

INFORMATION ON GROUP TRAINING COURSE

**BUILDING RESILIENCE TO TSUNAMIS  
IN THE INDIAN OCEANS**

**“COMPREHENSIVE TSUNAMI DISASTER  
PREVENTION TRAINING COURSE”**

by UN/ISDR and PWRI/ICHARM

**2<sup>nd</sup> June, 2008 – 11<sup>th</sup> July, 2008**



**UNITED NATIONS  
INTERNATIONAL STRATEGY FOR DISASTER REDUCTION**



**INTERNATIONAL CENTRE FOR WATER HAZARD AND RISK MANAGEMENT (ICWHR)  
UNDER THE AUSPICES OF UNESCO,  
PUBLIC WORKS RESEARCH INSTITUTE, JAPAN**

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# I. Course Background and Overall Goal

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The Indian Ocean Tsunami in December 2004 caused about 230,000 casualties and enormous property damage. The numbers of deaths in India, Indonesia, Maldives and Sri Lanka were 18045, 167736, 108 and 35322 whereas the total numbers of houses destroyed were 235377, 141000, 8074 and 65275 respectively. The total estimated damage reached \$2.56 billion on the south-eastern coast of India, \$4.5 billion in Indonesia, \$250 million in Maldives and \$1.5 billion in Sri Lanka (data source: <http://www.tsunamispecialenvoy.org/country/humantoll.asp>). After the tragedy, UNESCO plays a leading role to make up a plan to implement the Indian Ocean Tsunami warning system.

This giant loss is basically due to the lack of proper preparation for tsunami disasters from national government level to local level. Each country has a disaster management plan and established a related organization to look after the problems; however, such a plan generally does not include tsunami disasters. People living along the coast near the epicentre of the earthquake have little knowledge of moving to higher elevations when they feel a shock of an earthquake. Tsunami warning was not issued in countries those far away from the epicentre, such as Sri Lanka and India. Structural measures are rarely in place except for some parts of the Maldives coast.

From a long experience of tsunami disasters, Japan has significantly established tsunami disaster prevention measures. In Japan, local people who live in tsunami-affected areas understand that tsunami comes after earthquakes and related legends have been taught in schools. People affected by the Meiji Sanriku Tsunami in 1896 were relocated to higher places. Structural measures such as coastal dikes, tsunami breakwaters as well as the pine tree belts on the coasts have been implemented and maintained. Tsunami warning systems were also established after the damage caused by the Chile Earthquake-induced Tsunami in 1960. Under the national plan, local tsunami prevention plans and tsunami hazard maps are recently introduced and effectively implemented in prefectures along the coast.

The comparison of the mitigation measures in affected countries by the Indian Ocean Tsunami with the Japanese measures reveals the lack of responsible organizations, mitigation plans, warning systems, awareness level, structural measures and additional non-structural measures such as land use plans. In addition to these, basic information required to analyse tsunami disasters and mitigation measures is still insufficient.

The overall objective is to develop human resources who work for comprehensive tsunami disaster mitigation including structural measures, tsunami early warning systems, local disaster management plans in developing countries. The trainees will learn the fundamentals as well as the most advanced knowledge and technology on comprehensive tsunami disaster prevention practices in Japan. After returning their home countries, they are also expected to share the information and know-how acquired through the course among those who are in charge of taking actions.

### **About UN/ISDR ( <http://www.unisdr.org/> )**

The UN/ISDR is the focal point in the UN System to promote links and synergies between, and the coordination of, disaster reduction activities in the socio-economic, humanitarian and development fields, as well as to support policy integration. It was established in December 1999 by the United Nations General Assembly's resolution 54/219. ISDR aims at building disaster resilient communities by promoting increased awareness of the importance of disaster reduction as an integral component of sustainable development, with the goal of reducing human, social, economic and environmental losses due to natural hazards and related technological and environmental disasters.

### **About PWRI/ICHARM ( <http://www.icharm.pwri.go.jp/> )**

ICHARM was established in March 2006 based on the agreement between the Japanese Government and UNESCO hosted by the Public Works Research Institute of Japan (PWRI). ICHARM mission is to be the Centre of Excellence to provide and assist implementation of the best practicable strategies to localities and nations for water-related disasters. PWRI is the renowned practice oriented research institute serving for more than 80 years since its establishment. It was governmental up to 2001 and now an Incorporated Administrative Agency.

