

IN/IR -219

- Technical staff : Fax : +62-21-6546316
e-mail : sunaryo@bmg.go.id
: SUHARJONO MSc
Chief of Earthquake Division
Center for Geophysical Data and information System
Tel : +62-21-65866502
Fax : +62-21-6546316
e-mail : suhard@bmg.go.id
- Technical staff : FAUZY MSc PhD
Chief of Earthquake Engineering and Tsunami Division.
Center for Geophysical Data and information System
Tel : +62-21-6546316
Fax : +62-21-6546316
- Technical staff : Masturyono MSc PhD
Chief of Geopotential and Time Signal Division.
Center for Geophysical Data and information System
Tel : +62-21-6546316
Fax : +62-21-6546316

b) Data and information

- Authorized criteria for the issuance of Tsunami Early Warning such as level of warning, foreseen tsunami height, etc.
- Authorized regional partition for the issuance of Tsunami Early Warning
- All other existing data and information necessary for the Project

c) Office space in proper security condition with the following facilities

- Room
- Desks, chairs, lockers, a photocopy machine, a laser printer
- Air conditioners, electric outlets, a telephone facility, a facsimile machine and LANs connecting the outside

d) Running expenses

- Power, telephone and water fees for office work
- Photocopy papers and toner for the photocopy machine and the printer

(6) Input from the Japanese Government

(Number and qualification of Japanese experts, training – in Japan and in-country courses, seminars and workshops, equipment. etc)

- A short-term expert of Tsunami Early Warning System (10MM)
- A long-term expert of Tsunami Early Warning System (15MM)
- Counterpart training in Japan (4M/M)
- Equipment of the Tsunami Early Warning System

IN/IR-219

7. Implementation Schedule

Month Year -- Month Year

June 2007 to March 2009

A desirable schedule of each major work item is as follows.

Work Item	Month																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1 Preparation	█	█	█	█																					
2 Setting-up of Tsunami data processing system (Hardware and accessories)		█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
3 Improvement of calculation method of magnitude in Earthquake Processing and Analyzing System			█	█	█	█																			
4 Installation and operation of Empirical Tsunami Analyzing System				█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
5 Assistance of establishment of Tsunami simulation database done by ITB			█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
6 Installation, operation, and expansion of Quantitative Tsunami Analyzing System													█	█	█	█	█	█	█	█	█	█	█	█	█
7 Preparation of operation of Tsunami Early Warning System																									

8. Implementing Agency

(Budget, staffing etc)

(1) Role

Meteorological and Geophysical Agency (BMG) is a government organization operating directly under the President of the Republic of Indonesia. BMG should function to formulate national policy, coordinate related activities such as observation, data processing, analysis, and providing services in the field of meteorology, climatology, air quality, and geophysics.

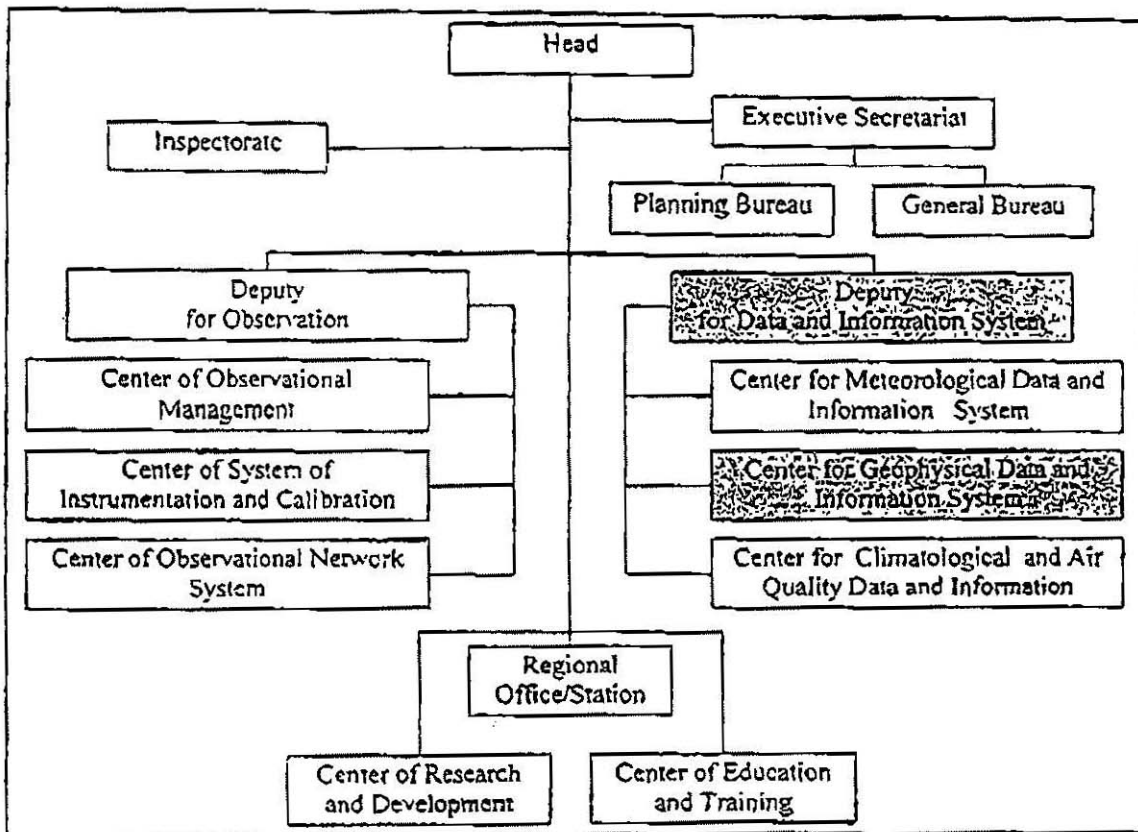
It is mainly responsible for monitoring meteorological phenomena round the clock, and providing weather information, including warning to concerned agencies and mass media, for disaster mitigation, socio-economic activities, safety of transport, agricultural production.

