



Knowledge Co-Creation Program (Group & Region Focus)

General information on

**Practical Methodology for Flood Control Planning and
River Basin Management in Asia Region (Online)**
課題別研修「アジア地域における治水計画策定と流域管理の実務」
JFY 2021

Course No.: 202003266J001

Online Program Period in Japan: From November 15, 2021 to December 17, 2021

This information pertains to one of the JICA Knowledge Co-Creation Programs (Group & Region Focus) of the Japan International Cooperation Agency (JICA) 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)

The Japanese Cabinet released the Development Cooperation Charter in February 2015, which stated, *“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.”* JICA believes that this ‘Knowledge Co-Creation Program’ will serve as a foundation of mutual learning process.

I. Concept

Background

"Investing in disaster risk reduction for resilience" was emphasized as Priority 3 on "Sendai Framework for Disaster Risk Reduction 2015-2030", which was adopted in the third UN World Conference for Disaster Risk Reduction held in Sendai, 2015. To achieve this priority action for water-related disaster, it is essential to promote investment for flood control and river basin management (=DRR investment) based on practical knowledge as well as technical justification for flood control and river basin management. The purpose of the program is to obtain/improve practical skills and sense for planning and implementation of flood control and river basin management¹ in respective countries, through learning knowledge and experience on flood control and river basin management in Japan with actual cases and model rivers such as Tone River. After completion of the program, participants are expected to apply the knowledge obtained through the program and eventually acquire the ability to formulate and implement comprehensive river basin management plan including river maintenance policy, river maintenance plan and non-structure measures.

For what?

This program aims to obtain/improve practical skills and sense for planning and implementation of flood control and river basin management.

For whom?

This program is offered to officials at Ministry or governmental agency who are responsible for planning, implementation and maintenance for flood control and river basin management.

How?

Participants shall have opportunities to enhance practical skills and knowledge for planning, implementation and maintenance for flood control and river basin management. The program offers lectures and practices (by online) and site visits (in Japan) on flood control and river basin management in accordance with actual process of Japan's cases. At the end of course, participants will prepare a Course Review Report by taking into consideration the methodologies and ideas acquired both by online and in Japan.

II. Description

1. Title (Course No.)

Practical Methodology for Flood Control and River Management in Asia Region (202003266J001)

2. Online Program Period

November 15 to December 17, 2021

**Time schedule will be provided with the notice of acceptance.

3. Target Regions or Countries

Indonesia, Philippines, Bangladesh, India, Pakistan, and Sri Lanka

4. Eligible / Target Organization

Ministry or Agency in charge of planning for flood control and river basin management

5. Capacity (Upper Limit of Participants)

14 participants

6. Language

English

7. Objective(s)

To obtain / improve practical skills and knowledge for planning and implementation of flood control and river basin management.

8. Overall Goal

1. To learn the basic theory on flood control
2. To learn the concrete ideas and methodologies on flood control with actual cases in Japan
3. To learn the concrete ideas and methodologies on river basin management including non-structural measures as integrated flood management plan
4. To practice on flood control and river basin management planning

9. Output and Contents

This course consists of the following components. Details on each component are given below.

(1) Preliminary Phase (From October 25 to November 8, 2021)	
Inception Report Writing/ PPT for Presentation	<ul style="list-style-type: none"> After accepted, each participant is required to prepare an Inception Report on damages and countermeasures/plans for flood control in the participant's country in accordance with the instructions provided with the notice of acceptance. <p>Inception Report / PPT for Presentation must be submitted by November 8, 2021</p>
(2) Core Phase	
Online: From November 15 to December 17, 2021	
Participants attend the program implemented both by online and in Japan. This phase consists mainly of lectures and practices which contribute to capacity building of participants on planning and implementation of flood control and river basin management.	
Expected Output	Contents
1. To learn the basic theory on flood control	<u>Flood control: Planning theory in own organization</u>
2. To learn the concrete ideas and methodologies on flood control with actual cases in Japan	<ul style="list-style-type: none"> Flow of planning, location setting of flood control point - Character of river basin and river bed, sediment dynamism for flood control Character of river basin and river bed, sediment dynamism for flood control Runoff and inundation analysis, flood discharge and basic high-water discharge Combination of flood control facility and allocation plan of basic high-water discharge, design high-water discharge How to decide high-water level (HWL), river channel planning, and principles of river bank planning and other considerations for facility planning Social and Environmental Considerations - Project implementation process (budget, implementation structure etc.) Fundamental philosophy for sequence of flood control facility construction, project evaluation and selection of the flood control plan
3. To learn the concrete ideas and methodologies on river basin management including non-structural measures as integrated flood management plan	<u>River basin management: Involvement of stakeholders such as other related ministries for DRR mainstreaming</u> <ul style="list-style-type: none"> DRM(Disaster Risk Management) and DRR(Disaster Risk Reduction) Land use regulation and urban planning Methodology on flood forecast and warning, flood fighting, evacuation, timeline.
4. To practice on flood	<ul style="list-style-type: none"> Workshop for actual implementation and

