

3. The Project Outcomes, Implementation Operational Challenges, Lessons Learned, and Ingenuity

3.1 Overall

(1) Challenges of Project Implementation

1) Establishment of Project implementation organization

The project team made efforts to establishment project implementation organization with the Indonesian counterparts from the beginning of the project; however, the scheme of Technical Assistant was not fully understood, and time needs be taken to make them fully understand. In the project, there are three main locations including activity: in Jakarta at the beginning, later at North Sulawesi Province as the first pilot province, and then West Nusa Tenggara Province as the 2nd Pilot Province; therefore, the number of involved counterparts is enormous and caused difficulty for implementing the project. However, the establishment of a relationship with counterparts is indispensable for smooth implementation of the project and needs to respond politely with certain time spent. In the course of the period of project implementation, the PD of the project, head, and counterpart of Province, Regency, and Municipality BPBDs frequently transferred, and needed to establish the relationship from the beginning and, this slightly affected for project implementation.

2) Implementation of effective and efficient technical transfer

Because of the limitation of a dispatch schedule of Japanese experts to Indonesia, it is necessary to consider an appropriate methodology to implement self-sustained activities continuously. At the time of the Japanese experts' stay in Indonesia, they mainly concentrated on technical discussions and instruction to counterpart personnel by holding series of workshops; however, in order to keep work going by the counterpart, it is necessary to establish an implementation system and, for an effective and efficient technical transfer, the implementation system must be strengthened. Moreover, for sharing the progress of project activities in the Pilot Provinces, the expert team mostly stayed in the pilot area, causing difficulty to intensively share the contents of the activities and their progress because of limited time in Jakarta.

In the pilot activities, workshops are mainly implemented as the primary methodology of technical transfer, and these workshops were implemented in the meeting room of the BPBD Province office and, with the view of sustainability, transportation costs to participate in the workshops are shared with regencies/municipalities; therefore, the issue was to secure the number of participants for each workshop. Many issues remain regarding how to follow up with regencies/municipalities that have not participated in the workshops.

3) Flexible project implementation

Due to the 4-year span of the project, the project implementation is expected to be flexible. And, as wide coverage of disaster management, it is expected to respond to requests from the counterpart as much as possible. Moreover, due to changes in the situation, the project scope is expected to change, and in order to implement the project smoothly, many times, a flexible response is necessary.

4) Establishment of a relationship of mutual trust

Many members of the expert team include those involved with the project and BNPB since 2007. Because of the relationships established in the past, the project can be implemented smoothly with mutual trust; however, the number of counterparts is enormous and needs time to establish mutual trust with all counterparts.

(2) Ingenuity for Issues, effects of the Project and lessons learned

1) Thorough Discussion with counterparts

While Japanese experts were in Indonesia, thorough discussions were had with Indonesian Counterparts, and continued until the Japanese experts were convinced of their understanding. These discussions were had not only with counterparts but with researchers and relevant organizations. Since the project involved many stakeholders, the opportunity for thorough discussions was prepared; this resulted in a shortage of time. However, this opportunity was important for the smooth implementation of the project.

Moreover, in the pilot activities, it was difficult for BNPB officials to participate in all workshops because of their busy schedules. The BNPB is an institution to supervise disaster management efforts; it is expected to understand local activities and to obtain capacity to be able to disseminate similar activities of the project nationwide. Therefore, at the time of entering and exiting Indonesia, the Japanese experts stopped by the BNPB office and prepared an opportunity to share components and progress of activities. Through these activities, even though the time spent directly in the pilot provinces was limited, all stakeholders understood the project activities and became dedicated to ensure mutual understanding among all stakeholders.

2) Permanent allocation of local consultants

In the technical assistance project, in order to implement project activities proactively by Indonesian counterparts, follow up activities while the Japanese experts were not in Indonesia were necessary. In this project, the team allocated local consultants permanently throughout the implementation period of the project. They are mostly executed directly by the person who already had experience working with team members and fully understands the project components with outstanding skill and mutual trust. From the beginning of the project, they have acted as connecting the Indonesian counterparts to the Japanese expert team, and when the

Japanese experts are absent, they act as representatives of the project members giving technical transfer to the counterparts. At the Counterpart Training implemented before the start of pilot activities, local consultants also participated, and developed mutual trust with all participants who are mostly head of BPBDs from Provinces and each regency/municipality; these activities were dedicated to the smooth implementation of the project.

3) Activities to motivate counterpart personnel

The expert team introduced many advanced examples and efforts made by Japan to attract the attention of the counterpart personnel and prepared materials to match the level of understanding of the counterparts. In addition, a counterpart training in Japan was carried out with participation of the BNPB, BPBD Province and BPBD regencies/municipalities. All participants understand the role of each level, including government, private enterprises, and the community for disaster management. In Japan, the culture of disaster management is mature, and each stakeholder is actively involved with disaster mitigation activities; by learning from this situation, every participant was inspired to become dedicated to promoting active participation for the project activities and showing strong leadership.

In particular, as a good example, it includes the demonstration of strong leadership after participation of C/P Training in Japan by Mr. Jeffry Wowiling, head of BPBD, Bitung Municipality, North Sulawesi Province as a first Pilot Province. Through learning Japanese Holistic Disaster Management Approach became eye opening opportunity for him, and after coming back from Japan, Mr. Jeffry showed his strong leadership and all C/P from BPBD Bitung participated intensively to project activities, and observed their eagerness to obtain knowledge from Japanese Experts. In fact, during the project implementation period, BPBD Bitung succeeded to increased budget from 1.1 Billion Rupiah in 2012 to 6.2 Billion Rupiah in 2015 drastically, and after completion of project activities in North Sulawesi Province, they implemented similar activities by their own such as disaster management exercises, and implementation of activities indicated in the RDMP. Mr. Jeffry was transferred as head of Environment Agency, however, he transferred his knowledge to the new head as well as C/Ps from BPBD Bitung continues their activities, and can expect future sustainability as one good practice through implementation of the project. Mr. Jeffry also joined 2nd C/P Training in Japan targeting for 2nd Pilot Province, West Nusa Tenggara Province, and shared and discussed on lessons learned and good practice from the project with the participants from BPBD Province and all Regencies/Municipalities from West Nusa Tenggara Province, and showed good ripple effect, and improved effectiveness of C/P Training. Furthermore, he with C/P from Bitung Municipality made presentation at Kick-off Workshop in West Nusa Tenggara Province, as well as participated to the Public Forum event at the 3rd UN World Conference on Disaster Risk Reduction in Sendai as resource person to disseminate effectiveness of implementation of the project.

Through these activities, as individuals and as organizations to understand the importance of disaster management and necessity of coordination, and to make recognize of responsibility to secure lives of citizens in their region, which helped smooth implementation of the project as well as moved forward to implement disaster management efforts in the future by each BPBDs..

4) Ingenuity to secure sustainability

In the project, as indicated before, in the course of implementing the project activities, the expert team requested sharing the cost of holding workshops. The expert team covered the main large-scale workshops such as kick-off and wrap-up workshops at the beginning and completion of each pilot province activity, the province BPBD covered the venue for the small workshops for each output, and the regency/municipality BPBD covered transportation costs to participate in each workshop. By applying cost sharing, participants recognize responsibility for their part in each workshop. Moreover, in order to implement project activities proactively by each counterpart, the expert team emphasized recognition of each participant involved in the very important activities directly connected to the safety and security of people in their own region. Each counterpart has a different level of ability, however, and several key active counterparts existed through these key individuals' project activities.

5) Assistance to promote disaster management activities in Indonesia

In the project implementation period, through the counterparts, events related to disaster management were held requiring active participation. At the time of the implementation of the pilot activities, several large-scale disasters occurred, causing flooding and sediment damage, as well as volcanic eruption, all supported by emergency response operations. The expert team tried to be actively involved as much as possible, applying Japanese disaster management technologies. These efforts were also dedicated to the smooth implementation of the project activities in the pilot provinces.

6) Selection of activities based on the ability of the counterparts

The ability of the Indonesian counterparts is different according to the level of government. Therefore, based on their ability, the expert team set targets and implemented discussions and instructions based on the ability level. Moreover, when the ability of counterparts is relatively low, finely tuned instructions were made and enough time was spent to explain them, mainly through follow-up activities.

(3) Items and challenges for Indonesian side to be implemented

1) Continuous assistance to enhance the disaster management capacity of regency and municipality BPBD by BNPB

The Project designed the activities which are necessary for BPBD as basic skill and implemented technical assistance to regency and municipality BPBD in cooperation with

provincial BPBD and BNPB. Throughout the Project activities, capacity of BPBD in North Sulawesi and West Nusa Tenggara Province where the Project appointed us the pilot provinces has been enhanced. Since Indonesia has 34 provinces and the outcome of the Project needs to be expanded to remaining 32 provinces. It is desirable that BNPB assists other provinces utilizing the result of the project and training facilities owned by BNPB. At the same time, BNPB is the national coordination agency for disaster risk management and needs to coordinate related agencies and formulate national policy for disaster risk management as a national agency. In this reason, it is desirable that the technical assistance to BPBD to be effective and efficient. Since the basic activities are covered by the Project activities, utilizing the outcome of the Project is efficient to promote the technical assistance.

2) Continuous utilization of the Project outcomes and its improvement

The Project assigned a large number of regency and municipality BPBD officers as C/P. It is the tendency of Indonesian government officers that the officers are transferred to other agencies in every several years. Even though the outcome of the Project such as Hazard Risk Map and RDMP remains in the agency but further efforts to maintain and utilize the outcome is essential. Proper arrangement, sharing of the outcome and incorporating the outcome into their routine works are essential.

3) Mutual monitoring among BNPB, provincial BPBD and regency and municipality BPBD

Periodical monitoring is necessary to continue the activities and implemented by the Project. The activities are not effective if only implemented once but effective by continuously implementing. In this sense, mutual monitoring among BNPB, provincial BPBD and regency and municipality BPBD. Appropriate monitoring and evaluation will enable for these agencies to implement effective disaster risk mitigation activities.

3.2 Output 1

(1) Output

- Technical guideline for acquiring and accumulating disaster data/ information for regencies/ municipalities
- 5 disaster information formats in emergency response and pre-disaster phase

(2) Challenges of Project Implementation

1) Necessity of dissemination of standard methodology based on BNPB Regulation NO.8

When disaster happens, disaster information is collected in the affected area and relayed to the local disaster management organization. Then, the local disaster management organization accumulates the disaster information from each affected area and submits a report to the disaster management organization at the national level. This procedure is part of the standard

methodology related to disaster information. The BNPB plays a central role and follows this procedure for utilization of disaster information in Indonesia. Also, the BNPB publishes official guidelines regarding disaster information, named “BNPB Regulation No.8 (2011)”. However for the actual implementation, using only the guideline would not be sufficient, because there are few description about how to gather, transfer and accumulate the disaster information by regency/municipality level disaster management organization in this official guideline.

2) Actual status of disaster information sharing and reporting at the regency/municipality level

In the JICA Study (Natural Disaster Management Planning), it was observed that statistical data on disasters at the regency/municipality level, after having been reported to the province in a certain period after the disaster, were not stored or managed systematically. For the smooth and appropriate emergency response in affected areas, basic disaster information should be collected based on a unified disaster management system in the pre-disaster and emergency response phases. Especially during the crisis management phase, transmission of quick, certain, organized and understandable information is essential. And in the present state at North Sulawesi province, almost every regency/municipality level disaster management organization already has an original format. However, items that included in each one are quite different.

(3) Ingenuity for Issues, effects of the Project and lessons learned

1) Formulation of easy-to-understand formats and technical guideline

Unified disaster information formats focused on local government officers of the BPBD were formulated. There are 5 disaster information formats in emergency response and pre-disaster phases. These formats were carefully examined based on meetings with local officers of the BPBD, several workshops, and basic information from “BNPB Regulation No.8 (2011).” And the Technical Guideline related to disaster information focused on local government officers of the BPBD was formulated. In the Technical Guideline, a specific method for collecting/accumulating disaster information and submitting a report to the BNPB are mentioned. The Technical Guideline with examples of disaster information formats was kept in mind as easy to understand for local government officers.

2) Utilization formats and technical guideline in real natural disasters

Disaster information formats and a technical guideline were prepared as the final output of activity 1. These outputs were utilized for efficient disaster related information gathering when a flood occurred in Manado in 2014. As information gathering from all affected areas was implemented based on the same formats, it was easy to develop the database from each report from different area based on unified items of formats. This database was utilized to share with related organizations the flood affected situation maps that GIS corner in BPBD province created and updated using GIS software. Provincial, regional and municipality BPBD

understood the importance of disaster information in pre-disaster phase and they tried to utilize the specific method related to collect disaster information and to create flood affected maps in emergency response of flood disaster in Manado. However, it is necessary to build the capacity of BPBD officers by hands-on experience in the field. In order to achieve the goal, continuous activities are essential.

On the other hand, this is only a one-time lesson during the pilot activity in North Sulawesi province. For making better disaster information formats and technical guideline, it is necessary that local government officers utilize these outputs in real situations more.

3) Expand nationwide activity

Activity of output 1 was carried out in only North Sulawesi Province. A lot of meetings with all local government officers of BPBD in North Sulawesi Province were conducted. The project team had various topics with officers in these meetings as follows: the present situation related to collecting/accumulating disaster information at the local level, formulation of disaster information formats and a Technical Guideline, issues to be solved, etc. Also the project team held 3 official workshops with local government officers in Manado. It was contributed to strengthen their knowledge and experience for disaster information activity in North Sulawesi Province.

However, these activities should be expanded nationwide in Indonesia for the success of this activity. Continuous cooperation and support from BNPB is needed.

(4) Items and challenges for Indonesian side to be implemented

1) Dissemination of disaster information formats and technical guideline

Disaster Information Formats and Technical Guideline were developed with BNPB and BPBD in North Sulawesi Province. Collecting and accumulation of disaster information should be carried out in all provinces in Indonesia. In order to achieve the goal, it is necessary that BNPB and provincial BPBD, as main actors, disseminate these outputs through workshops and conferences.

2) Collection, accumulation and disclosure of disaster information in the field level

Capacity of local staff will be enhanced by practicing information collection during normal time and disaster time. It is important for BNPB and BPBD staffs to repeat this activity during pre-disaster and emergency response phases with the Formats and Technical Guideline. It is also important to upload the accumulated information into database such as DIBI. It is necessary to consider that everyone can access disaster information anytime and anywhere.

3.3 Output 2

(1) Output

- Technical guideline for Creation of Hazard and Risk Maps for Regencies/Municipalities
- Hazard and risk maps of all regencies and municipalities in pilot province
(North Sulawesi Province: Total 15 regencies/municipalities, West Nusa Tenggara Province: 10 regencies/municipalities)

(2) Challenges of Project Implementation

1) Relationship between BNPB and Responsible Organizations regarding Development of Hazard Map

As mentioned in task (8) in Section 2.4, regarding hazard in Indonesia, development of various manuals and hazard maps is being proceeded with at the initiative of each responsible organization. There is role sharing among relative agencies and organizations, for example, BNPB handles disaster risk assessment based on hazard information developed by the responsible organizations. However, the hazard information developed by each responsible organization mainly target at nation, province and some representative regencies/municipalities with high population density, and the approach to develop hazard information at regency/municipality level across the country is not proceeded with.

2) Continuous Operation of GIS Corner in Provincial BPBD

Nowadays, GIS software becomes a crucial tool for hazard and risk mapping. In this Project, the GIS corner was established in Provincial BPBD, and hazard/risk mapping proceeded with cooperation of staff of Provincial BPBD and the local staff. However, there are several issues remaining for continuous operation of the GIS corner after termination of the Project. For example, staff of Provincial BPBD handles a lot of other work, staffs who are used to operate GIS software are only a few members, and they may transfer to other post after a few years.

(3) Ingenuity for Issues, effects of the Project and lessons learned

1) Implementation of disaster risk assessment appropriate for regency and municipality level

In this Project, activities had been carried out resolving challenges one by one by creating hazard and risk maps and conducting actual disaster risk assessments at the regency/municipality level and giving those solutions and findings to the BNPB since the BNPB has been preparing a disaster risk assessment guideline at the regency/municipality level. Output of technical transfer through workshops is shown in Section 2.4. “Technical guideline for Creation of Hazard and Risk Maps for Regencies/Municipalities” was prepared through the activities in the pilot provinces of North Sulawesi Province and West Nusa Tenggara Province, and was completed as the final version (Ver. 2.0) in September 2015.

The hazard maps were prepared by utilizing hazard potential assessment methodology developed by Indonesian responsible organizations at the maximum, and for some disasters or parts that were difficult to apply using the existing Indonesian methodology at the regency/municipality level, proposed methods by JICA's project and historical disaster mapping methods based on collected disaster records were utilized for mapping. Then, the development of effective hazard maps for regency/municipality-level disaster risk assessment had been encouraged to BNPB. At the first of the project, BNPB had been not forward enough to be involved in a hazard mapping for a reason of responsibilities with related organizations for hazard. However, by inputs from JICA expert team regarding the implementation results of proposed hazard mapping in the pilot activities and the results of discussion with authorities of each disaster in Indonesia, BNPB understood the importance to prepare available hazard maps for utilization of regency/municipality-level disaster risk assessment and the necessity of working on related organizations. Especially, regarding earthquake hazard, BNPB conducted several workshops and internal meetings to invite responsible organizations of earthquake hazard for carrying out more in-depth discussion on earthquake hazard mapping for utilization of regency/municipality-level disaster risk assessment. Through those discussions, regarding the creation of an earthquake hazard map at the regency/municipality level, the methodology proposed in this Project will be applied nationwide. It is expected that outputs from this Project will be utilized for future activities upon creation of a hazard map or disaster risk assessment in Indonesia.

2) Continual implementation of on the job training

Creation of hazard and risk maps that target eight disasters (nine disasters including banjir bandang) was carried out in 15 regencies/municipalities in North Sulawesi Province (the first pilot province) and 10 regencies/municipalities in West Nusa Tenggara Province (the second pilot province). Activities were conducted by determining the most appropriate work sharing between the C/P and the GIS corners established in the Provincial BPBDs, in consideration of the present capacity of C/Ps of the BPBDs in provinces and regencies/municipalities.

Technical transfer was conducted in the Project through preparation of GIS operation manual, GIS technical training and on the job training. Also, the Project Team explained to the chief of Provincial BPBD that the GIS corner could utilize for the other objectives like collection and mapping of damage condition for emergency response in actual disaster, and proposed continuous employment of a GIS engineer by Provincial BPBD like BAPPEDA and PU in province.

The both pilot activities at North Sulawesi province and West Nusa Tenggara province had been started even as there were acute shortages of human resources and equipment for map creating in the most provincial BPBDs and regency/municipality BPBDs. For implementing the capacity enhancement activity for hazard and risk mapping, the GIS corners had been established in both

provincial BPBDs to support hazard and risk mapping activities by each regency/municipality BPBD and all of C/Ps in provincial BPBDs and regency/municipality BPBDs had been implementing the activities with JICA Expert Team through a lot of trial and error processes. At the first period of the both pilot activities, a lot of C/Ps of provincial BPBDs and regency/municipality BPBDs had a vague idea as the maps for disaster management activities were obtained from other responsible agencies. However, through several times of workshops and follow-up activities, JICA Expert Team suggested that disaster risk maps should be developed by BPBD themselves as the responsible agency of disaster management and explained that hazard and risk maps would be utilized for the preparation of disaster-related plans, the implementation of disaster prevention drills and the activities for community-based disaster risk management continuously. As a result of those inputs, changes in C/Ps' consciousness had been shown gradually and their approaches had become more proactive than before. One of specific manifestation about their positive approaches, the implementation of GIS technical training that were not originally planned had been requested from C/Ps in regency/municipality BPBDs in order to get to be able to utilize GIS software by themselves for hazard and risk mapping. Through the practices of GIS operation at a few technical training and follow-up activities, they had gotten specific know-how to operate GIS software for creating historical disaster maps and disaster risk assessment by themselves.

3) Linkage with Output1

It is important to reflect record of disaster that will occur in future to the hazard map; therefore, linkage of Output1 is also important for collation and accumulation of hazard data. In Output 1, a system was established for BPBD of regency/municipality to collect damage information from affected area using common format when disaster occurs, and to communicate to a governor/mayor, Provincial BPBD and BNPB. Disaster record/information collected using the format of Output 1 is effective to accumulate as an attribute data (database) of spatial data (shape file) of disaster location and area at the GIS corner in Provincial BPBD. In this project, the methodology for creating historical disaster maps based on the historical disaster records that were gathered by regencies and municipalities BPBD using unified formats and for centralized management of regencies and municipalities BPBD's disaster records by GIS corner in BPBD province were transferred.

At the flood disaster in Manado which happened during the pilot activity in North Sulawesi province, GIS corner in BPBD province created and updated flood affected situation maps using GIS software based on information gathered from all affected areas by unified formats, and those maps was utilized to share with related organizations. The enhancement of the system for accumulation and management of disaster information by GIS corner is expected to proceed with future disaster record/information collection in collaboration with all regencies and municipalities in the pilot provinces.

(4) Items and challenges for Indonesian side to be implemented

1) Technical tradition of the capacity for map creating in provincial BPBDs and regency/municipality BPBDs

For C/P's capability of creating maps will become colonized in each provincial BPBD and regency/municipality BPBD, the know-how acquired through the pilot activities should be shared with other staff of the same organization and handed down their successors even when they will be transferred. It is expected as one of the specific actions for technical tradition to establish a new duty in each BPBD office for updating historical disaster maps and hazard & risk maps that has been created through this project and to utilize organizationally their mapping capability as means to other activities for disaster prevention and emergency responses in own office. It may be not easy to secure the human resources and to maintain software and hardware related for map creating due to a limited budget in each BPBD, but it is expected that the C/P's mapping capability will be handed down from staff to staff in each provincial BPBD and regency/municipality BPBD based on the utilization of license-free GIS software which was adopted at the time of technology transfer in this project.

2) Support to self-directive implementation of disaster risk assessment by Regency/Municipality BPBDs

Disaster risk assessment requires specialized knowledge and skills as spatial data analysis using the GIS software based on a wide variety of input data. For this reason, BNPB had conducted their own pilot activities of regency/municipality-level disaster risk assessment at the selected regencies and municipalities by BNPB's resources and technology. In the future, in order to further improve the disaster management capacity in each region of Indonesia, it is desirable to come to be able to carry out their own disaster risk assessment without assistance by BNPB, even though there are difficulty to encourage their independence uniformly for different in actual financial status and maturity of organization in each regency/municipality of Indonesia.

From the point of technical assistance, it will become conceivable measures to entrust implementation of disaster risk assessment to private consultants or NGO in Indonesia, which has specialized knowledge and skills of spatial data analysis, by regency/municipality BPBD, if they are not possible to manage the all parts of disaster risk assessment. For improvement of the nation-wide disaster management capacity in Indonesia and for reducing the effort of BNPB, it will become one of the specific actions to create a mechanism for promoting a consignment contract with private sector based on terms of reference which prepared by regency/municipality BPBD to implement disaster risk assessment in own region. It is expected that BNPB will indicate a policy for self-directive implementation of disaster risk assessment by regency/municipality BPBDs using the resource of private sector in Indonesia.

3.4 Output 3

(1) Output

Output 3-1

- Regional Disaster Management Plan of each regency/municipality
(14 regencies/municipalities in North Sulawesi province, 8 regencies/municipalities in West Nusa Tenggara province)
- Technical Guideline for Formulation of Regional Disaster Management Plan for Regencies/Municipalities
(Including RDMP Formulation Support Application)
- Sample Regional Disaster Management Plan

Output 3-2

- SOP for each Regency/Municipality
- Technical Guideline for Formulation of SOP

(2) Challenges of Project Implementation

Output 3-1

1) Budget less of each regency and municipality BPBD

Participation in the workshop is covered by the budget of each regency and municipality. It is a present condition that the budget size of each regency and municipality BPBD is very small; some regency and municipality BPBDs had difficulty even ensuring there were enough budgets to participate in the workshop. It has become one of the factors contributing to the low participation rate of the workshop in North Sulawesi province.

2) Coordination with stakeholders

For the formulation of a regional disaster management plan, coordination is required with not only related agencies of the regency/municipality but also with many stakeholders. However, it is difficult in the current situation for regency/municipal officials to coordinate for disaster management activities with many stakeholders because of low capacity.

Output 3-2

1) Unclear existing of Contingency Plan and SOP (Standard Operation Procedure)

In Indonesia, in order to be able to response in emergency situation promptly and efficiently, formulation of Contingency Plans and SOPs are to be formulated. Issues can be found as contents for these documents are different from each Regencies and Municipalities if compared the documents in Indonesia. And, Contingency Plans are formulated with the contents of

mobilization of human resources, equipment, emergency good, and commodity goods at the situation of occurring disaster in the short time. The contents are based on several scenarios, however, Contingency Plan has different characteristics from SOP, which is prepared no matter the occurrence of disaster or not, to be prepared for future occurrence of disasters and this document contains actions and based on these actions role and responsibilities and methodology are indicated.

Essentially, SOP, as indicating step by step procedure of emergency response actions based on scenario or ordinal manner, supposed to be formulated in advance before occurrence of disasters, and based on implementation of TTX and CPX, procedures of emergency response activities are confirmed, and these efforts will lead the smooth implementation of emergency operations. Recently, discussion to combine Contingency Plan and SOP are undergoing and it is strongly expected.

2) Difference of formulation status of Contingency Plans and SOPs by each Regencies/Municipalities

At the beginning of activities in the 1st Pilot Province, status of formulation of Contingency Plans and SOPs were confirmed. As a result, except Regencies/Municipalities responding Volcanic Disaster, very limited Regencies/Municipalities were formulated these documents, and due to limited experiences on formulation, their capacity of understanding and formulation skill were very limited. Moreover, contents of description are also greatly different, and it was necessary to promote unified and user friendly contents on the process of formulation of SOPs.

(3) Ingenuity for Issues, effects of the Project and lessons learned

Output 3-1

1) Promotion for ensuring of budget

The JICA Expert Team, in the West Nusa Tenggara province which is second pilot province, requested BPBDs to secure the budget for this project from the year before the activities. Therefore, the participation rate of workshop in the West Nusa Tenggara province has become very high. In addition, for the activities of the West Nusa Tenggara province, JICA Expert Team has held some workshops in two locations so that C/P can participate as much as possible to reduce the travel distance.

Further, BPBDs has recognized that RDMP and Action plan enable the request of disaster management activities to governor/mayor, and increase the amount of the budget for disaster management activities by formulating the RDMP and Action plan. Many of RDMP were obtained the approval by the signature of governor/mayor, it is expected that the actual activities will be implemented in the near future.

2) Integration with Output 2

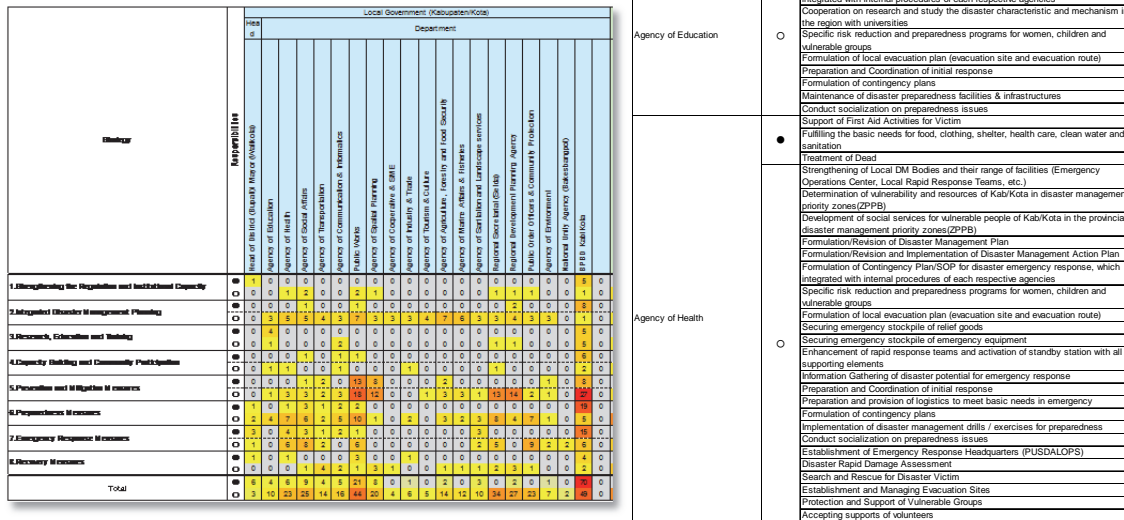
The results of risk assessment and the risk map are necessary for the formulation of the regional disaster management plan and action plan. This is because countermeasures should be based on the risk from the results of Output 2. Therefore, the JICA Expert Team proceeded in synchronization with both Outputs, while checking the progress of Output2 sequentially, such as that the presentation on the result of the risk assessment was implemented in the workshop for Output3 and requested C/Ps of Output2 to describe the part of risk assessment in the RDMP. As the result of activities for integration with Output2, the capacity of C/Ps has been developed such that sharing of information and knowledge has been promoted among C/Ps and the capacity for considering the countermeasures based on the risk assessment has been developed.

3) Development of RDMP Formulation Support Application

As shown in Chapter 2, The RDMP Formulation Support Application was developed so that regency/municipality BPBD staffs can formulate the RDMP and Action Plans efficiently and effectively. In the RDMP, the major items such as list of activities and action plan including role and responsibilities are required to be shown in the tables and it is difficult for the BPBD staffs to formulate them by themselves because of low capacity. Furthermore, manual listing of activities has possibilities to induce an oversight and many mistakes. For that reason, the JICA Expert Team developed RDMP Formulation Support Application uniquely in this Project. The Application is considered to be able to prevent an oversight and mistakes with supporting functions so that the RDMP can be formulated by even the BPBD staffs with low capacity. In detail, the application is shown the sample list of activities and role/responsibilities of each disaster, and BPBD staffs can create the format required for RDMP by choosing activities in the sample list or adding activities if necessary. Moreover, by utilizing the application, it can be clarified, the most important point, the role and responsibilities for departments and related organizations in regency/municipalities. The Application is positioned the one component of the Technical Guideline for Formulation of Regional Disaster Management Plan for Regencies/Municipalities. The Application is not only for the Project activities, but also expected to contribute the nationwide dissemination for formulation of RDMP of Indonesia in future

4) Introduction of tools for smooth coordination with stakeholders

The JICA Expert Team created the RDMP Formulation Support Application with the function of creating documents for coordination with stakeholders smoothly and the documents were actually utilized for coordination. By the application was developed, C/Ps, not only have been able to consider the roles and responsibilities of each stakeholder, but also have been able to coordinate with each stakeholder led by regency/municipality BPBDs own. Therefore, the capacity for the coordination of C/Ps has been developed in this project.



(Left is shown the amount of activities of each stakeholder. Right is shown the list of activities of each stakeholder)

Figure 3.4.1 Function of coordination with stakeholders on the RDMP Formulation Support Application

5) Consistency with the BNPB project and utilizing the outcome of this project

Since 2012, BNPB has entrusted to consultants its own budget, and they have preceded with the formulation of regional disaster management plans in the whole country of Indonesia. From the viewpoint of the general purpose of this project's results, JICA Expert Team collected these plans to ensure the integrity of each plan, and revised the technical guidelines and sample of RDMP properly.

Furthermore, BNPB is promoting the revision of the "Guidelines for Regional Disaster Management Planning" Head of BNPB regulation No. 4, 2008, and the revision of the "National Disaster Management Plan". Since the timing of these revisions process was overlapping with activities of this Project, the structure and contents of the technical guidelines were revised according to the revision of BNPB regulation and National Disaster Management Plan while discussing with BNPB so that the technical guidelines are utilized as official documents.

6) Implementation of One Point Lecture in workshops

The low participation rate of the workshop was problem in the activities beginning of North Sulawesi province for Output3-1, the RDMP and Action Plans. Causes of the low participation rate are budget constraint indicated later and difficulty of the contents of Output 3-1, which deals with a wide range of knowledge and contents related to disaster. Therefore, JICA Expert Team implemented the one point lecture to take measures to devise the contents of the workshop, such that C/Ps can continue to serve the interests while carefully explaining the

importance of regional disaster management plans. Detail contents are such as the introduction of the mechanism of earthquake and sediment disaster, introduction of disaster management goods and summary of the Great East Japan Earthquake, etc. For these contents, interactive lectures were implemented by using the education tools and showing videos. This is contributed to not only increasing the participation rate in the workshop, but also the enhancement of basic disaster management capacity of C/Ps.

7) Follow-up activities

Since all regencies/municipalities in pilot province were target in this project, the JICA Expert Team implemented the explanation in the workshop which all BPBDs participate in and BPBDs proceed with formulation of RDMP by themselves as the main activity. However, while the progress of the pilot activities, some regency and municipality BPBDs could not participate in the workshop and the progress of formulation has been different from each regency and municipality BPBD. Therefore, basically local consultants visited regency and municipality BPBDs which were delayed the formulation in particular at several times and implemented follow-up activities.

Output 3-2

1) Technical Transfer by holding individual workshops

As indicated in the Project implementation challenges, there were certain gaps of capacity among Regencies/Municipalities, and difference of availability of Contingency Plans and SOPs, therefore, at the Kick-off workshop held at the beginning of activities in the 1st Pilot Province, only 1st workshop was implemented inviting all Regencies/Municipalities. After the 1st Workshop, due to difference of capacity and formulation status, it was decided to implement individual workshops at all Regencies/Municipalities. As a result, it consumed longer time compare to implementing workshop inviting all Regencies/Municipalities; however, effective technical transfer could be implemented considering each level of Regencies/Municipalities. Especially for Regencies/Municipalities, which do not have experience of handling large scale disaster, cannot have clear image of procedures for emergency response activities at the time of occurrence of disasters, and combining with TTX and CPX, detail procedures in chronological order were considered. It is not accepted that response activities are different by capacity of responder, therefore, standardization of response procedures are necessary and it shows importance of formulation of SOPs. From these activities, realistic SOPs could be formulated.

2) Implementation of activities corroborated with Output 2 Activities

In the process of formulation of SOPs, step by step procedures were formulated based on scenarios, therefore, result of Output 2, Hazard and Risk Mapping were necessary to utilize. However, in the activities at the 1st Pilot Province, it needed certain time to complete the result of Output 2, therefore, Volcanic Hazard were selected as main target disaster which frequently

occurred in North Sulawesi Province, and SOPs were formulated mainly by utilizing existing Volcanic Hazard Map.

As a result, from the early stage of pilot activities, SOPs could be formulated. On the contrary, for other type of disasters, activities were limited, however, since the major disasters were different from each Regencies/Municipalities, main activities for emergency response are similar, those similar activities were explained, and promoted to be able to formulate SOPs for different type of disasters by themselves.

(4) Items and challenges for Indonesian side to be implemented

Output 3-1

1) Legislation of RDMP, Securing Budget, Implementation of effective disaster management activities in regency/municipal level

In this Project, Most of Regional Disaster Management plan were able to be obtained the approval by the signature of governor or mayor. In the future, it is desirable that the RDMPs were legislated as the official document or regulation to ensure the implementation of effective disaster management activities and the necessary budget.

