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## **5-6. Education for Disaster Preparedness in Primary School in Thailand**

### **5-6-1. Background**

According to the survey\*) conducted by ADRC in Galle District, Sri Lanka in March 2005, 77.3%(multiple answer) of the respondents answered that the integration of tsunami disaster modules into the school curriculum as the most effective way to utilize the lessons from the past disasters and for preventing/mitigating a tragedy from recurring.

In addition, the survey testified that 90.4% of the school children wish to study about natural disasters, which revealed the children's high interest of learning natural disasters. Furthermore, 94.2% of them answered that they discuss what they learned at school to their parents in the homes. This means that by formal education of children in schools, we can expect information to be disseminated widely to the people.

Said survey also revealed that only 25.0% teachers answered that they had subjects for learning about natural disasters which functioning effectively. Many teachers feel the necessity of improvement or integration to the school subject. In this context, it has been clarified the request of disaster education in schools from both children and teachers.

Same as in Sri Lanka, Thailand is also one of the most tsunami affected country that Department of Disaster Prevention and Mitigation, Ministry of Interior endorsed to implement disaster education project over the discussion with Ministry of Education replying to ADRC's proposal funded by the UNESCO/IOC.

\*) URL; [http://www.adrc.or.jp/publications/Srilanka\\_survey/jp/Index.html](http://www.adrc.or.jp/publications/Srilanka_survey/jp/Index.html)

### **5-6-2. Objectives**

The project aims to:

- (1) strengthen tsunami disaster preparedness capacity in primary school;
- (2) build teachers capacity for disaster preparedness and management; and
- (3) disseminate the knowledge about tsunami and other natural disasters to the school children as well as their families

### **5-6-3. Duration**

From January to April 2006

### **5-6-4. Activities**

#### **(1) Compiling Existing Materials**

Compiled and reviewed existing educational materials on Tsunami and other natural disasters prepared for the primary school. To be familiarized and acceptable to the children in target country, the sources of materials involved those of target country.

#### **(2) Materials Development**

According to the discussion with the Ministry of Education, Phuket Education Area, principals of Tabulamu and Kalim schools prior to start the project, they already have had some tsunami materials developed and provided by related national/international organizations after the 2004 Indian Ocean Tsunami. But it is emphasized that teachers guide should be prepared and the training for teachers must be conducted to facilitate the real classes beforehand. Therefore, this project featured that developing not only textbook for school children but also teacher's guide for teachers.

Based on the existing tsunami educational materials such as those in Japan and U.S., new materials have developed with consideration of education level, educational policy and culture in target country. In developing materials, consultative committee was set up to discuss about the contexture and contents. The consultative committee members consisted of experts from UNESCO/IOC/ITIC, Kyoto University, Hyogo prefecture disaster education (Japan), officers in Ministry of Education and Ministry of Interior and teachers from target schools. Also, observers from UN/ISDR/BKK, UNESCO/BKK, UNICEF/BKK, JICA participated in the meeting.

<Consultative Meeting>

Date: 19 January 2006

Venue: Bangkok, Thailand

Meeting Agenda:

- Explanation of the background, purpose, methodology and expected outcome of the project
- Result of the analysis of existing materials, and explanation of the draft materials
- Discussion about the contents of the workshop



Fig.5-6-4-1 Consultative Meeting

<Textbook Contents>

Chapter 1 "The Earth", Composition of the Earth and plate tectonics

Chapter 2 "Earthquake and Tsunami", Tsunami Generation, Wave speed and height

Chapter 3 "Evacuation", Tsunami warning and reliable information, how to evacuate

Chapter 4 "Countermeasures", Evacuation route and safe place, family discussion

Chapter 5 "Short Story" Student's composition about Tsunami experience and family

\*) Pictures in the textbook were illustrated by local illustrator

**(3) Workshop**

Objectives: The main activities of the workshop are to;

- confirm the contents of Tsunami educational materials which were discussed at the consultative meeting and discuss about the way of teaching classes (1 day), and
- conduct pilot classes and evacuation drills, and review these activities to reflect the evacuation into materials

Date: 1-3, March, 2006

Venue: Phuket and Phang Nga, Thailand

Agenda:

- March 1 Explanation of the developed materials  
Discussion about the way of teaching classes  
Demonstration of the pilot classes of "The Earth" and "Preparedness"
- March 2 Pilot class and evacuation drill in Tablamu school, Phang Nga  
AM Pilot class for 20 pupils of grade 4 (6 boys and 14 girls)  
PM Evacuation drill participated in whole school of 128 pupils and 10 teachers
- March 3 Pilot class and evacuation drill in Kalim school, Phuket  
AM Pilot class for 36 pupils of grade 4 and 5 (17 boys and 19 girls)  
PM Evacuation drill participated in whole school of 103 pupils and 8 teachers



Fig.5-6-4-2 Pilot class in Kalim school



Fig.5-6-4-3 Evacuation drill in Tablamu

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### **5-6-5. Following activities**

**(1) Reviewing the teacher's guide**

**(2) Printing materials**

Student text book 10,000 copies (in Thai), 1,000 copies (in English)

Teacher's guide 1,000 copies (in Thai), 1,000 copies (in English)

**(3) One-day Seminar**

A seminar for 100 teachers from tsunami affected 6 provinces, namely Ranong, Phangnga, Phuket, Krabi, Trang and Satun will be held on 7 April 2006 to disseminate the basic knowledge of earthquake and tsunami, to explain the contents of the developed tsunami educational materials and to exercise of formatting class activities.