control and river basin management planning	<ul style="list-style-type: none"> methodology in respective countries. ● Draft, present and discuss Course Review Report for improvement of planning and implementation on flood control and river basin management in participants' countries.
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<Other contents to be offered: International trends related to flood control>

- Climate Change Countermeasures
- Economic analysis, Macro economy related to DRR, SDGs (Sustainable Development Goals). *Please note that those listed components are subject to change.

Tentative Schedule by Online-Program

DATE	HOURL(JST)			delivery	Contents
2021/11/15 (Mon.)	13:00	~	13:45	online	Program Orientation
	13:45	~	14:30	online	Lecture by JICA, Global Environment Dept.
	14:30	~	15:30	online	Course Orientation
	13:00	~	15:30	online	Inception report Presentation
	13:00	~	15:30	online	Inception report Presentation
~	Please watch these up to 2021/11/			video	Flood control planning: purpose and process
				video	Review process of flood control plan
				video	Review process of flood control plan
	13:00	~	15:30	online	Workshop①
	13:00	~	15:30	online	Acquisition of basic analytic technology(basic research, runoff analysis, countermeasure plan)
	13:00	~	15:30	online	Acquisition of basic analytic technology(basic research, runoff analysis, countermeasure plan)
	13:00	~	15:30		Workshop②
~	Please watch these up to 2021/12/			video	Flood control and river basin management
				video	Consensus building and planning decision
				video	Countermeasures against climate change
				video	Maintenance and management of river
	13:00	~	15:30	online	Workshop③
	Self-Study			online	Course Review Report making
2021/12/17	13:00	~	15:30	online	Course Review Report Presentation

III. Eligibility and Procedures

1. Expectations to the Applying Organizations

- (1) This course is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Applying organizations are expected to use the program for those specific purposes.
- (2) This course is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. These special features enable the course 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: Officers at Ministry or governmental agency in charge of planning, implementation and maintenance for flood control and river basin management
- 2) Experience in the Relevant Field: have a working experience over three (3) years in the field of water related disaster risk reduction, flood control or river basin management.
- 3) Educational Background: be a graduate of university
- 4) Language Proficiency: have a competent command of spoken and written English proficiency equivalent to TOEFL iBT 100 or above (This workshop includes active participation in discussions, which requires high competence in English. Please attach an official certificate for English ability such as TOEFL, TOEIC etc, if possible)

(2) Specific Qualifications for participation by online program

- 1) Have own available laptop computer during the course periods
- 2) Have access to stable internet connection (5Mbps speed)
- 3) Have basic IT environment and basic skill on internet operation such as accessibility to Zoom, Google Chrome, You Tube and so on
- 4) Secure the date for attending all lectures of online and in-Japan program
- 5) Have availability for participation regardless of the normal working hours. Online lectures may start in early morning, late night, lunch time or holidays.

If there are any concerns, JICA overseas offices can support for setting up participants' IT environment (ex. tablet or laptop PC lending, venue arrangement etc.) by answering questionnaire. Please see ANNEX I.

(3) Recommended Qualifications

- 1) Age: be between the ages of twenty-eight (28) and fifty (50) years.
- 2) Gender Consideration: JICA is promoting Gender equality. Women are encouraged to apply for the program.

3. Required Documents for Application

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

(2) Photocopy of Passport: You should submit it with the application form. *The following information should be included in the photocopy: Name, Date of Birth, Nationality, Sex, Passport Number and Expiry Date. If you don't have the passport, other identifications can be acceptable (e.g., National Identification Card)..

(3) English Score Sheet: to be submitted with the application form, if the nominees have any official English examination scores. (e.g., TOEFL, TOEIC, IELTS)

If there is no certificate, it is strongly requested that JICA Overseas Office in the recipient country have an interview with the nominee and send the result of the interview with the application form to JICA Tsukuba.