2) Securing budget for disaster management activities in National level

Since the budget of regency and municipalities are very small in the present condition, the support from National level, including BNPB, for securing sufficient budget, is essential in order to implement the actual disaster management activities in the regency and municipalities.

In addition, for the securing of disaster management budget, there is also a movement of the consideration such as the regulation related to the disaster management activities at the Ministry of Home Affairs, it is expected the trend for ensuring of disaster management budget for the future.

3) Periodical monitoring and evaluation, Revision of RDMP

In this Project, RDMPs of regency / municipal level were formulated and now BPBDs of regency/municipalities are on the next phase of implementation of actual activities. In order to implement the effective activities, it is important that the activities are monitored and evaluated periodically. Furthermore, since the RDMPs, formulated in this project, are the 1st version of regency/municipalities in the pilot provinces, the periodical revision of RDMP is expected in the future. These required items are included in the RDMP.

Output 3-2

1) Clarification and standardization of the description of Contingency Plan and SOP

As previously mentioned, both Contingency Plan and SOP exist in Indonesia and the contents of these are mixed. It is desirable that BNPB lead the unification and clarification of these documents.

2) Implementation of the drill based on SOP for prompt and smooth implementation of emergency response

Verification of the effectiveness of manual for emergency response such as SOP should not be confirmed during the actual disaster but confirmed through TTX and CPX to testify the contents and update based on the result of verification. The process will contribute to prompt and smooth implementation of emergency response, and BNPB, provincial BPBD and regency and municipality BPBD is expected to implement the verification continuously.

3.5 Output 4

(1) Output

Output 4-1

- Technical Guideline for Implementation of Disaster Management Exercise
- Exercise Materials through Workshop (included in the Guideline)

Output 4-2

- Good Practice Models of Activities for “Disaster Resilient Village” Program
- Community-Level Disaster Management Plan (3 Pilot villages)

(2) Challenges of Project Implementation

Output 4-1

1) Implementation of Disaster Management Exercises for staffs who have no experiences in exercises

Almost of all C/Ps in pilot area had no experiences in exercises. Therefore, it was required to consider the contents of workshops and contents of technical guideline since C/Ps could not imagine the exercises (TTX, CPX) itself.

2) Existence of reference materials for exercises

The JICA Expert Team tried to collect the reference documents for preparation of exercises, but there were not description about the detail emergency response (when, where, who, what to do). Therefore, the exercises were indispensable to integrate with SOP formulated in this project.

Output 4-2

1) Change of the Project activities along with the formulation of “General Guideline for a Disaster Resilient Village” by the BNPB after the initiation of the Project

In January 2012, just after the initiation of the Project, the team learned that the BNPB formulated the “General Guideline for Disaster Resilient Village” and were in the process of promoting the CBDRM activities based on the guideline. Also, the BNPB formed working groups to discuss the formulation of training modules for some important DRR topics towards the establishment of the DRR education and training center in 2013. The CBDRM training module had been considered in one of the working groups. In the situation, the planned Project activity to develop a CBDRM manual should be reconsidered to avoid duplication of the activities.

2) Shortage of the Budget for the Activities by Advance Planning

During the Project activities in the first pilot area, the pre-coordination was made for securing the budget; however, the budgetary discussion was already completed by the local government at the time, resulting in insufficient budget for the activities. In the situation, it took a lot of time to accommodate the budget for the activities through significant discussion and coordination.

3) Involvement of Communities in Disaster Management Exercise of Regency/Municipality

The disaster management exercises are usually conducted mainly for the review of activities by the local government officers in the pilot areas. The community members partially participated in the exercise.

4) Current Status of the Activities for CBDRM

At the beginning of the Project activities in the pilot areas, the Project team reviewed the CBDRM activities conducted with the subsidies by the BNPB based on the Technical Guideline and found that the BPBD officers left many parts of the activities to consultants and were not actively involved in the community activities.

(3) Ingenuity for Issues, effect of the Project and lessons learned

Output 4-1

1) Implementation of workshops and formulation of technical guideline based on the from planning to management of exercises

The JICA Expert Team explained and transferred techniques from planning to management of exercises separately in the workshops to be able to step-up gradually for the C/Ps who have no experiences in exercises. In addition, the difficulty of exercises was considered to be able to step-up such that, simple exercises DIG and TTX was implemented first and, comprehensive exercise, CPX was conducted finally. Contents of technical guideline were also considered easy

to understand as much as possible such as the showing procedures and materials of workshops. Therefore, the capacity of C/Ps for the implementation of the drills has been developed such that C/Ps have been able to carry out the drill from planning to actual management by their own. In fact, as indicated in 2.6, Task (28), North Sulawesi province and Bitung municipality carried out the CPX independently by themselves.

2) Implementation of Continuous Exercise

Technical Guideline for Implementation of Disaster Management Exercise was prepared with policies from TTX to CPX, arranged in such a way that it can be applied in management exercises that are more complex. However, there are some cases where graded exercise techniques cannot be mastered well due to transfer of personnel in C/P agencies. That Disaster Management Exercise should be implemented continuously is a basic principal and it requires an Annual Exercise Plan.

3) Continuous Cooperation with SOP

In this project, all Outputs have been implemented at the same time (parallel). SOP was also formulated in parallel and was utilized the actual disaster management exercise. In the future, as described above, the disaster management exercise should be implemented continuously, it is necessary to revise SOP more practical continuously based on the result of exercise.

Output 4-2

1) Provision of project experiences and good practices for reference to future CBDRM activities

After consultation with the BNPB counterparts, and with consideration of the recent formulation of “General Guideline for Disaster Resilient Village” by BNPB, the Project activity was changed to the activity to propose suggestions to improve the guideline based on the result of the pilot activities which would be conducted in accordance with the guideline. Also, the experiences of the pilot activities were to be compiled as good practices for reference to future CBDRM activities.

With this change, the Project activities could be conducted in a way that is consistent with the activities of the BPBD Regencies/municipalities supported by the BNPB according to the Technical Guideline issued every year based on the General Guideline. Furthermore, the BPBD Province and Regencies/municipalities could refer to Project activities when they conduct the CBDRM activities subsidized by the BNPB. In addition, regularly sharing Project activities with BNPB counterparts contributed to including the activity of the simulation exercise as one of the important indicators of the CBDRM activities in the Technical Guideline.

2) Securing of the Budget for the Activities by Advance Planning

With these lessons learned in the first pilot area, coordination with the BPBD Province and Regencies/municipalities in the second pilot area was done in advance at a very early stage including of the detailed distribution of the allocation of the budget by each stakeholder. Through this arrangement, there were no issues of an insufficient budget during the activities, and all the stakeholders could concentrate all their efforts to the Project activities. In addition, in the first pilot province, regency BPBD investigated the budget of the next fiscal year and they could obtain the budget to implement the same CBDRM activities which the Project implemented.

Those experiences for investigation of the budget of the next fiscal year were utilized to acquire budgets for related disaster management in pilot province and regency/municipality after the pilot activity.

3) Implementation of the Community-centered Disaster Management Exercise

The exercise in the Project activities aimed at reviewing evacuations and other actions taken by the community based on the village DM plan. Therefore, the DM exercise in the Project was organized mainly by the community members and supported by the local government officers.

Through the exercise, community members could enhance their understanding that they need to take initial actions in case of a disaster. Also, the counterparts of the BPBD Province and Regencies/municipalities could recognize the importance of capacity enhancement of the community for DRR. In the first pilot province, the C/P continues the activities such as updating the DM map to install evacuation signboards by APBD.

4) Implementation of a Community Disaster Management Exercise Conducted in Conjunction with the Table-top Exercise for Local Government Officials

In one of the pilot communities in North Sulawesi, a community disaster management exercise was conducted in conjunction with the tabletop exercise conducted for local government officials. We needed more preparation time and had some difficulties with coordination due to the delay of the start time of the exercises in the pilot area. However, through the experience, participants could learn the difficulties of acquiring information and facilitating smooth communication in case of a disaster and enhance their practical imagination with what could happen in a disaster.

5) Implementation of the Activities Mainly Organized by the BPBD Counterparts

In the Project activities, the team tried to provide more opportunities for training to the BPBD officers in order to have a deeper understanding of the community activities. Also, in the activities in the pilot communities, the BPBD counterparts were asked to take responsibility for

facilitating the sessions and giving lectures with the support of the JICA Project team with the view to enhance their capacity to conduct the activities on their own. Also, the activities were conducted in cooperation with the Red Cross, local NGOs, and local universities and technical institutions who they can ask to give lectures if they cannot do it themselves in the future. In the first pilot province, the C/P started to participate in the activities of PMI which they established the close working relationship.

(4) Items and challenges for Indonesian side to be implemented

Output 4-1

1) Verification of Drills and preparation of SOPs

SOP, which is shown the role and responsibility and operation procedures of each agency, is essential to implement the Disaster Management Drills. Therefore, it is led to verify the contents of SOP. Particularly, Command Post Exercise (CPX) without fundamental materials such as SOP, the effect would be decreased. In addition, Implementation of Drill is not purpose, it is important that the results of Drill are utilized SOPs. In this project, CPX was carried out with SOP formulated, but the ratio of preparation of SOP in Regency/ municipality BPBDs are low. In the future, it is required that the scheme, for the capacity development of emergency operation, is established such that SOP is prepared nationwide in Indonesia and Drills are carried out based on the SOPs, moreover, the SOPs are revised based on the Drills.

2) Implementation of practical Drills

Particularly the CPX is preferable to be carried out practically. In the future, it is required that Drills are carried out in the actual conditions, such as carrying out the drills, for flood just before the rainy season, in the actual operation room using the actual equipment, for coordination with National level (BNPB), Provincial BPBD.

Output 4-2

1) Capacity Development of Officers of BPBD Regencies/municipalities to Promote Sustainable CBDRM Activities

The Project activities demonstrated, if given the opportunity for adequate training, that BPBD officers can have enough capability to promote CBDRM activities without relying on consultants. Also, it was revealed that the sustainable community activities can be ensured by the active efforts of the BPBD officers. On the other hand, at this stage, opportunities for training the officers are not enough; thus, each of the BPBD Regencies/municipalities has a situation that can promote CBDRM activities with confidence.

It is suggested that the BNPB provide more opportunities for the CBDRM training for the BPBD officers in the DRR education and training center. Also, it is recommended that in the process of the selection of the regencies/municipalities that can receive subsidies according to

the Technical Guideline, the BNPB will select the BPBD Regencies/municipalities that become candidates by themselves rather than the BPBD, which is nominated by the BPBD Province to promote motivation of them. Further, it is proposed to increase the training program for the officers of Regencies/municipalities at the Province and to implement a program for observing activities in other Regencies/municipalities.

2) Securing the Budget of the Regencies/ Municipalities

Currently most of the budget for the BPBD Regencies/municipalities is from the budget of the Regencies/municipalities; thus, it is important to raise awareness of the head of the Regencies/municipalities on the importance of the CBDRM activities to secure the budget. In the Project activities, the mayor or vice mayor attended the disaster management exercises, and enhanced their understanding of the CBDRM activities.

It is recommended to conduct this kind of activity with their participation to increase their recognition, as well as to conduct workshops for the head of the Regencies/municipalities at the Province level for understanding the importance of the DRR.

3) Cooperation with Universities and Technical Institutes

In the Project activities in West Nusa Tenggara, we provided detailed analysis and explanation of the tsunami risk in the pilot community in cooperation with the University of Mataram, which had conducted the research work on tsunamis in the southern area of Lombok Island. In the wake of the activities of the project, the university side increased its involvement in the pilot regency, leading to the activation of the activity.

It may be difficult to request the involvement of the universities or technical institutes when considering expenses, etc.; however, it is suggested that collaborating with universities and technical institutes from the view of the community improves the risk assessment of their areas with their support. On the other hand, they can get useful information from the specific activities in the local communities.

3.6 Output 5

(1) Output

Related to Output 2

- “Technical guideline for Creation of Hazard and Risk Maps for Regencies/Municipalities”
(Annex of BNPB regulation No.12/ 2012, Disaster risk assessment guideline)
- The 250 m mesh earthquake hazard map for all of Indonesia

Related to Output 3

- Technical Guideline for Formulation of Regional Disaster Management Plan for Regencies/Municipalities (including RDMP Formulation Support Application)
- Sample of Regional Disaster Management Plan

(2) Challenges of Project Implementation

Related to Output 2

1) The procedure of gathering necessary data for regency/municipality-level disaster-risk assessment

This needs to utilize many types of maps and statistical data, such as hazard maps prepared by national authorities, topographical maps prepared by BIG, land use and cover information managed by Bappeda, and several types of statistical data including administrative boundaries managed by BPS for disaster-risk mapping. The BNPB has an alliance with BPS national for sharing a part of statistical data managed by BPS national to be utilized for disaster risk assessment. However, almost all other necessary data should be gathered or purchased by regencies/municipalities' BPBDs on their own.

2) Strengthening the relationship between national authorities for disaster and the BNPB

As already mentioned in section 2.2, the hazard maps and related manuals for hazard analysis are prepared by responsible organizations for each disaster. Each responsible organization has its own role and responsibility for preparing hazard maps as a national authority, and they are developing the hazard maps not for disaster-risk assessment but for their own purpose under significant limitations of cost and time to implement hazard mapping. Therefore, the resolution of the hazard maps prepared by each authority is not necessarily fit for regency/municipality-level disaster-risk assessment and several types of hazard maps have not been prepared yet.

Related to Output 3

1) Uncertainty of advantages based on the formulation of Regional Disaster Management Plan

As shown in the challenges and lessons of Output 3, it is difficult to be applied to the formulation of a regional disaster prevention plan within the current low-budget situation. However, to formulate the RDMP, there are advantages that it is possible to clear the necessary activities and ensure the enough budgets and implement the activities. The JICA Expert Team explained the importance of Regional Disaster Management Planning in this project many times, but, for the nationwide dissemination, it is required that the advantages of Regional Disaster Management Planning are clarified and shared.

(3) Ingenuity for Issues, effects of the Project and lessons learned

Related to Output 2

1) Continuous input of to BNPB for improvement of a procedure of regency/municipality-level disaster risk assessment

Regarding support for updating the general guideline for disaster risk assessment for regencies/municipalities, a significant amount of technical advice from the JICA expert team based on the experiences of two pilot activities for Output 2 in North Sulawesi province and West Nusa Tenggara province has been shared with the BNPB. Even though the BNPB had the experience to implement regency/municipality-level disaster-risk assessment for the selected regencies/municipalities as the part of developing a regional disaster management plan, it was the first time for a number of BNPB staff to hear a technical approach including spatial data processing for disaster risk assessment. Because few staff handled those activities of disaster risk assessment for selected regencies/municipalities and local consultants carried out it under the instruction of BNPB, the JICA Expert Team tried to input each technical advice in an understandable way for the BNPB staff who did not know a technical way for this risk assessment by showing the comparison chart explaining the difference between the defined method based on the general guideline and the actual method implemented by the JICA expert team and actual map sheets for hazards, vulnerabilities, capacity, and risk for each kind of disaster in the creation process. On the other hand, for a few staff who has a detailed knowledge of spatial data processing, the JICA expert team demonstrated the detailed procedure of hazard and risk mapping to them using GIS software and tried to share their own ideas and experiences to them for improvement of a procedure of regency/municipality-level disaster risk assessment.

With expanding their understanding of disaster risk assessment, C/Ps of BNPB recognized the necessity of implementation supports for not only preparation of regional disaster management plan but implementation of disaster risk assessment to all provincial BPBDs and regencies and municipalities BPBDs in Indonesia. And the inputs from JICA expert team based on the experiences of pilot activities were utilized for updating the general guideline for disaster risk assessment by BNPB.

2) Preparation of lesson learned and countermeasures for disaster risk assessment for regency and municipality level based on the pilot activities

In this project, “Technical guideline for Creation of Hazard and Risk Maps for Regencies/Municipalities (Ver.2.0)” was prepared as the one of structured references to implement disaster risk assessment in provinces or regencies/municipalities across the country. This technical guideline includes a lot of technical advices about considerations and concrete countermeasures related to gathering the necessary data and processing spatial data with GIS software that were not described in the BNPB regulation No. 12/2012 “Disaster risk assessment

guideline” based on experiences of pilot activities in North Sulawesi Province and West Nusa Tenggara Province.

Regarding capacity assessment methods, the village-level capacity assessment implementation was attempted in the pilot activity because the minimum requirement for regency/municipality-level disaster-risk assessment is indicated as up to each village. However, many BPBDs could not complete the questionnaire survey for each village by themselves except for Mataram Municipality and Bima Municipality, which consist of only a few villages. The capacity data at the village level is required for regency/municipality-level disaster risk assessment based on the general guideline, and it is necessary to create a standard framework to implement capacity assessment so as to involve districts (Kecamatans) for supporting the questionnaire survey on behalf of regency/municipality BPBDs.

3) Proposal of the methodology of hazard mapping for utilizing disaster risk assessment for regency and municipality level

In this project, for covering a shortage of hazard maps, BNPB and the JICA expert team tried to enhance the quality of hazard maps to be utilized for disaster risk mapping through new methods and procedures for hazard mapping. Regarding the earthquake hazard map, the BNPB and the JICA expert team established a new method to create a 250 m mesh distribution map of shaking intensity at surface from a digital elevation model for creating input data for regency/municipality-level disaster-risk assessment through long term discussions with key Indonesian experts in earthquake hazards. And in consideration of the actual status of available spatial data that could be used for disaster risk mapping in regencies/municipalities’ BPBDs, the preparation of a historical disaster map was proposed and utilized for regency/municipality-level disaster risk assessment in terms of the effect to accentuate a high potential area of natural disaster that strikes the same place periodically, such as floods, and effective utilization of historical disaster record.

Regarding utilization of the methodology for creating earthquake hazard maps, the involvement of Indonesian authorities for earthquake disaster in the discussion of utilization of the JICA proposed method became one of the key activities. The JICA expert team actively attended some events of earthquake disaster assessment to which many key individuals from BG, BMKG, UGM, BPPT, PU, and universities attended, and tried to establish a good relationship with them. It became a turning point that the JICA expert team established a good relationship with Prof. Masyhur who is the team leader of Team 9, the main body to develop a distribution map for shaking intensity at bedrock for all of Indonesia. In order to deepen key Indonesian individuals’ understanding of not only the theory of the method but the way of spatial data processing, a technical workshop and several follow-up meetings were held by BNPB. Finally, the JICA expert team was lucky enough to gain agreement with Prof. Dr. Ir. Masyhur (ITB) and the person in charge in Badan Geologi to utilize the distribution map for shaking intensity at the

surface in all of Indonesia developed based on the JICA proposed method as the input data for regency/municipality-level disaster-risk assessment.

Related to Output 3

1) Sharing good practices

In this project, in order that BPBD officials can recognize the importance and effectiveness of RDMP, the JICA Project Team had the opportunity that C/P, who is from BPBD Bitung municipality of North Sulawesi province, shared the good practice in the Kick-off Workshop in West Nusa Tenggara province and Workshop in the DRR month event in October 2015. In addition, in the Training of Facilitators for BNPB officials in January 2015, the JICA Expert Team shared the good practices along with the explanation of technical guideline for RDMP. Therefore, the capacity of BNPB officials for the facilitation and coordination has been developed.

(4) Items and challenges for Indonesian side to be implemented

Related to Output2

1) Effective utilization of lesson learned and countermeasures for disaster risk assessment for regency and municipality level based on the pilot activities

By sharing the issues and lesson learned of disaster risk assessment in the pilot activity, C/Ps of BNPB was understood a difficulty of spatial data analysis commensurate with the scale of 1:25,000 or 1:50:000 and a complication for data collection of the regency/municipality-level activity from specific input from JICA expert team. It is expected that the insight into lesson learned and countermeasures from JICA's pilot activities will be utilized for the existing activity for updating the general guideline for disaster risk assessment by BNPB. And for nation-wide dissemination for formulation of regional disaster management plan at provincial BPBDs and regency/municipality BPBDs in Indonesia, it will also become good practices that the result of disaster risk assessment was directly reflected to formulate the regional disaster management plans in JICA's pilot activities. "Technical guideline for Creation of Hazard and Risk Maps for Regencies/Municipalities (Ver.2.0)" will be expected one of the reference for improvement of the nation-wide disaster management capacity in Indonesia by BNPB.

2) Continuation of active approach to responsible organizations of hazard analysis by BNPB

For other disasters items for which a hazard map has not yet been prepared by responsible organizations, it is important for the BNPB to encourage regular preparation of hazard maps by responsible organizations and key persons. In this case, as one of the long-term measures, it is better to establish a study and technical team for hazard and risk assessment to expand the permanent engineering staff to deal with discussions with responsible organizations for each hazard and data preparation and management by themselves

Related to Output3

3) Effective nationwide dissemination for formulation of RDMP

The JICA Expert Team formulated the Technical Guideline so that the Formulation of RDMP will be disseminated Nationwide in Indonesia. In the future, in order to disseminate the formulation of RDMP nationwide, it is required that BPBD officials recognize the importance and effectiveness of RDMP such that RDMP helps implementation of disaster management activities and increase of disaster management budget. Therefore, it is important to disseminate RDMP that regency/municipality BPBDs, who formulated RDMP, share the good practices by formulation of RDMP to regency/municipality BPBDs who did not formulate RDMP yet. It is expected that BNPB has these opportunities while proceeding with the formulation of RDMP.

4. Achievement of Purpose of the Project

4.1 Purpose of the project

Purpose of the Project:

The disaster management capacities of the BNPB, the provincial BPBDs, and the regency/municipality BPBDs in the target area are enhanced.

<Indicators>

1. Number or Cases of a Regional Disaster Management Plan (RDMP) formulated through the Project is processed for approval by the local authority.
2. Number of voluntary disaster management exercises conducted in the communities within the target area.

4.2 Achievement of the Project Purpose

4.2.1 Summary of the Result of Terminal Evaluation (implemented April 2015)

The terminal evaluation was conducted during the period from April 6 to 24, 2015, 8 months before the termination of the project. The JICA Project Team cooperated in this terminal evaluation survey. The conclusion of the evaluation is summarized as follows:

(1) Result of Evaluation (5 Categories of Evaluation)

Table 4.2.1 Evaluation Grid and Results

Evaluation Grid	Evaluation Result
Relevance	<p>The relevance of the Project is high.</p> <ol style="list-style-type: none"> 1) The new government has recently passed the new Middle-Term National Development Plan (RPJMN) 2015-2019, which puts emphasis on enhancing the country's political sovereignty and independence in the economy and culture. The RPJMN specifically refers to issues related to DRR (disaster risk reduction) such as the improvement of the quality of the environment, and the management of natural disaster mitigation and climate change. In accordance with the RPJMN, the National Disaster Management Plan (2015-2019) is currently being developed. 2) The relevance of the Project to the DRR policy in Indonesia remains high from the initial planning survey in 2011 through the mid-term review in 2013. Since its beginning in 2011, the Project continues to work with the Head of BNPB to adjust its outputs and activities in accordance with regulations that have been issued one after another. Accordingly, the Project has sustained its relevance throughout the cooperation period. 3) The selection of North Sulawesi province and West Nusa Tenggara province as target provinces is appropriate in that the Project meets the needs and expectations of its counterpart agencies (provincial and regency/municipality BPBDs) that require capacity development to better prepare and respond to natural disasters. 4) The Project is aligned with the cooperation policy of Japan so that <i>the Development Cooperation Charter</i> was decided by the Japanese Cabinet in February 2015, and Japan's County Assistance Policy for Indonesia, dated April 2012. Japan has also renewed its commitment to international cooperation on DRR under <i>the Sendai Framework for Disaster Risk Reduction (2015-2030)</i> adopted on March 18, 2015.

Evaluation Grid	Evaluation Result
Effectiveness	<p>The effectiveness of the Project is high.</p> <ol style="list-style-type: none"> 1) The project is assessed as effective mainly because its activities are delivering the expected outputs as planned toward achieving the Project Purpose. Currently, the Project is making firm progress at each output in the 2nd target province of the West Nusa Tenggara province, covering all 10 regency/municipality BPBDs. By continuing the current activities, the Project is more likely to attain its goal by the end of the project period, November 2015. 2) There has been significant capacity development of the provincial/regency/municipality BPBDs at the individual level through working with the processes of project implementation. Through a series of workshops and technical follow-up, regency/municipality BPBD officers have gained knowledge on the comprehensive approach to DRR (prevention and preparedness, emergency response, recovery and reconstruction) and specific measures to be taken at each phase, acquired skills on disaster risk assessment, and eventually demonstrated what they learned by formulating RDMPs themselves. More importantly, BPBD officers have recognized their role/responsibility as the local DRR management agency, which leads to higher motivation to work. 3) Tangible outputs such as RDMPs, hazard maps, and various technical guidelines have enhanced the BPBD's capacity at the organizational level in that BPBDs are now equipped with plans and procedures as well as reference materials. Also, they have become more capable of preparing the budget; the list of activities included in the RDMP helps each BPBD to prepare an RKPD (annual working plan) and DPA (budget implementation document) in the local government. For example, BPBD Bitung has successfully raised the budget for DRR since 2013. This is attributed to the BPBD Bitung actively communicating with relevant stakeholders such as the local parliament, the mayor, BPKP (provincial local government auditor), and other local government agencies/departments on RDMP, and then establishing effective working relationships with them. This is one example where the capacity development has taken place at the institutional level, not only confined to an organization or some individuals. 4) With such active efforts of regency/municipality BPBDs, the budget of some BPBDs has actually been increased. At present, MoHA (Ministry of Home Affairs) administering local government, is intending to strengthen DRR activities of the local government with new legislation. Now the DRR has become an obligation of the local government with Law No. 23-2014. Furthermore, MoHA ministerial regulation No. 27-2014 explains what DRR is (e.g., evacuation, emergency response), thus prompting the local government to prepare a budget for DRR activities. 5) The hazard and risk map, the first official map of its kind at the regency/municipality level in the target provinces, are widely appreciated by the BPBDs. The BPBDs shared the developed maps with other relevant agencies such as PU (Ministry of Public Works), TNI (Indonesian Armed Forces), PVMBG (Center of Volcanology and Mitigation of Geological Disaster), and BMKG (Meteorological, Climatological and Geophysical Agency). It has been a concern how the creation of a hazard map using GIS (Geographic Information System) equipment would be sustained by the provincial BPBD since the work was mainly conducted by GIS engineers contracted by the Project. When activities in North Sulawesi province were completed in March 2014, the GIS equipment was handed over to the BPBD North Sulawesi province dated March 2014.
Efficiency	<p>The efficiency of the Project to date is high.</p> <ol style="list-style-type: none"> 1) The Project has been implemented without encountering major obstacles (such as described in the Important Assumptions in the PDM), and has been undertaken efficiently in general. Official and daily communication among project teams and counterparts has been good. The JCC (Joint Coordinating Committee) has been held 4 times. The project team was based in the target province (at Manado City in North Sulawesi province and Mataram City in West Nusa Tenggara province), but efforts of the team to visit or stay in Jakarta for reporting to and consulting with the BNPB regularly have kept the Project Managers at the BNPB well informed. 2) Counterpart training in Japan (September 2012 and August 2014) can be highlighted as particularly effective for inspiring the counterpart. There were many positive remarks by those who had participated in the training, saying that the training was eye-opening, having them conscious about disaster prevention and preparedness for the first time, and realizing how much communities/residents could do for themselves for disaster management.

Evaluation Grid	Evaluation Result
Impact (Prospect)	<p>The impact of the Project is medium.</p> <ol style="list-style-type: none"> 1) A key positive impact, which is the progress towards achieving the Overall Goal—disaster management capacities of provincial and regency/municipality BPBDs beside the target areas are enhanced—has not really been observed as yet at the time of the terminal evaluation. So far, the Project has been quite successful within the target province of North Sulawesi province and West Nusa Tenggara province, but impact beyond the target province is yet to be realized. 2) Output 5 (dissemination of technical guideline on RDMP formulation) was added to the PDM to bridge the Project Purpose and the Overall Goal at the time of the Midterm Review. The BNPB highly regarded the outputs of the Project and confirmed that they would disseminate the outputs to other provinces once they were finalized and approved. With such confirmation of the BNPB, it is expected that the activities of Output 5 will bring about a greater impact during the remaining project period. Furthermore, the Project is aligned and concurrent with BNPB’s initiatives and activities (e.g., formulation of an RDMP at the regency/municipality level, Disaster Resilient Village Program, etc.), and hence can cause many positive impacts in future.
Sustainability (Prospect)	<p>The prospect of sustainability of the Project is high with a precondition.</p> <ol style="list-style-type: none"> 1) With regards to BPBDs surveyed in the terminal evaluation in North Sulawesi province and the West Nusa Tenggara province (two provincial BPBDs and regency/municipality BPBDs in Bitung, Tomohon, Manado, Central Lombok, East Lombok, Mataram), the prospect of sustainability is high. Through the Project, the capacity of some BPBDs was enhanced at not only the individual or organizational level, but also at the institutional level. However, it will vary for other regency/municipality BPBDs in accordance with the current level of their capacity. Also, it should be noted that such a prospect of sustainability might vary with different leadership, willingness of the government, and governing; the risks at local levels are very challenging. With such a precondition, the analysis and prospect of sustainability from four viewpoint (institutional, technical, human resources, and financial) are as follows: 2) Institutional viewpoint: The national and international policy environments are instrumental in promoting the DRR and extending project benefits/activities. The statement at WCDRR (UN World Conference on Disaster Risk Reduction) by the vice-president of Indonesia in March 2015 maintains that Indonesia has been investing in disaster prevention, mitigation, and preparedness and that it is now becoming their top list priority. The RPJMN (2015-2019) puts high priority to DRR as public investment. The National Disaster Management Plan (2015-2019), currently being prepared to align with the RPJMN, is expected to have specific targets such as reducing existing risks and preventing new disaster risks. As such, the institutional and regulatory framework for DRR in Indonesia has been increasingly strengthened. This includes BNPB regulations and particularly MoHA regulations for regency/municipality BPBDs. 3) Technical viewpoint: Activities in outputs such as the development of RDMPs are more likely to be sustained as these RDMPs are formulated by regency/municipality BPBD staff themselves. BPBD’s application of enhanced capacities is realized in voluntary disaster management exercises, a coordinated response to natural disaster events, and effective budget preparation. All of these can indicate project outputs/benefits expected to be sustained. How the activities of creating and revising hazard and risk maps with GIS equipment continues to be a concern. Some agencies such as BAPPEDA (Regional Development Planning Agency), PU, and Sam Ratulangi University are likely to have better GIS technical capacities than BPBD North Sulawesi province. The data on disaster risk assessment for GIS can be shared with these institutions towards possible collaboration on creating or revising hazard maps in the future. 4) Human Resources viewpoint: The capacity of the BPBD counterpart has increased remarkably through the Project. Continuous involvement, after the Project of BPBD counterpart in the same DRR activities cannot be counted on because transfer of BPBD staff is common. However, clarification of duty/tasks of BPBD, increased understanding and awareness of staff on DRR in general, and development of basic reference materials such as an RDMP have all contributed to the increased sustainability of BPBD human resources as a whole. 5) Financial viewpoint: The sustainability from a financial viewpoint is rather promising for BPBDs. MoHA has prepared Law No. 23-2014 and ministerial regulation No. 27-2014, thereby enforcing that local government promotes DRR activities with budget. Furthermore, MoHA is considering another ministerial regulation, within this year, to secure the preparation of a budget for DRR in the local government financial information management system, SIMDA.

In addition, at the time of the terminal evaluation, the evaluation survey team underlined promoting and hindering factors that contributed to showing effective performance of the project.

1) Promoting Factors

- Contribution of the local consultants in the project team is significant and highly commended by Japanese experts and by counterparts. Working with 2 provincial BPBDs and all 15 and 10 regency/municipality BPBDs in North Sulawesi province and West Nusa Tenggara province, respectively, in close cooperation with BNPB in Jakarta, requires significant effort for communication, consultation, and follow-up. The number of counterparts reaches almost 400 (31 from BNPB, 246 from BPBDs in North Sulawesi province and 115 from BPBDs in West Nusa Tenggara province), and keeping all the counterparts informed of and engaged in project activities would not be possible without dedicated efforts of the local consultants.

2) Hindering Factors

- One notable hindering factor mentioned is the frequent transfer of counterparts, though this hasn't significantly affected the project implementation. The Project Director changed twice due to the transfer of the Deputy of Prevention and Preparedness BNPB (August 2013 and October 2014). At provincial/regency/municipality BPBDs in North Sulawesi province, there were many transfers of BPBD directors, too. Additional explanation of tasks to successors was necessary, and attention was paid so that the involvement of staff in the Project would be consistent.

4.2.2 Achievement at the end of the project

(1) Purpose of the Project

Purpose and its indicators of the Project are as follows:

<p>Purpose of the Project:</p> <p>The disaster management capacities of BNPB, the provincial BPBDs, and the regency/municipality BPBDs in the target area are enhanced.</p> <p><Indicators></p> <ol style="list-style-type: none">1. Number of Cases that Regional Disaster Management Plan (RDMP) formulated through the Project processed for approval by the local authority. ⇒100% attained. North Sulawesi Province: Among all 15 regencies/municipalities, 14 regencies/municipalities (1 regency already completed formulation of the budget of BNPB in 2012) completed formulation of a Regional Disaster Management Plan with 9 regencies/municipalities acknowledged by Governor/Mayor, and 5 regencies/municipalities acknowledged by the Heads of BPBDs. West Nusa Tenggara Province: Among all 10 regencies/municipalities, 8 regencies/municipalities (2 regencies already completed formulation of the budget of BNPB in 2013) completed formulation of the Regional Disaster Management Plan with 7 regencies/municipalities acknowledged by Governor/Mayor, and 1 regency acknowledged by the Head of BPBDs.2. Number of voluntary disaster management exercises conducted in the communities within the target area. ⇒100% attained. At least 6 disaster management exercises were conducted voluntarily through implementation of activities in North Sulawesi Province, and in West Nusa Tenggara Province, such as in Bima Municipality, many regencies/municipalities implemented disaster management exercises, referring to project outcomes.

The Project Purpose was attained at a high level including other activities.

Achievement level of the purpose of the project for each output is indicated as follows:

(2) Output 1

<p>The capacity for regency/municipality BPBDs to accumulate disaster data/information which are fundamental for disaster risk management and improve accuracy of such data/information in the target area is enhanced.</p> <p><Indicators></p> <ol style="list-style-type: none">1-1. Accumulation of disaster data items (Newly accumulated since there are no existing data) in the target area. ⇒100% attained. “Technical Guideline for Collecting and Storing Disaster Data/Information” for regency/municipality was formulated and established and five data formats to accumulate and share necessary disaster data were developed. In a real disaster situation, these formats are utilized to accumulate disaster data properly.1-2. Improvement of disaster data quality (by following the format, data are sufficiently accumulated) in the target area. ⇒100% attained. Based on the data format included in the above Technical Guideline, during and after completion of activities and for real disasters, these formats are utilized and accumulated gradually.
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(3) Output 2

The capacity for creation of Hazard and risk maps at regency/municipality level in the target area is enhanced.

<Indicators>

2-1. Number of regencies/municipalities where hazards and risk maps at the regency/municipality level are created in the target area.

⇒ 100% attained. “Technical Guideline for Creation of Hazard Map for Regency/Municipality level” was formulated and based on this Technical Guideline, in North Sulawesi and West Nusa Tenggara Province, hazard and risk maps for all target natural disasters for all regencies/municipalities were formulated and utilized widely.

