



Knowledge Co-Creation Program (Group & Region Focus)

GENERAL INFORMATION ON

**WATER RELATED DISASTER MANAGEMENT
(PREPAREDNESS, MITIGATION AND RECONSTRUCTION)**

課題別研修「水災害被害の軽減に向けた対策」

JFY 2017

NO. J17-04034 / ID. 1784838

Course Period in Japan: From May 14th, 2017 to June 10th, 2017

This information pertains to one of the JICA Knowledge Co-Creation Program (Group & Region Focus) of the Japan International Cooperation Agency (JICA), which shall be implemented as part of the Official Development Assistance of the Government of Japan based on bilateral agreement between both Governments.

'JICA Knowledge Co-Creation Program (KCCP)' as a New Start

In the Development Cooperation Charter which was released from the Japanese Cabinet on February 2015, it is clearly pointed out that *"In its development cooperation, Japan has maintained the spirit of jointly creating things that suit partner countries while respecting ownership, intentions and intrinsic characteristics of the country concerned based on a field-oriented approach through dialogue and collaboration. It has also maintained the approach of building reciprocal relationships with developing countries in which both sides learn from each other and grow and develop together."* We believe that this 'Knowledge Co-Creation Program' will serve as a center of mutual learning process.

I. Concept

Background

Water related disasters have caused serious damage worldwide in recent years. Followed by rapid global warming, it is expected that climate change will further aggravate the impacts of those disasters particularly in developing countries. It is a pressing need for those countries to enhance their knowledge and capacities for effective disaster management in order to confront water related disasters and mitigate the damage.

Japan has long accumulated its know-how on flood control and disaster management through the past experience. The Hyogo Framework for Action, which was adopted in 2005, calls for capacity building of high disaster risk countries, while stressing the importance of enhancing international/regional support for those countries through proactive approaches such as technology transfers. The Hyogo Framework was followed by the Sendai Framework for Disaster Reduction 2015-2030 which in 2015 recognized the role of governments and other stakeholders to reduce the risk of disasters. Japan's knowledge and approaches could be a help for developing countries where large-scale water disasters have frequently occurred over the past years.

The goal of this course is to develop participants' capacity of policy making on flood control and disaster management. Through lectures, practices and workshops, participants will learn skills and approaches to prevent/mitigate water related disasters, and also acquire knowledge and methods to recover/reconstruct from the losses.

For what?

This program aims to develop participants' capacity to solve water related problems and contribute to mitigate water related disaster in their countries.

For whom?

This program targets administrative officials responsible for water related disaster management, flood control and watershed management.

How?

In this program, participants shall have opportunities in Japan to identify approaches and strategies for solving water related problems. The program offers lectures and practices which focus on Japan's knowledge/technologies for flood control as well as the experiences/approaches in disaster management. Through the course, participants will formulate an Action Plan on water related disaster management for their countries based on the methodologies and ideas acquired in Japan.

II. Description

- 1. Title (J-No.): Water Related Disaster Management (Preparedness, Mitigation and Reconstruction) (J17-04034)**
- 2. Course Period in JAPAN:**
May 14, 2017 to June 10, 2017
- 3. Target Regions or Countries:**
Albania, Bosnia and Herzegovina, Brazil, Chile, Georgia, Former Yugoslav Republic of Macedonia, Malaysia, Morocco, Myanmar, Peru, the Philippines, Samoa, Sri Lanka, Thailand, Turkey, and Viet Nam
- 4. Eligible / Target Organization:**
Central or local government organizations responsible for disaster management, flood control and watershed management
- 5. Course Capacity (Upper limit of Participants):**
20 participants
- 6. Language to be used in this program:** English
- 7. Course Objective:**
The program aims to strengthen participants' own capabilities to make/develop policies and implement measures to reduce water related disaster damages through learning policies and systems on flood control and disaster management in Japan.
- 8. Overall Goal:**
Countermeasures against water related disaster are to be taken in a participant's organization based on Action Plan developed in this course.

9. Expected Module Outputs and Contents:

This program consists of the following components. Details are given below:

1) Preliminary Phase in a participant's home country: April 2017 to May 13 2017
Participating organizations make required preparation for the Program in the respective countries.

Outputs	Activities*
Output 1: To clarify issues through analyzing damages, policies and plans on water related disaster in their countries.	Participants analyze damages and countermeasures/ plans on water related disasters in their countries, summarize the results and make Inception Report on them by April 24 2017 .

(2) Core Phase in Japan: May 14 2017 to June 10 2017
Participants attend the Program implemented in Japan. This phase consists mainly of lectures which contribute to capacity building of participants on policy planning and implementation.

