

MINUTES OF MEETINGS
BETWEEN
JAPANESE PREPARATORY STUDY TEAM
AND
THE GOVERNMENT OF THE REPUBLIC OF INDONESIA
ON
THE PROJECT ON CAPACITY DEVELOPMENT FOR
NATIONAL CENTER OF
INDONESIAN TSUNAMI EARLY WARNING SYSTEM

The Japanese Preparatory Study Team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA"), headed by Mr. Satoru Mimura, visited the Republic of Indonesia from May 27 to May 31, 2007, for the purpose of developing the framework of the Project on Capacity Development for National Center of Tsunami Early Warning System (hereinafter referred to as "the Project").

During its stay, the Team exchanged the views and had a series of discussions with the Indonesian authorities concerned. The attendants list of the discussions is attached as ANNEX I.

As a result of the discussions, both the Team and the Indonesian authorities concerned agreed on the matters referred to in the document attached hereto.

Jakarta, May 31, 2007

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Leader,
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witnessed by
Dr. Ir. Idwan Suhardi
Deputy State Minister for the Utilization and
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State Ministry for Research and Technology
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ATTACHED DOCUMENT

I. Basic Framework of the Project

The team and the Indonesian respective authorities confirmed the following as the basic framework. This framework was examined based on the request from the Indonesian side as well as the results from coordination meetings with other donor communities.

1. Title of the Project

The Project on Capacity Development for National Center of Indonesian Tsunami Early Warning System (hereinafter referred to as "Ina TEWS")

2. Project Implementing Agency

Meteorological and Geophysical Agency (BMG)

3. Target Group

The target group of the Project will be the staff of National Center of Ina TEWS who is going to operate the Tsunami Early Warning System.

4. Cooperation Period of the Project

The cooperation period will be twenty (20) months.

5. Outline of the Project

Overall goal

More accurate and reliable tsunami early warning system is developed in Indonesia.

Project purpose

Capacity of National Center of Ina TEWS is strengthened.

Outputs

- a. The institutional capacity of BMG headquarters on operating National Center of Ina TEWS is improved.
- b. The capacity of staff in National Center of Ina TEWS on operating Tsunami Early Warning System is strengthened.

Activities

- a-1) Reviewing overall plan of the Ina TEWS
- a-2) Installing M_{JMA} calculation formula into the seismic data processing and analyzing system (Seiscomp3)
- a-3) Developing tsunami simulation database and installing it into the tsunami analyzing system (Decision Support System)
- a-4) Preparing standard operation procedure of the Tsunami Early Warning System
- b-1) Conducting trainings on M_{JMA} calculation method
- b-2) Promoting operational exercises based on the standard operational procedure

6. Schedule of the Project

The tentative schedule of the Project is presented in the tentative Plan of Operation (PO) attached as ANNEX II.

II. Measures to be taken by both sides

For the implementation of the Project, both sides will take the following necessary measures.

1. Japanese Side

(1) Dispatch of experts

JICA will dispatch experts in the following fields.

- Seismic data analysis
- Tsunami early warning technique
- System operation and procedure training

(2) Provision of equipment

The equipments necessary for the effective implementation of the Project will be considered to provide within the budget allocated for the Project.

(3) Provision of trainings in Japan

JICA will provide counterpart personnel with technical trainings on tsunami early warning system operation in Japan

(4) Support for development of tsunami simulation database

JICA will provide financial and technical support to develop tsunami simulation database for following areas;

- Northern part of Bali-Flores (Flores sea)
- Northern part of North Sulawesi (Sulawesi sea)

(5) Workshop and lectures

JICA will support to hold workshop to present project achievements at the final stage of the Project. Besides, JICA experts will provide small lectures to staffs in National Center of Ina TEWS on the following,

- Mjma calculation method
- Tsunami simulation method
- Standard operation procedure

2. Indonesian Side

1) Assignment of counterpart personnel

The Indonesian side shall assign a sufficient number of capable counterpart personnel including administrative staff in order to assure effective implementation of the Project.

2) Provision of office space and facilities

The office space and its facilities shall be provided for the Project.

3) Allocation of budget

The following items will be allocated by the Indonesian side to maintain effective implementation of the Project.

- a) Salaries and other allowances for the Indonesian counterpart staff
- b) Expenses for utilities such as electricity and water
- c) Expenses for custom clearance, storage and domestic transportation of the provided equipment of the Project
- d) Expenses for maintenance of the facilities and equipment of the Project

e) Other contingency expenses related to the Project

III. Administration of the Project

1. Project Director

Deputy for Data and Information System, Meteorological and Geophysical Agency will bear the overall responsibility for the administration and implementation of the Project as the Project Director.