(4) Output 3

The capacity for formulation of Regional disaster management plans for regencies/municipalities in the target area is enhanced.

<Indicators>

3-1. Number of regencies/municipalities where regional disaster management plans are formulated at the regency/municipality level in the target area.

⇒ 100 % attained. “Technical Guideline of the Regional Disaster Management Plan for Regencies/Municipalities” was formulated based on this Technical Guideline, in North Sulawesi and West Nusa Tenggara Province, Regional Disaster Management Plans were formulated for all regencies/municipalities and disaster management measures will be promoted. And through implementation activities in North Sulawesi, “Technical Guideline for formulation of an SOP” was formulated; in 3 regencies/municipalities, the SOP was revised/formulated.

(5) Output 4

The capacity for conducting Disaster management exercises at the regency/municipality in the target area is enhanced.

<Indicators>

4-1. Number of disaster management exercises implemented in the target area.

⇒ 100% attained. A total of 15 disaster management exercises such as TTX (Table Top Exercise) and CPX (Command Post Exercise) were conducted at provincial and regency/municipality BPBDs in North Sulawesi Province. At the end of the activities, “Technical Guideline for Disaster Management Exercise” was formulated.

4-2. Number of activities on CBDRM in the target area.

⇒ 100% attained. Through activities in North Sulawesi Province, 10 CBDRM (community-based disaster risk management) activities (1 Leader Training, 3 Community Workshops, and 1 Disaster Management Exercise at 2 pilot villages), and through implementation of activities in West Nusa Tenggara Province, 6 CBDRM activities (1 Leader Training, 4 Community Workshops, and 1 Disaster Management Exercise at 1 pilot village)

(6) Output 5

Nationwide dissemination activities are implemented.

<Indicators>

5-1. Technical Guideline for formulation of the RDMP is utilized as reference documents for BNPBs.

⇒100% attained. Disaster Management Annual Event in Solo, Central Java Province, and special session for training of utilization of technical guidelines for formulation of Regional Disaster Management Plan was held on October 17, 2015. And among approximately 500 regencies/municipalities in Indonesia, half of them received Technical Guidelines and promoted self-formulation of the plans.

5-2. Number of events to support nationwide dissemination activities on formulating an RDMP

⇒100% attained. Four activities for the dissemination of RDMP Technical Guideline were held. Presentation at side events of large-scale disaster management drill at Padang in West Sumatera (March 19, 2014), presentation and panel discussion at the annual BNPB annual event (October 14, 2014), and technical training for 30 BNPB officers at Ina-DTRG (Indonesia Disaster Relief Training Ground) at Sentul (January 8-9, 2015), and special session at annual event at Solo (October 17, 2015).

And, for the nationwide dissemination activity for Earthquake Hazard Maps, all source codes were shared with Indonesian Stakeholders and transferred the methodology, giving the opportunity to start discussions with relevant ministries chaired by the BNPB.

As indicated above, all project outputs were attained at a high level.

5. General Overview of Activities of the Project

5.1 Summarization of Project Activities in Chronological Order

Four years have passed since the commencement of the Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD, which started in November, 2011, and completed all activities. Looking back the activities of the project in chronological order, they can be summarized as follows;

(1) Commencement of Project and Implementation Policy Making with BNPB (November 2011-September 2012)

- The project implementation plan was approved by the first JCC held in January, 2012, which was the official commencement of the project. The JICA Expert Team spent the first seven months investigating the implementation policy and the methodology of the project outputs, which are the basis of disaster management in the regencies/municipalities of Indonesia with BNPB C/Ps. As a result, based on the existing relevant Head of BNPB regulations, Technical Guidelines, with input of Japanese knowledge and experience, which are easy to use by Regencies/Municipalities BPBD officials, were formulated and by utilizing these Technical Guidelines, pilot activities were decided to implement in the Pilot Provinces. This implementation policy was approved at the second JCC held in July, 2012.

(2) Activities in the 1st Pilot Province (North Sulawesi Province), and Mid-term Review (October 2012-March 2014)

- Based on the implementation policy, that activities of North Sulawesi had been implemented since October, 2012. Through implementation of activities in North Sulawesi Province, Technical Guidelines for each output were formulated, and based on these technical guidelines activities at pilot provinces were conducted. In the middle of implementation of activities in North Sulawesi in September 2013, a midterm review of the project was carried out. At the midterm review, the survey team pointed out the necessity to focus more on promotion of nationwide dissemination activities during the implementation period of the 2nd Pilot Province activities, and decided to consider in detail and confirm it at the 3rd JCC held on September 20, 2013.
- During the activities in North Sulawesi Province, having the fact that the Province with many active volcanos, “Japan-Indonesia joint seminar on Volcano Disaster Management -Volcanic Activities and Enhancement of Disaster Management Capacity in North Sulawesi Province-” was held on May 2013. From Japan, Professor Iguchi, Disaster Prevention Research Institute, Kyoto University, and officials from Kagoshima Prefecture, and Kagoshima Municipality were invited, and from Indonesia, high level officials from BMKG, PU were invited. Participants were not only limited to officials from North Sulawesi

Province and Regencies/Municipalities but from other Provinces, and reached more than 200 participants in total. By holding this seminar, some Regencies/Municipalities applied reference acquired, and actually procured vehicles for ash collection, and their interest was very high, and this activities contributed for effective implementation of the project.

- At the side event in the large scale FTX held at Padang on March 2014, contents of the project, especially on activities and result in North Sulawesi were presented, and contributed for nationwide dissemination activities.
- Thereafter, after completion of pilot activities for about 1 and half years, at the Wrap-up Workshop held on March 27, 2014, in North Sulawesi Province, followed by the 4th JCC held on April 3, 2014, in Jakarta reporting project activities, all activities in the 1st Pilot Province except for some follow up activities for legislation of the regional disaster management plan was completed. At the 4th JCC, as previously mentioned, to promote nationwide dissemination activities, Output 5: Nationwide Dissemination was added, and for the activities in West Nusa Tenggara Province, outputs implemented were concentrated and decided to implement Output 2: Hazard and Risk Mapping, Output 3-1: Regional Disaster Management Plan, and Output 4-2: CBDRM activities and approved.

(3) Activities in the 2nd Pilot Province (West Nusa Tenggara Province), Nationwide Dissemination Activities, and Terminal Evaluation (April 2014-September 2014)

- Project activities in West Nusa Tenggara Province commenced at a Pre-kick off meeting held on April 11, 2014, followed by the Kick-off Workshop held on June 19, 2014, and started intentionally after the event. And, in the middle of nationwide dissemination activities and activities in West Nusa Tenggara Province, the terminal evaluation prior to completion of the project was conducted in April 2015. Project outcomes began to be completed and as a result, the terminal evaluation was approved at the 5th JCC held on April 24, 2015.
- Then, as nationwide dissemination activities, the JICA Expert Team participated in and presented at the big event held by the BNPB, coordinating meetings with relevant organizations, and as output 5, activities mostly concentrated on Earthquake Hazard Mapping and formulation of a Regional Disaster Management Plan by utilizing the Technical Guideline to formulate the plans by themselves. These dissemination activities were wrapped up at the special session of DM week event in Solo, Central Java held on 17 Oct 2015, with explanation of the Earthquake Hazard Mapping and Technical Guideline for formulation of Regional Disaster Management Plan. Approximately 130 people, which are as twice as the capacity of the venue, has participated and completed activities.
- Moreover, for the activities in West Nusa Tenggara Province, a Wrap-up Workshop was held on September 9, 2015, followed by the 6th (Final) JCC and Final Seminar held on September 15, 2015, in Jakarta to sum up all activities implemented in the project.

- In addition to the above project activities, many activities exceed the framework of the project were implemented. Remarkably, at the 6th Asian Ministerial Conference on Disaster Risk Reduction were held on June 2014, and at the side event organized by JICA, titled “Capacity Building on DRM of Local Government and Community through the National DRM organization” were held. Mr. Lilik Kurniawan, Director of DRR, BNPB, as Project Manager of the Project made presentation on Project Introduction and efforts made in Indonesia, and introduced and shared with participants on effective approach of the project applied for enhancement of disaster management capacity. Moreover, at the exhibition booth of JICA, disseminated information on the project through distribution of newsletters and display of formulated outcomes.
- At the 3rd UN World Conference on Disaster Risk Reduction held in March 2015, two events titled “Mainstreaming DRR into Development through practical DM Planning at the Local Level -Lessons Learned from BNPB and JICA Initiatives in Indonesia-” and “Building Resilience at the Local Level -Learning from the Experiences in the Efforts for Sustainable Community-based Disaster Risk Reduction Activities in Asia-” were co-organized by BNPB and JICA. More than 60 persons from all over the world were participated to these events, and shared good practices and lessons learned through implementation of the project, and got many voices from the participants that could be very referential for similar activities in their countries.

Through implementation of the project, at the beginning of the project, concrete outcomes have not been observed; therefore, the responses of stakeholders were limited. However, through implementation of activities in North Sulawesi Province, positive voices from counterparts were delivered to the BNPB, and dedicated for smooth implementation of the project. After the completion of the activities in North Sulawesi, through implementation of nationwide activities, the project was smoothly implemented and, as a result, the BNPB requested JICA to invite high-level officials from relevant organizations, and organize Knowledge Co-Creation Program for Decision Makers to understand mainstreaming of disaster risk reduction in Japan for promoting the related activities in Indonesia. Responding to this request, after the completion of all activities in Indonesia, from November 8 to 15, 2015, the program was implemented, and high-level officials from the BNPB, relevant ministries, organizations, mayors and head of Provincial BPBD were invited and they mainly visited Ministries and local governments in Japan. Through this opportunity, participants could understand the history of Disaster Management Administration, activities for mainstreaming Disaster Risk Reduction and role sharing between the national and local governments. Then, promotion of not only project activities but also DRR activities as a whole will be promoted, contributing to safety against disasters in Indonesia.

As a major result of the project, Technical Guidelines for each output can be pointed out. These Technical Guidelines were formulated based on existing relevant Head of BNPB regulations, in the view point of not only formulate and distribution of the documents in the project but also considering

sustainable utilization, and promoted to be allocated as annexes to these regulations as represented by Technical Guideline for formulation of Regional Disaster Management Plan. Finally, these documents are approved as reference documents attached to relevant head of BNPB regulations, and BNPB will be able to utilize for dissemination of similar activities for other Provinces. Moreover, in the activities for formulation of Regional Disaster Management Plan which were the major activity in the project, at all Regencies/Municipalities, plans were formulated and acknowledged by Head of Regency/Mayor and/or Head of BPBD. This result will strongly promote not to leave the plan only as a plan, and will lead to steady implementation of programs indicated in the plan. In fact, at the Regencies/Municipalities in the Pilot Provinces, budget for Disaster Management were increased and showed contribution of implementation of the project, however, continuation of this trend needs to be sustained.

5.2 Attention Points for implementation of the Project and Challenges for continuation for the future

5.2.1 Attention Points for the activities with BNPB and Challenges for continuation for the future

(1) Participation of C/Ps by the BNPB for the Project

BNPB (former BAKORNAS PB) is a new organization established in 2008. Its personnel and budget has been continuously increasing with the increasing awareness of the importance of disaster countermeasures. Indonesia has been exposed to an enormous number of disasters, and the main focus of disaster management has been shifted from emergency response to mitigation and preparedness. Indonesia is becoming a leading example of disaster management among not only Asian countries but also in the world. On the other hand, BNPB officials needs to respond to disasters that occur in local areas due to the limited capacity of disaster response at the local level, and also BNPB hosts and participates as a main member in many international conferences. This busy schedule hinders its ability to spend time establishing and implementing a national strategy on disaster management and assisting BPBDs. Furthermore, BNPB implements a large number of projects; both self-funded and funded by donors, and can spend limited time on the Project. From the above, BNPB has been swamped for both of its international and national role, capacity development activities of local government, and for the respond to the large scale disaster.

Considering its time constraints, the JICA expert team prepared issues to be discussed for each Output and conducted workshops and meetings continuously with the BNPB. It should be noted that the BNPB recognizes the significance of the project and showed eagerness to participate in the project activities regardless of their workload. Through these activities, the JICA Expert Team approved the implementation policy, which includes Japanese expertise with C/Ps of BNPB.

Having not fully participated in the workshops due to the respond to disasters or overlap with a major international conference, the BNPB strived to dispatch its staff to the kick-off workshop and other workshops of each Output in the pilot provinces. In this condition, the Chief Advisor and Deputy Chief Advisor visited Jakarta before and after the assignment in Manado to report the progress of the Project and workshops and experts of each Output also share progress as necessary, and promote the ability to implement similar activities by themselves after completion of the project.

(2) Guideline necessary to implement the Project

Due to the delay of the commencement of the project due to an unprecedented occurrence of disasters in Indonesia and Japan, development of a guideline, as decreed by the head of the BNPB, had been processed with the effort of the BNPB, and the original plan of the Project needed to be revised. On the other hand, since the decree of the head of the BNPB does not describe specific contents of each activity, it is difficult for regencies/municipalities to develop on their own. Considering this condition, the Project aims to develop detailed guidelines/manuals for regencies/municipalities so that they can develop by themselves.

Since these technical guidelines need to be developed based on the actual condition of each regency/municipality, technical guideline version 1.0 was finalized by March 2014 through the activities of the first pilot province except for Output 4.2. Technical guidelines were revised through the second pilot activities to reflect the characteristics of particular provinces and finalized as version 2.0 by the end of the Project at the end of September 2015.

These guidelines are utilized as official reference documents to the relevant BNPB regulations, and similar activities will be implemented with reference to these documents. BNPB as national responsible organization for disaster management, it is expected to monitor and give technical advice on these activities for local authorities. And through this project, BNPB is aware of necessity of capacity enhancement of BPBDs, by BNPB initiatives, these capacity development program will be implementing.

(3) Development of implementation framework for future utilization of project outcomes

As for Risk Assessment and the Regional Disaster Management Plan, which are core components of the Project, the BNPB initiated its own project with its own fund in 2012 immediately after the commencement of the Project. Originally, the Project was designed so that Japanese experts would be fully involved in the pilot activities with provincial BPBD and C/Ps appointed from all regencies/municipalities, while the BPBD and BNPB monitor the activities. In the second pilot province, C/Ps from the BNPB become the main implementers of the activities, and continues to implement activities for approximately 500 regencies/municipalities while assuring the sustainability of the Project. However, the BNPB has implemented a large number of self-funded projects—more than its staff can handle—and they are planning to subcontract the activities to Indonesian consulting firms. These conditions

were not expected at the beginning of the project, and the implementation framework should be restructured to accommodate the divergence from the original plan. The JICA Expert Team needed to examine the implementation framework with the consultation of JICA Headquarters and BNPB, and decided to apply the same methodology applied at the 1st Pilot Province and mainly involving the JICA Expert Team and concentrating only on Output 2, 3-1, and 4-2, and at the same time, added Output 5, to promote nationwide dissemination activities, formulation of an Earthquake Hazard Map for all of Indonesia. Finalization and utilization of a Technical Guideline for formulation of a Regional Disaster Management Plan were decided and implemented.

Technical Guidelines formulated through project activities are easy to understand by officials of regencies/municipalities, and effective utilization of these outcomes by BNPB to technically support the local governments is expected. Specifically, the Technical Guideline for formulation of a Regional Disaster Management Plan is approved as the official Technical Guideline to be utilized as a reference document by the relevant BNPB regulations, and each regency/municipality can utilize this guideline for formulation of the plan by their own. The BNPB has its own training facility in Sentul, and by utilizing this facility, through continuous efforts, it is expected to promote these trainings, and the BNPB is showing its willingness. It is necessary for BNPB to prompt the formulation of disaster management plan including risk assessment in local governments until all regencies/municipalities will have their own plan. For the formulation, training in the facility mentioned above and indirect support with participation of the BPBDs staff in the formulation process, which would be modified from the formulation process with the consultant continued until 2013, are essential, though some capable BPBDs could formulate by themselves with utilizing the technical guideline. In the beginning of formulating the disaster management plan for the first time, commitment of BPBD staffs is necessary so that they can understand the necessary activities and coordination among related organizations, and their importance. It also greatly contributes to the capacity development of local governments.

(4) Ideal role of BNPB for mainstreaming the disaster management

As mentioned above, it was difficult for the JICA Expert team to ask BNPB to participate in the project very frequently because of their enormous works and limited number of staffs. However, both of the JICA Project Team and BNPB have used time efficiently and tried their best to co-work for the project. Directorate under Deputy for Prevention and Preparedness of BNPB, they have been carrying out many activities contribute to DRR at local level. However, the officials of BNPB, who are supposed to work for prevention, also had to support emergency response because of the lack of responding capacity of local government. Then the JICA Expert team found that they have been not able to concentrate fully on their own work for now. Basically, the responding governance differs from the scale of the disaster. For instance, the

regencies/municipalities are required to respond to the disaster at the forefront, and the province or central government would support them in case when the scale of disaster is more than their boundary or scale. However, currently this system has not been working in Indonesia because of the lack and difference of the capacity of local governments. This project implemented the activities for developing the capacity of local governments for solving above issues immediately. Then, BPBDs of regencies/municipalities would build the disaster responding system and be able to facilitate the activities for disaster management as well as disaster response. The target regencies/municipalities in this project are 25 out of approximately 500 in Indonesia, and it is only about 5 % of all regencies/municipalities. In order to finish supporting all regencies/municipalities, effective activities are necessary, though BNPB is also working for the capacity development of BPBDs. Therefore, the result of this project should be utilized for mainstreaming DRR, and development of system and policy of BNPB for supporting BPBDs is necessary.

BNPB was established officially in 2008, after enactment of Law No. 24 on Disaster Management which was enacted from the experience of Tsunami by Sumatra-Andaman earthquake in 2004 and Central Java Earthquake in 2006, and it has been promoted the activities for disaster risk reduction based on HFA. As current disaster management authorities does not have so long history, it has been required many things such as clarification of role sharing between national and local government, capacity development of local government for emergency response and disaster management. In those requirement, BNPB has put their priority on capacity development of disaster management ability of local government, because they will continue to be suffered from the risk of damage from the disaster without it. However, now it is the turning point to concentrate on their original works, though it requires enormous manpower.

As a first step of capacity development of BNPB, it is necessary to finish activities for capacity development of local governments for disaster response, and prepare the situation that BPBD can concentrate on their own work as national disaster management government. Concretely, BNPB has to plan and implement the disaster countermeasures as national level, coordinate among related ministries for mainstreaming the disaster management, ensuring the budget for disaster management, keep the disaster management capacity of local governments, etc.

Though originally the role of BNPB is to respond the national level disaster, it has to be the central organization for disaster management, and concentrate on the disaster countermeasures and system development in national level by initially finalize the capacity development of BPBDs as soon as possible. The outputs of this project are to be utilized effectively for all above works.

5.2.2 Attention Points for the activities in the Pilot Provinces and Challenges for continuation for the future

(1) Participation of Provincial BPBD

Although the main implementers of the Project are regencies/municipalities, the provincial BPBD needs to understand the activities of the regency/municipality level since provincial BPBD plays a role coordinating the body in case of a disaster. Accordingly, the Project appoints provincial BPBD staff as the C/P of each Output and they participate in workshops and discuss the contents of each Output with regency/municipality BPBDs. Specifically, the Head of the BPBD and a large number of staff recognize the importance of the project and were actively participating in the activities. The involvement of the provincial BPBD contributed to the smooth implementation of the Project.

Moreover, in the activities in North Sulawesi Province, the JICA Expert Team and BPBD North Sulawesi province coordinated several activities in addition to the Project's original components. For example, the Japan-Indonesia Joint Seminar for Volcanic Disaster was created to implement countermeasures against volcanic disaster in North Sulawesi, which includes volcanic disaster-prone areas. The JICA Expert Team also assisted with the response to the flood in Manado, which occurred in February 2013. Through these activities, the Project contributes to the enhancement of the capacity of BPBD North Sulawesi province.

And in the West Nusa Tenggara Province, they had an extremely high motivation, and kept this high motivation throughout the period of project implementation. This is because of strong leadership from the head of the BPBD Province, not only dedicated to smooth implementation of the project, but also enhancement of the disaster management capacity of each counterpart directly.

The component of this project fit the necessary activities of Provincial BPBDs, and they recognize the component as part of their own activities. The target areas, which include all regencies/municipalities in the province, also fit the needs of them. The JICA Expert team also considered that the Provincial BPPD can coordinate with BNPB and Regency/Municipality BPBDs through the project activities. Above points brings about the active participation of Provincial and Regencies/Municipality BPBDs.

(2) Participation of Regency/Municipality BPBDs

The first regency/municipality BPBD in Indonesia was established in 2008 and all 15 regency/municipality BPBDs in North Sulawesi were established in 2011 at the beginning of the project. Compared to other provinces, these BPBDs are well-established and show high awareness of disaster management. North Sulawesi has 15 regencies/municipalities and three of them are island regencies.

Basically, workshops and main project activities were held in Manado, the capital of the province. The budget of the regency/municipality BPBD was limited due to participation in the workshops of each Output, and many regency/municipality BPBDs had difficulty in securing the budget to participate in the activities. Specifically, the participation rate was relatively low in Bolaan Mongondow areas and island areas that are far from Manado. Considering this geographical condition, the JICA Expert Team, as much as possible, implemented follow-up activities for these regencies so they did not get left behind.

The participation rate of each workshop was 70 to 80 percent on average and it was regarded as relatively high. Since communication tools such as fax machines and internet capability were limited in regency/municipality BPBDs, the JICA Expert Team utilized a Facebook group, phone calls, and an official invitation letter to announce the workshop and increased the number of participants at the workshops.

In order to increase the participation rate of the workshops in the second pilot province, a kick-off meeting was held in West Nusa Tenggara province in June 2013. In this meeting, the JICA Expert Team explained the project activities; the method of project implementation; cost sharing among JICA Project, BNPB, provincial BPBDs, and regency/municipality BPBDs; and sent letters to secure the necessary budget for project implementation. In the West Nusa Tenggara Province, there are two main islands, Lombok Island and Sumbawa Island, each having 5 regencies/municipalities for each island, and based on the needs, the same contents of workshops were held at each island. By applying this method, and clearly announcing project activities well before the actual start of project activities, the participation rate of each workshop reached over 90% on average.

The JICA Expert team has considered that not large difference of capacity level occurred among regency/municipality BPBDs by following up activities, though it was firstly seen due to the difference of participation rate. The capacity of regency/municipality BPBDs had been developed through the project activities as on the result of capacity assessment. Continued activities utilizing the result of project activities, such as collecting and management of disaster information, revision of hazard map, implementation of disaster management drill, and so on, can be prepared by themselves at present.

(3) Capacity enhancement of Provincial and Regency/Municipality BPBD

Before the commencement of the first pilot activity, the Project implemented C/P training in Japan from August to September 2012, and for the second pilot province, implemented it in August 2014. Participants consisted of the BNPB, the provincial BPBD, and heads or representatives of regency/municipality BPBDs. During the C/P training, participants visited various disaster management-related agencies and learned the necessity of a multi-sector disaster management framework. Participation of high-ranking officials contributed to the understanding of the Project and its cooperation and was effective for smooth implementation of the Project.

In the activities at pilot provinces, Japanese experts and local consultants employed by the Project were directly implementing a technical transfer toward regency/municipality BPBDs. Compared to the beginning of the project; the capacity of the C/Ps was gradually increased. This tendency was observed during the workshops when more C/Ps were making proper comments and raised awareness as an officer in charge of disaster management. Since coordination among related agencies is essential to disaster management activities, providing opportunities for BPBD C/Ps to communicate with other regencies/municipalities is important for sharing knowledge of disaster management and facilitating coordination with other regencies/municipalities in case of disaster.

(4) Ideal role of Provincial and Regency/Municipality BPBD and support from BNPB

Provincial BPBD has their role of implementation of both structural and nonstructural measures in provincial level and also role of coordinating organization in case of occurrence of disaster larger than regency/municipality level. Through this project, they have monitored the activities of regencies/municipalities. It is required for them to continue this monitoring regularly, and advice and guide to regencies/municipalities, report to the BNPB, and get the feedback from BNPB. Through the project, sense of distance between province and each regency/municipality has been getting close, and regular meeting has been also held. Accordingly, the role as coordinating organization among regencies/municipalities and BNPB is essential. BNPB is also required to guide them technically.

Regency/municipality BPBD has responsibility for saving lives and properties of residents in case of emergency as mentioned, and prompt response and continuous activities for disaster risk reduction is required. Though capacity development work from BNPB including this project is currently prepared, they have to continue the work by themselves after finishing the support from BNPB. Also, this support work should be prepared by Provincial BPBD in the future. Then, BNPB will support the Provincial BPBD, and the support to regency/municipality BPBD is to be through Provincial BPBD. Continuous work for development of this system is necessary.

This project was implemented aiming to enhance the disaster management capacity at regency/municipality BPBD, which was recently established by involving Provincial BPBD having responsibility of coordination, and BNPB having responsibility to provide technical supervision. Basic activities needed to obtain by staff of regency/municipality BPBD were widely included and implemented with their proactive participation. Through implementation of these activities, all counterparts are self-confident, and matured to implement disaster management activities on their own. However, disaster management efforts are endless efforts and promoting these activities sustainable, promotion of mainstreaming DRR at Province and Regencies/Municipality level is essential, and secure appropriate budget allocation, and for implementation of disaster management activities, effective utilization of outcomes from the project is very much expected with continuous efforts; monitoring of BNPB, Provincial BPBD and their own.

5.3 Contribution to the achievement of Sendai Framework for Disaster Risk Reduction (SFDRR) through implementation

After adoption of the Hyogo Framework for Action (HFA) in Second UN World Conference on Disaster Risk Reduction (WCDRR) in Hyogo, Japan (2005), each country including Indonesia has enacted activities for disaster risk management such as developments of laws, foundation of organizations for Disaster Risk Reduction (DRR), corporation among those organizations and regions, capacity development of organizations and staff, and understanding the vulnerability with risk assessment. Though these activities have achieved some results, the activities which directly contribute to disaster risk reduction were still limited, especially in the local government levels due to the lack of budget and knowledge.

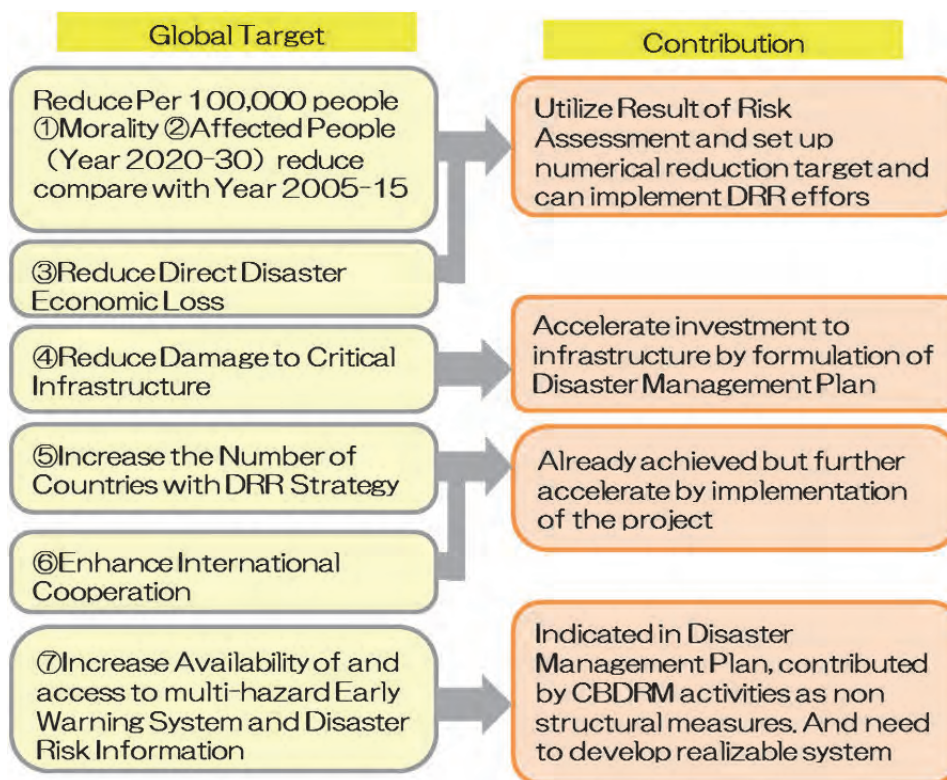
Also, global discussion about development after 2015 was emphasized on from MDGs to “SDGs” and also discussions about climate change were also addressed to sustainable development plans. Then, a consistent policy is required for mainstreaming DRR in the development of a sustainable society. In this situation, a new standard which is called Sendai Framework for DRR (SFDRR), as summarized on Table 5.3.1, for disaster management was adopted in the Third UN WCDRR on March 2015. In Indonesia, for next 15 years, it is expected to promote implementation of DRR activities based on Expected Outcome, Goal, and Priority for Action.

Table 5.3.1 Framework of SFDRR

SFDRR	
Expected Outcome	The substantial reduction of disaster risk and losses in lives, livelihoods and health and in the economic, physical, social, cultural and environmental assets of persons, businesses, communities and countries
Global Target	<p>Prevent new and reduce existing disaster risk through the implementation of integrated and inclusive economic, structural, legal, social, health, cultural, educational, environmental, technological, political and institutional measures that prevent and reduce hazard exposure and vulnerability to disaster, increase preparedness for response and recovery, and thus strengthen resilience</p> <p>Seven Global Target :</p> <ol style="list-style-type: none"> (1) Substantially reduce global disaster mortality by 2030, aiming to lower average per 100,000 people of global mortality in 2020-2030 compared to in 2005-2015. (2) Substantially reduce the number of affected people globally by 2030, aiming to lower the average global figure per 100,000 in 2020-2030 compared to in 2005-2015. (3) Reduce direct disaster economic loss in relation to global gross domestic product (GDP) by 2030 (4) Substantially reduce disaster damage to critical infrastructure and disruption of basic services, among them health and educational facilities, including through developing their resilience by 2030. (5) Substantially increase the number of countries with national and local disaster risk reduction strategies by 2020. (6) Substantially enhance international cooperation to developing countries through adequate and sustainable support to complement their national actions for implementation of this framework by 2030. (7) Substantially increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to the people by 2030.
Priority for Action	<ol style="list-style-type: none"> 1. Understanding disaster risk 2. Strengthening disaster risk governance to manage disaster risk 3. Investing in disaster risk reduction for resilience 4. Enhancing disaster preparedness for effective response, and to “Build Back Better” in recovery, rehabilitation and reconstruction

In the project, activities were closely related with goal and priority for action in SFDRR, and directly contributed to the efforts towards achievement of SFDRR for the future. Specific contribution on goal and priority for action in SFDRR are summarized in Figure 5.3.1.

Contribution to Global Target



Contribution to Priority for Action

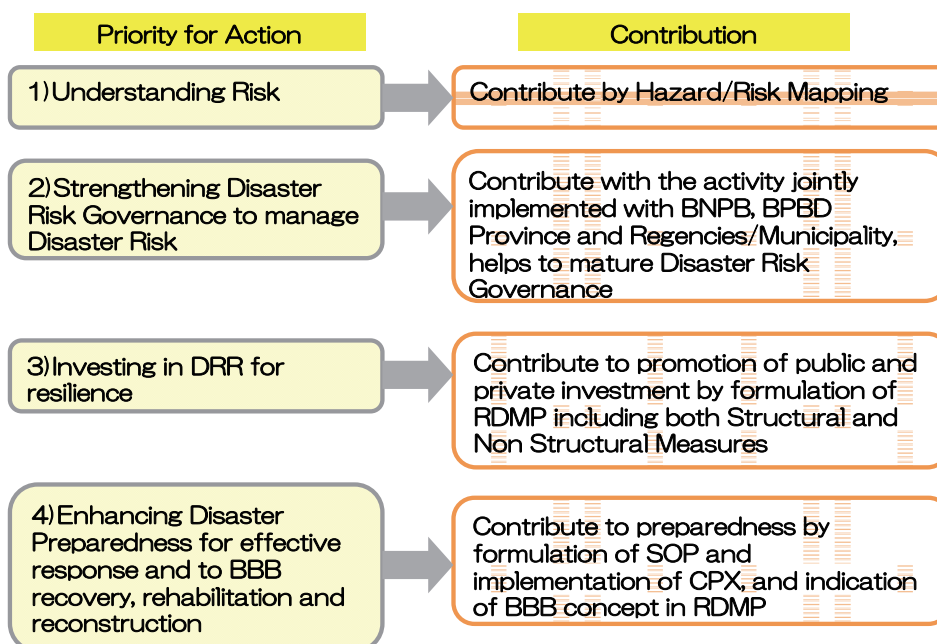


Figure 5.3.1 Contribution to Global Target and Priority for Action in SFDRR

In Indonesia, Disaster Management Law was enacted in 2007 followed by establishment of BNPB in 2008, and shifted from response oriented approach to DRR oriented approach, and strongly promoted for DRR efforts, and started to appear actual results through the efforts made in the past. In order to promote mainstreaming DRR furthermore, it is necessary to implement DRR activities including specific structural and nonstructural measures, and to realize this, strong leadership and demonstrate disaster risk governance of BNPB. As the final activity in the Project, Knowledge Co-creation Program for Decision Makers were conducted inviting high level officials from relevant Ministries and Organizations, as well as head of local government, and gave an opportunity to learn holistic disaster management system in Japan. Result of this program was reported to the President. In the National Mid-term Development Plan formulated in 2015, Disaster Management are indicated as one of the key issues and environment for implementation of DRR efforts are prepared. As a leader of Disaster Management in South-east Asia, Indonesia's role is important and expected to continuously make efforts to realize countries resilient against disasters.

5.4 Role of BNPB for implementation of SFDRR and its issue and proposal

JICA has implemented the project for disaster risk reduction from the time of BAKORNAS PB, former organization of BNPB, as well as the support for reconstruction after the Sumatra-Andaman earthquake in 2004. After the adoption of HFA 2005-2015, BNPB had actively prepared the law framework and organization system and produced extensive results. In the 5th AMCDRR in October 2012, which was held in Yogyakarta and was the preparation conference for the third WCDRR, Indonesian government invited various disaster related organization from both of outside and inside of Indonesia, and share the outputs. This conference was the turning point for promoting disaster management as both of government and residents got more interest in disaster management. In the 6th AMCDRR, which was held in Thailand, the participants from Indonesia showed their leadership and provided extensive inputs. Also in the 3rd WCDRR in 2015, participants from Indonesia provided the active inputs based on their experiences. Furthermore, BNPB has held the meetings with various stakeholders in Indonesia after adoption of SFDRR, formulate the roadmap of coming 15 years with 3 phases of 5 years for each priority action, and already started the work for achieving it. Thus, BNPB has been proceeded the activities for disaster risk reduction steadily. Then, the JICA Expert team proposes the role of BNPB, issue and proposal for implementation of SFDRR in coming 15 years.

BNPB was established in 2008 by the Presidential Regulation No. 8/2008 concerning National Agency for Disaster Management, and its duties is prescribed as below.

