

Name of Organization	Waterworks Bureau, City of Sapporo
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Name of Activity	JICA Knowledge Co-Creation Program "Comprehensive Engineering on Water Supply Systems : Practical Training for Water Supply System(B)"
Implementation Period	13 August - 17 September, 2021 11 January - 1 March, 2022
Main Organizer	JICA Hokkaido, Sapporo Waterworks Bureau, Sendai City Waterworks Bureau, etc.
Outline and Objectives	<p>This course aims to develop engineers who can play a leading role in the operation of water supply facilities or water supply business in order to solve the problems they are facing in their water supply business.</p> <p>It is designed for mid-career waterworks engineers from developing countries, and includes lectures on all aspects of waterworks technology, site visits, and practical training over a period of about two months.</p> <p>Due to the impact of COVID-19 pandemic, the program was postponed in FY2020, and was conducted online twice in FY2021.</p> <p>[Main programs of this training course]</p> <ul style="list-style-type: none"> •Waterworks Planning (video material) •Operation and Management of WPP (video material) •Jar Test (video material) •Water Quality Management (live streaming) •Distribution Pipe Installation Plan (video material) •Leak Prevention (video material) •Water Demand Forecasting (video material) •Water Charge System (video material) •Discussion (live streaming) •WPP Field Trip (VR material) •Q&A session for training materials (live streaming) •Guidance on making action plan (live streaming), etc.
Target (Cooperator Countries)	Egypt, Ethiopia, Kenya, Morocco, Sudan, Bhutan, Cambodia, Peru, Sri Lanka, Nepal (15 trainees in total)

Photos

Our staff member answering for questions from JICA trainee



Group photo at the closing ceremony

Name of Organization	Waterworks Bureau, City of Sapporo
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Name of Activity	JICA Partnership Program: Project to systematize water supply and Distribution system Management in Pokhara, Nepal
Implementation Period	Feb 2022 - Jan 2025
Main Organizer	JICA Hokkaido, Sapporo Waterworks Bureau, Sapporo water service association, etc.
Outline and Objectives	<p>【Outline】 The project aims to train Nepalese engineers and enable them to systematically perform leakage response and water quality management tasks in a model district in Pokhara, Nepal. For the first year and a half of the project period, we will conduct online trainings and discussions using online meeting tools. After that, when the COVID-19 is under control, we plan to travel back and forth between each other's countries to conduct practical training and site visits.</p> <p>【Project purpose】 The necessary tasks for maintaining and managing the quality and quantity of water supply are carried out systematically and continuously.</p> <p>【Activities in FY2021】 <ul style="list-style-type: none"> •Preparation of questionnaire sheets for current situation survey (water leakage response/water quality management) •Holding "Kick-off Ceremony" for the project by connecting to Nepal via the internet. </p>
Target (Cooperator) Countries	Nepal (Nepal Water Supply Corporation)

Photos

【The scene of kick-off ceremony】



Explanation of project overview



Conclusion of memorandum of understanding between Sapporo Waterworks Bureau and Nepal Water Supply Corporation

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	2015-2021
Main Organizer	JICA, Tokyo Waterworks Bureau, Fukuoka City Waterworks Bureau, Tokyo Water Co.,Ltd., and etc.
Outline and Objectives	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 strengthen 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.
Target (Cooperator) Countries	Myanmar Yangon City Development Committee

Photos



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 Bureau, 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 in order from the district where infrastructure development is completed.
Target (Cooperator) Countries	Myanmar Yangon City Development Committee