Outputs	Subjects/Agendas*	Methodology
Output 2: To understand basic concepts and theories on flood control and disaster management as essential knowledge of river management.	- Lectures with basic subjects related with river planning and strategy on flood control and disaster management in Japan - Sample subjects: rivers in Japan and outline of river governance; river management policy and plan; dam projects and systems; hydrological observation and water disaster monitoring / prediction; flood fighting; climate change adaptation; maintenance of Flood control facilities; and IWRM,	Lectures
Output 3: To understand cases of implementation of flood control measures in Japan.	- Practice with IFAS (Integrated Flood Analysis System) and Common MP (hydraulic analysis technology) - Site visits to flood control facilities	Lectures Exercises Field trip
Output 4: To design policies to solve issues on river management in their countries based on the knowledge acquired in this course.	- Draft, present and discuss on flood control Action Plan in participants' countries.	Workshop Presentation Discussion

(3) Finalization Phase in a participant's home country: From June 11 2017
Participating organizations produce final outputs by making use of results brought back by participants. This phase marks the end of the Program.

Outputs	Activities*
Output 4 (see above)	- Hold a debriefing session and share the results of the core phase in Japan with participants' organization. - To apply and implement Action Plan in the participants' countries on their own initiatives.

*Please note that those listed components are subject to change.

III. Conditions and Procedures for Application

1. Expectations from the Participating Organizations:

- (1) This program is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Participating organizations are expected to use the project for those specific purposes.
- (2) This program is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. These special features enable the program to meet specific requirements of applying organizations and effectively facilitate them toward solutions for the issues and problems.

2. Nominee Qualifications:

Applying Organizations are expected to select nominees who meet the following qualifications.

(1) Essential Qualifications

- 1) Current Duties: a member of central or local government organization in charge of disaster management, flood control and watershed management. The nominee should be in a mid-level to managerial position, and is, or is expected to be in the near future, involved in the decision making process of planning/development and implementation of policies in the relevant field.
- 2) Job Experience: has a working experience over five (5) years in the field of flood control, disaster management, and/or water resource management
- 3) Educational Background: be university graduate or equivalent.
- 4) Language: proficient in spoken and written English which is equal to TOEFL CBT 213 or more. This program includes active participation in discussions and development of Action Plan, thus requires high competence of English ability both in conversation and composition. Attach an official certificate for English ability such as TOEFL and TOEIC to the application form if possible.
- 5) To be proficient in Microsoft Word, Excel and Power Point.
- 6) Health: must be in good health, both physically and mentally, to participate in the Program in Japan. Participants will conduct "Town Watching" activity which involves walking up to 5 kilometers (2-3 hours) outside. Note the weather at this time of the year in Japan is expected to be hot and humid. Participants need to have physical strength to carry out this activity in group.
- 7) Pregnant applicants are not recommended to apply due to the potential risk of health and life issues of mother and fetus.

(2) Recommendable Qualifications

- 1) Work: be able to work at least 2 years after the course to execute Action Plan.
- 2) Age: be between the ages of twenty-eight (28) and forty (40) years.

3. Required Documents for Application

(1) Application Form: available at **the JICA office (or the Embassy of Japan)**.

(2) Photocopy of passport: to be submitted with the application form, if you possess your passport which you will carry when entering Japan for this program. If not, you are requested to submit its photocopy as soon as you obtain it.

*Photocopy should include the followings:

Name, Date of birth, Nationality, Sex, Passport number and Expire date.

(3) Nominee's English Score Sheet: to be submitted with the application form. If you have any official documentation of English ability. (e.g., TOEFL, TOEIC, IELTS)

4. Procedures for Application and Selection:

(1) Submission of the Application Documents:

Closing date for applications: **Please inquire to the JICA office (or the Embassy of Japan).**

(After receiving applications, the JICA office (or the Embassy of Japan) will send them to **the JICA Center in Japan** by **March 10, 2017**)

(2) Selection:

After receiving the documents through proper channels from your government, the JICA office (or the embassy of Japan) will conduct screenings, and then forward the documents to the JICA Center in Japan. Selection will be made by the JICA Center in consultation with concerned organizations in Japan. *The applying organization with the best intention to utilize the opportunity of this program will be highly valued in the selection.* Qualifications of applicants who belong to the military or other military-related organizations and/or who are enlisted in the military will be examined by the Government of Japan on a case-by-case basis, consistent with the Development Cooperation Charter of Japan, taking into consideration their duties, positions in the organization, and other relevant information in a comprehensive manner.