Presently, BMG should enhance its capability on earthquakes and tsunami since the Ministerial decree stipulates its major role on the operational component of Tsunami Early Warning System as mentioned in section "5. Background (2) Government's development policy for the sector".

(2) Organization

IN/IR -219

The organization chart of BMG is shown in the figure below.



(3) Staff

There is a staff of 613 working in the head office, and other 3,412 in 10 regional offices, as well as 120 meteorological stations, 31 geophysical stations, 21 climatologic stations, and 1 global atmosphere watch station.

Under the Deputy for Data and Information System, there are 110 staffs, consisting of 10 officers, 10 administrative staffs, 6 IT engineers, 74 engineers of geophysics, and 10 non-earthquake (tsunami) engineers.

(4) Budget

The budget of BMG is as follows.

		Unit 1,000 Rp.				
Year	2003	2004	2005	2006	2007	
Total	129,971,994	203,466,339 +40,000,000 (Supplementary)	252,837,100 +50,000,000 (Supplementary)	536,514,700	657,073,132	
For projects related to Tsunami			28,000,000	90,000,000	72,000,000	

IN/IR - 219

9. Related Activities

(Activities in the sector by the recipient government, other donors and NGOs)

As mentioned in section "5. Background of the Project (4) Existing development activities in the sector", BMG is carrying out the following activities in order to complete the Tsunami Early Warning System.

- Installation of earthquake monitoring equipment (seismic sensors, accelerometers, and tremors) and data transmission facilities
- Installation, operation, and maintenance of Earthquake Processing and Analyzing facilities, together with training

Commitment achieved up to the present

CTBTO	6 Seismic Sensor (included 1 UCSD)
	Telecommunications
	Software for Processing
	Training
	Maintenance
Germany	21 Seismic Sensor
	21 Accelerometer
	10 GPS - Buoys
	10 GPS - Tide gauge
	Set for Telecommunication
	Processing Facilities
	Training in Germany and Indonesia
	Maintenance
NIED-Japan	15 Seismic sensor
	15 Accelerometer
	Processing Facilities
	Training in Japan and Indonesia
	Maintenance
France	Simulation System of Network Capability
	Installation of 2 Tremors
	Upgrade of the existing French Network
	Training
China	10 Seismic Sensor
	10 Accelerometer
	Set for Telecommunication
	Processing Facilities
	Training in China and Indonesia
Government of Indonesia (BMG)	108 Seismic Sensor
	448 Accelerometer
	10 Processing Facilities for the regional centers
	Telecommunications
	Infrastructure

IN/IR -219

	Training
	Maintenance

Through the above activities, BMG will establish at an early date a part of Tsunami Early Warning System, able to produce input data to be used for this Project.

10. Gender Consideration

(Any relevant information of the project from gender perspective)

There is neither adverse effect nor unevenness of beneficiaries in terms of gender.

11. Environmental and Social Considerations

(Please fill in the attached screening format)

There is no adverse effect related to implementation of the Project from environmental and social viewpoints, since the activities are limited in capacity development and installation of system concerned (hardware and software) to the BMG head office.

12. Beneficiaries

(population for which positive changes are intended directly and indirectly by implementing the project)

The whole population of Indonesia (approximately 207 million) will benefit from the Project. Among them, tens of millions of people who live in coastal area, suffering from possible tsunami disasters are direct beneficiaries. The rest of the population, who will suffer from economical, social, and psychological damages by possible tsunami disasters affecting Indonesia, will be indirect beneficiaries.

13. Security Conditions

There is no particular security problem in Jakarta where the Project activities will be carried out.

14. Others