- 1) Providing guidelines and directions on disaster management which include disaster prevention, emergency response, rehabilitation, and reconstruction in a fair and equitable manner;
- 2) Setting disaster management standardization and requirements by virtue of Legislation;

- 3) Communicating information on disaster management activities to the community;
- 4) Reporting on disaster management to the President on a monthly basis in a normal condition and at any time in disaster emergency condition;
- 5) Using and accounting for national and international contributions aids;
- 6) Accounting for the spending of budget received from the State Budget;
- 7) Carrying out other obligations in accordance with legislation; and
- 8) Preparing guidelines on the establishment of Regional Disaster Management Agency.

To achieve above various duties, BNPB has been developed the disaster management related activities actively. For instance, BNPB has implemented the related regulations, develop the capacity of organization, prepare the activities for all disaster management phase including prevention and preparedness, response, and recovery and reconstruction. Currently, under the new head of BNPB who appointed in September 2015 with new office, BNPB has been promoting the work for creating resilience in Indonesia, and these activities are proposed to implement with consideration of achieving SFDRR.

As BNPB has promoted the activities steadily as national disaster management organization, organizational and individual capacity would be developed rapidly. On the other hand, BNPB has role in 1) international society, 2) national level, and 3) local level. Table 5.4.1 summarizes the Role of BNPB for implementation of SFDRR and its issue and proposal with above three categories.

Table 5.4.1 Role of BNPB for implementation of SFDRR and its issue and proposal

Category	Role of BNPB	Issue	Proposal
Role in International Society	<ul style="list-style-type: none"> • Role as knowledge center in Asia as Disaster prone country (Share and utilization of knowledge, lessons, and countermeasures) • Promotion of International cooperation • Dissemination of information about activities for achieving SFDRR • Support for emergency response in other countries 	<ul style="list-style-type: none"> • Expansion of disaster education and training center is necessary. Enormous works such as standardization of module and arrangement of data • It is required to be the supporting side in the future, though currently getting supported from international donors. • No particular issues regarding dissemination, as it already start the concrete activities for dissemination. • No particular issues for supporting other countries in case of disaster, as it is already prepared, and it contributes to the capacity development of Indonesian emergency response abilities. 	<ul style="list-style-type: none"> • Establishment of Disaster Management Knowledge Center with training facilities and portal website for Asian region, accepting the visit from other countries • More effective acceptance from international donors with coordination and promotion of supporting activities with above knowledge center, etc. • Continuous support and sharing the activities, outputs and lessons through above knowledge center or international conferences, etc. • Continuous implementation of emergency response support and improvement of emergency response capacity
Role in National Level	As BNPB itself	<ul style="list-style-type: none"> • National Disaster Management Plan 2015-2019 is to be finalized soon, though it has been postponed because its discussion term was overlapped with National Mid-term Development Plan 2015-2019, and also because of coordination about the contents with SFDRR. The activities based on the implementation plan of this National Disaster Management Plan 2015-2019 will be implemented. Also, the Disaster Management Master Plans categorized into type of disasters are to be formulated. Concentrated and continued formulation activities are required. Also, revision of Disaster Management Law is necessary, as it has already 9 years passed after its enactment. Various relevant regulations has to be arranged and integrated, because currently they are formulated derivatively and the contents does not have consistency in some cases. • Organic collaboration and coordination with related ministries and organizations with strong leadership is required, as it has heightened its level of awareness with active activities in Indonesia. • Each region has different character as Indonesia has large land and consist of 34 provinces and about 500 regencies and municipalities. Therefore, capacity development in all area requires enormous manpower and time. Effective and efficient capacity development activities are required • BNPB hire many young staffs for enlargement of its organizational scale, but they are not having enough opportunity for participating in practical activities. It is necessary for them to get more opportunity to experience the disaster response and to increase their knowledge and knowhow. 	<ul style="list-style-type: none"> • Development of system that BNPB can concentrate on planning and implementation of National Disaster Management Strategy; Capacity development activities of provincial and regency/municipality BPBD should be prepared by province or collaboration of province and regency/municipality in the near future. Regular revision of Disaster Management Law and Head of BNPB Regulation to match with the current situation. • Promotion activities for mainstreaming DRR with Disaster Management Steering Committee. Role sharing with each ministry; the role of each ministry are to be described in National Disaster Management Plan and Disaster Management Law • To summarize the necessary capacity and requirement for disaster management activities in local area, and establish the system of human development and training. Development of easy understanding training tools and capacity development activities with them; utilizing the output of this project. • Proper human development plan and education system based on the role of BNPB. Creation of opportunity to study through conferences, events, and trainings.
	As coordinating organization	<ul style="list-style-type: none"> • Promotion and monitoring of mainstreaming of DRR for related ministries and organizations • Collaboration and coordination among related ministries and organizations in case of disaster • Collaboration and cooperation with government, research organizations, public company related to broadcasting, transportation, lifeline and infrastructure, private company, NGO, Community, etc. • Consider and establishment of system assuring the budget for disaster management • Record, report, share, and assess disaster management efforts of ministries with annual publication White Paper on disaster management. 	<ul style="list-style-type: none"> • Foundation for mainstreaming DRR is ready as many stakeholders participated in the 3rd WCDRR, and National Mid-term Development Plan indicates the importance of it for continuous economic development. BNPB with related ministries and organizations are required to recognize disaster management as one process for development. For this, in line with formulation of implementation plans, all ministries should formulate Disaster Management Operation Plan, which are formulated in Japan, stated on disaster management policy and activities, and their implementation in each ministries. • Standardization of emergency response method with SOP, as well as Disaster Management Operation Plan is necessary. Collaboration and coordination process should be discussed beforehand and be included in this. • Current Disaster Management Steering Committee does not include all stakeholders as stated in the Disaster Management Law, and National Platform plays role to connect them. • As national disaster management organization, not only budget plan of itself but also system for ensuring of budget for disaster management of related ministries, organizations, local governments are required. Currently, Ministry of Home Affairs are preparing the "Regulation for implementation of minimum requirement activities to be implemented for DRR at local level" for local governments. System to facilitate the ensuring of continuous budget for disaster management with this regulation, and similar system or regulations for national government is necessary. • Currently, BNPB publish the regular bulletins and reports including its activities and disaster response activities. Disaster management activities of related ministries and organization should also be recorded, published, and evaluated for future planning and activities.

Category		Role of BNPB	Issue	Proposal
Role in Local Level	For Provincial government and BPBD	<ul style="list-style-type: none"> Supporting capacity development of disaster management capacity of Provincial BPBD Capacity development of emergency response capacity in provincial level, and collaboration, coordination, and support with Provincial BPBD, development of coordination and support system with Public Works Agency and experts from Universities, etc. Support for recovery and reconstruction 	<ul style="list-style-type: none"> Provincial governments have higher disaster response ability compare with the regency/municipality governments. However, the ability differs among provinces as they are new organization and due to Indonesian geographical characteristics as large scale and consisting of many islands. Therefore, effective and efficient method for capacity development is necessary. Also, the capacity development has to consider that Provincial BPBDs are required to monitor and advise regency/municipality activities in the future. Provincial governments are required to coordinate the disaster response in case the disaster with over scale for regency/municipalities occurs. TTX and FTX for capacity development of province, collaboration with BNPB and regency/municipality is necessary. BNPB has worked for these training, and continuous works are required. Also, currently staffs from BNPB respond to the limited scale disaster, and capacity development of emergency response and coordinating ability of province is urgent issue. Framework for coordinating with Public Works Agency, experts from universities, etc. for ensuring security in emergency response and developing system for damage survey. It is common for provincial government to ask central government for their support for recovery and reconstruction even in case of comparatively limited scale disaster. It is preferable for provincial government to invest in disaster management with increased budget for disaster management, and to become able to recover and reconstruct by themselves by mitigated disaster scale and their increased budget. 	<ul style="list-style-type: none"> Training for province. Active involvement in the training for regency/municipality. Promotion of capacity development of provincial government for emergency response ability and collaboration and coordination ability with BNPB and regency/municipality. Collaboration and cooperation system with Public Works Agency and University for building system for damage survey. Promotion of investment in disaster risk reduction for preventing the recovery and reconstruction budget from rising.
	For Regency/Municipality government and BPBD and community	<ul style="list-style-type: none"> Capacity development of Regency/Municipality BPBDs for disaster management capacity Capacity development of Community for disaster response ability Collaboration, coordination, and support with Regency/Municipality BPBDs for emergency response in case of disaster Support for recovery and reconstruction 	<ul style="list-style-type: none"> The capacity development of the regency/municipality government is urgent issue, as they are required to response to the disaster in the frontline, though their ability differs in about 500 regencies/municipalities. Currently, the capacity development of the regency/municipality government has been promoted by this project and others, but it takes time to finish all regencies/municipalities. Therefore effective and efficient method is necessary. Also, it is required for them to build the system responding by themselves without support from BNPB or provincial government in the future. Then, strategic capacity development which ensures the sustainable development is essential for developing this system. Activities for capacity development of community and promotion of activities with local university, private companies, etc. are also necessary. Directorate of Community Empowerment in BNPB carries out community based disaster risk management activities such as workshop and disaster management drill in the region based on the Technical Guideline for Facilitating Community Empowerment towards Disaster Resilient Village which is in accordance with the Head of BNPB Regulation No.1/2012 on Resilient Village. Through these activities, system for self-help and mutual help against disaster is strengthened. In order to ensure the sustainability in the area and dissemination in other region, development of system for provincial and regency/municipality government to carry out similar activities by themselves is necessary. <p>For this system development as well as for capacity development of community, it is necessary to carry out the capacity development activities for provincial, regency/municipality government staff at the same time, and develop their guiding ability to communities.</p> <ul style="list-style-type: none"> It is common that BNPB supports emergency response even in case of disaster with limited damage. Therefore, capacity development of emergency response capacity by themselves and coordination and management ability with provincial government is urgent issue. It is common for regency/municipality government to ask central government for their support for recovery and reconstruction even in case of comparatively limited scale disaster. It is preferable for regency/municipality government to invest in disaster management with increased budget for disaster management, and to become able to recover and reconstruct by themselves by mitigated disaster scale and their increased budget. 	<ul style="list-style-type: none"> Efficient and effective training utilizing the technical guideline formulated through this project. Continuous work for “Resilient Village” Program and development of sustainable implementation system of the program by inviting provincial and regency/municipality BPBD to this program. Promotion of capacity development of regency/municipality government for emergency response ability and collaboration and coordination ability with provincial government. Promotion of investment in disaster risk reduction for preventing the recovery and reconstruction budget from rising.

The JICA Expert team summarizes the role of BNPB for implementation of SFDRR and its issue and proposal as above, but there is no methodology to short cut necessary activities. From now on, it is necessary to promote the activities for mainstreaming DRR in each related ministry as well as to develop capacity of local governments. In Japan, which suffers from the disaster for a long time, the disaster management is recognized as investment for disaster risk reduction, and view of disaster management is involved in each level of governments and their plans. The dignitaries from ministries, which is essential for mainstreaming DRR, participated in the Knowledge Co-creation Program in November 2015. They often discuss the experiences and feelings from Japan in the course of participation of the program. They felt the necessity of mainstreaming DRR and understand that disaster management is the investment for the sustainable development. Then, they discussed how to implement in Indonesia. It was a great opportunity to promote mainstreaming DRR and to advance for achievement of SFDRR.

This project was implemented with many components, in large area, and with various stakeholders from national to local level. The components of the project was comprehensive such as capacity development of local BPBDs, hazard and risk assessment with scientific data, formulation of disaster management plan based on the assessment, accumulation of disaster information, community awareness activities, etc. Therefore, the necessities of those components were recognized by national and local governments, and they are involved in the project actively. Furthermore, many events such as international conference for disaster management which has held in 2013, 2014, 2015 and original events in Indonesia set the mood for many people to think of disaster and its management. These internal and external factors lead the success of the project.

Natural disasters have taken away precious lives and have damaged the property of countless people. Japan has learned from those natural disasters through long history, has improved the disaster management system, and has promoted the mainstreaming DRR in all stakeholders. The effect of those continuous works gives some result but the work for disaster risk reduction never ends, and continuous effort for creating resilience against the disaster, and revision of measures in case of large scale disaster are essential. We can learn a lot from the lessons learned from the past disasters. Japan has to share these lessons and they are integrated into SFDRR.

Indonesia has experienced lots of natural disasters like Japan, and accumulated lots of lessons and knowhow from them. It is necessary for all stakeholders to recognize the disaster as their own issues, and think and do their required role. In other words, it is the concept of self-, mutual- and public help in Japan. BNPB are required to understand these contents and work for many things such as clarification of role of ministries and organizations, cross sectoral promotion of mainstreaming DRR, capacity development of provincial and regency/municipality governments, and participation to the awareness and capacity development activities for private companies and residents through regency/ municipality. BNPB put its priority on capacity development of local

government, but some of these activities can be responded by our resources such as local universities or consultants by utilizing the result of the project. It is essential for BNPB to prepare the condition that it can concentrate on their original works such as formulation and implementation of national disaster management policy, coordination and monitoring of related ministries, respond to the national scale disaster. Accordingly, mutual cooperation among stakeholders and their understanding of importance of disaster management is essential.

Strengthening of organization structure and activities for disaster risk reduction in Indonesia has lots of lessons for other developing countries. In particular, lessons such as procedure for development of laws and regulations, development of organization structure, budget compilation, prevention activities of every year, emergency response to the various kinds of disaster, recovery and reconstruction from large scale disaster, are based on their experience and include many knowhow which other countries can learn. Disaster management in Indonesia is getting more attention from international society. To fulfill its responsibilities, BNPB and other organizations such as ministries, private companies, and community are required to get together, and to make effort for both of contributing to international society and building resilience against natural disasters in Indonesia.

Appendix 1

List of the Meetings and Workshops for Each Output

List of the Meetings and Workshops for Each Output

Output 1

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
1	Feb 9th, 2012	5 th Fl of ITC Building, Jakarta JICA - BNPB Secretariat (Jl. Abdul Muis No.8)	Georisk Project Dr. Matthias Dorn (Team Leader) Dr. Dicky Muslim I Ketut Tissahadi Ms. Chandra Soekarno	Kenichiro Kato; Kiyotaka Owada, Tandiono. Marisa	M	Information Sharing
2	Apr 2nd, 2012	BNPB 1 (Jl.Juanda, Pusdalops, 4th Floor)	RidwanYunus (BNPB (UNDP))	Makoto Ikeda, Akihiro Furuta, Andre Jaya	M	Discussion of DIBI System
3	Apr9th, 2012	Office of BPBD Province (Hoyke's room)	Head of BPBD Kabupaten Minahasa, Secretary of BPBD Kabupaten Minahasa (Mr. Jimmy S.), Mrs. Lieke Pangouw (Head of Prevention and Preparedness Division), Mr. Joike (In charge of disaster data record)	Makoto Ikeda, Akihiro Furuta, Andre Jaya	M	Discuss about DIBI
4	Apr10th, 2012	BPBD Office of Minahasa Region	Head of BPBD Kabupaten Minahasa, Secretary of BPBD Kabupaten Minahasa (Mr. Jimmy S.), Mrs. Lieke Pangouw (Head of Prevention and Preparedness Division), Mr. Joike (In charge of disaster data record), BPBD of North Sulawesi Province Mr. Steven Posumah	Makoto Ikeda, Akihiro Furuta, Andre Jaya	M	Discuss about DIBI
5	Apr10th, 2012	BPBD Office of Tomohon City	BPBD of North Sulawesi Province Mr. Steven Posumah, BPBD Kota Tomohon Secretary of BPBD Kota Tomohon (Mr.Paulus Roring), Mr. Willem Runtukahu (Head of Prevention and Preparedness Division), Mr. Franny Tulung (Head of Rehabilitation and Reconstruction Division, and other staffs	Makoto Ikeda, Akihiro Furuta, Andre Jaya	M	"Disaster Data/ Information Management"

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
6	Apr11th, 2012	BPBD Office of Manado City	Mr. Derry Unso (BPBD of North Sulawesi Province), Mr. Jefri Panambunan (Head of Prevention and Preparedness Division), Mr. Yosep Tengor (Secretary of BPBD Kota Manado), Mr. Johan Theo Supit (Head of Rehabilitation and Reconstruction Division), Mr. Fidelwan Buulolo (Head of Preparedness Section), and other staffs.	Makoto Ikeda, Akihiro Furuta, Andre Jaya	M	Discuss about DIBI
7	Apr16, 2012	Pusdalops, BNPB Juanda	Head of Information Division (Mrs. Neulis Zuliastri), Head of Data Division (Mr. Agus Wibowo), Staff of Data, Information and Public Relation (Mrs. Linda Lestari)	Makoto Ikeda, Akihiro Furuta, Andre Jaya	M	Discuss about Disaster Data and Information
8	Apr17, 2012	Pusdalops, BNPB Juanda	Head of Data Division (Mr. Agus Wibowo) BNPB	Makoto Ikeda, Andre Jaya	M	Discuss about Disaster Data and Information
9	Apr17, 2012	Pusdalops, BNPB Juanda	Head of Pusdalops – (Mr. Sutopo Purwo Nugroho)	Makoto Ikeda, Andre Jaya	M	Discuss about Disaster Data and Information
10	October 10, 2012	Gran Puri Hotel, Meeting Room Anoa II, Manado	Mr. Derry Unso (Province/ Kota BPBD, C/Ps of Output 1 from Kab.Kota	Makoto Ikeda Akihiro Furuta Andre Jaya	W	Workshop Proceedings "1 st Kick-Off Workshop in North Sulawesi Province for the Project of Enhancement of the Disaster Management Capacity of BNPB and BPBD"

Output 2

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
1	Oct 10th, 2012	Hotel Gran Puri, Sopotan Room on 3rd Floor, Manado	BPBD Province, BPBD Kab/Kota, Others	Kenichiro Kato, Sugio Imamura, Marisa Mei Ling	W(1st)	1st Kick-Off Workshop in North Sulawesi Province for the Project to Enhancement of the Disaster Management Capacity of BNPB and BPBD in Indonesia
2	Oct 31st, 2012	BAPPELITBANG of North Minahasa	Ronny, Dudi (BPBD), Reyke, Michael (BAPPELITBANG)	Kato, Imamura, Furuta, Tandiono, Yosida, Atha	M	Discuss about Map, GIS, Data.
3	Oct 31st, 2012	BPBD of North Minahasa	Lilly Lengkong, Dudi Fatah BPBD)	Kato, Imamura, Furuta, Tandiono, Yosida, Atha	M	Talking about Map and need some data.

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
4	Oct 30th, 2012	BAPPEDA of Kota Manado	John Supit, Fidelwan Bulolo (BPBD), Benny, Denny (BAPPEDA)	Kato, Imamura, Furuta, Tandiono, Yosida, Atha	M	Talking about Disaster Map and need some data.
5	Oct 30th, 2012	BPBD office of Kota Manado	Maximilian Tatahede (Head of BPBD), John Theo Supit, Julien Bawole, Jane Bangonang, Fidelwan Buulolo (BPBD), David Mambu (University of Samratulangi - Lecture).	Kato, Imamura, Furuta, Tandiono, Yosida, Atha	M	Discussion how to prepare the disaster map of Kota Manado
6	Oct 29th, 2012	BAPPEDA of Minahasa Selatan	Vecky (Secretary of BAPPEDA), Stevany (Staff of BAPPEDA), Steven Poluakan (BPBD)	Imamura, Furuta, Tandiono, Ajib, Atha	M	Talking about disaster map and request of data.
7	Oct 29th, 2012	BPBD of Minahasa Selatan	Steven Poluakan (Head of Section Recontruction)	Imamura, Furuta, Tandiono, Ajib, Atha	M	Discussion how to prepare the disaster map of Kab. Minahasa Selatan
8	Oct 25th, 2012	BAPPEDA of North Sulawesi Province	Noldy Tuerah (Head of BAPPEDA)	Kato, Imamura, Furuta, Atha	M	Introduction of JICA Project Activities in North Sulawesi.
9	Oct 18th, 2012	BPBD of North Sulawesi Province	Counterparts of BPBD Province, BPBD Kab/Kota.	Kenichiro Kato, Sugio Imamura, Akihiro Furuta, Marisa Mei Ling.	W (2nd)	2nd Workshop of Output 2
10	Oct 17th, 2012	BPBD of North Sulawesi Province	BPBD Province, BPBD Kab/Kota, Others	Kenichiro Kato, Sugio Imamura, Akihiro Furuta, Marisa Mei Ling.	W (2nd)	2nd Workshop of Output 2
11	Jan 20th, 2012	BNPB II office, Mr Teddy's office	Dr. Teddy (Director of Disaster Risk Reduction), Mr. Anas (Head of Sub Directorate of Mitigation)	Tokunaga, Takahasi, Kenichiro Kato, Katsu Kato, Tandiono, Andre, Marisa, Rio.	M	Discussion on various aspects of output 2 & 3
12	Feb 2nd, 2012	Pusdalops of BNPB, Jl. Juanda	Mr. Ridwan Yunus (UNDP)	Kenichiro Kato, Tandiono, Andre, Marisa	M	Information sharing and Meeting's proposal
13	Feb 7th, 2012	Meeting rooms of BNPB, Ground floor	Dr. Teddy, Mr. Lilik, Mr. Anas, etc	Dr. Baba, Mr. Tokunaga (JICA), Kenichiro Kato, Katsu Kato, Owada, Tandiono, Andre, Marisa.	M	Discussion about Methodology for creation of Hazard & Risk Map.
14	Feb 9th, 2012	BNPB III, JICA Team Office, jln Abdul Muis, Jakarta	Dr. Matthias Dorn, Dr. Dicky Muslim, I Ketut Tissahadi, Chandra Soekarno	Kenichiro kato, Kiyotaka Owada, Tandiono, Marisa	M	Information Sharing.
15	Feb 23rd, 2012	BNPB Office II, Mr. Teddy's Room, Jln Tanah Abang Jakarta	Mr. Anas	Imamura, Tandiono, Andre	M	Introduction and Preliminary Meeting

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
16	Mar 2nd, 2012	BNPB II, Meeting room, Jln Tanah Abang Jakarta	Mr. Anas, Mr. Budi, Ms Gita, Mr. Pratomo Cahyo Nugroho, Ms. Arie Astuti Wulandari, Ms. Melilina Wulandari	Imamura, Tandiono, Andre	M	Presentation of Hazard Map in Japan.
17	Mar 6th, 2012	BNPB II, 3rd floor, jln Tanah Abang, Jakarta	Mr. Budi (Section Head of Preparedness), Mr. Bernardus (C/P Member No:4-1-1)	Imamura, Tandiono (JICA Team). Novianti (Local Consultant engage for AHA, JICA Expert in BNPB)	M	Confirmation of data availability for creation of Tsunami Hazard Map.
18	Mar 8th, 2012	BNPB, Teddy's room, Tanah Abang, Jakarta	Mr. Anas	Imamura, Tandiono, Andre	M	To get recommendation letter for visiting Manado
19	Mar 9th, 2012	LIPI (Geotechnology), Bandung	Danny Hilman (member of team 9), Mudrik R. Daryono (Phd. Student).	Sugio Imamura, Andre, Via	M	Discussion about Methodology for creation of Hazard & Risk Map.
20	Mar 12th, 2012	BPBD of North Sulawesi Province	Hoyke Makarawung (Head of BPBD), Wolter Rosang, etc	Imamura, Tandiono	M	Introduction Of hazard, risk map and data collection
21	Mar 12th, 2012	BAPPEDA of North Sulawesi Province	Wolter Rosang (Division head of prevention and preparedness, BPBD), Mrs.Selvi (Section head of community empowerment, BPBD)	Imamura, Tandiono	M	Introduction of project and contact establishment
22	Mar 12th, 2012	BPS of North Sulawesi Province	Mr. Wolter Rosang, Selvi (BPBD)	Imamura, Tandiono	M	Collecting data
23	Mar 12th, 2012	Public Works (PU) of North Sulawesi, Water resources devision	Mr. Walter Rosang, Mrs Selvi	Imamura, Tandiono	M	Introduction of project and Collecting data
24	Mar 12th, 2012	Station Of Geophysics of Manado (BMKG)	Mr. Rosang (BPBD), Mr. Slamet Suyitno (Head of Station), Mr. Riyadi (Head of data and informatin unit)	Imamura, Tandiono	M	Introduction of Project and Data Collection
25	Mar 12th, 2012	ESDM of North Sulawesi Province	Mr. Wongkar (Secretary of ESDM Office)	Imamura, Tandiono	M	Introduction of Project and Data Collection
26	Mar 13th, 2012	BPBD of Tomohon	Mr. Steven Posumah (BPBD Province), Mr. Franny, Mr. Willem (BPBD Tomohon)	Imamura, Tandiono	M	Introduction of project and Collecting data
27	Mar 13th, 2012	Construction Quality Testing Center - PU of North Sulawesi Province	Mr. Steven Posumah (BPBD Province), Mr. D. Sumenda (Head of Testing Equipments Section).	Imamura, Tandiono	M	Introduction of project and Collecting data
28	Mar 28th, 2012	Ariffin's Place, PT.EXSA International, Jl. Tomang Raya 74- Jakarta	Mr. Arrifin Tjekiagus (Director of PT.Exsa International, 0811969204), Ms. Titi (staff, 08158384350)	Furuta, Marisa	M	To get related information prior to ordering/purchasing IFSAR satellite images product

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
29	Apr 16th, 2012	BNPB Office, 3rd Floor Tanah Abang, Jakarta	Lilik, Anas, Cahyo, Ms.Arie, Ridwan Yunus (UNDP)	Ms. Viya, Mr. Ryo (JICA Team in BNPB), Kenichiro Kato, Furuta, Marisa, Tandiono (JICA)	M	Discuss about guideline for disaster risk assessment in Kab/Kota level
30	Apr 17th, 2012	Geological Agency, Bandung	Mathias Dorn, Sulamith Kastl, Chnadra Soekarno, Dicky Muslim, I Ketut T (BGR Georisk Project). Mhd Wafid, Asdani, Rudi Suhendar (Geological Agency).	Kenichiro Kato, Furuta, Marisa	M	Introduction on Georisk project and discuss about risk assessment methodology
31	Apr 19, 2013	BNPB Office 3rd Floor, Tanah Abang, Jakarta.	Lilik, Anas (BNPB)	Mr. Tokunaga, Ms. Viya, Mr.Ryo (JICA expert Team in BNPB). Kenichiro Kato, Furuta, Nakamura, Marisa, Tandiono, Risye (JICA Team)	M	Discuss about guideline for disaster risk assessment in Kab/Kota level, 2nd meeting
32	Apr 23rd, 2012	BNPB Office 3rd Floor, Tanah Abang, Jakarta.	Lilik Anas, Ridwan Yunus (UNDP)	Kinichiro Kato, Marisa, Tandiono	M	Discuss about guideline for disaster risk assessment in Kab/Kota level, 3rd meeting
33	May 4th, 2012	BNPB Office 3rd Floor, Tanah Abang, Jakarta.	Anas (BNPB)	Owada, Marisa, Tandiono, Ajib (JICA Team).	M	Discuss about methodology for integration of past disaster data and geographic information
34	Jun 15th, 2012	BNPB Office, Tanah Abang, Jakarta	Mr. Teddy, Mr. Anas, Ridwan Yunus (BNPB)	Imamura, Marisa, Tandiono	M	Discuss about basic policy to create Annex of General risk assessment guideline for kab/kota (Earthquake, Tsunami, Volcano).
35	Jan 17th, 2013	BPBD office of North Sulawesi Provincial	BPBD Province, BPBD Kab/Kota, Others	Sugio Imamura, Akihiro Furuta, Marisa Mei Ling	W (3rd)	3rd Workshop for Output 2 in North Sulawesi Province for the Project for Enhancement of Disaster Management Capacity of BNPB and BPBD.
36	Jan 28th, 2013	BPBD Office of Kota Bitung	Mr. Jeffry Wowiling (Head of BPBD), Mr.Theodore Rompas (Head of Devision Rehab Recon), Mr. Alvindo Mongkol (staff), Mrs Ingrid Marcelina Damisi (staff).	Misono, Imamura, Furuta, Andre	M	Follow up output 2, talking about how to specify the past disaster area on 1:10.000 scale base map
37	Jan 28th, 2013	BAPPEDA Office of Kota Bitung	Mr. Audy Pangemanan (Head of BAPEDA), Jeffry Wowiling,	Misono, Imamura, Furuta, Andre	M	Introduction of JICA Project Activities and Request for data/info Provision.

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
38	Jan 28th, 2013	Dinas PU Office of Kota Bitung	Mr. Max Tambuwun (Head Of PU), Mrs. Lita A.L. Tangkudung (Head of Rehab-Recon Division), Mr. Rizal M.R. Sompotan (Head of River, Swamp and Beach Section)	Misono, Imamura, Furuta, Andre	M	Introduction of JICA Project Activities and Request for data/info Provision.
39	Jan 29th, 2013	BPBD Office - Kota Tomohon	Mr. Eddy Turang (Head BPBD), Mr. Hengky W. Lensun (Head of Prevention Section), Mr. WillemP. Runtukahu (Head of Prevention & Preparedness Devision)	Misono, Imamura, Furuta, Andre	M	Follow up Output 2 (3rd Workshop) : Explanation on how to specify the past disaster area on 1 : 10.000 scale base map.
40	Jan 29th, 2013	BAPPEDA Office of Kota Tomohon	Mr. Joyke S. Karouw (Head of Bappeda), Mr. Eddy Turang, Mr. Hengky Lensun (BPBD)	Misono, Imamura, Furuta, Andre	M	Introduction of JICA Project Activities and Request for data/info Provision.
41	Jan 29th, 2013	Dinas PU Office of Kota Tomohon	Mr. Enos A.A. Pontororing (Head of Dinas PU), Mr. Royke Tangkwarouw (Head of Bina Marga - Road Devision), Mrs. Debby Kojongian (Head of Cipta Karya - Building Devision), Mr. Eddy Turang, Mr. Hengky Lensun (BPBD).	Misono, Imamura, Furuta, Andre	M	Introduction of JICA Project Activities and Request for data/info Provision.
42	Jan 31th, 2013	BPBD Office of Kab. Bolaang Mongondow	Mr.Djuhardi Damapolii (Head of BPBD), Mrs. Diana Wahab (Head of Prevention & preparedness), Mr. Didi Arisono (Staff), Mr.Moh Ali Irwan (Staff).	Misono, Imamura, Furuta, Andre	M	Follow up Output 2 (3rd Workshop) : Explanation on how to specify the past disaster area on 1 : 10.000 scale base map.
43	Feb 1st, 2013	BAPPEDA Office of Kab. Bolaang Mongondouw	Mr.AAA (Head Of BAPPEDA), Mr. Djuhardi Damapolii (Head Of BPBD)	Misono, Imamura, Furuta, Andre	M	Introduction of JICA Project Activities and Request for data/info Provision.
44	Feb 1st, 2013	BPBD Office of Bolaaang Mongondouw Utara	Mr.Erikson Tegila (Head Of BPBD), Mr. Hendrikus J.P. Lasut (Head of Emergency Response Devision), Mrs. Fitri Lasabuda (Head of Pre-Disaster Section), Mr. Sarwan Hasan Abidin (Head of Planning Section).	Misono, Imamura, Furuta, Andre	M	Follow up Output 2 (3rd Workshop) : Explanation on how to specify the past disaster area on 1 : 10.000 scale base map.
45	Jan 29th, 2013	BAPPEDA Office of Kab Bolaang Mongondouw Utara	Mr. Asripan Nani (Head of BAPPEDA), Mr. Erikson Tegila (Head of BPBD)	Misono, Imamura, Furuta, Andre	M	Introduction of JICA Project Activities and Request for data/info Provision.
46	Feb 2nd, 2013	Station of Climate and MeteoBMKG Paniki, Manado	Mr. Dayan (staff of BMKG)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
47	Feb 2nd, 2013	BMKG Winangun, Manado	Mr. Riyadi (BMKG staff)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
48	Feb 5th, 2013	BAPPEDA Office of North Minahasa	Mr.Reyke (Secretary of BAPPEDA), Mr.Michael (GIS Operator of BAPPEDA)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
49	Feb 5th, 2013	BPBD office of North Minahasa	Steve Paat, Silvana Legi (BPBD Staff)	Isao Misono, Aldrin Emor	M	Follow up Output 2 (3rd Workshop) : Explanation on how to specify the past disaster area on 1 : 10.000 scale base map.
50	Feb 6th, 2013	BMKG Paniki, Manado	Staff BMKG	Isao Misono, Aldrin Emor	M	Request data of rain fall.
51	Feb 6th, 2013	Hall Basin Sulawesi I, Kayuwatu, Manado	Ir. Franky Makasaehe Sp1 (Head devision of Development and Management Data)	Isao Misono, Aldrin Emor	M	Request data of rain fall and rivers line.
52	Feb 6th, 2013	PU office of North Sulawesi Province, Manado	Mr.Herman Kussoy (Head of Spatial Plan Section),	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
53	Feb 6th, 2013	PU office of North Minahasa, Airmadidi	Mr. R. Plangetin (Secretary of North Minahas PU)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
54	Feb 7th, 2013	BAPPEDA Office of Minahasa, Tondano	Mr.Jacky Walukow (Head of BAPPEDA Minahasa), Mr. Joyke Ondang (BPBD)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
55	Feb 7th, 2013	Meeting rooms of BNPB, Ground floor	Mr. Teddy, Mr.Lilik, Mr. Anas (BNPB)	Dr. Baba, Mr.Tokunaga (JICA). Kenichiro Kato, Katsu Kato, Owada, Tandiono, Andre & Marisa.	M	Discussion on Methodology for creation of Hazard and Risk Map.
56	Feb 7th, 2013	BPBD Office of Kab. Minahasa, Tondano	Mr. Joyke Ondang, Mr. Victor Tambariki, (BPBD Staff)	Isao Misono, Aldrin Emor, Atha, Akim.	M	Explain about the JICA activities conduct Output 2 and all the disaster map on Minahasa area.
57	Feb 8th, 2013	BAPPEDA Office of South East of Minahasa, Ratahan	Mr.Ventje Umboh, Mrs. Lucy Mandey, (BAPPEDA)	Isao Misono, Aldrin Emor, Atha, Akim.	M	Introduction of JICA Project Activities and Request for data/info Provision. Need some data of road Map & rivers in Mitra.
58	Feb 8th, 2013	BPBD Office of South East Minahasa	Ventje Rogahang and etc (BPBD)	Isao Misono, Aldrin Emor, Atha, Akim.	M	Introduction of JICA Project Activities and Request for data/info Provision.
59	Feb 8th, 2013	PU office of South East Minahasa	Ir. James Munaiseche.Msi (Head of PU)	Isao Misono, Aldrin Emor, Atha, Akim.	M	Introduction of JICA Project Activities and Request for data/info Provision. Need some data of road Map & rivers in Mitra.
60	Feb 9th, 2013	BNPB III, JICA Team Office, jln Abdul Muis, Jakarta	Dr.Matthias Dorn (Team Leader), Dr.Dicky Muslim, I Ketut Tissahadi, Ms. Chandra Soekarno.... (Georisk Project)	Kenichiro kato, Kiyotaka Owada, Tandiono, Marisa	M	Information Sharing
61	Feb 12th, 2013	BAPPEDA Office of Kota Kotamobagu	Mrs. Dina Assagaf (Secretary of BAPPEDA), Mr. Sofyan (Staff)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
62	Feb 12th, 2013	BPBD Office of Kota Kotamobagu	Mr. I Wayan Dharma (Secretary of BPBD)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
63	Feb 13th, 2013	BAPPEDA office of Bolsel, Molibagu	Mr. Ferdinand Mayulu (BAPPEDA)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
64	Feb 13th 2013	BPBD office Of Bolsel, Molibagu	Mr. Suparno Mokoagouw (Secretary of BPBD), Mr. Syarifudin (Staff of BPBD)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
65	Feb 13th, 2013	PU Office of Bolsel, Molibagu	Mr. Maksi Kambey (Staff of PU)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
66	Feb 14th, 2013	BAPPEDA Office of Boltim	Mr. Novie Sahusilawwane (Staff of BAPPEDA)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
67	Feb 14th, 2013	BPBD Office of Boltim	Mr. Rusmin Mokoagouw, Mohamad Rizal, Agus Heydemanas (BPBD)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
68	Feb 14th, 2013	PU office of Boltim	Mr. Muis (Head of PU)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
69	Feb 15th, 2013	BMKG Office of Paniki, Manado	Mr. Dayan (staff of BMKG)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
70	Feb 15th 2013	BPS office of Prov North Sulawesi, Manado	Mr. Nainggolan (Staff BPS)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
71	Feb 15th 2013	Hall Basin Sulawesi I, Kayuwatu, Manado	Tommy Miran (Staff BPS)	Isao Misono, Aldrin Emor	M	Discuss and Request Datas of River and rain fall
72	Feb 18th, 2013	BPBD Office of Kab Kep Sitaro	Rino Kalalo, Yenny Frestiany, Youla Sengkey, Wulan Margaret (Staff BPBD, Output 2)	Isao Misono, Aldrin Emor	M	Discuss and follow up some datas that already request.
73	Feb 19th 2013	BAPPEDA office of Kab Kep Sitaro	Mr. D.D Kondo, Niko Mamahit (BAPPEDA), Yenny Fristiany	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
74	Feb 19th, 2013	Agency of Community Empowerment and Village Government	Mr. Eddy Salindeho (BPMPD)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
75	Feb 19th, 2013	Publik Works Agency Office	Mr. Joicson M.S, Mr. Pirmo Papalapu, (Public Works PU Staff)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
76	Feb 20th, 2013	BAPPEDA Office of Kab Kep Sangihe	Mr. Elvis, Eko Toekidjo (BAPPEDA), Enrico (BPBD)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
77	Feb 20th, 2013	BPBD Office of Kab Kep Sangihe	Mr. Reintje Tamboto (Head of BPBD), Enrico (Staff of BPBD),	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
78	Feb 20th 2013	Bupati Office of Kab Kep Sangihe	Mr. Makagansa (Mayor of Sangihe), Mr. Reintje Tamboto (Head of BPBD)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
79	Feb 20th, 2013	Public Works (PU) of Kab Kep Sangihe	Mr. Ben Pilat (Head of PU Sangihe), Mr. Heri Wolff (Staff of PU), Mr. Enrico (BPBD).	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
80	Feb 21th, 2013	Office of Hall Basin Sulawasi 1, Kayuwatu	Mr. Tommy Miran (Data Base Operator)	Isao Misono, Aldrin Emor	M	Request some data / information to make disaster map
81	Feb 22nd, 2013	BPBD office of South Minahasa	Mrs. Wilma Karundeng (BPBD Staff)	Isao Misono, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
82	Feb 22nd, 2013	Hall Basin Sulawesi I, Kayuwatu, Manado	Mr. Tommy Miran, Mrs. Selvi Muaya, Mrs. Ivon Regar, Mr. Riki Kolondam (Hall Basin Sulawesi 1 Staff)	Isao Misono, Aldrin Emor	M	Request some data/ information to make disaster map
83	Apr 1st, 2013	BPBD Office of Kota Tomohon	Mr. Hengki Lensun (BPBD)	Aldrin Emor	M	Assisting to mark disaster area with BPBD Tomohon
84	Apr 2nd, 2013	BPBD Office of Kab Kep Talaud, Melonguane	Mr. Habel Salombe (Head of BPBD), Mr. Musafaif Katili, Mr. Juliandri Winawoda, Mr. Marseli Sadil, Mr. A Tamawiwiy, Mr. Johnui Lingkas, Mr. Juridwan Papendeng. (BPBD)	Angelito, Andre Jaya, Aldrin Emor	M	Assisting the staff BPBD to marking disaster area and making hazard map
85	Apr 2nd, 2013	BAPPEDA office of Kab. Kep. Talaud	Mr. Ronald Izzak (Secretary of BAPPEDA), Mr. Rudi Sodlo, Julianto Paraliba, (BAPPEDA). Mr. Musafaif Kasili (BPBD).	Angelito, Andre Jaya, Aldrin Emor	M	Introduction of JICA Project Activities and Request for data/info Provision.
86	Apr 4th, 2013	Office of BPBD Province (1st Floor, Bidang I), Manado	Mr. Dudy Fatah, Mr. L. Giroth (BPBD Kab. North Minahasa)	Andre Jaya, Aldrin Emor	M	Assisting the staff BPBD to marking disaster area and making hazard map
87	Apr 4th, 2013	Office BPBD Tomohon	Mr. Hengki Lensun (BPBD)	Aldrin Emor	M	Assisting the staff BPBD to marking disaster area and making hazard map
88	Apr 9th, 2013	BPBD Office of Kota Manado	Mr. Johan T. Supit, Mr. Jeffrey Panambunan, Ms. Julian Bawole, Mr. Muardi Rahmolla	Andre Jaya, Aldrin Emor	M	Assisting the staff BPBD to marking disaster area and making hazard map
89	Apr 11th, 2013	Office of BPBD Kota Kotamobagu	Mr. Sultan Manggopa, Mrs. Retna Damopolii, Mr. Budi Prayitno (BPBD Kotamobagu). Mr. Syarifudin Suterta (BPBD South Bolmong)	Andre Jaya, Aldrin Emor	M	Assisting the staff BPBD to marking disaster area in 1 :10.000 map
90	Apr 18th, 2013	Office of BPBD Kota Bitung	Ms. Ingrid Damisi, Mr. Anthoni, Mr. Ventje Olley, Mr. Theo Rompas	Aldrin Emor, Rolly Mandagi	M	Assisting the staff to marking (coloring) disaster area in 1 :10.000 Map A1.
91	Apr 23rd, 2013	Office of BPBD Bitung	Mr. Theodore Rompas, Ms. Ingrid Damisi, Mr. Boni Mugama (BPBD)	Isao Misono, Aldrin Emor	M	Explain and assisting the staff BPBD to marking disaster area and making hazard map