(4) Questionnaire: to be submitted with the application form. Fill in Annex I of this General Information.

4. Procedures for Application and Selection

(1) Submission of the Application Documents

Closing date for applications: **Please confirm the local deadline with the JICA overseas office (or the Embassy of Japan).**

(All required material must arrive at **JICA Center in Japan** by October 18, 2021)

(2) Selection

Primary screening is conducted at the JICA overseas office (or the embassy of Japan) after receiving official documents from your government. JICA Center will consult with concerned organizations in Japan in the process of final selection. Applying organizations with the best intentions to utilize the opportunity will be highly valued.

The Government of Japan will examine applicants who belong to the military or other military-related organizations and/or who are enlisted in the military, taking into consideration of their duties, positions in the organization and other relevant information in a comprehensive manner to be consistent with the Development Cooperation Charter of Japan.

(3) Notice of Acceptance

The JICA overseas office (or the Embassy of Japan) will notify the results **not later than October 25, 2021.**

5. Additional Document(s) to Be Submitted by Accepted Candidates

Inception Report -- to be submitted by November 8, 2021

Accepted candidates are required to prepare an Inception Report (Please read Annex "Inception Report" for detailed information.) before their departure. The Inception Report should be sent to JICA by November 8, 2021, preferably by e-mail to tbictp@jica.go.jp .

6. Conditions for Participation

The participants of KCCP are required

- (1)** to strictly observe the course schedule,
- (2)** not to record or share the online contents without permission.

IV. Administrative Arrangements

1. Organizer (JICA Center in Japan)

- (1) **Center:** JICA Tsukuba Center (JICA TSUKUBA)
- (2) **Program Officer:** Ms. NISHIOKA Miki (tbicctp@jica.go.jp)

2. Implementing Partner

- (1) **Name:** Foundation of River & basin Integrated Communications (FRICS)
- (2) **URL:** <http://www.river.or.jp/outlineoffrics.html>

3. Pre-departure Orientation*

*YouTube of “Knowledge Co-Creation Program and Life in Japan” and “Introduction of JICA Center” are viewable from the link below.

Part I: Knowledge Co-Creation Program and Life in Japan	
English ver.	https://www.youtube.com/watch?v=SLurfKugrEw
Part II: Introduction of JICA Centers in Japan	
JICA Tsukuba	https://www.jica.go.jp/tsukuba/english/office/index.html

V. Other Information

1. **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 and presentation slides before the program starts.
2. **Certificate:** Participants who have successfully completed the course will be awarded an official certificate from JICA.
3. **Information of JICA:** You can check our services on our website and social media.
 - JICA Tsukuba Website:
<https://www.jica.go.jp/tsukuba/english/office/index.html>
 - JICA Tsukuba Facebook:
<https://www.facebook.com/jicatsukuba>



Annex I. Questionnaire (The deadline: November 8, 2021)

【Your IT Environment for Online Program】		
Based on your answer, JICA office will consider your IT environment arrangement. Since your answer does not affect to the acceptance judgment, please answer honestly.		
No.	Questions	Yes or No
1	Do you have a following system to attend online program at your home or office?	
1-1	Desktop or laptop PC	Desktop or Laptop or None
1-2	Internet environment	Yes or No (OS version:)
1-3	Stable Internet connection (5Mbps speed)	Yes or No
1-4	PC with Microphone	Yes or No
1-5	PC with Camera	Yes or No
2	Have you ever attend online meeting?	Yes or No (When:) (Organizer:)
3	Have you ever used those online systems below?	
3-1	Zoom	Yes or No
3-2	Microsoft Teams	Yes or No
3-3	Google Drive of GIGAPOD	Yes or No
3-4	Google Form	Yes or No
3-5	You Tube	Yes or No
3-6	Facebook	Yes or No
3-7	Other	Describe it:
4	Which do you prefer, participating from your home, your office or the designated place that JICA provide such as hotels or conference rooms, during the online program? From November 15, to December 17, 2021	Your home, your office, or the designated place that JICA provide
5	Please let us know if you have any concerns or questions for participating the program.	Describe:
6	Your contact email address and phone number during the online program	Email: Phone:

Annex II. Inception Report (The deadline: November 8, 2021)

Each participant is going to make 10-minutes presentation on Inception Report. Please prepare your presentation material in accordance with the following guidance and submit it by email.