(3) Notice of Acceptance

Notification of results will be made by the JICA office (or the Embassy of Japan) **not later than March 31, 2017**.

5. Document(s) to be submitted by accepted candidates:

Inception Report -- to be submitted by **April 24, 2017**:

Only accepted candidates are required to prepare an Inception Report prior to their arrival in Japan. **Detailed instruction will be provided to accepted candidates.**

The Inception Report should be submitted by e-mail to the respective country's JICA office (or the Embassy of Japan) by April 24, 2017.

6. Conditions for Attendance:

- (1) To strictly adhere to the program schedule.
- (2) Not to change the program topics.
- (3) Not to extend the period of stay in Japan.
- (4) Not to be accompanied by family members during the program.
- (5) To return to home countries at the end of the program in accordance with the travel schedule designated by JICA.
- (6) To refrain from engaging in any political activities, or any form of employment for profit or gain.
- (7) To observe Japanese laws and ordinances. If there is any violation of said laws and ordinances, participants may be required to return part or all of the expenditure depending on the severity of said violation.
- (8) To observe the rules and regulations of the accommodation and not to change the accommodation designated by JICA.

IV. Administrative Arrangements

1. Organizer:

(1) Name: JICA Tsukuba International Center (JICA TSUKUBA/ TBIC)

(2) Contact: Ms. KURABAYASHI Miwa (jicatbic@jica.go.jp)

2. Implementing Partner:

Infrastructure Development Institute (IDI)

3. Travel to Japan:

(1) Air Ticket: The cost of a round-trip ticket between an international airport designated by JICA and Japan will be borne by JICA.

(2) Travel Insurance: Coverage is from time of arrival up to departure in Japan. Thus traveling time outside Japan will not be covered.

4. Accommodation in Japan:

JICA will arrange the following accommodations for the participants in Japan:

JICA Tsukuba International Center (JICA TSUKUBA/ TBIC)

Address: 3-6 Koyadai, Tsukuba, Ibaraki, 305-0074, Japan

TEL: 81-29-838-1111 FAX: 81-29-838-1119

(where "81" is the country code for Japan, and "29" is the local area code)

If there is no vacancy at JICA TSUKUBA, JICA will arrange alternative accommodations for the participants. Please refer to facility guide of JICA TSUKUBA at its URL,

http://www.jica.go.jp/english/about/organization/domestic/pdf/tsukuba_facility.pdf

5. Expenses:

The following expenses will be provided for the participants by JICA:

(1) Allowances for accommodation, meals, living expenses, outfit, and shipping

(2) Expenses for study tours (basically in the form of train tickets.)

(3) Free medical care for participants who become ill after arriving in Japan (costs related to pre-existing illness, pregnancy, or dental treatment are not included)

(4) Expenses for program implementation, including materials

For more details, please see "III. ALLOWANCES" of the brochure for participants titled "KENSU-IN GUIDE BOOK," which will be given before departure for Japan.

6. Pre-departure Orientation:

A pre-departure orientation will be held at the respective country's JICA office (or Japanese Embassy), to provide participants with details on travel to Japan, conditions of the workshop, and other matters.

V. Other Information

1. Computer:

Participants should bring their own laptop/notebook computers for workshop for analytical software, preparation of Action Plan presentation, and for communication by e-mail. Accepted candidates will receive details on system requirements of computers for this course.

2. Relevant data and statistics in your country:

Participants should collect and bring data and information of their countries in the relevant field for preparing Action Plan, presentation slides, etc.

VI. ANNEX

- Schedule (sample)

ANNEX: Schedule (sample*)