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
92	Apr 23rd, 2013	Office of BPBD Manado	Mr. Maxi Tatahede (Head of BPBD), Ms. Lee Bawole	Isao Misono, Aldrin Emor	M	Assisting the staff to coloring disaster map in 1 : 10.000 map A1. Discuss about flood area in Kota Manado.
93	Apr 24th, 2013	Office of BPBD South Minahasa	Mr. Steven Poluakan, Mrs. Nancy Ludong (Secretary of BPBD)	Isao Misono, Aldrin Emor	M	Assisting the staff to coloring disaster map in 1 : 10.000 map A1. Discuss about flood and land slide area in South Minahasa.
94	Apr 24th, 2013	Office of BPBD Mitra	Mr. Welly Munaiceche (Head of BPBD), Mr. Ventje Rogahang (Head of Preparedness and Prevention Devision)	Isao Misono, Aldrin Emor	M	Assisting the staff to coloring disaster map in 1 : 10.000 map A1. Discuss about flood and land slide area in South East of Minahasa.
95	Apr 25th, 2013	Office of BPBD Minahasa	Mr. Joyke Ondang, Mr. Victor Tambariki, (BPBD Staff), Mr. Arthur	Isao Misono, Aldrin Emor	M	Assisting the staff to coloring disaster map in 1 : 10.000 map A1. Discuss about flood and land slide area in Minahasa region.
96	Apr 25th, 2013	Office of BPBD Tomohon	Mr. Hengky Lensun (BPBD Staff)	Isao Misono, Aldrin Emor	M	Discuss about flood because of cold lava when Mahawu mountain erupted, land slide, submitted Topographi map (1 :10.000 A1)
97	Apr 26th, 2013	BPBD office of North Minahasa	Dr. Rosa Tidajoh (Head of BPBD), Mr. Roni Kaharu, Mr. Roni Pesik, Mr. Steve Paat (BPBD)	Isao Misono, Aldrin Emor	M	Assisting the staff to coloring disaster map in 1 : 10.000 map A1. Discuss about flood and land slide area in North Minahasa.
98	May 8th, 2013	BPBD office of North Sulawesi Provincial	26 Counterparts of Output 2 from 15 Kab/Kota. (BPBD)	Misono, Furuta, Angelito, Andre, Atha, Aldrin, Hakim, Iwan	W(4th)	Creation Hazard Map for Kab/Kota
99	May 27th, 2013	Meeting rooms of BPBD Province.	Mr. Jimmy Mokolensang, Mr. Steven Posumah, Mrs. Joklin Kumokong (BPBD Province), Mr. Arlan Kaharu, Mr. Roni Kaharu, (BPBD Minut)	Mr. Furuta, Akim, Iwan, Aldrin	W	Small Technical Workshop for GIS Corner Activity
100	Jun 25th, 2013	BPBD Office of South Bolmong, Molibagu	Mr. D Mokodompit, Mr. Syarifudin Soeterta, Mr. Suardi, Mr. Sucipto, Mr. Jafar Ajab, Mr. Fadlan Badu, (BPBD Bolsel)	Andre Jaya, Aldrin Emor	M	To assist BPBD Staff to coloring the Disaster area in to Map
101	Jul 4th, 2013	BPBD Office of Bitung	Mr. Alfindo Mongkol (BPBD)	Tandiono Chen, Mujiburahman, Aldrin Emor	M	To assist the BPBD staff how to fill the activity of the basic strategy and particular to all kinds of disaster
102	Jul 10th, 2013	BPBD office of Bolmong	Mr. Dadang (Head of BPBD), Mr. Ferdinand Pasambuna, Mr. Abdul Djabar	Andre Jaya, Aldrin Emor	M	To assist BPBD staff to fill up the form of output 1 and output 3

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
103	Jul 11th, 2013	BPBD office of North Bolmong , Boroko	Hj. Siti Harmala Buhang (Secretary of BPBD), Mr. Hendrik Lasut	Andre Jaya, Aldrin Emor	M	To assist BPBD staff to fill up the form of output 1 and output 3
104	Jul 17th, 2013	BPBD office of Minahasa	Mr. Johanis Pesik (Head of BPBD Minahasa), Mr. Joyke Ondang. (Staff BPBD)	Aldrin Emor	M	To assist BPBD staff to fill up the form of output 1 and output 3
105	Jul 18th, 2013	BPBD office of North Bolmong , Boroko	Diana Wahab (secretary of BPBD), Rahmawaty Gumohong	Andre Jaya, Aldrin Emor	M	Assisting the staff to coloring disaster map in 1 : 10.000 map A1. Discuss about flood and land slide area in North Bolmong
106	Jul 23rd, 2013	BPBD office of South Minahasa	Rendy Kewas, Nancy Ludong, Aristo Kantu, Allan Mario Mateka. (BPBD Minsel)	Aldrin Emor	M	Distribute the Forms of Output 1,3,4 to be fill of Counterparts
107	Jul 24th, 2013	Office of BPS Province (Manado)	Mr. Simon (BPS Staff)	Aldrin Emor	M	Need Data from BPS (National Statistical Agencies) Province.
108	Jul 25th, 2013	BPBD Office of South East Minahasa(Ratahan)	Mr. Erick Manaroinsong, Ms. Lani Wadikin, Santje Kumesan	Aldrin Emor	M	Distribute JICA Questionnaire and format of Data Management to Counterparts. (BPBD Kab Mitra)
109	Jul 26th, 2013	Office of BPBD Boltim (Tutuyan)	Hardiono Sugeha (Head of BPBD), Mohamad Rizal, Ishal Modeo, Rusmin Mokoagouw, Hasman Bahansubu.	Aldrin Emor	M	Distribute JICA Questionnaire and Forms
110	Jul 29th, 2013	Office of BPBD Bolmong (Lolak)	Iwan Tayuyun, Endang Tammu, Diana Wahab, Rahmawati (BPBD)	Aldrin Emor, Andre Jaya	M	Distribute Questionnaire and Forms to counterparts
111	Jul 29th, 2013	BPBD office of Kotamobagu	Muhammad Saleh Sulhadji (Head of BPBD), Retna Damapolii, Budi Prayitno, I Wayan Darma, Roi Paputungan.	Aldrin Emor, Andre Jaya	M	Distribute Questioners and Form of Management Information Data.
112	Juli 30th, 2013	BPBD Office of South Bolmong, Molibagu	Thamrin Daun, D. Mokodompit, Siti Nura Daud, Ribka Wowor, Sucipto Paraman	Aldrin Emor	M	Distribute questionnaires and Form of Management Information Data.
113	Jul 30th, 2013	BPBD office of East Bolmong	Hardiono Sugeha (Head of BPBD), Agustinus Heydemans.	Aldrin Emor	M	Distribute questionnaires and Form of Management Information Data.
114	Agt 14th, 2013	BPBD office of North Bolmong , Boroko	Mr. Robert.T. Bonde (Head of BPBD), Mrs. Fitri Lasabuda.	Aldrin Emor	M	To Collect the questionnaires
115	Agt 28th, 2013	BAPPEDA office of Manado	Mr. Joel Walandouw (Head of City Spatial Plan Devision)	Owada, Aldrin Emor	M	Looking for Data and Information About Land Use in Manado City
116	June 4th, 2014	BNPB Tanah Abang	Lilik Kurniawan, Linawaty, Arie Astuti, Danar, Danar, Novi Kumalasari, Kareza	Takahashi, Furuta, Marisa, Noviyanti	M	Project Report of JICA Project Team in North Sulawesi
117	June 16th, 2014	Hotel Gino Feruci, Bandung	Lilik Kurniawan and Team, PU, BMKG, BG, BIG, ITB, BPPT, Practitioners	Ichiro Kobayashi, Sugio Imamura, Marisa Mei Ling	W	Seismic Hazards Information Sharing and Explanation

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
118	June 19th, 2014	Lombok Plaza Hotel, Mataram, Lombok	Linawaty, Tri Utami H (BNPB), BPBDs NTB	Morita, Furuta, Imamura, Marisa, Hakim, Fina	Kick Off W_OP 2	Explanation of Output 2 activities (afternoon session)
119	June 20th, 2014	Lombok Plaza Hotel, Mataram, Lombok	BPBDs NTB, Totok/Rujito (LPPMP)	Morita, Furuta, Imamura, Marisa, Andre, Hakim	Kick Off W_OP2	Explanation of Methodologies of creation hazard and risk maps
120	Sept 30th, 2014	BNPB Sentul Office, Bogor	M. Robi Amri, Ridwan Yunus, Gita Yulianti, Arie Astuti, Novi Kumalasari	Kenji Morita, Akihiro Furuta, Marisa Mei Ling	M	Progress report of NTB activities, methodology of earthquake hazard, capacity assessment of desa level, confirmation of Bengkulu event and technical training
121	Nov 5th, 2014	BNPB Juanda Office, Jakarta	Dody Ruswandi (Prime Secretary of BNPB)	Ryoji Takahashi, Kato Katsu, Marisa Mei Ling, Noviyanti	M	Progress report of NTB activities, discussion of obtaining PGA map at bedrock and future projects.
122	Nov 13th, 2014	PAU Building, ITB, Bandung	Prof. Mayshur Irsyam (Head of Team 9), Dr. Irwan Meilano	Sugio Imamura, Marisa Mei Ling	M	Proposed methodology to estimate AVS30 distribution for earthquake hazard map
123	Nov 14th, 2014	Badan Geologi, Bandung	Mr. Amalfi	Sugio Imamura, Marisa Mei Ling	M	Proposed methodology to estimate AVS30 distribution for earthquake hazard map
124	Nov 24th, 2014	BNPB Office, Tanah Abang, Jakarta	Lilik Kurniawan, M. Robi Amri, Ridwan Yunus, Raditya Jati	Sugio Imamura, Marisa Mei Ling	M	Method of AVS30 estimation from automated topographic classification
125	Dec 4th- 22th, 2014	BNPB Sentul Office, BNPB Juanda Office	Lilik Kurniawan, M. Robi Amri, Linawaty, Gita Yulianti	Marisa Mei Ling	M	Distribution and explanation of capacity assessment questionnaire
126	Jan 13th, 2015	Hotel Bidakara, Jakarta	BNPB, PU, BMKG, BG, UGM, ITB	Kenji Morita, Sugio Imamura, Akihiro Furuta, Marisa Mei Ling	W	Technical WS of Proposed Method for AVS30 Estimation for Earthquake Hazard Map
127	April 6th-22th, 2015	BNPB Sentul Office, BNPB Pramuka Office	Lilik Kurniawan, M. Robi Amri, Radiya Jati, Linawaty	Marisa Mei Ling	M	Distribution terminal evaluation questionnaire
128	Sept 11, 2014	BPBD Province	BPBD Prov. NTB, BPBDs Kab/Kota in Lombok Island	Kenji Morita, Akihiro Furuta, Andre Jaya, Mujiburrahman, Yohakim B. Samponu, Oyong Safruly, Vivin Nila R, Fina Fitriany	W	Agenda Kick-Off WS in Lombok Island
129	Sept 18, 2014	BPBD Kota Bima	BPBD Prov. NTB, BPBDs Kab/Kota in Sumbawa Island	Kenji Morita, Akihiro Furuta, Andre Jaya, Yohakim B. Samponu	W	Output 2 Second WS (in Sumbawa Island)

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
130	Nov 18th 2014	BPBD Province	BPBD Prov. NTB, BPBDs Kab/Kota in Lombok Island, UNRAM, Dinas Pertambangan & Energi Prov NTB, BMKG	Sugio Imamura, Akihiro Furuta, Andre Jaya, Yohakim B. S, Oyong Safruly, Vivin Nila R, Fina Fitriany	W	Third Workshop of Output 2 in Lombok Island
131	Nov 20th 2014	Kabupaten Sumbawa Bupati's Auditorium, Bupati's office 3rd floor	BPBDs Kab/Kota in Sumbawa Island	Sugio Imamura, Akihiro Furuta, Andre Jaya, Yohakim B. Samponu	W	Third Workshop of Output 2 in Sumbawa Island

Output 3

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
1	Jan 20th, 2012	BNPB II - Office of Dr. Teddy, Jln Tanah Abang II No. 57, Jakarta	Dr. Teddy (Director of Disaster Risk Reduction) Mr. Anas (Head of Sub Directorate of Mitigation)	Tokunaga, Takahashi, Kenichiro Kato, Katsu Kato, Tandiono, Andre, Marisa, Rio	M	Discussion on various aspects of Output 2 & 3
2	Jan 20th, 2012	Phone Interview	Dr. Irwan Meilano	Marisa	Phone interview	Discussion of current status of TIM 9 (Phone interview)
3	Feb 8th, 2012	BNPB II - Office of Dr. Teddy, Jln Tanah Abang II No. 57, Jakarta	BNPB : Mr. Edy (Community Empowerment), Mr. Budi (Preparedness - Early Warning), Mr. Bernardus (Preparedness - Controlling section).	Tandiono	M	Establishing contact & Data Collection
4	Feb 14th, 2012	BNPB II - Office of Mr. Wisnu, Jln Tanah Abang II No. 57, Jakarta	BNPB : Mr. Wisnu Widjaja	Kiyotaka Owada, Tandiono, Andre. JICA Expert : Tokunaga.	M	Information Sharing
5	Feb 17, 2012	BNPB II - Jln Tanah Abang II No. 57, Jakarta	BNPB : Mr. Medi Herlianto, Mr. Budi Sunarso	Owada, Tandiono, Andre, Tokunaga	M	Introduction
6	Feb 29, 2012	BNPB II - Office of Mr. Agus, Jln Tanah Abang II No. 57, Jakarta	BNPB : Mr. Agus	Owada, Tandiono, Andre, Novianti	M	Introduction and Information Exchange on Contingency Plan
7	Mar 1st, 2012	BNPB II - Meeting Room, Jln Tanah Abang II No. 57, Jakarta	BNPB : Mr. Afrial Rosya	Owada, Tandiono, Andre	M	Introduction and Information Exchange on Contingency Plan
8	Mar 9th, 2012	BNPB Juanda Office, Jakarta	BNPB : Dody Ruswandi (Deputy of Emergency Response)	Ryoji Takahashi, Katsu Kato, Andre	M	Introduction of the Project and Discussion of Counterpart for SOP

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
9	Mar 26th, 2012	BNPB II - Office , Jln Tanah Abang II No. 57, Jakarta	BNPB : Mr.Lilik, Mr. Anas	Takahashi, Katsu Kato, Tandiono, Andre. JICA Expert : Tokunaga & Viya.	M	Discussion on the structure of Kab/Kota level RDMP
10	Apr 3rd, 2012	BNPB II - Office , Jln Tanah Abang II No. 57, Jakarta	BNPB : Mr. Anas, Mr. Ridwan Yunus (UNDP), Mr. Cahyo, Ms Novi	Takahashi, Katsu Kato, Furuta, Tandiono, Andre. JICA Expert : Tokunaga.	M	Discussion on Content of Kab/Kota RDMP
11	Apr 4th, 2012	BNPB II - Office , Jln Tanah Abang II No. 57, Jakarta	BNPB : Mr. Sugeng	Ryoji Takahashi, Katsu Kato, Furuta, Ikeda, Kodama, Okuno, Tandiono	M	Discussion on Content of Kab/Kota RDMP
12	Apr 9th, 2012	BNPB - Office, 5th floor , Jln Tanah Abang ,Jakarta	BNPB : Mr. Yus Rizal	Takahashi, Tandiono	M	Introduction of Project & SOP
13	May 7th, 2012	BNPB II - Office , Jln Tanah Abang II No. 57, Jakarta	BNPB : Mrs. Rucky Nurul, Mr. Agus	Owada, Tandiono, Andre	M	Presentation and Discussion about Contingency Plan & SOP
14	May 9th, 2012	BNPB Juanda Office, 5th Floor, Jakarta	Mr. Yus Rizal	Owada, Tandiono, Andre	M	Presentation and Discussion about Contingency Plan & SOP
15	May 14th, 2012	BPBD Province of North Sulawesi	BPBD : Mr.Hoyke Makarawung, Walter Rosang, Jimmy Mokolensang, Christian Laotongan	Owada, Tandiono, Aldrin (JICA Project Secretariat in Manado)	M	Introducing the purpose of visit to North Sulawesi
16	May 14th, 2012	BPBD Province of North Sulawesi	Jimmy Mokolensang, Christian Laotongan, Mus Tinangon	Owada, Tandiono, Aldrin (JICA Project Secretariat in Manado)	M	Introduction of Japanese Disaster Prevention Plan including discussion on Contingency Plan & SOP
17	May 15th, 2012	BPBD kota Manado	BPBD Kota Manado : Fidelwan, Budi, Arda. BPBD Province : Dery	Owada, Tandiono, Aldrin (JICA Project Secretariat in Manado)	M	Introduction of Japanese Disaster Prevention Plan including discussion on Contingency Plan & SOP
18	May 15th, 2012	BPBD Kota Tomohon	BPBD Kota Tomohon : Melki, Willem, Venny Pijoh, Martha, Steven Kusang. BPBD Province : Dery	Owada, Tandiono, Aldrin (JICA Project Secretariat in Manado)	M	Introduction of Japanese Disaster Prevention Plan including discussion on Contingency Plan & SOP
19	May 16th, 2012	Kelurahan Kinilow, District of North Tomohon	BPBD Tomohon : Mr. Willem Runtukahu. Head of Lingkungan II in Kinilow : Boy Manopo	Owada, Tandiono, Aldrin (JICA Project Secretariat in Manado)	M	Visit to Community in Disaster Prone Area.
20	May 24th, 2012	BNPB II - Office , Jln Tanah Abang II No. 57, Jakarta	BNPB : Mr. Ari, Mr. Rucky	Owada, Tandiono	M	Discussion on the planned draft Manual for the Formulation of SOP
21	May 25th, 2012	BNPB II - Office , Jln Tanah Abang II No. 57, Jakarta	BNPB : Mr. Rizal	Owada, Tandiono	M	Discussion on the planned draft Manual for the Formulation of SOP

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
22	Jun 12th, 2012	Grand Puri Hotel, Manado	BPBD Province, BPBD 15 Kab/Kota and Other Agencies	Kiyotaka Owada, Yuichi Nakamura, Risye Dwiyani, Mujiburahman	W	1 st Kick-Off Workshop – Output 3-2 and Output 4-1
23	Jun 28th, 2012	BNPB II - Office , Jln Tanah Abang II No. 57, Jakarta	BNPB : Teddy, Lilik, Lina	Takahashi, Katsu Kato, Tandiono.	M	“The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD in Indonesia”–
24	Jul 06, 2012	BNPB II - Office , Jln Tanah Abang II No. 57, Jakarta	BNPB : Ms Lina, Mr. Anas	Takahashi, Katsu Kato, Yokta Ota, Tandiono	M	Explanation of Output 3.1 to Ms. Lina
25	Oct18-25, 2012	BPBD Sitaro (Siau Island), BPBD Kota Manado, BPBD Kota Tomohon, BPBD North Minahasa, BPBD Minahasa, BPBD, South Minahasa, BPBD Bitung	All counterparts in 7 BPBD Kab/Kota	Owada, Tandiono, Nakamura, Kodama, Risye, Ajib	M	Visit to 7 Kab/Kota
26	Dec 14th, 2012	Room of JICA Project Team, BPBD north Sulawesi Jln Bethesda 16, Manado	All counterparts in 6 BPBD Kab/Kota	Takahashi, Tandiono, Andre, Ajib, Hakim, Atha, Lidya, Aldrin	W	2nd Workshop for Output 3.1 in North Sulawesi Province for “The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD in Indonesia”
27	Jan 30 - 31, 2013	BPBD Sitaro, Ondong Siau	Refer to attendance list	Owada, Tandiono, Mujiburahman	M	Update of output 4 and 3.2 activities
28	Jan 13th -23rd, 2013	BPBD of North Bolmong, BPBD of Bolmong, BPBD of Kotamobagu, BPBD of South Bolmong, BPBD Of East Bolmong, BPBD of South East Minahasa, BPBD of Talaud (Talaud Island)	All counterparts in 7 BPBD Kab/Kota	Owada, Tandiono, Ajib (Jan, 13 -16), Owada & Tandiono (Jan, 21-23)	M	Visit to 7Kab/Kota
29	Feb 1st, 2013	Office of BPBD Sangihe (Tahuna)	BPBD : Counterparts of BPBD Sangihe (Refer to attendance list)	Owada, Tandiono, Mujiburahman	M	Update of 4.1 activities and 3.2
30	Feb 1st, 2013	Awu Volcano Monitoring Post	Awu Volcano Monitoring : Mr. Endi	Owada, Tandiono, Mujiburahman	M	Update of 4.1 activities and 3.2
31	Feb 1st, 2013	Hotel Bintang Utara, Tahuna	Decky (Kelola/Oxfam), Vanny (Red Cross)	Owada, Tandiono, Mujiburahman	M	Update of 4.1 activities and 3.2

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
32	Feb 14th, 2013	Room of JICA Project Team, BPBD north Sulawesi Jln Bethesda 16, Manado	Counterparts of BPBD 9 kab/kota + BPBD Province : BPBD of Kota Bitung, BPBD of Kota Tomohon, BPBD of Kota Manado, BPBD of Kota Kotamobagu, BPBD of North Minahasa, BPBD of Kab Kep Sitaro, BPBD of Bolmong, BPBD of South Bolmong, BPBD of North Sulawesi Province	Takahashi, Isoda, Katsu Kato, Tandiono, Hakim, Lidya.	W	3rd Workshopfor Output 3.1 in North Sulawesi Province for
33	May 13th - 15th, 2013	BPBD Sitaro, Ondong Siau	BPBD <ul style="list-style-type: none"> • DjunaidiKanoneng (Head of Division: Emergency Response) • JihmyTataung (Head of Section: Predisaster) • M. Fahriz. Van Gobel (Staff) • Wenseslaus P. Rumbajan (Staff)PU (Public Works) • J. M. Sagune (Head of Division: BinaMarga DinasKesehatan (Dinkes – Agency of Health) • Dr. Samuel E. Raule – Head of Dinas HUMAS (Public Relation, a division under SEKDA) • James Marthin – Head of Division Local Police in Siau Barat (Kapolsek Urban Siau Barat) • DJ. Djumaati – Community Section • Fery S. Kansil – Head of Section, Public Relation POS AL (Representative Office of NAVY in Sitaro) • Ferry Rungkat – Commander of Post Previous visit by Tandiono (April 2013) Dinas of Social • Effendi – Secretary of Agency • Brully – Staff, Section of Social Relief Volcano Observation Post Yudi – Head of Observation Post 	Owada, Tandiono, Mujiburahman	M	Coordination Meeting JICA and Pemkab Sitaro

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
34	May 30th, 2013	Room of JICA Project Team, BPBD north Sulawesi Jln Bethesda 16, Manado	BPBD Kab/kota : 8 (eight) + BPBD Province, Kota Bitung, Kota Tomohon, Kota Kotamobagu, North Minahasa, North Bolmong, South Bolmong, Kab Kep Sangihe, BPBD Province	Takahashi, Katsu Kato, Tandiono, Lydia, Aldrin, Atha	W	4th Workshop for Output 3.1 in North Sulawesi Province for The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD in Indonesia"-
35	August 13th, 2014	Mercure Hotel, Hayam Wuruk Jakarta	M. Robi Amri, Ridwan Yunus, Revanche Kabuik	Kato Katsu, Marisa Mei Ling	M	Update and sharing information of technical guidelines of RDMP (1st meeting)
36	August 19th, 2014	Jayakarta Hotel, Palembang	Lilik Kurniawan, Ridwan Yunus, Revanche Kabuik	Kato Katsu, Marisa Mei Ling	M	Sharing information and discussion of updating technical guidelines RDMP (2nd meeting)
37	Nov 5th, 2014	BNPB Sentul Office, Bogor	Wisnu Widjaja, Lilik Kurniawan	Ryoji Takahashi, Kato Katsu, Marisa Mei Ling	M	Progress report of NTB activities, discussion of obtaining PGA map at bedrock and future projects.
38	June 19 th , 2014	Lombok Plaza Hotel, Mataram, Lombok	BPBDs NTB, LPPMP (Local NGO)	Ryoji Takahashi, Kato Katsu, Azusa Matsu, Andre Jaya, Oyong S, Vivin NR.	Kick Off W_OP3	Explanation of Output 3 activities (afternoon session)
39	Oct 23 rd , 2014	BPBD Province Meeting Room	BPBDs NTB	Ryoji Takahashi, Kato Katsu, Tandiono, Andre Jaya, Fina Fitriani, Vivin Nila R	W	Second Workshop of Output 3 in Lombok Island
40	Oct 27 th , 2014	Sekda's Meeting Room, Office of Bupati Kabupaten Sumbawa Barat - Taliwang	BPBD of NTB Province, BPBD of Kab. Sumbawa Barat, BPBD of Kab. Sumbawa, BPBD of Kab. Dompu, BPBD of Kab. Bima, BPBD of Kota Bima	Ryoji Takahashi, Kato Katsu, Tandiono, Andre Jaya	W	Second Workshop of Output 3 in Sumbawa Island (and visit to Kab/Kota in Sumbawa Island)
41	Jan 8-9, 2015	BNPB Training Room Sentul - Bogor	BNPB, SCDRR-UNDP, DM Practitioner,	JICA Expert in BNPB, Ryoji Takahashi, Kato Katsu, Tandiono, Marisa	W	Training on Technical Guideline for formulation of RDMP and Action Plan (2 days Workshop)
42	Jan 14, 2015	BPBD Province Meeting Room	BPBD Prov. NTB & BPBDs Kab/Kota in Lombok Island	JICA BNPB, Ryoji Takahashi, Kato Katsu, Kenji Morita, Tandiono, Andre Jaya, Vivin Nila R and Oyong	W	Third Workshop of Output 3 in Lombok Island

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
43	Jan 22, 2011	BPBD Kota Bima Meeting Room	BPBD Prov. NTB & BPBDs Kab/Kota in Sumbawa Island	Ryoji Takahashi, Kato Katsu, Kenji Morita, Imamura, Yoko Ota, Tandiono, Mujiburahman, Andre Jaya, Yohakim and Vivin NR	W	Third Workshop of Output 3 in Sumbawa Island
44	April 16, 2015	BPBD Province Meeting Room	BPBD Prov. NTB & BPBDs Kab/Kota in NTB	Terminal Evaluation Team JICA Ryoji Takahashi, Kato Katsu, Tandiono, and Vivin Nila R	W	Fourth Workshop of Output 3 in Lombok Island

Output 4

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
1	Feb 08th, 2012	BNPB II, 1st & 2nd Floor Jl. Tanah Abang - Jakarta	Mr. Edy (Community Empowerment) Mr. Budi (Preparedness - Early Warning) Mr. Bernardus (Preparedness - Controlling Section)	Tandiono	M	Establishing contact & Data Collection
2	Feb 14, 2012	Office of Pak Wisnu BNPB II, 2nd Floor Jl. Abdul Muis - Jakarta	Mr. Wisnu Widjaja – Head of Center for DM Education and Training (HP: 081-2929 3223)	Kiyotaka Owada, Tandiono, Andre	M	Information Sharing
3	Feb 17th, 2012	BNPB II, 1st& 2nd Floor Jl. Tanah Abang - Jakarta	Mr. Medi Herlianto (Director of Preparedness), Mr. Budi Sunarso	Owada, Tandiono, Andre - Tokunaga	M	Introduction
4	April 2nd, 2012	BNPB II, 2nd Floor Jl. Tanah Abang - Jakarta	Ms. Dra. Enny Supartini (Sub-Director of Community Role), Ms. Melissa Aprillar (staff of Sub-Directorate of Community Role), and Mr. Yohannes Kristanto Adinugroho (staff of Sub-Directorate of Role of Community Social Organization)	Kodama, Tandiono	M	Introduction
5	April 10th, 2012	BNPB II, 2nd Floor Jl. Tanah Abang - Jakarta	R. Theodora Eva, Henrikus Adi Hernanto	Kodama, Tandiono, Mujiburrahman	M	Update on BNPB CBDRM Training Module