Photos

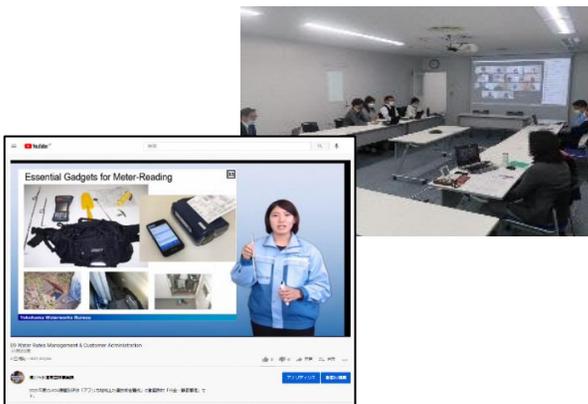


Name of Organization	Bureau of Waterworks, Tokyo Metropolitan Government
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Name of Activity	Asian Waterworks Utilities Network of Human Resources Development (A1-HRD)
Implementation Period	20 October 2021
Main Organizer	Bureau of Waterworks, Tokyo Metropolitan 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: -Annual conference on HRD which includes presentation and Q&A session, sharing of ideas, open discussion and technical site visits. -Sharing ideas on HRD through Newsletters and a website.</p> <p>Due to the influence of COVID-19, the 14th conference in 2021 was held online.</p>
Target (Cooperator) Countries	<p>Korea : The Office of Waterworks, Seoul Metropolitan Government (Seoul Water) K-water Academy</p> <p>Taiwan : Taiwan Water Corporation (TWC),</p> <p>Thailand : Metropolitan Waterworks Authority, Thailand (MWA)</p> <p>Vietnam : Ho Chi Minh city college of construction (HCC)</p> <p>Bangladesh : Dhaka Water Supply and Sewerage Authority (Dhaka-WASA)</p> <p>Japan : Bureau of Waterworks, Tokyo Metropolitan Government</p>

Photos



Name of Organization	Yokohama Waterworks Bureau, City of Yokohama
Name of Activity	JICA Knowledge Co-creation program "African Region Urban Waterworks Engineering"
Implementation Period	September 27th to October 28th , 2021
Main Organizer	JICA, Yokohama Water Co.,Ltd., Yokohama Waterworks Bureau (YWWB)
Outline and Objectives	<p>Responding to the 4th Tokyo International Conference on African Development (TICAD IV) held in Yokohama in May 2008, Yokohama Waterworks Bureau (YWWB) contracted with JICA to implement a training course called "Knowledge Co-creation Program" for waterworks professionals from African countries. By the end of JFY 2019, YWWB implemented this course 13 times and accepted 133 participants from 30 countries in Africa.</p> <p>In Africa, many countries still have problems with water supply, which are also featured in the TICAD every time. Many of the African countries participating in this course are confronted with the challenges of high NRW ranging from 30 to 50% due to water leakage, illegal connection etc.</p> <p>YWWB offered a variety of lectures and practices in the technical fields such as: water purification and quality management, distribution management, water supply planning and O&M, also in the administrative fields like water tariff, customer services and financial planning. During this training course, all the participants made their action plans to solve their own issues based on what they learned in the lectures and practices, and brought them back to their countries to make a real difference on the ground.</p> <p>Contents of training program in JFY 2021:</p> <p>Due to the Covid-19 pandemic, the participants could not visit Japan in JFY 2021, same as the previous year. Under such a circumstance, YWWB delivered an online training program. Considering a time difference among the participants, we created seventeen video contents, each of which is composed of 20-30 minutes lecture, and uploaded them to the online video platform. To supplement the online learning, we also set weekly Q and A sessions through Zoom meetings. In addition to these, YWWB newly conducted an online water purification plant tour.</p>
Target (Cooperator) Countries	In 2021, YWWB accepted 8 participants: Ethiopia (1), Kenya (2), Madagascar (1), Malawi (1), Rwanda (1), Sudan (1) and South Sudan (1)
Photos	
	
Video lecture and Q&A webinar	Broadcast of online water purification plant tour

Name of Organization	Yokohama Waterworks Bureau, City of Yokohama
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Name of Activity	JICA Technical Cooperation Project "The Project for Strengthening the Capacity of Non-Revenue Water Reduction for Lilongwe Water Board(LiSCaP)" in Malawi
Implementation Period	June 2019 to April 2024
Main Organizer	JICA, Yokohama Water Co.,Ltd., Kyowa Engineering Consultants Co.,Ltd Yokohama Waterworks Bureau (YWWB)
Outline and Objectives	<p>Yokohama Waterworks Bureau (YWWB) has dispatched a long-term expert (Chief Advisor) to Lilongwe, the capital city of Malawi, since June 2019 to support JICA Technical Cooperation Project "The Project for Strengthening the Capacity of Non-Revenue Water Reduction for Lilongwe Water Board (LiSCaP)".</p> <p>YWWB also collaborates with Kyowa Engineering Consultants Co., Ltd. and Yokohama Water Co., Ltd., members of the Yokohama Water Business Association. This "Team Yokohama" is now working on improving water supply business by supporting LWB for their strategic planning, methods and knowledge sharing for reducing non-revenue water (NRW) due to leakage, illegal connection, etc.</p> <p>Contents of technical cooperation in JFY 2021:</p> <p>During the JFY 2020, JICA Expert team had supported the project remotely from Japan due to COVID-19, however, returned to the site in May 2021 and resumed project activities.</p> <p>In June, a workshop was held for five water supply utilities nationwide in order to expand the project results to other utilities. In November, NRW reduction Strategy was developed and approved in Lilongwe Water Board.</p> <p>YWWB implemented the online training for the staff of LWB from January 12th to February 4th, and supporting the project.</p>
Target (Cooperator) Countries	Lilongwe Water Board(LWB) , Malawi

