

INFORMATION ON THE REGION-FOCUSED TRAINING COURSE

FLOOD HAZARD MAPPING

JFY 2006

東・東南アジア地域別：洪水ハザードマップ作成
COURSE NO.: J-06-04064

October 29, 2006 - December 2, 2006



JAPAN
Official Development Assistance

THE GOVERNMENT OF JAPAN
JAPAN INTERNATIONAL COOPERATIONAL AGENCY



. Course Background and Overall Goal

In the Asia Monsoon areas, especially East and Southeast Asia, there are many floods every year, and much human life and property are lost by flood. In order to reduce the damage caused by flood, Hardware-type infrastructures like an embankment for river or a reservoir are very effective. On the other hand, Soft-type infrastructures like “Flood Hazard Map”, which can offer the information including the past flood track record, flood anticipation, evacuation route, evacuation place, etc to the residents, are also important. Especially in developing countries which behind in Hardware-type infrastructure, it is effective to take the measure of a software-type immediately.

Under such a situation, we have been implementing this training course “Flood Hazard Mapping” for 8 countries in East and Southeast Asia since JFY2004. The course is specifically designed for technical managers and/or engineers who are involved in flood or river management in the public sector.

The overall goal is that an original flood hazard map is created in each region, and the flood damage in the area concerned is mitigated.

. Course Description

1. Course Title (No.):

Flood Hazard Mapping (J0604064)

2. Course Objective/Outcome:

The technology, knowledge and experience, which the participants acquired and experienced in Japan, are shared among the officials and engineers who engage in the flood and river management.

3. Course Outputs:

To achieve the above mentioned objective, participants are expected to produce the following outputs by the end of this course:

- (1) Understanding the effectiveness of flood hazard maps and acquiring the way to disseminate and utilize them for people
- (2) Acquiring Methods to enhance people’s capability and promote public awareness to mitigate flood damage
- (3) Acquiring the professional knowledge of hydrology and inundation analysis necessary to produce flood hazard maps
- (4) Acquiring the general knowledge of flood hazard maps in the world/ in Europe/ in Asia/ in Japan
- (5) Understanding the ways of producing and applying flood hazard maps for their own countries/regions, and making the action plan (draft) along which they promote Flood Hazard Mapping after they go back to their country

4. Duration:

29 October, 2006 – 2 December, 2006

5. Total Number of Participants and Candidate Countries:

(1) Number of Participants;

16 participants from listed below 8 countries

Each country is expected to nominate:

- One is technical manager who engaged in flood or river management
- One is engineer who engaged in flood or river management

(2) Candidate Countries;

Cambodia, China, Indonesia, Lao PDR, Malaysia, Philippines, Thailand, Vietnam

6. Eligible/Target Organization:

Organization concerning to Flood or River Management at the national or local level in the public sector such as government/provincial ministries or municipalities

7. Language to be used in this Course:

English

8. Course Program:

This program consists of the following three phase.

(1) Preparatory Phase; (29 September, 2006 – 28 October, 2006)

1) Preparatory Questionnaire (refer to ANNEX)

All applicants are requested to fill and submit the "Preparatory Questionnaire".

If there are any participants who want electronic copy of this format, please contact to JICA Tsukuba (tbictp1@jica.go.jp).

2) Preparation on the Report (refer to ANNEX)

After "Notice of Acceptance" as mentioned in 4.3, the participants in each country are required to prepare and submit a report under the title of "Review on Policies and Activities of Flood Risk Management" in cooperation as described in ANNEX .

The report must be 10-12 pages and typed, and sent to JICA Tsukuba (tbictp1@jica.go.jp) by 20, October, 2006.

3) Preparation on the data for run-off exercise (refer to ANNEX)

The participants in each country are requested to collect the data for run-off exercise and submit this data to JICA Tsukuba (tbictp1@jica.go.jp) by 20, October, 2006.

If there are any participants who want electronic copy of this format, please contact to JICA Tsukuba (tbictp1@jica.go.jp).

(2) Program in Japan; (29 October, 2006 – 2 December, 2006)

In order to obtain the above-mentioned 5 outputs, the following items are carried out.