#### **Remarks:**

*This training course covers the overall aspects of tsunami disaster management such as structural measures, tsunami early warning systems, local tsunami disaster management plans and disaster management systems.*

*In order to cover the full range of training course's subject matters, a six-week-long training package will be carried out.*

*The proposed hands-on training course comprises lectures, exercises and on-site inspections to learn tsunami disaster mitigation measures in Japan so that they will be able to promote and utilize comprehensive tsunami disaster mitigation based on natural and socio-economic needs in their own countries.*

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## **II. Course Description**

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### **1. Course Title:**

Comprehensive Tsunami Disaster Prevention Training Course (hereafter will be called as CTDP Course)

## 2. Course Objective/Outcome:

The course is to improve the efficiency of tsunami disaster management by national and regional officials, aiming to reduce the loss of life and property in tsunami-prone coastal areas.

Proposed national and local action plans by participants during the course will contribute to formulate realistic disaster reduction plans, which promote resilience for tsunami disasters.

End user focused workshops that will be organized by trainees in four countries would be useful to transfer the knowledge of tsunami disaster mitigation measures and to stimulate and strengthen the capacity of related agencies for disaster preparedness.

Reports of the training will be uploaded on the web page of ICHARM and will provide information on tsunami disaster mitigation, which would be beneficial especially to other tsunami affected countries for establishing comprehensive tsunami disaster mitigation measures.

This training course **is not** for those who are in charge of issuing tsunami early warning systems.

## 3. Course Outputs:

### The participants will become:

- (1) Capable of identify their problems by comparing the current situations in their own countries to that in Japan.
- (2) Capable of making and using tsunami hazard maps.
- (3) Understanding tsunami early warning systems and ways of disseminating the systems.
- (4) Capable of developing disaster management systems and its local management plans.
- (5) Capable of promoting and utilizing comprehensive disaster mitigation measures based on natural and socio-economic needs in their own countries.

After the training course, participants are expected to:

- (1) Share the information with other counterparts or stakeholders in their home country.
- (2) Organize end user focused workshops at their home country
- (3) Make a report of the workshop result and achievement
- (4) Implementing the knowledge and techniques of tsunami risk assessment and risk reduction, including promotion of tsunami hazard map.
- (5) Actively promoting the set up of a coordination committee for promoting comprehensive tsunami disaster mitigation and the establishment and implementation of comprehensive tsunami disaster mitigation plans.

## 4. Duration:

2<sup>nd</sup> June, 2008 – 11<sup>th</sup> July, 2008

## **5. Total Number of Participants and Candidate Countries:**

(1) Number of Participants;

India: 3

Indonesia: 3

Maldives: 2

Sri Lanka: 3

**At least an expert of structural measures and an expert of non-structural measures should be selected for each country.**

## **6. Eligible/Target Organization:**

Governmental organizations those are responsible for leading tsunami countermeasures in respective countries.

## **7. Language to be used in this Course:**

English

## **8. Course Program:**

### **1) Preparatory Phase**

After receiving the “Notice of Acceptance”, each participant has to make an “Inception Report”. The instruction of making “Inception Report” will be delivered to the participant along with “Notice of Acceptance”.

### **2) Program in Japan**

This training course provides lectures, trainings, and on-site inspections to learn tsunami mitigation measures in Japan.

The curriculum will cover following topics:

- Orientation
- Country report
- Generation and transformation of tsunamis
- Disaster caused by tsunamis
- Disaster management system
- Comprehensive tsunami management plan
- Structural measures
- Tsunami warning system
- Tsunami hazard map
- Land use regulation
- Education and training

- Japanese experiences including field trip to the sites
- Project Cycle Management
- Concluding report (Action Plan)

### 3) Developing Phase

After the CTDP course, the participants should hold workshops with related officials of their organization and/or the committee in their countries. Further, they should make a report and send it to ICHARM. ICHARM will finalize a concluding report and submit it to ISDR.

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## III. Conditions and Procedure for Application

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### 1. Responsibility of the Participating Countries/Organizations:

- (1) It is strongly requested for the governments of the participating countries and organizations to nominate applicants who fulfill the qualifications for this training course and who have high motivation and strong commitments to address the current problems in their countries or organizations.
- (2) After successfully completing the training course at ICHARM, the organizations are expected to encourage their participants to share what they have learned in the course with the people and organizations concerned.