Photos



Instructing the NRW Reduction Strategy Development



Expert's instruction for setting water meter

Name of Organization	Yokohama Waterworks Bureau, City of Yokohama
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Name of Activity	Technical Exchanges based on Memorandum of Understanding between Water and Sanitation Agency of Faisalabad in Pakistan and Yokohama Waterworks Bureau
Implementation Period	From October 2019 to the present (Update every fiscal year)
Main Organizer	Yokohama Waterworks Bureau
Outline and Objectives	<p>Yokohama Waterworks Bureau (YWWB) had supported a JICA Technical Cooperation for Development Planning “The Project for Water Supply, Sewerage and Drainage Master Plan of Faisalabad” through Yokohama Water Co., Ltd., (July 2016 - June 2019). During this project, YWWB received a request from the Managing Director of Water and Sanitation Agency of Faisalabad (WASA-F) for the further cooperation between the city governments. In order to contribute to human resources development and water business promotion for both the cities, YWWB and WASA-F signed a MoU on technical exchange in October 2019, and conducted two training sessions.</p> <p>Contents of MoU</p> <p>(1) Trainee acceptance from WASA-F (once a year, 4 staff members, 2 weeks) (2) YWWB staff’s dispatch to WASA-F for a follow-up of the training (upon necessity) (3) Introduction of products and technologies of the Yokohama Water Business Association (YWBA) member companies</p> <p>Contents of training program in JFY 2021:</p> <p>Amid the covid-19 pandemic, in JFY2021, YWWB held the following online seminar to substitute a training acceptance in Yokohama. Shifting to online allowed Lahore, the capital of Punjab state, to join the seminar. <Online seminar (September 15-16th, 2021)></p> <ul style="list-style-type: none"> -Discussion on four themes; 1) GIS/drawing management, 2) water tariff/customer management, 3) water safety plan and 4) water demand forecasting - Business-matching with three member companies of Yokohama Water Business Association. (Three Pakistani companies also participated in this webinar.)
Target (Cooperator) Countries	Water and Sanitation Agency Faisalabad (WASA-F) and Water and Sanitation Agency Lahore (WASA-L), Pakistan

Photos



Ceremony for conclusion of MoU (JFY2019)



Online seminar participants (JFY2021)

Name of Organization	Waterworks Bureau, City of Kawasaki
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Name of Activity	The Project for Improvement of Management Capacity of Water Supply Sector (MaWaSU 2)
Implementation Period	May 21, 2018 - December 27, 2020 (Dispatch long-term expert / predecessor) November 14, 2020 - (Dispatch long-term expert / successor)
Main Organizer	JICA
Outline and Objectives	This Project is purpose to "The foundation necessary for strengthening the water supply sector management system and Water Supply State Enterprise's(W SSE) capacity is formulated" to achieve Lao national goals. The term of the project is from 2018 to 2023, we dispatch long-term and short-term engineers. Besides, we concluded an agreement among JICA and 4 local governments (Saitama City, Saitama Prefecture, Yokohama City) including Kawasaki City participating in the project in order to work in close cooperation.
Target (Cooperator) Countries	Department of Water Supply (DWS), Ministry of Public Works and Transport (MPWT) of Lao PDR / DWS of MPWT, Vientiane Capital Water Supply State Enterprise (NPNL), Luang Prabang Provincial Water Supply State Enterprise (NPLB) and Khammouane Provincial Water Supply State Enterprise (NPKM) as the pilot water supply state enterprises (WSSEs), Department of Public Works and Transport (DPWT)s of Vientiane Capital, Luang Prabang, Khammouane and WSSEs and DPWTs of other provinces