*FHM: Flood Hazard Map

<u>Outputs</u>	<u>Theme</u>	<u>Training Subject</u>	<u>Type</u>
(1)	General knowledge of *FHM	The effectiveness and the subjects of *FHM	Lecture
		Basic information on *FHM	Lecture
	Practical use example	The practical use and the subject of *FHM in a local government	Lecture
		The role of *FHM in fire fighting and prevention of floods activity	Lecture
	Practical use Method of *FHM	The role of *FHM in integrated Flood Management	Lecture
Others	Hazard Map for Sabo	Lecture	
(2)	Information collecting	Collection of the important information in flood mitigation actions	Exercise
	Information Exchange with people in Japan on Town Watching	Town Watching Group presentation o Town Watching	Observation Observation
(3)	GIS	Exercise on the Topographical Maps and GIS	Exercise
	Run off Analysis	Lecture of Run off Analysis	Lecture
		Exercise on Run off Analysis	Exercise
	Flood Inundation Analysis	Lecture for Flood Inundation Analysis	Lecture
		Exercise on Flood Inundation Analysis	Exercise
Anticipated Inundation Area Mapping	Procedure for Flood Hazard Mapping & Inundation Area Presuming System	Lecture	
	Exercise on Anticipated Inundation Area Mapping	Exercise	
	Exercise on Anticipated Inundation Area Mapping & Use of Flood Inundation Analysis	Exercise	
(4)	Example in Japan	Situation of Flood Disaster and whole system for Flood Damage Mitigation in Japan	Lecture
		Outline of *FHM in Japan and Flood Inundation Maps	Lecture
		History and Present status of Hazard Maps in Japan	Lecture
		Creating Kyoto City Multi Hazard Map	Lecture
		-Lessons Learned from the 2004 Niigata Disaster Geo Spatial Profiling-	Lecture
	Example in Asian Countries	Practice and Exploration of Flood Hazard Mapping in China	Lecture
		Current situations and challenges in Flood Hazard Mapping in Asia	Lecture
		-Asian countries in general- Current situations and challenges in Flood Hazard Mapping in Asia	Lecture
	Example in Europe	under planning -Lecturer from UNESCO-IHE	Lecture
	Typhoon Committee	Typhoon Committee and its Flood Hazard Mapping Projects	Lecture
(5)	Evacuation Plan in each country	Development & Visualization of Evacuation Plans	Lecture
	Concluding Report	Making Concluding Report	Exercise
		Presentation on Concluding Report	Exercise

(3) Developing Phase; (3 December, 2006 – 11 January, 2007)

- 1) In order to share the technologies, knowledge and experience they obtained from this training course, all participants should share the outputs of this training program in Japan within their organization in 40 days after going back to home country.
- 2) All participants should submit the report on the above-mentioned activity to JICA Tsukuba (tbictp1@jica.go.jp). The instruction of the above activity will be explained in Japan.

. Conditions and Procedure for Application

1. Responsibility of the Participating Countries/Organizations:

- (1) It is strongly requested for the government of the participating country and organizations concerned to nominate the applicants who fulfill the requirements for this course and have high motivation and strong commitments to address the current problems in your country/organization.
- (2) If any of the applicants are accepted, the organizations to which the applicants belong are required to support them to focus on making report under the title of “Review on Policies and Activities of Flood Risk Management” as described in ANNEX II.
- (3) After the program in Japan, the organizations are desired to facilitate the participants to spread what they learned in the course to the people and organizations concerned and/or to realize the action plans they prepared in the course.

2. Qualifications of Applicants:

Applicants should:

- (1) be nominated by their governments in accordance with the procedures mentioned in the chapter IV
- (2) be the technical managers or engineers with at least five years experience (two years for Doctor holders) and currently engaged in river or flood management issues in the public sector
- (3) be university graduates or equivalent
- (4) be proficient in spoken and written English (Inadequate command of English will hinder training as well as their dairy life)
- (5) have the experience using “Microsoft Word” and “Microsoft Excel”
- (6) be in good health both physically and mentally to undergo the training (as training for long periods and many field trips may pose risks to pregnant women, pregnancy is regarded as a disqualifying condition for this training course)
- (7) be non-military personnel

3. Required Documents:

Following 2 items should be submitted to JICA Office (or the Embassy of Japan) by **September 8, 2006**.

- (1) Nomination Form: One (1) original and three (3) copies
- (2) Preparatory Questionnaire (refer to ANNEX)

Note: Applications without these items will be out of the selection process.

After “Notice of Acceptance”, the participants in each country must prepare the following reports and data before coming to Japan. And, following items should be submitted to JICA Tsukuba (tbictp1@jica.go.jp) directly by 20, October, 2006.

- (3) Review on Policies and Activities of Flood Risk Management (refer to ANNEX)
- (4) The data for run-off exercise (refer to ANNEX)

4. Procedure for Application and Selection:

(1) Submission of the Documents for Selection:

Governments desiring to nominate applicants for the Course should submit (1) original Nomination Form and (2) Preparatory Questionnaire by **September 8, 2006**.

(2) Selection:

JICA Office (or the Embassy of Japan) accepts the documents for selection, carries out the pre-screening, and send the documents to JICA Center in charge of this course. The JICA Center in charge will hold a selection meeting with organizations concerned in Japan and decide the applicants to be accepted among those who fulfill the set requirements described in III.2 above. In case the number of applicants is more than the capacity of this course, some applicants may not be accepted due to the limited number of seats even though they fulfill the requirements.