### 2. Qualifications of Applicants:

- (1) individual who holds a position of section chief or higher, or its equivalent, in organizations that are responsible for promoting comprehensive tsunami disaster mitigation in the next three to five years.
- (2) be nominated by their governments
- (3) have a good command of English<sup>\*)</sup>
- (4) be able to write reports in English<sup>\*)</sup>
- (5) be in good health to undergo the course of training
- (6) not be military personnel
- (7) be university graduates
- (8) have working knowledge of civil engineering or disaster countermeasures.

<sup>\*)</sup> **English proficiency is utmost important to take active participation in the course.**

### 3. Required Documents:

**Note: Application without any of these 4 following items will be out of the selections.**

**(1) Nomination Form** (See ANNEX I)

**(2) Application Report** (See ANNEX II)

Each applicant must prepare an "Application Report" on the present situation of his/her organizations and problems related to his/her own job. It must be typewritten in English, no more than 4 pages (12-point font, double-spaced, A4 size paper) and in the required format (see ANNEX II). It must be submitted together with the Nomination Form (ANNEX I). The Application Report will be used only for screening purpose and as training materials, only if applicant is selected.

**(3) Official Transcripts or Official Copy of Transcripts of university**

**(4) Official Copy of Diploma or Degree Certificate**

#### **4. Procedure for Application and Selection:**

**(1) Submission of the Documents for Selection:**

Governments desiring to nominate applicants for this training course must submit the required documents to the PWRI/ICHARM office by **April 23, 2008**.

PWRI/ICHARM Address:

**International Centre for Water Hazard and Risk Management (ICHARM)  
under the auspices of UNESCO**

1-6 Minamihara, Tsukuba, Ibaraki-ken, 305-8516 Japan

TEL: +81-29-879-6809, FAX: +81-29-879-6709

E-mail: [icharm@pwri.go.jp](mailto:icharm@pwri.go.jp), URL: <http://www.icharm.pwri.go.jp>

**(2) Selection:**

- 1) PWRI/ICHARM office will accept the documents for selection, carry out the pre-screening, and send the documents to UN/ISDR.
- 2) PWRI/ICHARM will carry out the screening jointly with UN/ISDR by **April 28, 2008** and decide the passed applicants out of those who fulfill the set qualifications described above in III.2.

\*\* 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:**

PWRI/ICHARM office will inform each applying government of acceptance or non-acceptance of its nominees' application **no later than April 30, 2008.**

## **5. Rules for Attendance:**

Participants are required to observe the following rules for attending the training course:

- (1) Not to bring any of their family members.
- (2) Return to their home countries at the end of the training course according to the international travel schedule designated by ICHARM.
- (3) Refrain from being engaged in political activities or any form of employment for profit or gain while residing in Japan.
- (4) Properly follow the rules and regulations of their places of accommodation and not to change accommodations that initially designated by ICHARM.
- (5) Obey the rules while attending the lectures or sessions at the training course.

**Note: Participants disobeying these rules will be subject to disciplinary sanction.**

## **6. Certificate**

Participants who have successfully completed the training course will be awarded a certificate by PWRI/ICHARM.

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# **IV. Administrative Arrangements**

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## **1. Travel to Japan:**

- (1) Air Ticket:

A round-trip air ticket between an international airport designated by ICHARM and Japan will be borne by ICHARM.

- (2) Travel Insurance:

Travel insurance is **not** insured by ICHARM.

## **2. Accommodation:**

ICHARM will arrange the following accommodation for the participants while in Japan:

### **Tsukuba International Center (JICA TSUKUBA)**

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

TEL: +81-29-838-1117, FAX: +81-29-838-1790 (81: country code for Japan, 29: area code)

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

## **3. Living Expenses:**

Following expenses will be provided for the attendees by ICHARM:

- (1) Allowances for accommodation and living expenses
- (2) Expenses for study tours; basically paid in the form of train ticket(s) or chartered bus.
- (3) Expenses for program implementation including materials

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# **ANNEX:**

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- |                 |   |
|-----------------|---|
| <b>ANNEX I</b>  | <b>Nomination Form</b>                    |
| <b>ANNEX II</b> | <b>Instruction for Application Report</b> |