Photos




Name of Organization	Public Enterprises Agency of Kanagawa Prefectural Government
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Name of Activity	MOU with Lang Son Province, Vietnam
Implementation Period	November 2018 - December 2025
Main Organizer	Public Enterprises Agency of Kanagawa Pref. Government (PEA-KPG)
Outline and Objectives	<p>PEA-KPG signed "MOU on Consideration of the Possibility of a Cooperative Relationship in the Field of Water Supply" with Lang Son Province, Vietnam in 2017 to consider methods and contents of cooperation. In response to the counterpart's suggestion posed during the discussion to proceed an approach to decrease non-revenue water, we developed the MOU to "MOU on Technical Cooperation in Water Supply" in 2018. Based on the new MOU, PEA-KPG started sending our personnel in a short term for training and field study jointly with staffs of Lang Son Water Supply and Drainage JSC mainly on water volume management, as well as continuing training programs in Kanagawa.</p> <p>In FY2021, mutual dispatch of personel was not carried out because of COVID-19. Analysis of water transmission volume and network were conducted through e-mails and online meeting.</p> <p>Practice in FY2021</p> <ul style="list-style-type: none"> Records of water transmission volume in the pilot area: <ul style="list-style-type: none"> monthly from April to March Exchange of Q & A on transmission, network, etc. Making lecture videos about how to minimize non-revenue water Online meeting about non-revenue water
Target (Cooperator) Countries	Lang Son Water Supply and Drainage JSC

Photos



Name of Organization	Chiba Prefectural Public Enterprises Bureau
Name of Activity	Dispatch Experts to The Democratic Republic of Timor-Leste
Implementation Period	<p>30 April 2012 - 29 April 2015 (Long term technical expert dispatching) 19 May - 15 June 2014(Short term technical experts dispatching) 27 July 2015 - 26 July 2017 (Long term technical expert dispatching) 26 October - 4 November 2015(Short term technical experts dispatching) 8 January - 7 February 2016(Short term technical experts dispatching) 13 January - 5 March 2017(Short term technical experts dispatching) 21 August 2017 - 20 August 2019 (Long term technical expert dispatching) 11 November - 19 November 2017 (Short term technical experts dispatching) 2 February - 25 February 2018 (Short term technical experts dispatching) 25 January - 17 February 2019 (Short term technical experts dispatching) 25 July 2019 - 25 July 2020 (Long term technical expert dispatching)</p>
Main Organizer	JICA
Outline and Objectives	<ul style="list-style-type: none"> •The government of the Democratic Republic of Timor-Leste (RDTL) set a goal aiming safe and clean water supply for all and 24/7 water supply especially in 12 urban cities by 2030. •However, the water coverage rate was still at 70% (95% in urban, 61% in rural area) as of 2012 despite various supports from the Government of Japan. •Therefore, the water supply sector of RDTL has been in need of continuous supports in order to improve the water supply system. •In response to JICA's request, Chiba Prefectural Public Enterprises Bureau (CPPEB) has been dispatching technical experts to improve water supply system in RDTL. <p>【Dispatch of long term experts】</p> <ul style="list-style-type: none"> •CPPEB dispatched four technical experts to RDTL from April 2012 through July 2020 in response to JICA's request. •The experts have improved water supply with staffs of the water sector in RDTL and achieved 24/7 water supply in some areas. *In 2021,due to the spread of COVID-19,CPPEB remotely provided technical cooperaton for the technical cooperation project which was commenced by JICA in November 2021. <p>(Detail activities are as follows.)</p> <ol style="list-style-type: none"> i) Technical support for operation and water quality control improvement in water purification plants. ii)Technical support for improvement in water distribution system for 24/7 water supply district expansion. iii)Support for administering water service business by independent accounting. <p>【Dispatch of short term experts】</p> <ul style="list-style-type: none"> •CPPEB has dispatched 25 technical experts in total as short term experts since 2014. <p>(Detail activities are as follows)</p> <ol style="list-style-type: none"> i)Support for administration and management of the organization. ii)Technical support for the efficient water supply system and understanding of non-revenue water. iii)Technical support for water quality check and chemical doses. iv)Technical support for operation and maintenance of water supply facilities. v)Technical support for usage of water leak detector and metal detector.
Target (Cooperator) Countries	Democratic Republic of Timor-Leste
Photos	
	
Instructions to RDTL staffs on how to repair water leaking	Discussion on how to replace water facilities