(3) Notice of Acceptance:

The JICA office (or Embassy of Japan) will inform the applying government of acceptance or non-acceptance of nominees' application **no later than September 29, 2006**.

5 . Rules for Attendance:

Participants are requested to observe the following rules for attending the course:

- (1) to observe strictly the course schedule
- (2) not to change course subjects or extend the course period
- (3) not to bring any members of their family
- (4) to return to their home country at the end of the course according to the international travel schedule designated by JICA
- (5) to refrain from engaging in political activities or any form of employment for profit of gain
- (6) to observe the rules and regulations of their place of accommodation and not to change accommodations designated by JICA

*Participants who have successfully completed the course will be awarded a certificate by JICA.

. Administrative Arrangements

1. Travel to Japan:

(1) Air Ticket:

Round-trip ticket between an international airport designated by JICA and Japan will be borne by JICA.

(2) Travel Insurance:

Travel insurance is not insured by JICA.

2. Accommodation:

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

Tsukuba International Center (JICA TSUKUBA)

Address: 3-6 Koyadai, Tsukuba-Shi, Ibaraki, 305-0035, Japan

TEL: +81-29-838-1117, FAX: +81-29-838-1790

*If no room is available at JICA TSUKUBA, JICA will arrange alternative accommodations for the participants.

3. Living Expenses:

Following expenses will be provided for the participants by JICA:

- (1) Allowances for accommodation, living expenses, outfits and shipping
- (2) Expenses for study tours; basically paid in the form of train ticket(s) or chartered bus.
- (3) Free medical care for participants who become ill after arrival 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 p. 9-16 of the brochure for participants titled "KENSHU-IN GUIDE BOOK", which will be given to the selected participants before (or at the time of) the pre-departure orientation.

4. Course Implementing Organization:

- (1) Public Works Research Institute (PWRI)
International Centre for Water Hazard and Risk Management under the auspices of UNESCO (ICHARM)
Address: 1-6, Minamihara, Tsukuba, Ibaraki, 305-8516, Japan
Tel: +81-29-879-6751, Fax: +81-29-879-6752
URL: <http://www.icharm.pwri.go.jp>
- (2) National Institute for Land and Infrastructure Management (NILIM)
Ministry of Land, Infrastructure and Transport (MLIT)
Address: 1 Asahi, Tsukuba, Ibaraki, 305-0804, Japan
Tel: +81-29-864-2211, Fax: +81-29-864-4322
URL: <http://www.nilim.go.jp/english/eindex.htm>

5. Pre-Departure Orientation:

A pre-departure orientation will be held at JICA Office (or Embassy of Japan) to provide the selected candidates with details on travel to Japan, conditions of the program in Japan, and other matters. Participants will see a video "Training in Japan," and receive a textbook and cassette tape, "Simple Conversation in Japanese." A brochure, the KENSHU-IN GUIDE BOOK, will be handed to each selected candidate before (or at the time of) the orientation.

ANNEX:

ANNEX : Preparatory Questionnaire

ANNEX : Review on Policies and Activities of Flood Risk Management

ANNEX : The data for run-off exercise

Reference

Founded in 1974, the Japan International Cooperation Agency is an implementation agency for technical assistance, focusing on systems building, organization strengthening and human resource development that will enable developing countries to pursue their own sustainable socio-economic development.

The training program for overseas participants is one of JICA's main cooperation programs. Under this program, JICA invites professionals in various fields including administrative officials, engineers and technicians from developing countries to Japan and provide them with skills and technology needed in their countries as well as the chance to share knowledge and experience with participants from other countries. Through this program, participants are expected to acquire skills and technology or create knowledge, bring them back to their countries, and apply them in their workplaces or societies with necessary modifications according to their own conditions to achieve their specific objectives.

JICA's Mission

We, as a bridge between the people of Japan and developing countries, will advance international cooperation through the sharing of knowledge and experience and will work to build a more peaceful and prosperous world.

Oath of Service

With passion and pride, as professionals in development cooperation, we will perform our work responsibly and energetically with love and a sense of duty; we will encourage and support the participation of the Japanese people in our work; we will work as partners to those in need of assistance; and we will strive to fill the world with hope and happiness by promoting peace and sustainable development.

CORRESPONDENCE

For enquires and further information, please contact the JICA office, or the Embassy of Japan. Address any other correspondence to:

Tsukuba International Center
Japan International Cooperation Agency
(JICA TSUKUBA)

Address: 3-6 Koyadai, Tsukuba, Ibaraki, 305-0035, Japan
TEL: +81-29-838-1117, FAX: +81-29-838-1790