010. In this year(2017), OMWB accepted 3 participants from SAWACO and 2 participants from BWACO* (Ba Ria - Vung Tau Water Supply JSC) between 12th to 20th December 2017, and conducted lectures, site visits and discussion. In the technical exchange, OMWB introduced the operation management of water supply network, the efforts utilizing ICT, the PR strategy etc. Issues on the SAWACO and BWACO were discussed as well, and OMWB advised solutions to solve them. *BWACO joined the technical exchange on referral from SAWACO.
Target (Cooperator)	"Vietnam (Saigon Water Corporation [SAWACO])
Countries	Vietnam (Ba Ria - Vung Tau Water Supply JSC [BWACO])"
Inc. i	,





Name of Activity	JICA knowledge co-creation Program
Implementation Period	10 July - 9 Aug, 2017
Main Organizer	Kyoto City, Osaka City
Outline and Objectives	In response to a request from JICA, Kyoto City Waterworks Bureau had carried out training course of "Maintenance of Urban Waterworks" jointly with the Osaka City for 2 months and accepted 9 participants from overseas countries. We mainly organized lectures and technical visits as follows; 1. Technical visit to Keage Purification Plant and Water Quality Management Center - Lecture about "The summary of purification facilities" - Training of water examination 2. Lecture about "Training for maintenance checkup and calibration of continuous water quality monitoring equipment" 3. Others - Needs discussion, Instruction for making action plan, etc
Target (Cooperator)	India, Nepal, Bangladesh, South Sudan, Egypt, Nigeria, Kenya, Azerbaijan,
Countries	Herzegovina (9 participants)
Photos	



Name of Organization	KOBE City Waterworks Bureau
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Name of Astivity	Mission of advisory committee of the project for "Strengthening NRW control in
Name of Activity	Kigali City Water Network"
Implementation Period	August 24 to 25,2017 November 28,2017
Main Organizer	JICA
	Based on request of JICA, Kobe City Waterworks Bureau performs the cooperation
	to techinological support in Rwanda as the Advisory Committee from 2016. Training in Kobe
	(1)Augsut 24-25,2017:5 staffs were invited to Japan.
	Contents:Kobe water supply system,Design for water rate system,Asset management, Mapping system
	(2)November 28,2017:5 staffs were invited to Japan.
Outline and Objectives	Contents:Kobe water supply system,SCADA System,Large-Capacity
	Transmission Main
Target (Cooperator) Countries	Rwanda





Name of Organization	KOBE City Waterworks Bureau
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Name of Activity	JICA knowledge co-creation Program "Operation and Maintenace of Urban Water
	Supply System (Water Quality and Purification) (B)"
Implementation Period	July 4 to August 4 ,2017
Main Organizer	JICA
Outline and Objectives	This training is aiming to foster engineers who are in charge of water quality and purification. 12 participants from 10 countries visited Kobe city in 2017. Throughout the program, participants develop their own action plans with our staffs to solve their problems. Main programs of the training course are as follows. Action Plan Development Water Treatment Method Maintenance of Machinery and Electrical Equipment Water Quality Management Operation and Maintenance of Water Purification Plant Water Safety Plan Study Tour of Facilities (Reservoir, Water Purification Plant, Pump Station and so on)
Target (Cooperator) Countries	Sri Lanka(2),Iraq(2),Myanmar,Rwanda,Ethiopia,Zimbabwe,Malawi,Tunisia,South Africa,Venezuela





Name of Organization	The City of Hiroshima Waterworks Bureau
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Name of Activity	JICA Operation and Maintenance of Urban Water Supply Systems Course B
Implementation Period	June 30 to August 8, 2017
Main Organizer	JICA
Outline and Objectives	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 48 trainees since receiving JICA Chugoku's request in 2013. Main Programs of Training Course: · Hydrologic Accounting · Operation and Maintenance of Purification Plants · Water Quality Management · Leak Prevention Training · Repair of Burst Water Pipes
Target (Cooperator)	Azerbaijan, Georgia, Honduras, Iraq, Laos, Malawi, Mozambique, Rwanda, Sri
Countries	Lanka, Venezuela, Vietnam [eleven participants in total]
la.	