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
6	April 10th, 2012	BNPB II, 2nd Floor Jl. Tanah Abang - Jakarta	Sigit Padmono Dewo	MikiKimi Kodama, Tandiono Chen , Azusa Okuno, Mujiburrahman	M	Update on BNPB “Desa Tangguh” - Disaster Resilient Village
7	April 13rd, 2012	BNPB II, 2nd Floor Jl. Tanah Abang - Jakarta	Sigit Padmono Dewo, Eny Supartini, Theodora Eva, Muhtaruddin	Miki Kodama, Mujiburrahman	M	Update on BNPB “Desa Tangguh” - Disaster Resilient Village
8	April 16, 2012	BNPB II, 1stFloor Jl. Tanah Abang - Jakarta	BNPB : Meilina Wulandari, Harapan Ali Bernadus	Yuuichi Nakamura, RisyeDwiyani, Mujiburrahman	M	Introductory Meeting
9	April 25, 2012	Mercure Resort Sanur Bali Jalan Mertasari, Denpasar, 80034 Bali - Indonesia	Keynote Speaker Drs Muhtaruddin Fidel/ LIPI Sigit Padmono	Okuno , Mujiburrahman	M	“Facilitators Workshop on Disaster Resilient Village”
10	April 26, 2012	Mercure Resort Sanur Bali Jalan Mertasari, Denpasar, 80034 Bali - Indonesia	Keynote Speaker Edy S. Purba Anas Lutfi Eny Supartini, Harapan Ali Benardus Siti Agustini/UNDP Benny Usdianto/GIZ Sugeng	Okuno , Mujiburrahman	M	“Facilitators Workshop on Disaster Resilient Village”
11	April 27, 2012	Br Dauh Uma, Desa Batuan Keler, Sukawati, Ginayar 80582, Bali Indonesia	IDEP Team Agung Wibowo – Director of IDEP Putro Santana – Field Coordinator Ade Andreawan – Vice Director	Okuno, Mujiburrahman	M	“IDEP Experience in CBDRM in Bali ”
12	April 30, 2012	BNPB II, 1st Floor Jl. Tanah Abang – Jakarta		Yuuichi Nakamura, Risye Dwiyani, Mujiburrahman, Azusa Okuno	M	Introduction of Disaster Management Exercises in Japan and Discussion
13	May 10, 2012	BNPB II, 2nd Floor Jl. Tanah Abang – Jakarta	BNPB Eny Supartini AIFDR Chasan Ascholani	Azusa Okuno, Tokugana, Mujiburrahman, Risye Dwiyani,	M	Update on Disaster Resilient Village
14	May 28, 2012	BNPB II, 2nd Floor Jl. Tanah Abang – Jakarta	Eny Supartini, Melissa Aprilla , Yohannes	Mujiburrahman,	M	Update on Working Group, Workshop & Disaster Resilient Village

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
15	June 04, 2012	BNPB II, 2nd Floor Jl. Tanah Abang – Jakarta	Eny Supartini, Melissa Aprilla	Miki Kodama, Mujiburrahman,	M	Update on Working Group, Workshop & Disaster Resilient Village
16	June 12, 2012	BNPB II, 2nd Floor Jl. Tanah Abang – Jakarta	Eny Supartini, Melissa Aprilla	Miki Kodama, Mujiburrahman,	M	Update on Working Group, Workshop & Disaster Resilient Village
17	June 12, 2012	BNPB II, 1st Floor Jl. Tanah Abang – Jakarta	BNPB Elin Linawati, S.K.M, M.M. Kasubdit Penyiapan Sumber Daya Harapan Ali Bernadus Kepala Seksi Pengendalian	Yuuiichi Nakamura, Risye Dwiyani, Mujiburrahman	M	Planning of Output 4.1 Meeting from June Onwards
18	July 09, 2012	BNPB II, 2st Floor Jl. Tanah Abang – Jakarta	Muhtaruddin Sigit Purnomo Eddy Purba	Miki Kodama & Mujiburrahman	M	Planning of Output 4.2 Meeting from June Onwards
19	August7, 2012	Hotel Media, Jakarta	EnySupartini, Others NGO	Mujiburrahman,	M	Formulation of the Evaluation and Monitoring Guidelines of Disaster Resilient Village
20	August 09, 2012	BAKOSURTANAL (BIG), Building I, 2nd Floor, Cibinong, Bogor	Dian Oktiari, Tomi	Marisa, Mujiburrahman	M	Community Based Early Warning System
21	September 13, 2012	BNPB	Eny Supartini & Melisa Aprilia	Mujiburrahman	M	Prepare the Workshop of the CBDRM training
22	October 10, 2012	Hotel Grand Puri Manado	BNPB & BPBD Eny Supartini, 15 BPBD kabupaten/kota, PMI and Local NGO	Miki Kodama, Yoko Ota, Tokunaga, Mujiburrahman, Ata,	M	CBDRM Orientation : Training Program Community Based Disaster Risk Management in North Sulawesi
23	October 11, 2012	Hotel Grand Puri Manado	BNPB & BPBD Eny Supartini, 15 BPBD kabupaten/kota, PMI and Local NGO Resources Person Percy Lontoh (PMI) dan Benny Usdianto (GIZ)	Miki Kodama, Yoko Ota, Mujiburrahman, Ata,	M	Training Program Community Based Disaster Risk Management in North Sulawesi
24	October 12, 2012	Hotel Grand Puri Manado	BNPB & BPBD 15 BPBD kabupaten/kota, PMI and Local NGO Resources Person Buttu Madika	Miki Kodama, Yoko Ota, Nakamura, Ikeda, Mujiburrahman, Andre & Ata,	M	Training Program Community Based Disaster Risk Management in North Sulawesi

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
25	October, 23 2012	BPBD Minahasa Utara	Counterpart output 4.1 and 4.2	Nakamura, Risye, Mujiburrahman,	M	JICA Project Team Field Visit
26	October, 18 2012	BPBD Sitaro Siau	1. Counterpart output 4.1 and 4.2	Nakamura, Miki Kodama, Risye, Mujiburrahman,	M	JICA Project Team Field Visit
27	October, 22 2012	BPBD Manado	1. Counterpart output 4.1 and 4.2	Nakamura, Miki Kodama, Risye, Mujiburrahman	M	JICA Project Team Field Visit
28	October, 22 2012	BPBD Tomohon	Counterpart output 4.1 and 4.2	Nakamura, Risye, Mujiburrahman,	M	JICA Project Team Field Visit
29	October, 23 2012	BPBD Bitung	Counterpart output 4.1 and 4.2	Nakamura, Risye, Mujiburrahman,	M	JICA Project Team Field Visit
30	October, 24 2012	BPBD Minahasa	Counterpart output 4.1 and 4.2	Nakamura, Risye, Mujiburrahman,	M	JICA Project Team Field Visit
31	October, 25 2012	BPBD Minahasa Selatan	Counterpart output 4.1 and 4.2	Nakamura, Miki Kodama, Risye, Mujiburrahman,	M	JICA Project Team Field Visit
32	November, 1 2012	BPBD Bolaang Mongondow Loyak	1. M. Endang Tammu 2. Rafik A. Almari 3. Satrio Mamonto 4. Rahmawati Elomohung 5. Novita Mamanto 6. Kaharudin Mustafa 7. Moh A. Irawan	Mujiburrahman & William	M	JICA Project Team Field Visit
33	November, 1 2012	BPBD Bolaang Mongondow Utara Boroko	1. Budiawan Thawil 2. Hamdjat Paputungan 3. Hendrick Lasut 4. Masihat Humokor	Mujiburrahman & William	M	JICA Project Team Field Visit
34	November, 2 2012	BPBD Bolaang Mongondow Selatan Molibagu	1. Sarina Paputungan 2. Syarifudin Suterto 3. Rolly Lomamay 4. Jafar Ajab 5. Siti Nurain Daud 6. Mahyudin Binol	Mujiburrahman & William	M	JICA Project Team Field Visit
35	November, 5 2012	BPBD Bolaang Mongondow Timur Jalan Trans Sulawesi Lingkar Selatan	1. Hj. Ramlan Mokodompis 2. Shelya J.E. Tamanduk 3. Agustinus Heyde,ams 4. Aditya M. Rantung 5. Mohamad Rizal 6. Firli Moko	Mujiburrahman & William	M	JICA Project Team Field Visit

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
36	November, 6 2012	BPBD Minahasa Tenggara Jalan Raya Ratahan	1. Noch Frans Tanglan 2. Lanny D. Wakidin 3. Mangkey S. Sompie 4. Erik Manaroinsong 5. Bartholomeus K. Tioyo 6. Jeniver Donny Kading	Mujiburrahman	M	JICA Project Team Field Visit
37	December, 3 2012	BPBD Sangihe	All Staff BPBD Sangihe (Refer to attendance list)	Mujiburrahman and Aldrin	M	JICA Project Team Field Visit
38	December, 5 2012	BPBD Talaud	Habel Salombe, Musasif Katili, Juliandri Winawoda, Johni Lingkas	Mujiburrahman and Aldrin	M	JICA Project Team Field Visit
39	December, 6 2012	BPBD Minahasa Utara	Roni Kaharu, Roni Pesik, Steve Paat	Mujiburrahman and Aldrin	M	JICA Project Team Field Visit
40	December, 7 2012	BPBD Minahasa Utara	Roni Kaharu, Roni Pesik, Steve Paat	Mujiburrahman and Aldrin	M	JICA Project Team Field Visit
41	December, 19 2012	BPBD Sulawesi Utara Jalan Bethesda No 16, Manado	Eny Supartini (Head of Community Organization BNPB) and Nday (BNPB Staff) Selvy (Head of Community empowerment BPBD Sulut)	Mujiburrahman	M	Meeting with Counterpart BNPB
42	December, 20 2012	BPBD Sulawesi Utara Jalan Bethesda No 16, Manado	Selvy (Head of Community empowerment BPBD Sulut)	Mujiburrahman & Aldrin	M	Meeting with Counterpart BNPB
43	January, 15 2012	Hotel Senator Kotamobagu	I Wayan Dharma (Sekretary of BPBD Kotamobagu)	Mujiburrahman & Tandiono	M	Meeting with Counterpart BPBD
44	January, 18 2012	BPBD Sulawesi Utara Jalan Bethesda No 16	Hoyke Makaramung (Head of BPBD)	Owada, Tandiono and Mujiburrahman	M	Meeting with Counterpart BPBD
45	January, 18 2012	BPBD Sulawesi Utara Jalan Bethesda No 16	Hoyke Makaramung (Head of BPBD), (Secretary BPBD) and Jimmy Mokolengsang (Head of Prevention and Preparedness)	Owada, Tandiono and Mujiburrahman	M	Meeting with Counterpart BPBD
46	January 30, 31, 2013	BNPBSitaro Ondong, KabupatenSitaro	All Staff BPBD Sangihe (Refer to attendance list)	Owada, Tandiono and Mujiburrahman	M	Update of output 4 and 3.2 activities

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
47	February 1 2013	BPBD Sangihe Awu Volcano Monitoring Post Hotel Bintang Utara	BNPB All Staff BPBD Sangihe (Refer to attendance list) Awu Volcano Monitoring Post Endi Local NGOS Decky (Kelola/Oxfam), Vanny (Red Cross)	Owada, Tandiono and Mujiburrahman	M	Update of 4.1 activities and 3.2
48	February 1 2013	Hotel Bintang Utara Tahuna, Kabupaten Kepulauan Sangihe	Decky Tiwow (Kelola/OXFAM) & Vanny (Head of Office PMI Sangihe)	Owada, Tandiono and Mujiburrahman	M	Update of Output 4 and 3.2 Activities
49	February 15 2013	BPBD Sitaro PMI Sitaro	Herians Kambuar, Wulan Magaret, Winny, Junaidi, Rusli & Jacknaleng	Yoko Ota, Mujiburrahman and Atha	M	Workshop Preparation
50	February 16 2013	House of Head of BPBD Kotamobagu Jalan Kartini, Gegoman, Toko Megahari Hotel Senator	Saleh, Elis and Abdul Muis	Mujiburrahman	M	Workshop Preparation
51	February 17 2013	House of Head of BPBD Kotamobagu Jalan Kartini, Gegoman, Toko Megahari	Saleh (Head of BPBD), Budi (Head of Rehab Recon) and Sultan (staff)	Takahashi, Isoda, Kata and Mujiburrahman	M	Workshop Preparation
52	February 18 2013	BPBD North Sulawesi Jalan Bethesda No 16	Jimmy Mokolengsang	Mujiburrahman	M	Workshop Preparation
53	March 18 2013	BPBD Sulawesi Utara	Jimmy Mokolengsang	Tandiono Mujiburrahman	M	Village Selection
54	March 19 2013	office of Pak Wisnu BNPB II, 2nd Floor Jl. Abdul Muis – Jakarta	Saleh Zuhaji I Wayan Dharma Elis Lismayani	Mujiburrahman	M	Village Selection
55	March 20 2013	BPBD Kotamobagu	I Wayan Dharma, Abdul Muis, Rudiono Sudarsono	Mujiburrahman	M	Survey
55	March 20 2013	BPBD Kotamobagu	I Wayan Dharma Abdul Muis Rudiono Sudarsono	Mujiburrahman	M	Survey
56	March 21 2013	BPBD Sitaro	Wulan, Eliezer Posumah	Mujiburrahman	M	Survey and Village Selection

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
57	April 16 2013	BPBD Sitaro, Karangetan Monitoring Post	Yeni, Jimmy, Gobel, Kabid, Jack, Yudi	Miki Kodama, Tandiono, Mujib, Atha	M	Workshop Preparation
58	April 16 2013	Office of Head of Bebali Village	All counterparts of Bebali Village, Head of Bebali village	Miki Kodama, Tandiono, Mujib, Atha	M	Workshop Preparation
59	April 19 2013	BPBD Sitaro	Wulan, Eliezer Posumah	Miki, Mujib, Atha	M	Workshop Preparation
60	September 25, 2013	BNPB II, 3rd Floor Jl. Tanah Abang – Jakarta	Yohannes Kristanto Agung Wicaksono Bayu	Miki Kodama, Tokunaga, Mujiburrahman, Rio & Noviyanti AIFDR Chasan Ascholani	M	Coordination on CBDRM Curriculum and Module
61	Sep 5th, 2013	Office Of Bebali Village, Siau Island	Ronny Sambuaga, Chris Somba, Jerry, Derryl Onsu (BPBD Province). Fidel Bulolo (BPBD Manado), Joyke Ondang (BPBD Minahasa), Herry.L, Martha Sarame, Wulan, Jimmy (BPBD Sitaro). Participants from Village of Bebali.	Miki Kodama, Yoko Ota, Mujiburahman, Aldrin Emor	W (Output 4.2)	Workshop Output 4.2 at Kelurahan Bebali, Kab Kep Sitaro Disaster Management in Desa Level
62	Sep 6th, 2013	BPBD Office of Sitaro	Herry.L (Head of BPBD), Martha Sarame (Head of RR Section), Wulan (staff)	Miki Kodama, Yoko Ota, Mujiburahman, Aldrin Emor	M	Visit some government agencies to confirm the conduct activity in 18th September 2013.
63	Sep 6th, 2013	Health Department Office of Sitaro	Dr. Samuel Raule (Head of Health Department), Martha Sarame (BPBD), Wulan (BPBD)	Miki Kodama, Yoko Ota, Mujiburahman, Aldrin Emor	M	Visit some government agencies to confirm the conduct activity in 18th September 2013.
64	Sep 6th, 2013	Social Department office of Sitaro	Mr. Vascho Dauhan, Sychus.F. Panise (Social Dept), Martha Sarame, Wulan (BPBD)	Miki Kodama, Yoko Ota, Mujiburahman, Aldrin Emor	M	Visit some government agencies to confirm the conduct activity in 18th September 2013.
65	Sep 6th, 2013	PVMBG office of Sitaro	Mr. Yudi Tatopang (PVMBG Staff)	Miki Kodama, Yoko Ota, Mujiburahman, Aldrin Emor	M	Visit some government agencies to confirm the conduct activity in 18th September 2013.
67	Sep 9th, 2013	Office of Moyag Village	F. Mamonto (Head of Desa Moyag), Machmud .M (Head of Desa Tampoan), Sartono Mukalulag (Head of Desa Todulan), Moh. Syafei Raupu, Sahrudi Mamonto, Harianto Simbalan, Hamsu Mokoagouw, Rudi Kawulusan, Moh.Amid Mamangkai, Salmon Mokoagouw, Rudy Kawulusan, Hairun Simbala, Tenty Mamont, Suhandri Mamonto, Suhandri Mamonto (Participants from	Miki Kodama, Yoko Ota, Mujiburahman, Aldrin Emor	M	Meeting with People of Moyag Village.

No.	Date	Venue	Participants		Meeting / Workshop	Topic
			Indonesia	JICA		
68	June 19-20, 2014	Lombok Plaza Hotel – Mataram	BNPB, BPBD Province, All Output 4 Counterpart	Output 4 Members	Workshop	Introduction to CBDRM and Concept of Disaster Resilient Village
69	October 29-30, 2014	Balai Desa Kuta. – Lombok Tengah	BNPB (2 People) BPBD Kota Mtaram, Sumbawa, Kab Bima, Lombok Barat, Lombok Utara dan Lombok Tengah BMKG, Unram, PMI Lombok Tengah, Konsepsi dan Koslata Community Members	Ryojo Takahashi Miki Kodama Mujiburrahman Oyong Syafrulah Vivin	Workshop	Leadership Training for implementation of disaster resilient village
70	November 10 -11, 2015	Balai Desa Kuta – Lombok Tengah	30 Community Members, BPBD Lombok Tengah, BPBD Sumbawa, BPBD Lombok Barat, Lombok Utara, Mataram, Dompu Unram, Konsepsi, Forum PRB	Miki Kodama Tandiono Mujiburrahman Fina Fitriani Vivin	Workshop	1 st Community Workshop – Risk Assessment
71	December 11, 2014	BPBD Province – Mataram	BPBD Prov. BPBD Loteng, Lobar, KLU, Lotim, Mataram, Sumbawa, Sumbawa barat, dompu, kota bima, lab bima PMI	Mujiburrahman	Meeting	Training of Trainers
72	January 19, 2015	Balai Desa Kuta – Lombok Tengah	24 members of the community BNPB BPBD NTB BPBD Mataram, Lombok Tengah, Lobok Barat, Sumbawa	Ryoji Takahashi Yoko Ota Mujiburrahman Vivin	Workshop	2 nd Community Workshop DM Planning
73	April 13, 2015	Balai Desa Kuta – Lombok Tengah	51 Participants from Community, BPBD, NTB,	Miki Kodama, Yoko Ota, Mujiburrahman Oyong Syafrullah	Workshop	Preparation workshop for Tsunami Evacuation Drill
74	April 17-18, 2015	Desa Kuta	241 participants from community, BPBD NTB, BPBD Lombok Tengah, Lobar, Lotim, Mataram, KLU dan Sumbawa.	All members of the JICA Project Team	Workshop	Tsunami Evacuation Drill

Appendix 2
List of collected data

List of collected data

No.	Title	Year	Publisher	Original/Copy
Book				
1	Sulawesi Utara in Figures 2010	2010	Badan Pusat Statistik Provinsi Sulawesi Utara (Central Statistic Department of North Sulawesi Province)	Original
2	Republic of Indonesia National Disaster Management Plan 2010-2014	2010	BNPB	Original
3	National Action Plan for Disaster Risk Reduction 2010-2012	2010	BNPB	Original
4	Panduan Fasilitator Kesiapsiagaan Bencana PMR (Facilitator Guide, Disaster Preparedness, Youth Red Cross)	2008	PMI	Original
5	Ayo Siaga Bencana! Palang Merah Remaja (Be Alert for Disasters! Red Cross Youth, Indonesian Red Cross) Wira	2008	PMI	Original
6	Be Alert for Disasters! Red Cross Youth at Elementary School, Indonesian Red Cross	2010	PMI	Original
7	Ayo Siaga Bencana! Palang Merah Remaja (Be Alert for Disasters! Red Cross Youth, Indonesian Red Cross) Madya	2008	PMI	Original
8	Bertindak Cepat-tepat Kenali dan Kurangi Risiko Bencana! (Emergency Response and Disaster Risk Reduction)	2008	PMI	Original
9	Organizational Structure of BPBD in North Sulawesi province	2009	BPBD North Sulawesi	Copy
10	Peraturan Gubernur Sulawesi Utara Nomor 4 Tahun 2008 (North Sulawesi Governor Regulation No. 4 of 2008)	2008	BPBD North Sulawesi	Copy
11	Peraturan Gubernur Sulawesi Utara Nomor 76 Tahun 2008 (North Sulawesi Governor Regulation No. 76 Year 2008)	2008	BPBD North Sulawesi	Copy
12	Peraturan Gubernur Sulawesi Utara Nomor 25 Tahun 2009 (North Sulawesi Governor Regulation No. 25 of 2009)	2009	BPBD North Sulawesi	Copy
13	Tangguh: Building and Deepning Resilience in Eastern Indonesia (Resilience: Building and Deepning Resilience in Eastern Indonesia)	2013	OXFAM	Original
14	Menuju Komunitas Tangguh : Kompilasi Pengalaman Mitra Dalam Pengelolaan Risiko Bencana (Towards a Resilient Community: Compilation of Experience Partners in Disaster Risk Management)	2013	OXFAM	Original
15	Menuju Indonesia Tangguh: Direktori Lembaga Usaha Dalam Penanggulangan Bencana (Towards Resilience Indonesia: Directory of Business Organization In Disaster Management)	2013	OXFAM	Original
16	Lets Get Prepared –Understand –Identify and Prepare –Teacher Guide for Disaster Risk Reduction	2013	Hope Worldwide	Original
17	Zero Risk Indonesia Vol. 9	2014	Zero Risk	Original
18	Game Aplikasi Sekolah Aman (CD) ((Application Game of Safe Schhol) (CD))	2014	Plan Indonesia	Original

No.	Title	Year	Publisher	Original/Copy
Leaflet				
1	UPT. Pusdalops PB Provinsi Bali dalam Sistem Peringatan Dini Tsunami (UPT. DM Pusdalops Bali Province in the Tsunami Early Warning System)	---	UPT. Pusdalops PB Provinsi Bali (UPT. DM Pusdalops Bali Province)	Original
2	Profil Kabupaten Minahasa Utara (Profile of Kabupaten Minahasa Utara)	2011	North Minahasa Regency	Original
3	Integration in practice: Integrating disaster risk reduction, climate change and environmental considerations in AusAID programs	2010	AusAid	Original
4	Katalog Gempa Bumi Merusak di Indonesia (Year 1629- 2007) ((Catalog of Destructive Earthquakes in Indonesia (Year 1629- 2007))	-	-	Original
Map				
1	Bali Province Map (1:175,000)	2002	National Coordinating Agency for Survey and Mapping	Original
2	North Sulawesi Province MAP (1:300,000)	2005	National Coordinating Agency for Survey and Mapping	Original
3	DKI Jakarta map (1:130,000)	2003	National Coordinating Agency for Survey and Mapping	Original
4	Volcanic Hazard Map (1:50,000) V. Karangetang, North Sulawesi	1996/2000	PVMBG, BG	Original
5	Volcanic Hazard Map (1:50,000) V. Awu, North Sulawesi	1996	PVMBG, BG	Original
6	Volcanic Hazard Map (1:50,000) V. Lokon, North Sulawesi	2000	PVMBG, BG	Original
7	Volcanic Hazard Map (1:50,000) V. Sopotan, North Sulawesi	2006	PVMBG, BG	Original
8	Volcanic Hazard Map (1:50,000) V. Ambang, North Sulawesi	2007	PVMBG, BG	Original
9	Volcanic Hazard Map (1:25,000) V. Ruang, North Sulawesi	2007	PVMBG, BG	Original
10	Volcanic Hazard Map (1:50,000) V. Mahawu, North Sulawesi	2007	PVMBG, BG	Original
11	Volcanic Hazard Map (1:50,000) V. Agung, Bali	1996	PVMBG, BG	Original
12	Volcanic Hazard Map (1:25,000) V. Batur, Bali	1996	PVMBG, BG	Original
13	Geology Map of Volcanoes (1:50,000) V. Sopotan, North Sulawesi	1998	PVMBG, BG	Original
14	Geology Map of Volcanoes (1:50,000) V. Karangetang, North Sulawesi	2000	PVMBG, BG	Original
15	Geology Map of Volcanoes (1:50,000) V. Batur, Bali	1992	PVMBG, BG	Original
16	Geology Map of Volcanoes (1:50,000) V. Agung, Bali	2004	PVMBG, BG	Original
17	Peta Sebaran Gunungapi Aktif di Indonesia (Distribution Map of Active Volcanoes in Indonesia) (1:5,000,000)	2001	PVMBG, BG	Original
18	Peta Wilayah Rawan Tsunami Indonesia (Tsunami Hazard Zone) (1:6,000,000)	2005	PVMBG, BG	Original
19	Peta Wilayah Rawan Gempabumi Indonesia (Earthquake Hazard Zone) (1:6,000,000)	2005	PVMBG, BG	Original

No.	Title	Year	Publisher	Original/Copy
20	Peta Sesar Aktif dan Sebaran Pusat Gempabumi Merusak Wilayah Indonesia (Active fault and Distribution of Earthquake-center) (1:6,000,000)	2005	PVMBG, BG	Original
21	Peta Kawasan Rawan Bencana Tsunami Kawasan Pantai Selatan Bali, Propinsi Bali (Tsunami Hazard Prone Map Coastal Area Southern Bali Province) (1:100,000)	2007	PVMBG, BG	Original
22	Peta Zona Kerentanan Gerakan Tanah Pulau Bali (Susceptibility to Landslide Zone Map of Bali Island) (1:150,000)	2007	PVMBG, BG	Original
23	Atlas Zona Kerentanan Gerakan Tanah Indonesia (Zones of Landslide Susceptibility-SNI 13-7124-2005) (1:50,000)	2010	PVMBG, BG	Original
24	Earthquake Hazard Prone Map of Bali Island (1:250,000)	2009	PVMBG, BG	Original
25	Systematic Geological Map of Indonesia (1:5,000,000)	2011	BG	Original
26	Systematic Geological Map of Indonesia (The Manado Sheet, North Sulawesi) (1:250,000)	1997	BG	Original
27	Systematic Geological Map of Indonesia (The Kotamobago Sheet, Sulawesi) (1:250,000)	1997	BG	Original
28	Systematic Geological Map of Indonesia (The Bali Sheet, Nusatenggara) (1:250,000)	1998	BG	Original
29	Systematic Geological Map of Indonesia (The Talud Sheet, Sulawesi) (1:250,000)	1986	BG	Original
30	Systematic Geological Map of Indonesia (The Sangihe and Siau Sheets, Sulawesi) (1:250,000)	1994	BG	Original
31	Peta Zona Kerentanan Gerakan Tanah Indonesia (Landslide Susceptibility Zone Map of Indonesia) (1:5,000,000)	2008	PVMBG, BG	Original
32	Peta Zona Kerentanan Gerakan Tanah Jawa Bagian Barat (Susceptibility to Landslide Map Western Part of Java) (1:5,000,000)	2009	PVMBG, BG	Original
33	Peta Zona Kerentanan Gerakan Tanah Jawa Bagian Tengah (Susceptibility to Landslide Map Middle Part of Java) (1:5,000,000)	2009	PVMBG, BG	Original
34	Peta Zona Kerentanan Gerakan Tanah Pulau Lombok (Susceptibility to Landslide Zone Map of Lombok Island) (1:1,000,000)	2008	PVMBG, BG	Original
35	Peta Zona Kerentanan Gerakan Tanah Lembar UjungPandang, Benteng dan Sinjai, Sulawesi (Susceptibility to Landslide Zone Map UjungPandang, Benteng and Sinjai Quadrangles, Celebes) (1:250,000)	2006	PVMBG, BG	Original
36	Peta Zona Kerentanan Gerakan Tanah Pulau Bali (Susceptibility to Landslide Zone Map of Bali Island) (1:150,000)	2007	PVMBG, BG	Original
37	Peta Lokasi Sebaran PanasBumi di Indonesia (Distribution Map of Geothermal Areas in Indonesia) (1:6,000,000)	1998	PVMBG, BG	Original
38	Peta Kawasan Rawan Bencana Gempabumi Pulau Lombok Nusatenggara Barat (Earthquake Hazard Prone Map of Lombok Island West Nusa Tenggara) (1:250,000)	2009	PVMBG, BG	Original
39	Peta Bouguer Lengkap Bali (Complete Bouguer Gravity Map) (1:250,000)	1972	BG	Original

No.	Title	Year	Publisher	Original/Copy
40	Peta Anomali Bouguer Lembar Sangihe dan Siau, Sulawesi (Bouguer Anomaly Map of The Sangihe and Siau Quadrangle, Sulawesi (1:250,000))	2007	BG	Original
41	Peta Anomali Bouguer Lembar Manado, Sulawesi Utara (Bouguer Anomaly Map of the Manado Sheet, North Sulawesi) (1:250,000)	1992	BG	Original
42	Peta Anomali Bouguer Lembar Talaud & Mayu, Sulawesi (Talaud&Mayu Quadrangle, Sulawesi) (1:250,000)	2006	BG	Original
43	Peta Anomali Bouguer Lembar Kotamobagu, Sulawesi (Bouguer Anomaly Map of The Kotamobagu Quadrangle, Sulawesi) (1:250,000)	2007	BG	Original
44	Peta Topografi Indonesia-Lambu (Indonesia Topography Map-Lambu)	1998	BAKOSURTANAL	Original
45	Peta Topografi Indonesia-Pernang (Indonesia Topography Map-Pernang)	1998	BAKOSURTANAL	Original
46	Present Landuse And Forest Status-Pulau Komodo	1998	BAKOSURTANAL	Original
47	Present Landuse And Forest Status-Mataram	1998	BAKOSURTANAL	Original
48	Present Landuse And Forest Status-Garantah	1998	BAKOSURTANAL	Original
49	Present Landuse And Forest Status-Sumbawa Besar	1998	BAKOSURTANAL	Original
50	Atlas Zona Kerentanan Gerakan Tanah Indonesia Edisi 2 (Susceptibility to Landslide Map of Indonesia 2nd Edition)	2012	PVMBG	Original
51	Peta Kawasan Rawan Gempa Bumi-Prov.Sumatera Utara (Earthquake Hazard Prone Map of Prov.Sumatera Utara)	2012	PVMBG	Original
52	Peta Kawasan Rawan Gempa Bumi-Prov.Jambi (Earthquake Hazard Prone Map of Prov.Jambi)	2012	PVMBG	Original
53	Peta Kawasan Rawan Gempa Bumi-Prov.Sulawesi Barat (Earthquake Hazard Prone Map of Sulawesi Barat)	2012	PVMBG	Original
54	Peta Kawasan Rawan Gempa Bumi-Prov.Maluku Utara (Earthquake Hazard Prone Map of Prov.Maluku Utara)	2012	PVMBG	Original
55	Peta Kawasan Rawan Gempa Bumi-Prov.NTB (Earthquake Hazard Prone Map of Prov.NTB)	2012	PVMBG	Original
56	Peta Geologi Gunung Api Tambora Sumbawa (Volcanoes Geology Map of Tambora Sumbawa)	2008	PVMBG	Copy
57	Peta Kawasan Rawan Bencana Gunung Api Rinjani Lombok, Prov.NTB (Hazard Prone Map of Rinjani Volcano Lombok, Prov. NTB)	2008	PVMBG	Copy
58	Peta Zona Kerentanan Gerakan Tanah Pulau Lombok, NTB (Susceptibility to Landslide Map of Pulau Lombok, NTB)	2008	PVMBG	Copy
59	Peta Kawasan Rawan Bencana Gunung Api Tambora Sumbawa, NTB (Hazard Prone Map of Tambora Volcano Sumbawa, NTB)	2008	PVMBG	Copy
60	Peta Kawasan Rawan Bencana Gunung Api Sangeang Api Sumbawa, NTB (Hazard Prone Map of Sangeang Api Volcano Sumbawa, NTB)	2008	PVMBG	Copy
61	Peta Provinsi NTB dan NTT (Map of Province NTB & NTT)		PT. Karya Pembina Swajaya	Original

No.	Title	Year	Publisher	Original/Copy
62	Peta Geologi Lembar Sumbawa (Geology Map of Sumbawa Sheet)	2012	Badan Geologi (Geological Agency)	Original
63	Peta Geologi Lembar Komodo. Nusa Tenggara (Geology Map of Komodo. Nusa Tenggara Sheet)	1978	Direktorat Geologi (Directorate of Geology)	Original
64	Peta Geologi Lembar Lombok, Nusa Tenggara (Geology Map of Lombok, Nusa Tenggara Sheet)	1994	Pusat Penelitian Dan Pengembangan Geologi (Geological Research and Development Center)	Original
65	J-NTB Over Printing Map	2014-2015	JICA	Copy
66	J-SULUT Sampel Historical Disaster	2013-2014	JICA-Kab.Kota SULUT	Copy
67	Peta Kelurahan Terdampak Banjir Manado (Affected Village Map of Manado Flood)	2013	JICA-Kab.Kota SULUT	Copy
68	Peta 1:25.000 Prov NTB (Map of Prov NTB 1:25.000)	1995	BAKOSURTANAL	Original
69	Peta Kerentanan Resiko Sulut 1 dan 2 (Risk Vulnerability Map of Sulut 1 & 2)	2014	JICA	Original
70	Atlas Zona Kerentanan Gerakan Tanah Indonesia (Susceptibility to Landslide Map of Indonesia)	2012	PVMBG	Original
Electronic File				
1	DIBI Data Format	2009	UNDP SC-DRR	Electronic File
2	UNDP SC-DRR Project Log-frame	2007	UNDP SC-DRR	Electronic File
3	Bali Province BPBD Regulation	2009	Bali Province BPBD	Electronic File
4	Bali Province EOC Guideline	2009	Bali Province BPBD	Electronic File
5	Bali Province EOC SOP	2009	Bali Province BPBD/French Red Cross	Electronic File
6	Tsunami Hazard Map (Bali)	2009	DLR	Electronic File
7	Volcano Hazard Map (Bali)	2000	BAPPEDA Bali Province/Udayana University	Electronic File
8	Bali Province EOC Presentation	2011	Bali Province EOC	Electronic File
9	BPBD Kota Denpasar	2011	Kota Denpasar BPBD	Electronic File
10	Tsunami Hazard Map (Sanur)	-	GTZ	Electronic File
11	Kota Denpasar SOP	2010	Kota Denpasar BPBD	Electronic File
12	Volcano Hazard Map (Merapi)	2002	Directorate of Volcanology and Geologic Hazard Mitigation	Electronic File
13	Operation Team for Merapi Response	2010	DI Yogyakarta BPBD	Electronic File
14	Sleman District Merapi Response	2010	Sleman District	Electronic File
15	Community Evacuation SOP	2010	UGM	Electronic File
16	North Minahasa District BPBD Organization Structure	2010	North Minahasa District	Electronic File
17	North Minahasa District BPBD Roles	2010	North Minahasa District	Electronic File
18	LANDSLIDE EARLY WARNING MAP 2011	2011	PVMBG, BG	Electronic File
19	Disaster Mitigation and Tips for Tsunami, Earthquake and Volcano	-	ESDM Ministry	Electronic File
20	Earthquake Book, Earthquake Resistance Building Plan Book, Earthquake Resistance Building Plan Book Movies, Earthquake Movies	-	ESDM Ministry	Electronic File
21	Microzonation for Mataram 2014	2014	ESDM Ministry	Electronic File

No.	Title	Year	Publisher	Original/Copy
22	Disaster Management Teaching Module to decrease Risk of Tsunami, Earthquake, and Landslide	-	ESDM Ministry	Electronic File
23	Landslide Susceptability for Lombok	2008	ESDM Ministry	Electronic File
24	Only part area Landslide Susceptability for Lombok, Bima, Sumbawa	2008	ESDM Ministry	Electronic File
25	Volcano Hazard Area For Rinjani, Sangeangapi, Tambora	2008	ESDM Ministry	Electronic File
26	Law, Government Regulations, Amandement, Law	2006, 2007, 2008	ESDM Ministry	Electronic File
27	CBDRM Presentation, Disaster Mitigation Presentation, Building Resistance to Earthquake	-	ESDM Ministry	Electronic File
28	Watershed	-	ESDM Ministry	Electronic File
29	Dry Land Area	-	ESDM Ministry	Electronic File
30	Contour	-	ESDM Ministry	Electronic File
31	Diesel Power Plant	-	ESDM Ministry	Electronic File
32	Spring Potential	-	ESDM Ministry	Electronic File
33	Wind Potential	-	ESDM Ministry	Electronic File
34	Rainfall Region	-	ESDM Ministry	Electronic File
35	Flood Hazard Area	-	ESDM Ministry	Electronic File
36	Hazard Area NTB	-	ESDM Ministry	Electronic File
37	Gas Station	-	ESDM Ministry	Electronic File
38	Volcano Hazard Area For Rinjani, Sangeangapi, Tambora	-	ESDM Ministry	Electronic File
39	River of Lombok	-	ESDM Ministry	Electronic File
40	River of NTB	-	ESDM Ministry	Electronic File
41	Forest Use Map	-	ESDM Ministry	Electronic File

Appendix 3

List of the Output of the Project

List of the Output of the Project

Output 1

1. Disaster Information Formats (March 2014)
 - Part of Disaster Information Technical Guideline for Disaster Data and Information Collection (Ver. 1.0)
2. Disaster Information Technical Guideline for Disaster Data and Information Collection (Ver. 1.0) (March 2014)
 - Based on BNPB Regulation No.8”Standard Data Information”, describe the procedure of disaster data and information for the officer of regencies and municipality level

Output2

3. Hazard, Vulnerability, Risk Maps for all Kab/Kota(March 2014~May 2015)
 - Hazard, Vulnerability, Risk Maps for all 15 regencies and municipalities in North Sulawesi Province and 10 regencies and municipalities in West Nusa Tenggara Province
4. Technical Guideline for Creation of Hazard Map for Kab/Kota (Sep 2015)
 - Based on BNPB Regulation No.2 2012”Disaster Risk Assessment Guideline”, describe the methodology to create hazard and risk map and methodology of disaster risk assessment.