Name of Organization	Saitama City Waterworks Bureau
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Name of Activity	The Project for Improvement of Management Capacity of Water Supply Sector of Lao PDR (MaWaSU2)
Implementation Period	May 2018 ~ December 2023
Main Organizer	JICA
Outline and Objectives	<p>This project is to contribute to formulate the foundation necessary for strengthening the water supply sector management system and Waterworks operation ability of Water Supply State Enterprise(W SSE) .3 pilot W SSEs practice to the other W SSEs in Laos toward to improve water supply served population. We dispatch experts with Kawasaki-city,Yokohama-city and Saitama-prefecture.</p> <p>【FY2021 Dispatch experts】 21st May 2018 ~28th May 2021 (Long-term expert[Chief advisor]:1 staff) 8th May 2021 ~20th December 2023 (Long-term expert[Chief advisor]:1 staff)</p> <p>【Detail about JICA technology cooperation project】 MaWaSU1 ⇒https://www.jica.go.jp/project/english/laos/012/index.html MaWaSU2 ⇒https://www.jica.go.jp/project/english/laos/023/index.html</p>
Target (Cooperator) Countries	Laos / Department of Water Supply , Ministry of Public Works and Transport 、 Pilot W SSEs(Vientiane Capital , Luang Prabang Provincial , Khammouane Provincial) and Department of Public Works and Transport(DPWT) 、 other provinces W SSE and DPWT

Photos




Name of Organization	Saitama City Waterworks Bureau
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Name of Activity	The Project for Improvement of Pipeline Management and Maintenance in Water Supply State Enterprises of Lao PDR
Implementation Period	June 2018 ~ March 2023
Main Organizer	JICA
Outline and Objectives	<p>This project is to contribute technical development for improvement about pipe construction management ,pipe construction standards, pipe selection and management toward to reduce water leakage through dispatch staff and trainee acceptance .</p> <p>[FY2021 Activity] Online support activity (support for creating 3manuals:pipe laying manual, water service installation manual, material and equipment management manual) ※8 times Participants:Vientiane Capital Water Supply State Enterprise(W SSE), Luang Prabang Provincial W SSE, Khammouane Provincial W SSE (64 person in total) Reported the achivement at the reporting seminar of Project for Improvement of Management Capacity of Water Supply Sector(MaWaSU2). ※Online Participants:Department of Water Supply , Ministry of Public Works and Transport, all 18 Department of Public Works and Transport and all 18 W SSES.</p>
Target (Cooperator) Countries	Laos / Department of Water Supply , Ministry of Public Works and Transport 、 Vientiane Capital W SSE, Luang Prabang Provincial W SSE, Khammouane Provincial W SSE

Photos



Name of Organization	Nagoya City Waterworks and Sewerage Bureau
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Name of Activity	JICA Technical Cooperation Project "The Project for Enhancement of Operational Efficiency and Asset Management Capacity of Regional Support Center-Western South of NWSDB in Sri Lanka"
Implementation Period	1 September 2018~ 31 August 2021
Main Organizer	JICA
Outline and Objectives	<p>Nagoya City Waterworks and Sewerage Bureau dispatches experts and conducts training in Japan, in cooperation with JICA Technical Cooperation Project to enhance the pipelines management work in National Water Supply and Drainage Board (NWSDB) in Sri Lanka since fiscal 2018.</p> <p>In fiscal 2021, regular web meetings were held with relevant parties and project activities were progressed.</p> <p>In September 2021, JICA's evaluation survey conducted a terminal evaluation of the project, and Nagoya City generally achieved its goals for Output 2 and Output 3, for which it was responsible, and received a high evaluation.</p>
Target (Cooperator) Countries	National Water Supply and Drainage Board : NWSDB

Photos



Name of Organization	Nagoya City Waterworks and Sewerage Bureau
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Name of Activity	JICA Partnership Program "PROJECT FOR ENHANCEMENT OF MEASURES AGAINST EARTHQUAKE OF WATER SUPPLY AND SEWERAGE IN MEXICO CITY"
Implementation Period	3 February 2020 ~ 30 September 2022
Main Organizer	Nagoya City Waterworks and Sewerage Bureau
Outline and Objectives	<p>Nagoya City Waterworks and Sewerage Bureau has implemented JICA Partnership Program with Mexico City in February 2020 for enhancement of measures against earthquake of water supply and sewerage. We dispatches experts and conducts training in Japan.</p> <p>Although the dispatch of experts and training in Japan were postponed in fiscal 2021 because of COVID-19, regular web conferences were held with relevant parties and project activities made progress. In November 2021, an interim debriefing meeting was held online with the attendance of senior officials from related organizations to review the progress of the project and to confirm future implementation details.</p>
Target (Cooperator) Countries	<p>Mexico City Waterworks and Sewerage Bureau(SACMEX)</p> <p>Mexico City Integrated Risk Management and Civil Protection Agency(SGIRPC)</p>