Name of Organization Shimonoseki City Waterworks & Sewerage Bu	ureau
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Name of Activity	2017 Staff Exchange Program with Qingdao Water Group Co., Ltd.
Implementation Period	20 October - 16 October 2017
Main Organizer	Shimonoseki City Waterworks & Sewerage Bureau · Qingdao Water Group Co., Ltd.
Outline and Objectives	The cities of Shimonoseki and Qingdao have promoted friendly exchanges in a variety of fields since becoming friendship cities in 1979. As part of these activities, Shimonoseki City Waterworks & Sewerage Bureau and Qingdao Water Group CO., Ltd dispatch the staffs mutually from 2000. This staff exchange program is aiming to deepen friendly relations and improve water and sewerage technology in both cities.
Target (Cooperator) Countries	China·Qingdao Water Group Co., Ltd.

Name of Organization Fukuoka City Waterworks Bureau

Name of Activity	JICA Partnership Program: Project to support reducing Non-Revenue Water (NRW) through effective control on Nadi/Lautoka regional supply in Fiji
Implementation Period	March 2014 - July 2017
Main Organizer	JICA
Outline and Objectives	■ Summary/Purpose The Nadi/Lautoka region of Fiji is currently facing an issue of high NRW rates due to leakages, as well as other causes. As the region takes action to reduce its rate of NRW, Fukuoka City supported these efforts by: developing the abilities of Water Authority of Fiji (WAF) engineers in charge of planning and maintenance of distribution pipes transfering techniques related to leakage detection and prevention. Activities Fukuoka City Waterworks Bureau dispatched 8 officers to Fiji in FY2017, and provided advice and expertise throughout the entire project and its activities. The project was concluded within the same fiscal year. Following this, another project was launched to improve water supply service in the same district, beginning in January 2018.
Target (Cooperator) Countries	Water Authority of Fiji





Name of Organization	Fukuoka City Waterworks Bureau
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Name of Activity	JICA Partnership Program: Project to improve water supply services in the	
,	Nadi/Lautoka region, Fiji	
Implementation Period	January 2018 - January 2021	
Main Organizer	JICA	
	■Summary/Purpose	
	In light of the accomplishments of the first project in the JICA Partnership	
	Program, which concluded in July 2017, the second project was launched to assist	
	WAF in improving water supply services in the Nadi/Lautoka region. This included	
	water conservation awareness activities for service users, as well as a bolstering of	
	WAF engineers' capabilities regarding water supply control and leakage prevention.	
	This aims to support WAF in achieving 24-hour water supply service in the region.	
Outline and Objectives	■ Activities	
,	- Dispatch Fukuoka City officer(s) (3 times a year)	
	- Accept officer(s) from the counterpart organization (Once a year)	
	- Supply materials and equipment for waterworks	
	Fukuoka City performed the first site visit in FY2017, conducting a real water	
	usage survey and checking the status of the distribution reservoir.	
Target (Cooperator)	Water Authority of Fiji	
Countries	, ,	





Name of Activity	JICA Expert Yangon City Water Supply & Sanitation Advisor
	rangon City water Supply & Sanitation Advisor
Implementation Period	August 2015 - August 2017
Main Organizer	JICA
Outline and Objectives	■ Summary/Purpose To improve capacity of Yangon City Development Committee (YCDC) for planning and implementation of water service improvement projects. To accelerate efforts to fulfil the 'Water Vision' and 'Master Plan' for water supply services. To enhance coordination in water supply and sanitation activities in Yangon City. ■ Activities I) Information-sharing with the persons in charge of water supply in Yangon 2) To advise YCDC and its Water & Sanitation Department on how to develop and improve water supply services based on the Master Plan 3) To advise and assist officials of YCDC and its Water & Sanitation Department to coordinate with other concerned Ministries/Departments, Donors, INGOs, and private companies To share the experience and knowledge of Yangon with other Municipalities and the Township Development Committee, providing necessary advice 5) To consider future Japanese assistance programs
Target (Cooperator) Countries	Yangon City Development Committee, Myanmar