Output 3

5. Technical Guideline for formulation of RDMP (Sep 2015)
 - Based on BNPB Regulation No.4 2008,the guideline includes Technical Guideline for formulation of RDMP, RDMP Formulation Support Application, and Sample RDM
6. Technical Guideline for Formulation of SOP (Mar 2014)
 - Based on BNPB Regulation No.10 2008 and related regulation, described the procedure for developing SOP in regency and municipality level
7. SOP in Regency and Municipality (Mar 2014)
 - SOP were developed in Sitaro regency and Kotamobagu municipality
8. Disaster Risk Management Action Plan (Mar 2014~Sep 2015)
 - Developed as a part of RDMP in each regency and municipality
9. RDMP for regencies and municipalities (Mar 2014~Sep 2015)
 - RDMP in 14 regencies and municipalities in North Sulawesi Province and 8 regencies and municipalities in West Nusa Tenggara Province

Output 4

10. Technical Guideline for Implementation of DM Exercise (TTX, CPX) (Mar 2014)
 - Based on the Guideline for the implementation of Disaster Management Preparedness Exercise issued by BNPV in 2012, described the methodology of implementing exercise for regency and municipality level

11. “Activities for “Disaster Resilient Village” Program -- As a Good Practice Model –” (Mar 2014 and Sep 2015)
 - Describe the example of CBDRM activities in the Project
12. Community Disaster Management Plan (Three pilot villages)(Mar 2014 , Sep 2015)
 - Disaster Management Plan for Bebali village in Sitaro regency, Moyag village in Kotamobagu municipality, and Kuta village in Central Lombok regency

Common

13. Check list for capacity assessment (Aug 2015)
 - Developed as a part of capacity development report implemented during the Project

Appendix 4
Result of Plan of Operation

Plan of Operation

Activity	Implementation policy with BNPB		Activity in the 1 st pilot province of SULUT					Activity in the 2 nd pilot province of NTB																		
	2011		2012					2013					2014					2015								
	Jul	-Dec	Jan	-Jun	Jul	-Sep	Oct	-Dec	Jan	-Mar	Apr	-Jun	Jul	-Sep	Oct	-Dec	Jan	-Mar	Apr	-Jun	Jul	-Sep	Oct	-Nov		
1-1																										
1-2																										
1-3																										
1-4																										
1-5																										
2-1																										
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2-3(1)																										
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4-4																										
4-5(1)																										
4-5(2)																										
5-1																										
5-2																										
5-3																										
5-4																										
Project Management Activities - R/D (on 11 July 2011) and JCC (18 Jan 2012, 11 Jul 2012,)																										

Mid-term Review

Terminal Evaluation

Appendix 5
Result of dispatching experts

Result of dispatching experts

	Name	Duration in Indonesia (days of stay)					Total Days	
		1 st FY Nov 2011– Mar 2012	2 nd FY Apr 2012 – Mar 2013	3 rd FY Apr 2013 – Mar 2014	4 th FY Apr 2014 – Mar 2015	5 th FY Apr 2015-		
1	Ichiro KOBAYASHI	Chief Advisor / Comprehensive disaster management	11/28-12/21 (24)	5/28-6/14 (18) 10/8-10/25 (18)	4/15-4/26 (12) 5/13-6/14 (33) 9/9-9/12 (5)	6/15-24 (10)	4/5-4/25 (21) 9/4-9/18 (15)	156
2	Ryoji TAKAHASHI	Deputy Chief Advisor / Regional disaster management planning	11/24-12/23 (30) 1/11-1/31 (21)	3/14-4/12 (30) 6/19-7/18 (30) 9/24-10/18 (25) 11/26-12/20 (25) 2013/1/24-2/22 (30)	5/13-6/6 (25) 8/25-9/26 (33) 12/9-12/24 (16) 3/10-4/12 (30)	6/11-6/25 (15) 10/9-11/7 (30) 1/7-1/30 (24)	4/1-4/30 (30) 7/1-7/18 (18) 9/6-9/12 (7) 10/15-10/21 (7)	44
3	Noboru IKENISHI	Disaster Management Institution and Organization	11/28-12/23 (26)	4/16-5/4 (19) 6/18-7/17 (30)				75
4	Osamu ISODA	Disaster Management Institution and Organization		10/22-11/6 (16) 1/29-2/26 (29)				45
5	Kiyotaka OWADA	Emergency response planning	11/28-12/23 (26) 2/2-3/2 (30)	4/23-5/26 (34) 7/4-7/18 (15) 10/1-10/30 (30) 1/6-2/5 (31)	5/6-5/25 (20) 8/18-8/30 (12) 3/26-4/12 (18)			216
6	Makoto IKEDA	Disaster information system	12/1-12/23 (23) 3/26 -4/24 (30)	6/27 -7/18 (22) 10/2 -10/25 (24) 2/3 -2/28 (26)	8/21-9/14 (25) 3/23-4/12 (21)			171
7	Kenichiro KATO	Disaster mitigation measures (flood, landslide, drought, destructive wind, forest fire)	11/28-12/23 (26) 1/17-2/15 (30)	4/9-4/27 (19) 6/27-7/11 (15) 10/8-11/6 (30)				120
8	Isao MISONO	Disaster mitigation measures (flood, landslide, drought, destructive wind, forest fire)		2013/1/24-2/27 (35)	4/15-5/17 (33)			68
9	Kenji MORITA	Disaster Management (flood, landslide, drought, destructive wind, forest fire)			12/16-12/24 (9) 3/10-4/5 (27)	6/11-6/25 (15) 9/2-10/2 (31) 1/12-1/28 (17)	4/7-4/24 (18) 6/22-7/4 (13) 8/30-9/18 (21)	151
10	Sugio IMAMURA	Disaster mitigation measures (earthquake, tsunami, volcanic eruption)	12/6-12/23 (18) 2/20-3/20 (30)	6/3-7/17 (45) 10/8-11/3 (27) 1/13-2/2 (21)	4/15-5/30 (46) 3/23-4/12 (21)	6/15-6/26 (12) 11/12-11/26 (15) 1/11-1/27 (17)	5/25-5/29 (5) 6/21-7/16 (26)	283
11	Akihiro FURUTA	Database / GIS1	12/6-12/23 (18) 3/26-4/21 (27)	7/3-7/17 (15) 10/8-11/5 (29) 1/13-2/5 (24) 3/11-3/24 (14)	5/6-6/6 (32) 12/9-12/24 (16) 3/24-4/19 (27)	6/11-6/27 (17) 9/2-10/2 (31) 11/16-12/10 (25) 1/12-1/18 (7)	4/7-4/30 (24) 6/28-7/18 (21) 8/27-9/18 (23) 10/15-10/19 (5)	355
12	Angelito Arjona	Database / GIS2		2013/3/18-7/1 (total 60)				60
13	Yuuichi NAKAMURA	Disaster management drill (1)	12/1-12/23 (23)	4/9-5/5 (27) 6/10-7/14 (35) 10/1-10/30 (30)	5/17-6/15 (30) 8/26-9/29 (35)	4/8-4/19 (12)		192

Name	Duration in Indonesia (days of stay)					Total Days	
	1 st FY Nov 2011– Mar 2012	2 nd FY Apr 2012 – Mar 2013	3 rd FY Apr 2013 – Mar 2014	4 th FY Apr2014 – Mar 2015	5 th FY Apr 2015-		
14 Katsu KATO	Disaster management drill (2)	1/11-2/9 (30) 3/14-4/12 (30)	6/19-7/18 (30) 9/19-10/18 (30) 2/4-3/2 (27)	5/22-6/1 (11) 8/28-9/21 (22) 12/9-12/24 (16) 3/19-4/12 (25)	6/16-6/26 (11) 8/11-8/22 (12) 10/20-11/7 (19) 1/7-1/30 (24) 3/30-4/28 (30)	8/27-9/18 (23) 10/15-10/19 (5)	345
15 Miki KODAMA	Community-based Disaster Risk Management	12/1-12/23 (23)	4/1-4/15 (15) 5/28-7/11 (45) 9/30-10/28 (29)	4/7-5/11 (35) 8/26-9/27 (33) 3/23-4/12 (21)	6/14-6/26 (10) 10/13-11/15 (35)	4/4-5/1 (28) 9/2-9/18 (18)	292
16 Azusa MATSUI	Capacity Development	11/28-12/23 (26)	10/15-11/6 (23)		6/16-6/27 (12)	4/7-4/18 (12)	73
17 Azusa OKUNO	Coordinator/Support of the Expert in CBDRM	11/24-12/23 (30)	4/2-5/16 (45)				75
18 Yoko OTA	Coordinator/Support of the Expert in CBDRM		6/26-7/18 (23) 9/19-11/6 (49) 2/6-3/2 (25)	5/13-6/6 (25) 8/25-9/25 (32) 3/20-4/12 (24)	6/12-6/27 (16) 1/13-1/30 (12)	3/30-4/28 (24) 8/22-9/18 (12)	242
Total							3345

Appendix 6
Result of CP training

Result of Counterpart Training

Period	Name	Organization	Visited Institutions and Course
25 Aug - 8 Sep 2012	1 Dr. Teddy Sudinda	BNPB	1. Ministry of Land, Infrastructure, Transportation and Tourism Tohoku Regional Development Bureau, Sendai River and National Highway Office 2. Shichigahama Town, 3. Ishinomaki City, 4. Onagawa Town 5. Japan Meteorological Agency 6. Tokyo Rinkai Disaster Prevention Park 7. Meguro Ward 8. Yokohama City 9. Sumida Ward Government 10. Community-based Disaster Prevention Group in Sumida Ward 11. Kochi Prefecture Government 12. Kochi Municipality Government
	2 Mr. Anas Luthfi	BNPB	
	3 Mr. Hoyke Makarawung	Head, BPBD Province of North Sulawesi	
	4 Mr. Jimmy E. Mokolensang	BPBD Province of North Sulawesi	
	5 Mr. Fidelwan Buulolo	BPBD Kota Manado	
	6 Mr. Jeffry Wowiling	Head, BPBD Kota Bitung	
	7 Mr. Willen Polii Runtukahu	BPBD Kota Tomohon	
	8 Ms. Enna Mokoginta	Head, BPBD Kota Kotamobagu	
	9 Mr. Djuhardi Damopolii	Head, BPBD Kabupaten Bolaang Mongondow	
	10 Mr. H. Erikson Tegila	Head, BPBD Kabupaten Bolaang Mongondow Utara	
	11 Mr. Maspan Mus Puwa	Head, BPBD Kabupaten Bolaang Mongondow Selatan	
	12 Mr. Hariono Sugeha	Head, BPBD Kabupaten Bolaang Mongondow Timur	
	13 Mr. Vecky Kaloh	Head, BPBD Kabupaten Minahasa	
	14 Ms. Lilly Lengkong	Head, BPBD Kabupaten Minahasa Utara	
	15 Mr. Handrie M.J. Komaling	Head, BPBD Kabupaten Minahasa Selatan	
	16 Mr. Welly Munaiseche	Head, BPBD Kabupaten Minahasa Tenggara	
	17 Mr. E. Posumah	Head, BPBD Kabupaten Kepulauan Sitaro	
	18 Mr. Reintje Tamboto	Head, BPBD Kabupaten Kepulauan Sangihe	
	19 Mr. H. Salombe	Head, BPBD Kabupaten Kepulauan Talaud	
16 Aug - 30 Aug 2014	1 Mr. Wedha Magma Ardhi	Head of BPBD - NTB Province	1. Sakurajima Volcano Research Center 2. Sakurajima Visitor Center (Volcano Museum) 3. Kagoshima Prefecture Government (Visit to Sabo Dept./Disaster Management Dept.) 4. Kagoshima Municipality Government (Disaster Management Measures in Municipal Government) 5. Community -based disaster management group in Sakura jima area 6. MLIT Kyushu Regional Development Bureau of Osumi River and National Highway Office 7. Tokyo Rinkai Disaster Management Park 8. Tokyo Metropolitan Government (Emergency response system and disaster management base) 9. Lecture of Tohoku University “ Role of research institute for reconstruction from Great Eastern Japan Earthquake” 10. Life Safety Learning Center 11. Japan Meteorological Agency 12. Ministry of Land, Infrastructure, Transportation and Tourism
	2 Mr. Hardy Wijaya	Head of Prevention and Preparedness Division – BPBD NTB Province	
	3 Mr. Ahyar Junaidi Abdul Azis	Head of Rehabilitation and Reconstruction Division - BPBD NTB Province	
	4 Mr. Supardi	Head of BPBD - Kota Mataram	
	5 Mr. Halawi Mustafa Kholidi	Head of BPBD - Kab. Lombok Barat	
	6 Nurpuri Sinarep Rumangin	Head of BPBD - Kab. Lombok Tengah	
	7 Mr. Abdul Hakim	Head of BPBD - Kab. Lombok Timur	
	8 Mr. Moh. Iwan Maret Asmara	Head of BPBD - Kab. Lombok Utara	
	9 Mr. Tholib Abdullah	Head of BPBD - Kab. Sumbawa Barat	
	10 Mr. Mukmin	Head of BPBD - Kab. Sumbawa	
	11 Mr. Imran	Head of BPBD - Kab. Dompu	
	12 Mr. Muhammad Fakhrunraji Bin Hamid	Head of BPBD - Kota Bima	

Period	Name	Organization	Visited Institutions and Course
16 Aug - 30 Aug 2014	13	Mr. Abdul Wahab	Head of BPBD - Kab. Bima
	14	Mr. Noldy Wolter David Liow	Head of BPBD North Sulawesi Province
	15	Mr. Jeffry Wowiling	Head of BPBD Kota Bitung
	16	Ms.Elin Linawaty	BNPB
	17	Mr. Yulianto Sukatmo Wiyono	BNPB
	18	Mr. Pratomo Cahyo Nugroho	BNPB
	19	Ms. Gita Yulianti Suwandi	BNPB
	20	Ms.Dian Andry Puspita Sari	BNPB
8 Nov - 15 Nov 2015	1	Ir. Dody Ruswandi, MCE	BNPB
	2	Mr. M. Qurais H. Abidin	Mayor of Bima City
	3	Dr. Ir. Arifin Rudiyanto, M.Sc	Ministry of National Development Planning (Bappenas)
	4	Ir. Danis Hidayat Sumadilaga	Ministry of Public Works
	5	Dr. Sri Henni Setiawati,	Ministry of Health (MOH)
	6	Dr. Masturyono	BMKG (Agency for Meteorology, Climatology and Geophysics)
	7	Prof. Ir. Wimpie Agoeng Noegroho A, MSCE, Ph.D	Agency for Assessment and Application of Technology (BPPT)
	8	Ir. Lilik Kurniawan, Msi	BNPB
	9	Ir. Sutejo, MM	Ministry of Home Affairs(MoHA)
	10	Mr. Tri Nurmala	Indonesia National Platform for Disaster Risk Reduction
			<ul style="list-style-type: none"> 13. Higashimatsushima City Municipality 14. Exchange of the progress of reconstruction with Aceh City in Higashimatsushima 15. Nobiru Relocated Developed Land, Relocated housing complex, Mega Solar Park, Disaster Management Stockpile 16. Ishinomaki City for story telling of Great East Japan Earthquake 17. Ishinomaki NEWSee 18. Participatory reconstruction planning in Ishinomaki City 19. Observation of Emergency drill (Ginza)
			<ul style="list-style-type: none"> 1. The Metropolitan Area Outer Underground Discharge Channel 2. Visit of disaster management base facility park/Disaster management experience-learning facility 3. Tokyo Metropolitan Government 4. Shizuoka Prefecture 5. Yoshida Town 6. Reconstruction Agency 7. Ministry of Education, Culture, Sports, Science and Technology 8. Japan Meteorological Agency 9. Life Safety Learning Center

Appendix 7
List of procured equipment

List of procured equipment

No	Equipment	Specification and Manufacturer	Qty	Total Price	Delivery Date	Place of Use	Current Status
1	Printer	Canon LBP 9100 C	1	IDR 20,500,000	2011/12/14	BNPB	Handed Over on 15 Sep 2015
2	Computer for Hazard Map	Dell 2320	2	IDR 33,000,000	2011/12/14	BNPB	Handed Over on 15 Sep 2015
3	GIS Software	ArcView10.1	1	USD 5,090	2012/3/26	BNPB, BPBD	Handed Over on 15 Sep 2015
4	Computer for Hazard Map	HP OMNI 220-1010D AIO PC	2	IDR 13,546,000 IDR 13,140,000	2012/10/1 2012/12/6	BPBD North Sulawesi	Handed Over on 28 Mar 2014
5	Printer	Canon LBP 9100 C	1	IDR 21,654,000	2012/10/2	BPBD North Sulawesi	Handed Over on 28 Mar 2014
6	Satellite Image	ALOS (AVNIR2)	1	JPY 63,000	2012/10/16	BPBD North Sulawesi	Handed Over on 28 Mar 2014
7	Elevation Data	IFSAR	1	USD 23,918.4	2012/10/29	BPBD North Sulawesi	Handed Over on 28 Mar 2014
8	GIS Software	ArcView10.1, Spatial Analyst	2	USD 9676.6	2012/12/3	BPBD North Sulawesi	Handed Over on 28 Mar 2014
9	Satellite Image	ALOS (AVNIR2)	1	JPY 825,750	2013/1/7	BPBD North Sulawesi	Handed Over on 28 Mar 2014
10	Plotter	HP Design Jet 790 A4 in PostScript e printer (A0 +)	1	IDR 52,650,000	2013/4/30	BPBD North Sulawesi	Handed Over on 28 Mar 2014
11	Computer for Hazard Map	ASUS EeeTop 4430s ALL IN ONE	2	IDR 33,028,000	2014/6/10	BPBD West Nusa Tenggara	Handed Over on 11 Sep 2015
12	Printer	HP LASERJET CP 5225	1	IDR22,000,000	2014/5/14	BPBD West Nusa Tenggara	Handed Over on 11 Sep 2015
13	Elevation Data	IFSAR	1	USD 7297.3	2014/8/11	BPBD West Nusa Tenggara	Handed Over on 11 Sep 2015
14	Elevation Data	IFSAR	1	USD 12,574.4	2014/8/11	BPBD West Nusa Tenggara	Handed Over on 11 Sep 2015
15	Elevation Data	IFSAR	1	USD 7,956.4	2014/8/18	BPBD West Nusa Tenggara	Handed Over on 11 Sep 2015
16	Plotter	HP Design Jet 790 A4 in PostScript e printer (A0 +)	1	IDR49,000,000	2014/4/22	BPBD West Nusa Tenggara	Handed Over on 11 Sep 2015

Appendix 8
Result of operational cost

Result of operational cost

(Currency: JPY)

Items	FY2011	FY2012	FY2013	FY2014	FY2015	Total
	Dec 2011 – Mar 2012	Apr 2012 – Mar 2013	Apr 2013 – Mar 2014	Apr 2014 - Mar 2015	Apr 2015 – Nov 2015	
Operational Expenses (including , remuneration of local staff, car rental cost)	3,422,240	12,454,538	16,718,008	21,239,615	14,772,545	68,606,946
Purchase of Equipment (including , printer, plotter, computer)	869,001	3,939,957	511,758	3,044,459	0	8,365,175
Counterpart Training (including , transportation cost, text book, venue)	0	1,113,777	0	1,223,962	942,444	2,337,739
Subcontracting expenses	0	0	0	1,796,160	441,600	2,237,760
Total	4,291,241	17,508,272	17,229,766	27,304,196	16,156,589	82,490,064

Appendix 9
Modification of PDM

Modification of PDM

Project Design Matrix (PDM), (Version 1)

Date: November 24, 2011

Project Name: The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD

Project Term: 2011 - 2015 (four years)

Target area (pilot provinces): North Sulawesi province (Manado Municipality and other regencies/municipalities), Bali province: Tentative (Denpasar Municipality and other regencies/municipalities)

Target group: National Disaster Management Agency (BNPB); at least two Regional Disaster Management Agencies (BPBDs) of two provinces: North Sulawesi province, Bali province (Tentative); and the Regency/Municipality BPBDs in the target area (pilot provinces)

Narrative Summary	Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal The provincial BPBDs as well as the regency/municipality BPBDs beside the pilot areas are established, and the disaster management capacities of them are enhanced by using the same method in the project.</p>	<p>The number of provinces as well as regencies/municipalities that apply the methodologies established in the Project for accumulating disaster data, creating hazard and risk maps, formulating regional disaster management plan and conducting disaster management drill.</p>	<p>1. Interviews with the BNPB and BPBD staff</p>	<p>Disaster management framework by current disaster-related organizations as well as disaster-related policy in Indonesia remains unchanged.</p>
<p>Project Purpose The disaster management capacities of BNPB, the provincial BPBDs, and the regency/municipality BPBDs in the pilot area are enhanced.</p>	<p>1. Number of Cases that Regional Disaster Management Plan (RDMP) formulated through the Project is officially approved by the respective local authority. 2. Number of voluntary disaster management drill conducted within the pilot community.</p>	<p>1. Regency/municipality orders 2. BNPB or BPBD reports, newspaper articles on these cases, or interviewing the community</p>	<p>BNBP extends its activities in the pilot area to other provincial BPBDs, regencies/municipalities outside the pilot areas.</p>
<p>Outputs 1. The capacity for the regency/municipality BPBDs to accumulate disaster data/information which are fundamental for disaster risk management and improve accuracy of such data/information are improved. 2. Hazard and risk maps at regency/municipality level in the pilot area are created. 3. Regional disaster management plans for regency/municipality in the pilot area are formulated. 4. Disaster management drills are conducted in the pilot provinces as well as regency/municipality in the pilot provinces.</p>	<p>1-1. Accumulation of disaster data items (Newly accumulated since there are no existing data) 1-2. Improvement of disaster data quality (By following the format, data are sufficiently accumulated) 2-1. Number of the regencies/municipalities where hazard and risk maps at regency/municipality level are created in the pilot provinces 3-1. Number of the regencies/municipalities where regional disaster management plans are formulated at regency/municipality level in the pilot provinces. 4-1. Number of disaster management drills implemented in the pilot area together with national level organizations. 4-2. Number of activities on CBDRM in the pilot area.</p>	<p>1-1. Project reports 1-2. Project reports 2-1. Project reports 3-1. Project reports 4-1. Project reports 4-2. Project reports</p>	
<p>Activities 1-1. To study contents of disaster data/information to be acquired and accumulated at a regional level (regency/municipality level) in the pilot area based on the lessons learned from the JICA Study, "The Study on Natural Disaster Management in Indonesia (the JICA Study)" in order to establish format for sharing disaster data 1-2. To study necessary data items as well as data format to be shared and informed to the provincial BPBDs from the regency/municipality BPBDs in the pilot area, and informed to the BNPB from the provincial BPBDs in the pilot area in order to establish the methodology for accumulating necessary data 1-3. To formulate the manual for acquiring and accumulating disaster data/ information 1-4. To acquire and accumulate disaster data/information in the pilot area using the format developed through the Project 1-5. To list the disaster data accumulated in the pilot area into the disaster annual report 2-1. To study and verify effectiveness of "the manual for creation of hazard and risk maps", developed through the JICA Study. 2-2. To revise manual for creation of hazard and risk maps developed through the JICA Study 2-3. To collect and clarify basic data including statistics, social data, data on natural conditions 2-4. To create hazard and risk maps based on the data accumulated through Output 1 as well as basic data collected in Activity 2-3 2-5. To plan disaster mitigation measures based on the hazard and risk maps created through Activity 2-4 as well as the lessons learned from the Regional Disaster Management Plan (RDMP) developed through the JICA Study 3-1. To add other disasters including volcanic eruptions, drought, destructive wind, and forest fires as target disasters and revise manual developed through the JICA Study, for formulation of RDMP, which covers 8 types of natural disasters (earthquakes, tsunamis, volcanic eruptions, floods, landslides, drought, destructive wind, and forest fires). 3-2. To study about revision of Standard Operation Procedure (SOP) used commonly by regency/municipality in order to prepare standard manual and formulate manual for formulation of SOP</p>	<p>Inputs (Indonesian side) 1. Assignment of counterpart personnel (C/P) - Project Director (P/D) from BNPB (Deputy Chief for Prevention and Preparedness) - Project Manager (P/M) from BNPB (Director for Disaster Risk Reduction) - Project Coordinator (Administration) from BNPB (Director for Bureau for Laws and Cooperation) -Output 1: Team Leader (Deputy Chief of Disaster Information, Division of Information Center) and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces) -Output 2: Team Leader (Sub-director of Prevention) and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces) -Output 3: Team Leader (Sub-director of Mitigation/Sub-director of Prevention) and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces) Deputy Team Leader (Sub-director of Response Planning and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces) -Output 4: Team Leader (Sub-director of Resource Preparedness) and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces) Deputy Team Leader (Sub-director of Community Empowerment) and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces) 2. Provision of facility and equipment - Project office space - Other expenses</p>	<p>(Japanese side) 1. Dispatch of the Japanese experts - Chief advisor/ Comprehensive disaster management - Regional disaster management planning - Disaster management institution and organization - Emergency response planning - Disaster information system - Disaster mitigation measures (flood, landslide, drought, destructive wind, forest fire) - Disaster mitigation measures (earthquake, tsunami, volcanic eruption) - Database/ GIS - Disaster management drill (1) - Disaster management drill (2) - Community based disaster risk management - Capacity Development - Coordinator/support of the expert in community based disaster risk management 2. Provision of equipment - Training tools and materials - PC for preparing hazard and risk maps, printer, GIS software 3. Counterpart training - Necessary number of staff is trained in Japan once a year. The staff is selected from BNPB as well as the provincial and regency/municipality BPBDs in the pilot area.</p>	<p>(1) Trained staff continues to work for BNPB or BPBD. (2) Status of disaster management plan remains unchanged. (3) Relation among the relevant organizations remains unchanged. (4) Information is shared within the Project team sufficiently.</p> <p>Pre-conditions (1) Destructive disaster which may greatly affect to the smooth operation of the Project does not occur before the Project is completed. (2) Regular BNPB and BPBD officials are assigned to the Project under government order before the Project starts.</p>

Narrative Summary	Verifiable Indicators	Means of Verification	Important Assumptions
<p>3-3. To collect and clarify basic data including statistics, social data, data on natural conditions necessary for formulating RDMPs for the pilot area, based on the lessons learned from experience of the above-mentioned JICA Study</p> <p>3-4. To formulate RDMPs and Regional Action Plans for Disaster Risk Reduction (DRR) for the pilot areas based on the modified manual for formulating RDMP, basic data, lessons learned from the experience of formulation of RDMP of the JICA Study, and study/verification of effectiveness learned from real disasters</p> <p>3-5. To formulate or revise Contingency Plan to be able to revise existing SOP</p> <p>3-6. To revise the existing SOP and Contingency Plan according to emergency response plan of the RDMP formulated through the Activity 3-4</p> <p>3-7. To promote official appraisal by regency/municipality of RDMP formulated through Activity 3-4</p> <p>4-1. To study existing documents for implementation of disaster management drills</p> <p>4-2. To formulate the manual for implementing disaster management drill</p> <p>4-3. To implement disaster management drill in the pilot area together with national level organizations</p> <p>4-4. To revise the manual for implementing disaster management drill as well as Contingency Plan/ SOP based on the result of the disaster management drill if necessary</p> <p>4-5. To conduct activities on CBDRM to empower disaster management capacity utilizing output formulated through the Project</p>	<p>3. Operation budget</p> <ul style="list-style-type: none"> - Personnel expenses as well as allowance for C/P - Other expenses 		

Project Design Matrix (PDM) (Ver.2)

Date: 3 April 2014

Project Name: The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD

Project Term: 2011 - 2015 (four years)

Target area (pilot provinces): North Sulawesi Province (Manado Municipality and other regencies/municipalities), West Nusa Tenggara Province (Mataram Municipality and other regencies/municipalities)

Target group: National Disaster Management Agency (BNPB); at least two Regional Disaster Management Agencies (BPBDs) of two provinces: North Sulawesi Province, West Nusa Tenggara Province; and the Regency/Municipality BPBDs in the target area (pilot provinces)

Modifications are underlined and in bold.