## ***CORRESPONDENCE***

For enquires and further information, please contact ICHARM/PWRI.  
Address any other correspondence to:

### **International Centre for Water Hazard and Risk Management (ICHARM) under the auspices of UNESCO**

Address: 1-6 Minamihara, Tsukuba, Ibaraki-ken, 305-8516 Japan

TEL: +81-29-879-6809, FAX: +81-29-879-6709

E-mail: [icharm@pwri.go.jp](mailto:icharm@pwri.go.jp), URL: <http://www.icharm.pwri.go.jp>

**ANNEX I**

**Nomination Form  
for  
“COMPREHENSIVE TSUNAMI DISASTER PREVENTION  
TRAINING COURSE”**

Please fill in and submit this nomination form to [icharm@pwri.go.jp](mailto:icharm@pwri.go.jp) with the Application Report (ANNEX II)

Recent Photo of  
the Candidate

**PART A** To be completed by the nominee.

<b>1 FULL NAME</b> (as in Passport, underline Family Name)				
<b>2 ADDRESS FOR CORRESPONDENCE</b>	<b>4 DATE OF BIRTH</b>			<b>5 AGE</b>
	Month	Date	Year	
<b>3 NAME AND ADDRESS OF PERSON TO BE NOTIFIED IN CASE OF EMERGENCY</b>	<b>6 SEX</b>			
	<b>7 MARITAL STATUS:</b>			
	<b>8 NATIONALITY:</b>			
	<b>9 RELIGION:</b>			

**10 EDUCATIONAL RECORD**

Institution	City/Country	Years Attended		Qualification Obtained	Subject
		From	To		

**11 TRAINING OR STUDY IN FOREIGN COUNTRIES** (in relation to professional interests)

Institution	City/Country	Period		Certificate/ Degree Awarded	Field of Study
		From	To		



**ANNEX I**

**13 LANGUAGE PROFICIENCY**

1. English				
Listening	<input type="checkbox"/> excellent	<input type="checkbox"/> good	<input type="checkbox"/> fair	<input type="checkbox"/> poor
Speaking	<input type="checkbox"/> excellent	<input type="checkbox"/> good	<input type="checkbox"/> fair	<input type="checkbox"/> poor
Writing/Reading	<input type="checkbox"/> excellent	<input type="checkbox"/> good	<input type="checkbox"/> fair	<input type="checkbox"/> poor
2. Mother Tongue				
3. Other Language				
	<input type="checkbox"/> excellent	<input type="checkbox"/> good	<input type="checkbox"/> fair	<input type="checkbox"/> poor

**14. NOMINEE'S DECLARATION** To be signed by the nominee.

Date: .....	Signature: .....
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**ANNEX I**

**PART B** To be completed by nominee’s Director or Head of Department.

**OBSERVATION OF NOMINATING ORGANIZATION**

**1 Describe what work the nominee will be expected to do on his return.**

.....  
.....  
.....

**2. Explain how the proposed training will be of benefit to the work of your organization.**

.....

**ART C.** To be completed and signed by a responsible government official.

**OFFICIAL NOMINATION**

I certify that:

I have examined the documents in the form and I am satisfied that they are authentic and relate to the nominee.

I accordingly nominate this person.

Date:

Signature:

.....

Position:

Name:

Organization:

**ANNEX I**

**MEDICAL HISTORY AND EXAMINATION**

<b>MEDICAL HISTORY TO BE COMPLETED BY NOMINEE</b>			
<b>1 NAME OF NOMINEE</b> (last name, first name, middle name)			
<b>2 DATE OF BIRTH</b> (mo/day/yr)	<b>3 NATIONALITY</b>	<b>4 SEX</b> ____ Male ____ Female	<b>5 ADDRESS FOR CONTACT</b>
<b>6 NAME OF TRAINING COURSE /SEMINAR</b> "COMPREHENSIVE TSUNAMI DISASTER PREVENTION TRAINING COURSE"			
<b>7 LENGTH OF TRAINING COURSE/SEMINAR</b> (weeks, months) 6 weeks			

**8. IMPORTANT NOTICE**

Before you completed the Medical History Questionnaires, you are here by notified that:

A medical condition resulting from an undisclosed pre-existing condition may not be financially compensated for by JICA and may result in termination of your training program.