2. Project Manager

Director of Data and Information System Center for Geophysics will be responsible for the managerial and technical matters in the implementation of the Project as the Project Manager.

3. Coordination with related organizations

BMG will be responsible for the coordination with related activities by other organizations

IV. Preconditions and important assumption

Both sides have to address the following conditions to ensure their fulfillment.

- (1) Indonesian government policy on tsunami early warning does not change drastically.
- (2) Related activities such as development of seismic network system and tsunami analyzing system will be implemented as planned.
- (3) Budget and human resources for the Project is allocated/ assigned as planned.

V. Schedule before the commencement of the Project

When the Project is assessed and approved by JICA headquarters based on the results of the Preparatory Study of the Project, JICA and BMG will finalize the plan of the Project and sign the Minutes of Meeting (M/M) before the commencement of the Project.

VI. Others

1. Both sides agreed that BMG with the support of German consortium who develops tsunami analyzing system (DSS) shall take full responsibility to integrate tsunami simulation database supported by JICA into the tsunami analyzing system (DSS). The tsunami analyzing system (DSS) should be fully capable to incorporate the database. JICA will advise on effective utilization of the database.
2. Indonesian side requested that counter part training should be targeted not only operator level but also management level of the National Center of Ina TEWS.
3. There will be mutual consultation between JICA and the Indonesian side on any major issues arising from, or in connection with this document.
4. Indonesian side requested that the expert should conduct lectures on other fields like tide gauge analysis, cable-type ocean bottom tsunami observation system and so on.

ANNEX I ATTENDANT LIST
ANNEX II TENTATIVE PLAN OF OPERATION (P/O)

ANNEX I ATTENDANT LIST

Indonesian side:

Dr. P.J. Prih Harjadi
Deputy Director General for Data and Information System, BMG

Mr. Sunaryo
Director of Data and Information System Center for Geophysics, BMG

Dr. Fauzi
Head of Earthquake Engineering and Tsunami Division, BMG

Mr. Shardjono
Head of Earthquake Division, BMG

Mr. Budi Waluyo
Chief of Earthquake Early Information Sub Division, BMG

Mr. I. Putu Pudja
Director for Management Observation Center, BMG

Mr. Bambang Suprihagi
Chief of Cooperation Subdivision, BMG

Mr. Rahmad Triyano
Earthquake Subdivision, BMG

Mr. M. Riyadi
Chief of Earthquake Observation Subdivision, BMG

Mr. M. Husni
Head of Geophysical Instrumentation and Calibration Division, BMG

Mr. Azwir Wangyah
Head of Management of Geophysical Observation Division, BMG

Mr. Sajad Daryanto
Head of Geophysical Observation Network Division, BMG

Mr. Ibnu Purwana
Director of Center for Observation Network System, BMG

Dr. Ir. Idwan Suhardi
Deputy State Minister for the Utilization and Dissemination of Science Technology, RISTEK

Mr. Pariatmono
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Dr. Hamzah Latief
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Japanese side:

Mr. Satoru Mimura,
Preparatory Study Team, JICA

Mr. Yohei Hasegawa
Preparatory Study Team, JICA

Ms. Yuko Kuno
Preparatory Study Team, JICA



TENTATIVE PLAN OF OPERATION (P/O)

No.	Activities	Year / Month												2008												2009		
		5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7
a-1	Reviewing overall plan of the Indonesian Tsunami Early Warning System project																											
a-2	Installing MJMA-magnitude calculation formula into the seismic data processing and analyzing system (SeiscompP3)																											
a-3	Developing tsunami simulation database and installing it into the tsunami analyzing system (Decision Support System)																											
a-4	Preparing standard operation procedure of the Tsunami Early Warning System																											
b-1	Conducting trainings on MJMA-magnitude calculation method																											
b-2	Promoting operational exercises based on the standard operational procedure																											
Related issues																												
	Launch of SeiscompP3 proto type	★																										
	Launch of DSS proto type								★																			
	Launch of Indonesian Tsunami Early Warning System																											★
Input from Japan (within the Project)																												
(1)	Short term expert (Seismic data analysis)				↕																							
(2)	Lecture to counterparts (Mjma calculation method)				●																							
(3)	Short term expert (Tsunami early warning technique)								↕																			
(4)	Lecture to counterparts (Tsunami simulation method)								●																			
(5)	Long term expert (System operation and procedure training)																											↕
(6)	Lecture to counterparts (SOP)																										●	
(7)	Counterpart training in Japan (System operation)								↕																			
(8)	Workshop																											●

15-10-02