Photos



Name of Organization	Osaka Municipal Waterworks Bureau (OMWB)
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Name of Activity	Technical Exchange between SAWACO,DOWACO and OMWB
Implementation Period	March 24th-25th 2022
Main Organizer	Osaka Municipal Waterworks Bureau (OMWB)
Outline and Objectives	<p>In December 2009, OMWB concluded a "Technical Partnership Agreement" with the Saigon Water Corporation (SAWACO), water supplier Ho Chi Min City with the aim of promoting friendly relations and providing mutual support for solving problems. Since then, we have held a technical exchange and taken in trainees from Vietnam annually.</p> <p>In December 2021, OMWB, SAWACO and Dong nai Water Joint Stock Company (DOWACO) which supply water in Dong nai Province neiboring Ho Chi Min City newly signed "Technical Partnership Agreement"</p> <p>The technical exchange in March 2022 was the first one based on the agreement among the three parties, but due to COVID-19 pandemic, it was conducted as a web meeting.</p> <p>In this technical exchange, the improvement of water quality and prevention of water leakage in the water source, water purification, and water supply and distribution processes, which are issues for SAWACO and DOWACO were discussed.</p> <p>In the first part of each day, OMWB explained the analytical results of the issues based on the data provided by SAWACO and DOWACO and proposed possible measures, and had discussion between three parties. In the second part, some company registered under the "OMWB Overseas Water Business Partner Program" explained about technologies and products that could be applied to the measures proposed by OMWB.</p> <p>More than 100 people, including staff of affiliate of SAWAKO and DOWACO, participated and the discussion throughout 2 days was very meaningful.</p>
Target (Cooperator) Countries	Saigon Water Corporation (SAWACO), Dong Nai Water Supply Joint Stock Company (DOWACO) ,Vietnam

Photos



Name of Organization	Kyoto City Water Supply and Sewerage Bureau
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Name of Activity	JICA Knowledge Co-Creation Program "Operation and Maintenance of Urban Water Supply System (Water Quality and Purification) (A)"
Implementation Period	17 Jan - 14 Feb , 2022
Main Organizer	JICA Kansai
Outline and Objectives	<p>In collaboration with Nara City, we provided online training for 9 trainees.</p> <p>In order to help the trainees solve problems in their work, we checked the actual situation of their organizations and problems in their work, and gave them advice on how to solve their problems.</p>
Target (Cooperator) Countries	Bangladesh, Laos, Nepal, Zimbabwe

Photos



Name of Organization	KOBE City Waterworks Bureau
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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	2022年1月11日~2月10日
Main Organizer	JICA-Kansai
Outline and Objectives	<p>This training is aiming to foster engineers who are in charge of water quality and purification. 13 participants from 9 countries joined this program in 2021. Based on on-demand classes and Q&A session online with training instructors, participants made an Action Plan aiming to solve the problems each of their countries have.</p> <p>Main programs of the training course are as follows.</p> <ul style="list-style-type: none"> • Make and Report a Country Report • Training Program (on-demand class) • Make and Report an Action Plan • Q&A session
Target (Cooperator) Countries	Sri Lanka, Cambodia, Eritrea, Zimbabwe, Egypt, South Sudan, Haiti, Malawi, Lebanon