I understand and accept the terms of this notice.    \_\_\_\_ Yes \_\_\_\_ No

**ANNEX I**

**9. NOMINEE WILL CHECK “YES” OR “NO” AND EXPLAIN**

	YES	NO		EXPLANATION
a.			Have you had any significant or serious illness or injury? (if hospitalized, give place and dates.)	
b.			Have you had any operations or advice by a physician to have an operation? (Give place and dates.)	
c.			Do you currently use any drugs for treatment of a medical condition? (Give name and dose)	
d.			Have you ever been a patient in a mental hospital or sanitarium or treated by a psychiatrist? (Give place and dates)	

**10 NOMINEE WILL INDICATE “YES” OR “NO” TO EACH ITEM**

**DO YOU NOW HAVE OR HAVE YOU EVER HAD THE CONDITONS LISTED BELOW?**

(Check each item, if yes, enclose the relevant condition with a circle.)

	YES	NO	CONDITION
a.			Asthma, emphysema, or other lung conditions
b.			Tuberculosis or live with anyone who has tuberculosis
c.			High blood pressures, heart disease
d.			Stomach, liver (hepatitis), gall bladder disease
e.			Kidney or bladder disease, stone or blood in urine
f.			Diabetes(sugar in the urine)
g.			Depression, excess worry, attempted suicide, or other psychological symptoms
h.			Acquired Immune Deficiency Syndrome (AIDS)
i.			Tumor, abnormal growth, cyst, or cancer
j.			Bleeding disorder, blood disease(sickle cell anemia)

**I CERTIFY THAT I HAVE READ THE ABOVE INSTRUCTION AND ANSWERED ALL QUESTIONS TRULY AND COMPLETELY TO THE BEST OF MY KNOWLEDGE.**

11 PRINTED NAME OF NOMINEE	12 DATE	13 SIGNATURE OF NOMINEE
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## ANNEX II

### Instruction for Application Report for the training course on “Comprehensive Tsunami Disaster Prevention”

**Note:**

- (1) This Report must be submitted with the Nomination Form.
- (2) This report must be prepared by the applicant himself/herself.
- (3) Applicants without this report will be out of the selection.

**Remark:**

- (1) If there are any applicants who want electronic copy of this form of Application Report, please contact PWRI/ICHARM ([icharm@pwri.go.jp](mailto:icharm@pwri.go.jp)).
- (2) If available, please send us directly this Application Report to PWRI/ICHARM ([icharm@pwri.go.jp](mailto:icharm@pwri.go.jp)) by E-mail.

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**1. Please fill your following information.**

- (1) Name:
- (2) Organization:
- (3) Present Post:
- (4) Country:
- (5) E-mail:

**2. Please fill the following subjects about your organization and department.**

What are the Missions/Objectives/Roles of your organization? And what are the activities of your organization to achieve those goals?

*\* Please add the item according to the situation of your organization.*

- (1) Mission, Objective, Role:

Activities:

- (2) Mission, Objective, Role:

Activities:

**3. Please show your Organization Chart and indicate your position.**

Please attach your organization chart.

## ANNEX II

### **4. Please explain your job experience related to tsunami.**

*\* Please add the item according to your situation.*

(1) Period:

- 1) Organization;
- 2) Position;
- 3) Outline of duties;

(2) Period:

- 1) Organization;
- 2) Position;
- 3) Outline of duties;

### **5. Do you have any issues which you have to solve or any difficulties on your work?**

Yes       No

If “yes”, please describe the issues, difficulties and reasons (technical and organizational/institutional) in detail.

*\* Please add the item according to your situation.*

#### 5.1 Technical Aspects

(1) Issues, Difficulties:

Reason:

(2) Issues, Difficulties:

Reason

#### 5.2 Organizational/Institutional Aspects

(1) Issues, Difficulties:

Reason:

(2) Issues, Difficulties:

Reason:

## ANNEX II

### **6. In the fields of tsunami disaster mitigation, what topics are you interested in?**

Please describe the topics and the reason why you are interested in those topics

\* Please add the item according to your situation.

(1) Topics, Subjects:

Reason:

(2) Topics, Subjects:

Reason:

### **7. Please explain your expectation from this training course.**

### **8. Please explain your future plans to apply expected results of the training program in order to tackle tsunami disaster mitigation projects after returning to your country.**

### **9. If you have any request, please write down.**