* For inquiries regarding the report, participants should contact JICA Tsukuba. Please note that Program Officer may contact participants directly or through JICA Offices in respective countries if receipt of Report is not confirmed by the deadline.

【Contents & Format】

- (1) Your presentation material should be written in English and be made on Microsoft PowerPoint at maximum of 15 slides.
- (2) The size of the file **MUST NOT EXCEED 3 MB (megabytes)**. Please do not paste many graphics such as photographs.
*It is recommended to bring photographs as your supporting materials with USB flash memory or your own laptop.
- (3) Contents should be as follows:

Slide 1	Title (Name of Knowledge Co-Creation Program, your name, position, organization)
Slide 2	Natural conditions of your country (climate, precipitation, geology, topography, rivers)
Slide 3	Social condition of your county (population, industries)
Slide 4	Outline of your organization (structure, mission, objective, main activities)
Slide 5	Your present duties (role, main activities)
Slide 6-7	Overview of water related disasters in your country (history, characteristics, estimated damage, comparison with other disasters)
Slide 8	Overview of countermeasures/plans for flood control in your county(including aspects of river basin management and consensus formation)
Slide 9	Overview of a river selected for your case study** (reasons of selection, natural & social features of the river)
Slide 10	Overview of past floods occurred in the selected river
Slide 11	Causes of the floods and the countermeasures considered and/or implemented for the selected river.
Slide 12	Issues to be considered in implementing the countermeasures
Slide 13	Things you wish to learn in this program
Slide 14	Current/future projects for flood control and disaster management in your country, and supports from international/ foreign organizations (World Bank, ADB: Asian Development Bank, AIIB: Asian Infrastructure Investment Bank, JICA, KOICA: Korea International Cooperation Agency, USAID: United States Agency for International Development, and so on)

****What is “Case study”??**

Each participant is requested to select a river to work with during the program. A short write-up on the flood control planning of the river as well as maps, charts, data and information of the river should be prepared to support his/her case study of practical training activities. Samples of the required materials will be sent to you from the implementing partner, FRICS (Foundation of River & Basin Integrated Communications) later on.

Please watch the video on our Net Library and prepare yourself before the start of the program!

< Japan's Disaster Experiences Reflected in the Sendai Framework for Disaster Risk Reduction >

https://jica-net-library.jica.go.jp/jica-net/user/lib/contentDetail.php?item_id=10065

For Your Reference

JICA and Capacity Development

Technical cooperation is people-to-people cooperation that supports partner countries in enhancing their comprehensive capacities to address development challenges by their own efforts. Instead of applying Japanese technology per se to partner countries, JICA's technical cooperation provides solutions that best fit their needs by working with people living there. In the process, consideration is given to factors such as their regional characteristics, historical background, and languages. JICA does not limit its technical cooperation to human resources development; it offers multi-tiered assistance that also involves organizational strengthening, policy formulation, and institution building.

Implementation methods of JICA's technical cooperation can be divided into two approaches. One is overseas cooperation by dispatching experts and volunteers in various development sectors to partner countries; the other is domestic cooperation by inviting participants from developing countries to Japan. The latter method is the Knowledge Co-Creation Program, formerly called Training Program, and it is one of the core programs carried out in Japan. By inviting officials from partner countries and with cooperation from domestic partners, the Knowledge Co-Creation Program provides technical knowledge and practical solutions for development issues in participating countries.

The Knowledge Co-Creation Program (Group & Region Focus) has long occupied an important place in JICA operations. About 400 pre-organized courses 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 is being customized by the different target organizations to address the specific needs, 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, as the first non-Western nation to become a developed country, built itself into a country that is free, peaceful, prosperous and democratic while preserving its tradition. Japan will serve as one of the best examples for our partner countries to follow in their own development.

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 a process of adoption and adaptation, of course, has been accompanied by countless failures and errors behind the success stories.

Through Japan's progressive adaptation and application of systems, methods and technologies from the West in a way that is suited to its own circumstances, Japan has developed a storehouse of knowledge not found elsewhere from unique systems of organization, administration and personnel management to such social systems as the livelihood improvement approach and governmental organization. It is not easy to apply such experiences to other countries where the circumstances differ, but the experiences can provide ideas and clues useful when devising measures to solve problems.

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.



Contact Information for Inquiries

For inquiries and further information, please contact the JICA overseas office or the Embassy of Japan. Further, address correspondence to:

JICA Tsukuba Center (JICA TSUKUBA)

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

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

Email: tbictp@jica.go.jp