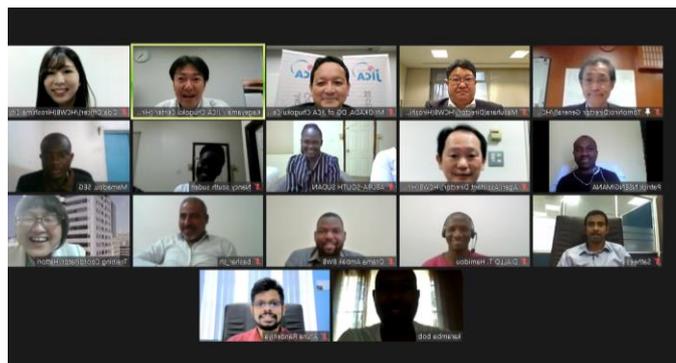
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Name of Organization	The City of Hiroshima Waterworks Bureau
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Name of Activity	JICA Operation and Maintenance of Urban Water Supply Systems Course B
Implementation Period	October 27 to November 26, 2021
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 76 trainees since receiving JICA Chugoku's request in 2013.</p> <p>Main Programs of Training Course:</p> <ul style="list-style-type: none"> •Hydrologic Accounting •Operation and Maintenance of Purification Plants •Water Quality Management •Leak Prevention Training •Waterworks Facilities Information Management System
Target (Cooperator) Countries	Guinea,Malawi,Mozambique,Palestine,Rwanda,South Sudan,Sri Lanka [eleven participants in total]

Photos



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(second project)
Implementation Period	January 2018- March 2022
Main Organizer	JICA
Outline and Objectives	<p>■ Summary/Purpose In light of the accomplishments of the first project of the JICA Partnership Program, which concluded in July 2017, a second project was launched to assist the 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 the WAF engineers' capabilities regarding water supply control and leakage prevention. This aims to support the WAF in achieving 24-hour water supply service in the region.</p> <p>■ Activities • Remote support through online conferencing</p> <p>During FY2021, investigations and repairs of water leakage in the Nadi region were supported remotely through web conferences to improve the non-revenue water rate. Remote support was also provided to educate training instructors and to raise the water conservation awareness of service users.</p>
Target (Cooperator) Countries	Water Authority of Fiji

Photos




Name of Organization	Fukuoka City Waterworks Bureau
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Name of Activity	JICA Expert Yangon City Water Administration & Supply Advisor
Implementation Period	December 2018–December 2021
Main Organizer	JICA
Outline and Objectives	<p>■ Summary/Purpose</p> <p>Yangon City is the largest city in Myanmar with a population of over 5.6 Million. Along with its further economical development and population increase, the demand for water has increased. Improving the water service is an urgent matter for the city to attend to.</p> <p>Due to this, the Myanmar government requested the Japanese government to dispatch experts to advise and support the water administration. Based on JICA's request, Fukuoka City Government dispatched its own officers to Yangon City to offer advice on water administration and to work on maintaining and renovating the water distribution pipe system.</p> <p>■ Activities</p> <p>1. Maintenance/renovation of water distribution pipe system:</p> <ol style="list-style-type: none"> 1) To analyze the current water distribution pipe system and identify any issues 2) To advise on maintenance & renovation planning, designing, construction management of the water distribution pipe system 3) To advise on appropriate maintenance management of water distribution pipe system 4) To make the Water Vision a reality and apply development policies & plans <p>2. Waterworks administration</p> <ol style="list-style-type: none"> 1) To analyze current policies and planning related to the YCDC waterworks management at the national, state & city levels 2) To advise the YCDC in order to improve policy, plan & system at the national, state & city levels 3) To advise/support concerned Ministries/Departments 4) To support in future Japanese assistance programs 5) To share the experience and knowledge of waterworks projects with other municipalities and the Township Development Committee, providing necessary advice

Target (Cooperator) Countries	Yangon City Development Committee, Myanmar
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Photos




Name of Organization	Japan Water Works Association
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Name of Activity	JICA Knowledge Co-Creation Program "Comprehensive Engineering on Water Supply Systems:Basic Planning and Design for Water Supply System (A)"
Implementation Period	4-18 November, 2021
Main Organizer	JICA
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. This is our 54th time providing this program. The total number of participants are 653 from more than 100 countries and regions in the long history.</p> <p>Due to the pandemic of COVID-19, the program implemented online only. Participants actively participated in lectures, online Field Study, discussions and presentations, and they learned Non-Revenue Water countermeasures intensively.</p> <p>Main programs of the training course are as follows.</p> <ul style="list-style-type: none"> •Outline of Water Supply in Japan •Water Leak Detection and Prevention •Leak detection/ prevention •Improvement Plan of Revenue Ratio •Sound Management of Urban Water Operator <p>[Reference] http://www.jwwa.or.jp/english/en_04.html</p>
Target (Cooperator Countries)	CAMBODIA, MARSHALL ISLANDS, PERU, LEBANON, TIMOR-LESTE, RWANDA, LAOS (Total 11 participants and 2 observers)