	Curriculum
(Sun)	Arrival
	Briefing
(Mon)	Program Orientation
	Aims of The Training
	Course Orientation
(Tue)	[Presentation] Presentation of Inception Report
(Wed)	[Lecture] Outline of River Governance and Disaster Management
	[Lecture] Climate Change Adaptation Measures of Water-Related Disasters
	[Lecture] Climate Change Adaptation Measures of Water-Related Disasters
	[Lecture] Recent Large-scale Water-related Disaster
(Thu)	[Lecture] River Management & Maintenance Plan
	[Lecture] Dam Project & System in Japan
	[Lecture] Dam Management in Japan
	[Lecture] Hydrological observation and water disaster monitoring/prediction
(Fri)	[Lecture] Flood Fighting Activities
	[Site Visit] Fujitsu netCommunity
	[Site Visit] Remote-sensing Technology
(Sat)	Move to Kansai
(Sun)	Kiso Three Rivers Federation Flood Fighting Drill
	[Site Visit] Yodogawa River Office and Yodogawa Museum
(Mon)	[Site Visit] Nishijima District Super Levee
	[Site Visit] Yodogawa Sluice, Kema Drainage Pump Station
	[Site Visit] Johoku Riverine Lagoon
	[Site Visit] Three River Separation Levee
(Tue)	[Site Visit] Arashiyama River Improvement Project Site
	[Site Visit] Golden Pavilion
	[Lecture] Flood Control Project by Kanto Regional Development Bureau, MLIT
(Wed)	[Site Visit] Flood Control Measures in Koto Ward
	[Site Visit] Flood Control Measures in Koto Ward
(Thu)	[Workshop] PCM
	[Workshop] PCM
	Welcome Address by Director General, JICA Tsukuba
(Fri)	[Workshop] PCM
	[Workshop] PCM
(Sat)	
(Sun)	
(Mon)	[Lecture/Workshop] Common MP (Platform for water-material circulation analysis)
	[Lecture] Hydroclimate Change and Greenhouse Gas Emission Scenario
(Tue)	[Lecture] Estimation of Rainfall-rate based on Weather Rader
	[Lecture] MRI's Non Hydrostatic Model and Its Application
	[Workshop] Preparation of Action Plan
(Wed)	[Lecture] JICA's Support to Disaster Risk Mitigation
	[Lecture] Rainfall Observation from the Space
	[Site Visit] Facility Visit
(Thu)	[Workshop] Hydraulic analysis with IFAS (Integrated Flood Analysis System)
(Fri)	[Workshop] Hydraulic analysis with IFAS (Integrated Flood Analysis System)
(Sat)	
(Sun)	
(Mon)	Briefing on Hazard Mapping (Town watching)
	Group work for Town watching
	[Field work] Hazard Mapping (Town watching)
(Tue)	[Presentation] Presentation of Hazard Map
	[Lecture] Outline of NILIM and PWRI
	[Site Visit] Facilities of NILIM and PWRI
(Wed)	Preparation of Action Plan
(Thu)	[Presentation] Action Plan Presentation
(Fri)	Evaluation Session
	Closing Ceremony
(Sat)	Departure

*Please note that this is a sample schedule. Finalized schedule is provided upon participants' arrival.

For Your Reference

JICA and Capacity Development

The key concept underpinning JICA operations since its establishment in 1974 has been the conviction that “capacity development” is central to the socioeconomic development of any country, regardless of the specific operational scheme one may be undertaking, i.e. expert assignments, development projects, development study projects, training programs, JOCV programs, etc.

Within this wide range of programs, Training Programs have long occupied an important place in JICA operations. Conducted in Japan, they provide partner countries with opportunities to acquire practical knowledge accumulated in Japanese society. Participants dispatched by partner countries might find useful knowledge and re-create their own knowledge for enhancement of their own capacity or that of the organization and society to which they belong.

About 460 pre-organized programs cover a wide range of professional fields, ranging from education, health, infrastructure, energy, trade and finance, to agriculture, rural development, gender mainstreaming, and environmental protection. A variety of programs and are being customized to address the specific needs of different target organizations, such as policy-making organizations, service provision organizations, as well as research and academic institutions. Some programs are organized to target a certain group of countries with similar developmental challenges.

Japanese Development Experience

Japan was the first non-Western country to successfully modernize its society and industrialize its economy. At the core of this process, which started more than 140 years ago, was the “*adopt and adapt*” concept by which a wide range of appropriate skills and knowledge have been imported from developed countries; these skills and knowledge have been adapted and/or improved using local skills, knowledge and initiatives. They finally became internalized in Japanese society to suit its local needs and conditions.

From engineering technology to production management methods, most of the know-how that has enabled Japan to become what it is today has emanated from this “*adoption and adaptation*” process, which, of course, has been accompanied by countless failures and errors behind the success stories. We presume that such experiences, both successful and unsuccessful, will be useful to our partners who are trying to address the challenges currently faced by developing countries.

However, it is rather challenging to share with our partners this whole body of Japan’s developmental experience. This difficulty has to do, in part, with the challenge of explaining a body of “tacit knowledge,” a type of knowledge that cannot fully be expressed in words or numbers. Adding to this difficulty are the social and cultural systems of Japan that vastly differ from those of other Western industrialized countries, and hence still remain unfamiliar to many partner countries. Simply stated, coming to Japan might be one way of overcoming such a cultural gap.

JICA, therefore, would like to invite as many leaders of partner countries as possible to come and visit us, to mingle with the Japanese people, and witness the advantages as well as the disadvantages of Japanese systems, so that integration of their findings might help them reach their developmental objectives.