Name of Organization Fukuoka City Waterworks Bureau

Name of Activity	JICA Group and Region Focused Training: Non-Revenue Water (NRW) Management (Leakage Control)
Implementation Period	July 6, 2017 - August 3, 2017
Main Organizer	JICA
Outline and Objectives	■Summary/Purpose Less developed countries tend to have a higher NRW rate due to a shortage of waterworks engineers. · Accept officers as JICA Group and Region Focused Trainees, and transfer Fukuoka City's expertise and techniques on waterworks as a way to contribute to improving those countries' water supply environment · Develop capacities of the engineers in Fukuoka City through international cooperation activities and improve their technical standards by accumulating activities ■ Activities · Lectures: Fukuoka City Waterworks management, NRW reduction measures, pipe planning and maintenance, water meter controls, etc. · Site visits: Dams, waterworks facilities, areas for laying distribution pipes, etc. · Support: Creating actions plans
Target (Cooperator) Countries	Nigeria (1 person), Namibia (2 persons), Morocco (2 persons), South Africa Republic (2 persons)





Name of Organization Fukuoka City Waterworks Bureau

Name of Activity	Council of Local Authorities for International Relations (CLAIR): Local Government Officials Training Program (LGOTP)
Implementation Period	June - November 2017
Main Organizer	Council of Local Authorities for International Relations (CLAIR)
Outline and Objectives	■ Summary/Purpose Through LGOTP, Fukuoka City accepted YCDC engineers as trainees and transfers techniques and expertise: • To improve management and maintenance of waterworks system of YCDC • To strengthen relations between Fukuoka City and YCDC ■ Activities Training examples: • Lectures: Overall management of waterworks and sewage in Fukuoka City • Site visits: Dams, water intake facilities, water purification plants, distribution pipe installation sites, etc. • Practical training: Operations and maintenance training at water purification plants and pumping facilities, water control activities, welding of water distribution pipes at Fukuoka City's training facility, etc. • Support: Creating action plans Accepted 2 waterworks engineers from Yangon City Development Committee and provided trainings in FY2017
Target (Cooperator) Countries	Yangon City Development Committee, Myanmar





Name of Organization	Fukuoka City Waterworks Bureau
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Name of Activity	JICA Technical Cooperation Project: Project for Improvement of Water Supply Management of YCDC
Implementation Period	2015 - 2020
Main Organizer	JICA, TEC International, TSS Tokyo Water, Public Utility Services Center, Fukuoka City Waterworks Bureau, Tokyo Metropolitan Government Bureau of Waterworks
Outline and Objectives	■ Summary/Purpose In Yangon, while construction of waterworks facilities utilizing yen loans is underway, JICA is also conducting a technical cooperation project associated with yen loan ventures, to strengthen the organizational capacity of the YCDC in parallel with facility construction for securing sustainable water supply service. The Tokyo Metropolitan Government Bureau of Waterworks and Fukuoka City Waterworks Bureau participated as supporting members and provided technical advice throughout the project as water suppliers. ■ Activities The Tokyo Metropolitan Government Bureau of Waterworks and the Fukuoka City Waterworks Bureau conduct regular seminars and training in both Yangon and Japan. In FY2017, Fukuoka City dispatched 4 officers as lecturers to Yangon City for the Myanmar and Japan Waterworks Joint Seminar.
Target (Cooperator) Countries	Yangon City Development Committee, Myanmar





Name of Organization	Okinawa Prefecture Enterprise Bureau
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Name of Activity	Water Conservation Management in Island Areas
Implementation Period	6th July to 10th August, 2017
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 8th year and 88 trainees have participated in this training so far.)
Target (Cooperator) Countries	Marshall Islannd(2),Micronesia(3),Samoa(2), Tonga(2)

Name of Organization	Okinawa Prefecture Enterprise Bureau
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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	Japan Water Works Association
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Name of Activity	Knowledge Co-Creation Program "Comprehensive Engineering on Water Supply Systems (A)"
Implementation Period	15 May- 14 July, 2017
Main Organizer	JICA
Outline and Objectives	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 midlevel waterworks engineers from developing countries. 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 618 trainees from more than 100 countries and regions have participated. Main programs of the training course are as follows. •Water intake, reservoir, distribution facilities •Jar test (Optimization of coaguration) •Leak prevention •Exercise on basic planning of water supply systems •Hydraulic Calculation of Water Treatment Plant •Water Safety Plan •Visit to Polyethylene Pipe Manufacturing Factory •Sound Management of Urban Water Operator etc. [Reference] http://www.jwwa.or.jp/jigyou/kaigai_03.html#8
Target (Cooperator)	CAMBODIA, AFGHANISTAN(2), IRAQ, RWANDA, ZAMBIA, PERU(2) (TOTAL 8
Countries	participants)
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