Narrative Summary	Verifiable Indicators	Means of Verification	Important Assumptions
<p><u>Overall Goal</u> The provincial BPBDs as well as the regency/municipality BPBDs beside the target areas are established, and the disaster management capacities of them are enhanced by using materials formulated and methodology established in the project.</p>	<p>The number of provinces as well as regencies/municipalities that apply the methodologies established in the Project for accumulating disaster data, creating hazard and risk maps, formulating regional disaster management plan and conducting disaster management <u>exercise</u>.</p>	<p>1. Interviews with the BNPB and BPBD staff</p>	<p>Disaster management framework by current disaster-related organizations as well as disaster-related policy in Indonesia remains unchanged.</p>
<p><u>Project Purpose</u> The disaster management capacities of BNPB, the provincial BPBDs, and the regency/municipality BPBDs in the target area are enhanced.</p>	<p>1. Number or Cases that Regional Disaster Management Plan (RDMP) formulated through the Project processed to approve by the local authority.</p> <p>2. Number of voluntary disaster management exercises conducted in the communities within the target area.</p>	<p>1. Province or Regency/municipality acknowledgements</p> <p>2. BNPB or BPBD reports, newspaper articles on these cases, or interviewing the community</p>	<p>BNBP extends its activities in the target area to other provincial BPBDs, regencies/municipalities outside the target areas.</p>
<p><u>Outputs</u></p> <p>1. The capacity for the regency/municipality BPBDs to accumulate disaster data/information which are fundamental for disaster risk management and improve accuracy of such data/information in the target area is enhanced.</p> <p>2. The capacity for creation of Hazard and risk maps at regency/municipality level in the target area is enhanced.</p> <p>3. The capacity for formulation of Regional disaster management plans for regency/municipality in the target area is enhanced.</p> <p>4. The capacity for conducting Disaster management exercises at the regency/municipality in the target area is enhanced.</p> <p>5. Nationwide dissemination activities are implemented.</p>	<p>1-1. Accumulation of disaster data items (Newly accumulated since there are no existing data) in the target area.</p> <p>1-2. Improvement of disaster data quality (By following the format, data are sufficiently accumulated) in the target area.</p> <p>2-1. Number of the regencies/municipalities where hazard and risk maps at regency/municipality level are created in the target area.</p> <p>3-1. Number of the regencies/municipalities where regional disaster management plans are formulated at regency/municipality level in the target area.</p> <p>4-1. Number of disaster management exercises implemented in the target area.</p> <p>4-2. Number of activities on CBDRM in the target area.</p> <p>5-1. Technical Guideline for formulation of RDMP is utilized as reference documents of BNPB</p> <p>5-2. Number of events to support nationwide dissemination activities on formulation of RDMP</p>	<p>1-1. Project reports</p> <p>1-2. Project reports</p> <p>2-1. Project reports</p> <p>3-1. Project reports</p> <p>4-1. Project reports</p> <p>4-2. Project reports</p> <p>5-1. Project reports</p> <p>5-2. Project reports</p>	

Narrative Summary	Verifiable Indicators	Means of Verification	Important Assumptions
<p>Activities</p> <p>1-1. To study contents of disaster data/information to be acquired and accumulated at a regional level (regency/municipality level) in the target area based on the lessons learned from the JICA Study, "The Study on Natural Disaster Management in Indonesia (the JICA Study)" in order to establish format for sharing disaster data</p> <p>1-2. To study necessary data items as well as data format to be shared and informed to the provincial BPBDs from the regency/municipality BPBDs in the target area, and informed to the BNPB from the provincial BPBDs in the target area in order to establish the methodology for accumulating necessary data</p> <p>1-3. To formulate “Technical guideline for acquiring and accumulating disaster data/information for regencies/municipalities”</p> <p>1-4. To acquire and accumulate disaster data/information in the in the 1st target area using the format developed through the Project</p> <p>1-5. To list the disaster data accumulated in the in the 1st target area into the disaster annual report</p> <p>2-1. To study and verify effectiveness of "the manual for creation of hazard and risk maps", developed through the JICA Study.</p> <p>2-2. To formulate “Technical guideline for creation of hazard maps for regencies/municipalities”</p> <p>2-3. To collect and clarify basic data including statistics, social data, data on natural conditions</p> <p>2-4. To create hazard and risk maps based on the data accumulated through Output 1 as well as basic data collected in Activity 2-3</p> <p>2-5. To plan disaster mitigation measures based on the hazard and risk maps created through Activity 2-4 as well as the lessons learned from the Regional Disaster Management Plan (RDMP) developed through the JICA Study</p> <p>3-1. To formulate “Technical guideline for formulation of regional disaster management plan for regencies/municipalities”.</p> <p>3-2. To study about revision of Standard Operation Procedure (SOP) used commonly by regency/municipality in order to prepare standard manual and formulate “Technical guideline for formulation of SOP for regencies/municipalities”</p> <p>3-3. To collect and clarify basic data including statistics, social data, data on natural conditions necessary for formulating RDMPs for the target area</p> <p>3-4. To formulate RDMPs and Regional Action Plans for Disaster Risk Reduction (DRR) for the target area</p> <p>3-5. To formulate or revise SOP in the 1st target area</p> <p>3-6. To revise the existing SOP according to emergency response plan of the RDMP formulated through the Activity 3-4 in the 1st target area</p> <p>3-7. To promote official appraisal by regency/municipality of RDMP formulated through Activity 3-4</p> <p>4-1. To study existing documents for implementation of disaster management exercises</p> <p>4-2. To formulate “Technical guideline for implementing disaster management exercises for regencies/municipalities”</p> <p>4-3. To implement disaster management exercises in the 1st target area together with national level organizations</p> <p>4-4. To revise “Technical guideline for implementing disaster management exercises for regencies/municipalities” as well as SOPs based on the result of the disaster management exercise if necessary</p> <p>4-5. To conduct activities on CBDRM to empower disaster management capacity utilizing output formulated through the Project</p> <p>5-1. To improve Technical guideline for formulation of RDMP to be utilized as reference document of BNPB</p> <p>5-2. To participate events hosted by BNPB to explain effective utilization of the Technical Guideline for formulation of RDMP</p> <p>5-3. To give input for formulation of disaster risk assessment technical guideline for regencies/municipalities</p> <p>5-4. To promote the methodology developed in Output 2 Activity 2.2 especially on Earthquake Hazard</p>	<p>Inputs</p> <p>(Indonesian side)</p> <p>1. Assignment of counterpart personnel (C/P)</p> <ul style="list-style-type: none"> - Project Director (P/D) from BNPB (Deputy Chief for Prevention and Preparedness) - Project Managers (P/Ms) from BNPB (Director for Disaster Risk Reduction, Director for Disaster Preparedness, Head of Data, Information and Public Relation Center, Director for Community Empowerment) - Project Coordinator (Administration) from BNPB (Director for Bureau for Laws and Cooperation) - Output 1: Team Leader (Deputy Chief of Disaster Information, Division of Information Center) and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces) - Output 2: Team Leader (Sub-director of Prevention) and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces) - Output 3: Team Leader (Sub-director of Mitigation/Sub-director of Prevention) and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces) Deputy Team Leader (Sub-director of Response Planning and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces) - Output 4: Team Leader (Sub-director of Resource Preparedness) and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces) Deputy Team Leader (Sub-director of Community Empowerment) and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces) <p>2. Provision of facility and equipment</p> <ul style="list-style-type: none"> - Project office space - Other expenses <p>3. Operation budget</p> <ul style="list-style-type: none"> - Personnel expenses as well as allowance for C/P - Expenditure to hold JCC and other events in Jakarta - Other expenses 	<p>(Japanese side)</p> <p>1. Dispatch of the Japanese experts</p> <ul style="list-style-type: none"> - Chief advisor/ Comprehensive disaster management - Regional disaster management planning (1) - Regional disaster management planning (2) - Disaster management institution and organization - Emergency response planning - Disaster information system - Disaster mitigation measures (flood, landslide, drought, destructive wind, forest fire) - Disaster mitigation measures (earthquake, tsunami, volcanic eruption) - Database/ GIS - Disaster management exercise (1) - Disaster management exercise (2) - Community based disaster risk management - Capacity Development - Coordinator/support of the expert in community based disaster risk management <p>2. Provision of equipment</p> <ul style="list-style-type: none"> - Training tools and materials - PC for preparing hazard and risk maps, printer, GIS software, plotter, satellite image, and IFSAR data <p>3. Counterpart training</p> <ul style="list-style-type: none"> - Necessary number of staff is trained in Japan once a year. The staff is selected from BNPB as well as the provincial and regency/municipality BPBDs in the target area. 	<p>(1) Trained staff continues to work for BNPB or BPBD.</p> <p>(2) Status of disaster management plan remains unchanged.</p> <p>(3) Relation among the relevant organizations remains unchanged.</p> <p>(4) Information is shared within the Project team sufficiently.</p> <p>Pre-conditions</p> <p>(1) Destructive disaster which may greatly affect to the smooth operation of the Project does not occur before the Project is completed.</p> <p>(2) Regular BNPB and BPBD officials are assigned to the Project under government order before the Project starts.</p>


Appendix 10
Record of JCC

Record of JCC

No.	Date	Participants	Contents of discussion
1.	2012/1/18	BNPB, BPBD in Pilot Province and Regency/Municipality, related government agencies, donors. NGOs, etc. Total: 33 participants.	<ol style="list-style-type: none"> 1. Approval of IC/R and Annual Plan 2. Holding JCC on “as necessary” basis 3. Coordination with other projects and donors 4. Importance of capacity development and expectations for C/P training in Japan 5. Participation of National Disaster Management Plan review 6. Project evaluation 7. Preparation of manuals 8. Selection of pilot area 9. Selection of C/P 10. Provision of office space
2.	2012/7/11	BNPB, BPBD in Pilot Province, related government agencies, donors, etc. Total: 26 participants.	<ol style="list-style-type: none"> 1. Agreement of implementation policy 2. Participation of BNPB staff for pilot activities 3. Target disaster 4. Frequency to hold JCC 5. C/P training in Japan 6. Second pilot province 7. Indicator of PDM (quantities indicator)
3.	2013/9/12	BNPB Major officers, midterm review mission, and other related agencies Total: 38 participants	<ol style="list-style-type: none"> 1. Progress of the activities in North Sulawesi 2. Outline of midterm review
4.	2014/4/3	BNPB Major officers, donors, and other related agencies Total: 44 participants	<ol style="list-style-type: none"> 1. Report of the progress in North Sulawesi Province 2. Modification of the activities in the second year 3. Approval of the second pilot province 4. Participation of the BNPB for the activities in West Nusa Tenggara Province 5. Modification of the PDM 6. Participation of the C/P Training
5.	2015/4/23	BNPB Major officers, terminal evaluation mission, and other related agencies Total: 40 participants	<ol style="list-style-type: none"> 1. Report of the activities and submission of the progress report 2. Report of terminal evaluation 3. Confirmation of the future schedule 4. Confirmation about the workshops during DM month
6.	2015/9/15	BNPB Major officers, donors, and other related agencies Total: 20 participant	<ol style="list-style-type: none"> 1. Report of the activities 2. Handover of equipment and technical guidelines 3. Knowledge co-creation program and DM month event

MINUTES OF MEETING
BETWEEN
JICA EXPERT TEAM
AND
NATIONAL AGENCY FOR DISASTER MANAGEMENT (BNPB)
OF THE REPUBLIC OF INDONESIA
ON
THE FIRST JOINT COORDINATION COMMITTEE
AND KICK OFF MEETING ON
JAPANESE TECHNICAL COOPERATION
FOR
THE PROJECT
FOR
ENHANCEMENT OF THE DISASTER MANAGEMENT CAPACITY
OF NATIONAL AGENCY FOR DISASTER MANAGEMENT (BNPB) AND
REGIONAL AGENCY FOR DISASTER MANAGEMENT (BPBD)
IN INDONESIA

JAKARTA, 30 JANUARY, 2012



Mr. Sugeng TRIUTOMO
Project Director / Deputy Chief for
Prevention and Preparedness
National Agency for Disaster Management
(BNPB)


for Mr. Ichiro KOBAYASHI
Chief Advisor / Comprehensive
Disaster Management
JICA Expert Team

Witness:



Mr. Tomoyuki TADA
Senior Representative
JICA Indonesia Office

Theme: The 1st Joint Coordination Committee (JCC) and Kick off Meeting of the project on the Inception Report

Date: 18 January, 2012

Time: 13:00~15:40

Place: Seruni Meeting Room, Millennium Hotel, Jl. Kebon Sirih - Jakarta

Participants: See attachment

Attachments: 1. Attendant List
2. Counterparts List

Joint Coordination Committee (hereinafter referred to as “JCC”) and Kick-off Meeting of the Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD in Indonesia was held on 18th of January, 2012 from 13:00 to 15:40, at Seruni Meeting Room of Millennium Hotel in Jakarta to explain, discuss and approve the Inception Report (hereinafter referred to as “IC/R”) and announced official commencement of the Project chaired by Mr. Sugeng Triutomo, Deputy Chief for Prevention and Preparedness, BNPB, and supported by Mr. Ryoji Takahashi representing JICA Expert Team. The JCC members and observers were invited and attended to the JCC.

JICA Expert Team submitted the IC/R of the Project to Indonesian side and explained the contents of the IC/R and the work plan as well as methodology to the Indonesian Side. Indonesian side and JICA Expert Team agreed that the IC/R was basically reflecting the contents agreed on Record of Discussions (hereinafter referred to as “R/D”) signed on July 11, 2011 and confirmed the master plan of the project as they were specified in the Project Design Matrix (hereinafter referred to as “PDM”).

The Indonesian side accepted the IC/R and following additional considerations are conveyed and several topics are confirmed in the JCC as mentioned below.

1. Joint Coordination Committee

The JCC is formulated to guide the smooth implementation of the Project, and to coordinate the organizations concerned under the initiative of BNPB and Provincial BPBD and Regency/Municipal BPBD in Pilot Areas. The member of JCC is based on the stated member in the R/D. BNPB emphasized to increase the number of JCC meetings as necessary and JICA Expert Team agreed to hold JCC meetings as needed considering progress of the Project.

2. Necessity of Coordination with other Projects

In the Disaster Management Field in Indonesia, there are many international organizations involved as the partners, so that it needs coordination among those organizations implementing similar activities. Therefore, BNPB needs to facilitate such coordination and during the course of the Project, coordination



efforts will be undertaken by the initiative of BNPB.

3. Importance of Capacity Development of BNPB and BPBD, and expectations from Counterparts Training in Japan

BNPB expressed importance of capacity development of BNPB and BPBD through implementation of the Project, and expected to utilize planned Counterpart Training in Japan efficiently, especially on methodology to carry out Risk Assessment and compile Hazard/Risk Maps accurately and promptly.

4. Participation to the review of National Disaster Management Plan

National Disaster Management Plan formulated in 2010 need to review every two years. Therefore, to continue support from former JICA Development Study completed in 2009, BNPB would like to invite JICA Expert Team to participate this review process together with other partners. And JICA Expert Team agreed to participate this review process.

5. Evaluation of the Project

In the course of the Project, evaluation of the Project will be carried out dispatching independent Evaluation Team from Japan and organize Joint Evaluation Team participating from both Indonesian and Japanese side to evaluate the Project. Midterm evaluation is scheduled to carried out in July 2013, and Terminal Evaluation in March 2015. BNPB emphasized that evaluation is very important so that would like to increase frequency of evaluation.

The joint evaluation by Japanese and Indonesian side will be planned flexibly in combination with progress monitoring and advisory to make the project implementation effective. Self evaluation will also be implemented through formulation of progress report.

6. Formulation of Manuals for implementation of the Project

In the course of the Project, six manuals will be formulated to support smooth implementation of the project. However, certain duration has passed for preparation of the project, so that situation of BNPB has drastically changed. As a result, some manuals are already prepared or under preparation by BNPB. Therefore, in this project, such manuals will be reviewed and updated from the existing manual as necessity arises.

7. Pilot Areas

The first Pilot Area is decided to North Sulawesi Province and the second Pilot Area is still tentative as Bali Province, due to recent establishment of BPBD in the Province. The second Pilot Area will be fixed before 2nd JCC scheduled in July, 2012.



8. Counterpart Personnel

In the Project supported by JICA, the necessary activities are implemented by Indonesian side with support of JICA Expert Team. In order to transfer the knowledge and work closely with the JICA Expert Team, Indonesian side agreed to assign numbers of counterparts for the implementation of the project. BNPB, Provincial BPBD and Regency/Municipal BPBD in Pilot Areas will submit the list of Counterparts to JICA Expert Team at the earliest convenience.

North Sulawesi Province BPBD and four Regency/Municipal BPBDs in North Sulawesi Province (Manado Municipality, Tomohon Municipality, North Minahasa Regency, Minahasa Regency) have already submitted the list of counterpart personals to JICA Expert Team.

9. Office Space for JICA Expert Team

Office space for JICA Expert Team was reserved in BNPB office in ITC Building as a main office, office setup shall be handled by JICA Expert Team such as furniture and partition. However, counterparts of JICA Expert Team mainly located in BNPB office in Tanah Abang, therefore small space for JICA Expert Team will be reserved if available.

For Office Space in Pilot Area, appropriate furnished space will be reserved for JICA Expert Team.

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**The 1st Joint Coordination Committee (JCC) and Kick -off Meeting
The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD**

Attendant List

Date : 18 January 2012
Time : 13.00 – 15.40 Wib
Venue : Millenium Hotel

No.	Name	Organization	Position
1	Mr. Sugeng Triutomo	BNPB	Deputy Chief for Prevention & Preparedness
2	Dr. Teddy W. Sudinda	BNPB	Director of Disaster Risk Reduction
3	Mr. B. Wisnu W	BNPB	Head of Education and Training Center
4	Mr. Anas L	BNPB	Head of Sub Unit for Mitigation of Georisk
5	Mr. Sigit Padmono	BNPB	Head of Sub Unit for The Role Civil Society Organization
6	Ms. Eny S.	BNPB	Head of Sub Unit for The Role of Community
7	Mr. Berton Panjaitan	BNPB	Division Chief
8	Mr. Hutomo	BNPB	Head of Unit for Data
9	Mr. Hermana	BNPB	Head of Unit for Curriculum & Organize of Education & Training Center
10	Mr. Medi H.	BNPB	Directorate of Community Development
11	Ms. Arie Astuti W	BNPB	
12	Mr. Mustaruddi	BNPB	
13	Mr. Hoyke Makarawung	BPBD of North Sulawesi	Head of BPBD
14	Mr. Wolter Rosang	BPBD of North Sulawesi	Head of Unit for Prevention and Preparedness
15	Ms. dr. Lilly Lengkong, M.Kes	BPBD of North Minahasa	Head of BPBD

Attachment 1 : Attendant List

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**The 1st Joint Coordination Committee (JCC) and Kick –off Meeting
The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD**

Attendant List

Date : 18 January 2012
Time : 13.00 – 15.40 Wib
Venue : Millenium Hotel

No.	Name	Organization	Position
31	Ms. Regina Rahadi	UNDP–BNPB	
32	Ms. Andreane Tampubolon	Indonesian Red Cross (PMI)	Head of Restoring Family Links Sub Division
33	Dr. Hitoshi BABA	JICA HQ	Senior Advisor
34	Mr. Yosuke OKITA	JICA Indonesia	Project Formulation Advisor
35	Mr. Yoshio TOKUNAGA	JICA Expert	Expert for BNPB
36	Ms. Rineke G.	JICA	Secretary for Mr. Tokunaga
37	Mr. Haryono H. Sirait	JICA	Assistant for Mr. Tokunaga
38	Mr. Ryoji Takahashi	JICA Expert Team	Deputy Chief Advisor
39	Mr. Kenichiro Kato	JICA Expert Team	Disaster Mitigation Measures
40	Mr. Katsu Kato	JICA Expert Team	Disaster Management Drill 2
41	Mr. Tandiono Chen	JICA Expert Team	Local Consultants
42	Mr. Andre Jaya	JICA Expert Team	Local Consultants
43	Ms. Marisa Mei Lin	JICA Expert Team	Local Consultants
44	Ms. Wenny A. Pamugi	JICA Expert Team	Secretary

Attachment 1 : Attendant List

A10-7

C/Ps from BNPB

Project for Enhancement of the Disaster Management Capacity for BNPB and BPBD

Position in the Project		Name	Position in BNPB	
Project Director		Mr. Sugeng Triutomo	Deputy Chief for Prevention and Preparedness	
Project Manager 1 for Output 2 and 3-1		Dr. Teddy W. Sudinda	Director for Disaster Risk Reduction	
Project Manager 2 for Output 3-2 and 4-1		Mr. B. Wisnu Widjaja	Head of Education and Training Center	
Project Manager 3 for Output 1 and 2		Dr. Sutopo Purwo Nugroho	Head of Data, Information and Public Relation Center	
Project Manager 4 for Output 4-2		TBN	Director for Community Empowerment	
Project Coordinator		Mr. R. Sugiharto	Director for Bureau of Laws and Cooperation	
Output 1	Disaster Data and Information	Team Leader for Output 1	TBN	Deputy Chief for Disaster Information, Division of Information
		Member 1	TBN	Staff of Division of Information Center
Output 2	Hazard and Risk Maps	Team Leader for Output 2	Mr. Anas Luthfi	Sub Director for Prevention
		Member 2	TBN	Staff of Division of Prevention
Output 3	Regional Disaster Management Plan, and Action Plan	Deputy Team Leader 1	Mr. Anas Luthfi	Head of Sub Directorate for Mitigation
		Member 3-1	TBN	Staff of Division of Mitigation
	Contingency Plan and SOP	Deputy Team Leader 2	TBN	Sub Director for Response Planning
		Member 3-2	TBN	Staff of Division of Response Planning
Output 4	Disaster Management Drill and Exercise	Team Leader for Output 4-1	TBN	Sub Director for Resource Preparedness
		Member 4-1-1	TBN	Staff of Division of Resource Preparedness
	Community-based Disaster Risk Management	Team Leader for Output 4-2	TBN	Sub Director for Community Empowerment
		Member 4-2	TBN	Staff of Division of Community Empowerment

Attachment 2: Counterparts List

A10-8

As of 18 January, 2012

C/Ps from North Sulawesi Province BPBD

Position in the Project		Name	Position in BPBD	
Province Team Leader		Ir. Hoyke Makarawung	Head of BPBD	
Coordinator		Wolter Rosang	Head of Unit for Prevention & Preparedness	
Output 1	Disaster Data and Information	Member 1	Jonathan Pandegiroth	Staff of Emergency Response Sub-Division
		Member 2	Dery Unso	Staff of Prevention and Preparedness Sub-Div
Output 2	Hazard and Risk Maps	Member 1	Yoktan Sudamara	Staff of Rehab-Recon Sub-Div
		Member 2	Steven Posumah	Staff of Pre-Disaster Sub-Div
Output 3	Regional Disaster Management Plan, and Action Plan	Member 1	Mus Tinangon	Head of Pre-Disaster Sub-Div
		Member 2	Arlene Rumondor	Quick response team
	Contingency Plan and SOP	Member 3	Christian Laotongan	Head of Emergency Response Sub-Division
		Member 4	Jimmy Mokolensang	Head of PUSDALOPS
Output 4	Disaster Management Drill and Exercise	Member 1	Christian Laotongan	Head of Emergency Response Sub-Division
		Member 2	Jimmy Mokolensang	Head of PUSDALOPS
	Community-based Disaster Risk Management	Member 3	Selvi Lomboan	Head of Community Health Sub-Div
		Member 4	Evie Palandeng	Staff of Community Empowerment Sub-Div
		Member 5	Joklin Kumokong	Staff of Community Empowerment Sub-Div

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Attachment 2: Counterparts List

As of 25 January, 2012

Attachment 2: Counterparts List


C/Ps from Kabupaten and Kota BPBD in North Sulawesi Province

Name of Kab/Kota	Position in the Project		Name	Position in BPBD	
Kota Manado	Team Leader		Boy A. Naray, ST	Head of BPBD Kota Manado	
	Coordinator		Drs. Yosep Tengor	To be specified	
	Output 1	Disaster Data and Information	Member 1	Jefri Panambunan, ST	ditto
			Member 2	Stenly Kinsale, ST	ditto
			Member 3	Rukmawati	ditto
	Output 2	Hazard and Risk Maps	Member 1	Zigma Waani, ST	ditto
			Member 2	Yulin Bawole, ST	ditto
			Member 3	Georgie Pesolima, ST	ditto
	Output 3	Regional Disaster Management Plan, and Action Plan	Member 1	Fidelwan Buulolo	ditto
			Member 2	Steven Rumambi, SE	ditto
			Member 3	Arman Buchari	ditto
		Contingency Plan and SOP	Member 4	Daniel Andree, A.Md	ditto
			Member 5	Budi Yasin, ST	ditto
	Output 4	Disaster Management Drill and Exercise	Member 1	Fence Salindeho, SE	ditto
			Member 2	Arda Prariyadi, SH	ditto
		Community-based Disaster Risk Management	Member 3	Johan Theo Supit	ditto
Member 4			Yuming Singal	ditto	
Member 5			Ronald Mumu, A.Md	ditto	
Member 6			Yul Bajodo, A.Md	ditto	
Kota Tomohon	Team Leader		Ir. Royke Roeroe	Head of BPBD Kota Tomohon	
	Coordinator		Drs. Paulus Roring	Secretary of BPBD	
	Output 1	Disaster Data and Information	Member 1	Ronald Goni, SH	Staff
			Member 2	Jeffry Raming	Staff
	Output 2	Hazard and Risk Maps	Member 1	Metsi Tangkuman, ST	Staff
			Member 2	Fando Maukar, Amd. T.	Staff
	Output 3	Regional Disaster Management Plan, and Action Plan	Member 1	Willem Runtukahu	Head of Unit for Prevention and Preparedness (K)
			Member 2	Franny Tulung, MT	Head of Unit for Rehabilitation & Reconstruction
			Member 3	Ariston W. Tambengi, SE	Head of sub Unit for Planning
		Contingency Plan and SOP	Member 4	Drs. Melki Rumat, Msi	Head of Unit for Emeegency Response and Logis
			Member 5	Darius Senduk, SE	Head of sub Unit for Emergency Response
			Member 6	Henky Lenzun	Head of sub Unit for Prevention
	Output 4	Disaster Management Drill and Exercise	Member 1	Jima Kaparang, ST	Head of sub Unit for Reconstruction
			Member 2	Agus Rumenser, S.Sos	Head of Fire Departement (UPTB)
		Community-based Disaster Risk Management	Member 3	Richard Pangalla	Staff
			Member 4	Stella Langitan	Staff
Kabupaten Minahasa Utara	Team Leader		Dr. Lilly Lengkong, M.Kes.	Head of BPBD Kabupaten Minahasa Utara	
	Coordinator		TBN	Secretary of BPBD	
	Output 1	Disaster Data and Information	Member 1	TBN	Head of Unit for Rehabilitation & Reconstruction
			Member 2	TBN	Head of Section for Logistic & Evacuate Handling
	Output 2	Hazard and Risk Maps	Member 1	TBN	Head of Section for Emergency Respond
			Member 2	TBN	Head of Section for Pre-Disaster
	Output 3	Regional Disaster Management Plan, and Action Plan	Member 1	TBN	Head of Unit for Emergency Handling
			Member 2	TBN	Head of Section for Pre-Disaster
		Contingency Plan and SOP	Member 3	TBN	Head of Unit for Prevention and Preparedness
			Member 4	TBN	Head of Planning
	Output 4	Disaster Management Drill and Exercise	Member 1	TBN	Head of Section for Rehabilitation
			Member 2	TBN	Head of Section for Reconstruction
		Community-based Disaster Risk Management	Member 3	TBN	Head of Section for Community Empowerment
			Member 4	TBN	Staff

AS of 27 January, 2012

MINUTES OF MEETING
BETWEEN
JICA EXPERT TEAM
AND
NATIONAL AGENCY FOR DISASTER MANAGEMENT (BNPB)
OF THE REPUBLIC OF INDONESIA
ON
THE SECOND JOINT COORDINATION COMMITTEE
ON
JAPANESE TECHNICAL COOPERATION
FOR
THE PROJECT
FOR
ENHANCEMENT OF THE DISASTER MANAGEMENT CAPACITY
OF NATIONAL AGENCY FOR DISASTER MANAGEMENT (BNPB) AND
REGIONAL AGENCY FOR DISASTER MANAGEMENT (BPBD)
IN INDONESIA

JAKARTA, 11 JULY, 2012



Mr. Sugeng TRIUTOMO
Project Director / Deputy Chief for
Prevention and Preparedness
National Agency for Disaster Management
(BNPB)



Mr. Ichiro KOBAYASHI
Chief Advisor / Comprehensive
Disaster Management
JICA Expert Team

Witness:



Mr. Tomoyuki TADA
Senior Representative
JICA Indonesia Office

Theme: The 2nd Joint Coordination Committee (JCC) on implementation policy of activities in Pilot Provinces
Date: 11 July, 2012
Time: 13:00~17:00
Place: Millennium Hotel, Jl. Kebon Sirih - Jakarta
Participants: See attachment
Attachments: 1. Attendant List

In the occasion of finalizing activities in Jakarta between BNPB and JICA Expert Team, 2nd Joint Coordination Committee (hereinafter referred to as "JCC") Meeting of the Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD in Indonesia was held on 11th of July, 2012 from 13:00 to 17:00, at Millennium Hotel in Jakarta to explain, discuss and approve implementation policies of each output of the Project chaired by Mr. Sugeng Triutomo, Deputy Chief for Prevention and Preparedness, BNPB, and supported by Mr. Ryoji Takahashi representing JICA Expert Team. The JCC members and observers were invited and attended to the JCC.

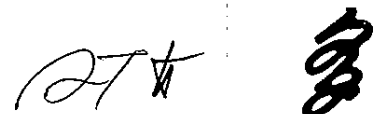
In the 2nd JCC, BNPB Project Managers with JICA Expert Team explained to the participants the implementation policies for each output and discussed on the policies, and several topics are confirmed in the JCC as mentioned below.

1. Implementation Policies

Certain time has passed since designing of the Project, and due to efforts of BNPB, guidelines and manuals on activities closely related to each output of the project has been formulated by themselves, however, the original project activities were to formulate each manual newly, utilizing the past study results implemented by BNPB and JICA. As a result, guidelines and manuals are already available and, therefore, there is necessity to utilize existing guidelines prepared by BNPB. In consideration of the situation, BNPB and JICA Expert Team held number of workshops and discussions for each output, as a conclusion, both side agreed to give inputs to existing regulation, and prepare additional appendix or separate practical manuals to be able to use by officials of BPBD in Kabupaten/Kota. No objections are raised from the participants, and the implementation policies of each output was confirmed and approved by JCC members.

2. Participation of BNPB to activities in Pilot Provinces

Project implementation in 1st Pilot Province of North Sulawesi will start from September 2012, and intensive activities mainly by the form of Workshops will be held for each output, and these activities will be implemented together with Provincial BPBD and all Kabupaten/Kota in Pilot Provinces. In order to understand the activities for better coordination in disaster management among all level of governments,



namely national, provincial, and Kabupaten/Kota, BNPB agreed to participate to main events held in Pilot Provinces. JICA Expert Team informs schedule of Workshops in Pilot Provinces to BNPB accordingly.

3. Target Disasters

In the meeting, target disasters for the project were discussed. BNPB requested to include Banjir Bandan (Flash Flood) as an additional disaster to be included in the project by utilizing result of PU JICA Project, and due to increase of target disaster and its specialty of the field, both sides realized that additional experts need to be assigned. JICA Expert Team replied to BNPB to convey this request to JICA HQ for further consideration.

4. JCC Meetings

In order to share the progress of the project, BNPB requested to hold JCC preferably twice a year. JICA Expert Team replied to BNPB to convey this request to JICA HQ for further consideration.

5. Counterpart Training in Japan

Counterpart training in Japan will be held from 25 August 2012 to 9 September 2012. BNPB will send a nomination letter with A2A3 Form of all candidates for this counterpart training at the earliest convenience.

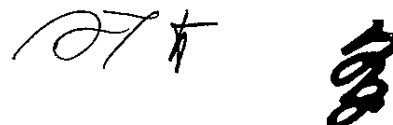
6. 2nd Pilot Province

BNPB requested JICA Expert Team to change the location of 2nd Pilot Province from Bali Province to West Nusa Tenggara Province. BNPB will send a letter to JICA Indonesia Office for their consideration. 2nd Pilot Province will be fixed at 3rd JCC.

7. Verifiable Indicators

Specific number of Verifiable Indicators in Project Design Matrix will be discussed and fixed considering progress of activities in the 1st Pilot Province and will be approved at 3rd JCC.

End of the Document

Two handwritten signatures in black ink are located at the bottom right of the page. The first signature is a stylized, cursive name, and the second is a more complex, multi-stroke signature.



**The 2nd Joint Coordination Committee (JCC)
The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD
in Indonesia**



Attendant List

Date : 11th July 2012
Time : 13.00 – 17.00 Wib
Venue : Millenium Hotel, Jakarta

No.	Name	Organization	Position	E-mail	HP or Tel
1	Mr. Sugeng Triutomo	B N P B	Deputy of Prevention & Preparedness		
2	Mr. Medi H.	B N P B	Directorate of Community Development		
3	Mr. Teddy W. Sudinda	B N P B	Director of Disaster Risk Reduction		
4	Mr. B. Wisnu W	B N P B	Head of Education and Training Center		
5	Mr. Anas L	B N P B	Head of Sub Unit for Mitigation of Georisk		
6	Mr. Yus Rizal	B N P B	Directorate of Disaster Risk Reduction		
7	Ms. Linawaty	B N P B	Directorate of Disaster Risk Reduction		
8	Ms. Rucky	B N P B	Head of Needs & Resources Potential Section		
9	Mr. Edy S.P	B N P B	Head of Sub Unit for PLU		
10	Ms. Meilina W	B N P B	Staff of Directorate of Prevention & Preparedness		

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**The 2nd Joint Coordination Committee (JCC)
The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD
in Indonesia**



Attendant List

Date : 11th July 2012
Time : 13.00 – 17.00 Wib
Venue : Millenium Hotel, Jakarta

No.	Name	Organization	Position	E-mail	HP or Tel
11	Mr. Firza Ghozalbi	B N P B	Head of Section for Structural Mitigation		
12	Ms. Gita Yulianti S.	B N P B	Staff of Directorate of Disaster Risk Reduction		
13	Ms. Arie Astuti W.	B N P B	Staff of Directorate of Disaster Risk Reduction		
14	Mr. Mohd Robi Amri	B N P B	Head of Section for Disaster Risk Assessment		
15	Mr. P. Cahyo Nugroho	B N P B	Staff of Directorate of Disaster Risk Reduction		
16	Ferry Irawan	B N P B	Staff of Directorate of Prevention and Preparedness		
17	Ms. Ageng NI	B N P B	Staff of Directorate of Disaster Risk Reduction		
18	Ms. Mita Rosalita	B N P B	Staff of Directorate of Disaster Risk Reduction		
19	Mr. Melady Sarundah	B N P B	Staff		
20	Mr. Ronny Sambuaga	B P B D	Secretary of North Sulawesi BPBD		

A10-15



**The 2nd Joint Coordination Committee (JCC)
The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD
in Indonesia**



Attendant List

Date : 11th July 2012
Time : 13.00 – 17.00 Wib
Venue : Millenium Hotel, Jakarta

No.	Name	Organization	Position	E-mail	HP or Tel
21	Mr. Christian Laotongan	B P B D	Head of Sub Unit for Emergency Response, North Sulawesi BPBD		
22	Mr. Kazushi Furumoto	Embassy of Japan	Secretary		
23	Mr. M. Nur Nasiruddin	Ministry of Health	Head of Unit for PPKK		
24	Mr. Purnomo Laksito	Ministry of Home Affairs	Head of Section for Development of Information & Technology		
25	Mr. Jeong Park	AUSAID	DM Advisor		
26	Ms. Chandra Seokarno	BGR/Georisk	Liaison Officer		
27	Mr. Hideki Katayama	JICA Indonesia	Disaster Management Advisor		
28	Mr. Tokunaga	JICA	Expert for BNPB		
29	Ms. Noviyanti E.K	JICA			
30	Mr. Ryoji Takahashi	JICA Expert Team	Deputy Chief Advisor		

A10-16

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**The 2nd Joint Coordination Committee (JCC)
The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD
in Indonesia**



Attendant List

Date : 11th July 2012
Time : 13.00 – 17.00 Wib
Venue : Millenium Hotel, Jakarta

No.	Name	Organization	Position	E-mail	HP or Tel
31	Mr. Noboru Ikenishi	JICA Expert Team	Disaster Management Institution and Organization		
32	Mr. Kiyotaka Owada	JICA Expert Team	Emergency Response Planning		
33	Mr. Makoto Ikeda	JICA Expert Team	Disaster Information System		
34	Mr. Sugio Imamura	JICA Expert Team	Disaster Mitigation Measures		
35	Mr. Akihiro Furuta	JICA Expert Team	Database/GIS		
36	Mr. Yuichi Nakamura	JICA Expert Team	Disaster Management Drill 1		
37	Mr. Katsu Kato	JICA Expert Team	Disaster Management Drill 2		
38	Ms. Yoko Ota	JICA Expert Team	Coordinator		
39	Mr. Andre Jaya	JICA Expert Team	Local Consultant for Output 1 & 3		
40	Ms. Marisa Mei	JICA Expert Team	Local Consultant for Output 2		

A10-17



The 2nd Joint Coordination Committee (JCC)
The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD
in Indonesia



Attendant List

Date : 11th July 2012
Time : 13.00 – 17.00 Wib
Venue : Millenium Hotel, Jakarta

No.	Name	Organization	Position	E-mail	HP or Tel
41	Mr. Tandiono Chen	JICA Expert Team	Local Consultant for Output 3		
42	Ms. Risye Dwiyani	JICA Expert Team	Local Consultant for Output 4.1		
43	Mr. Mujiburrahman	JICA Expert Team	Local Consultant for Output 4.2		
44	Ms. Wenny A. Pamuji	JICA Expert Team	Secretary		
45					
46					
47					
48					
49					
50					

A10-18

MINUTES OF MEETING
BETWEEN
JICA EXPERT TEAM
AND
NATIONAL AGENCY FOR DISASTER MANAGEMENT (BNPB)
OF THE REPUBLIC OF INDONESIA
ON
THE SECOND JOINT COORDINATION COMMITTEE
ON
JAPANESE TECHNICAL COOPERATION
FOR
THE PROJECT
FOR
ENHANCEMENT OF THE DISASTER MANAGEMENT CAPACITY
OF NATIONAL AGENCY FOR DISASTER MANAGEMENT (BNPB) AND
REGIONAL AGENCY FOR DISASTER MANAGEMENT (BPBD)
IN INDONESIA

JAKARTA, 12 SEPTEMBER, 2013



Mr. Dody RUSWANDI
Project Director / Deputy Chief for
Prevention and Preparedness
National Agency for Disaster Management
(BNPB)



Mr. Ichiro KOBAYASHI
Chief Advisor / Comprehensive
Disaster Management
JICA Expert Team

Witness:



Mr. Yuki ARATSU
Senior Representative
JICA Indonesia Office

Theme: The 3rd Joint Coordination Committee (JCC) on progress report of activities in Pilot Provinces and report of Mid-term Review
Date: September 12, 2013
Time: 9:00~12:00
Place: Millennium Hotel, Jl. Kebon Sirih - Jakarta
Participants: See attachment
Attachments: 1. Attendant List

In the occasion of accepting Mid-term Review Team from JICA Headquarter, the 3rd Joint Coordination Committee (hereinafter referred to as "JCC") Meeting of the Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD in Indonesia was held on 12th of September, 2013 from 9:00 to 13:00, at Millennium Hotel in Jakarta to explain, discuss and approve progress of each output chaired by Mr. Dody RUSWANDI, Deputy Chief for Prevention and Preparedness, BNPB and supported by Mr. Ichiro KOBAYASHI representing JICA Expert Team. Result of Mid-term Review of the Project was reported in the JCC. The JCC members and observers were invited and attended to the JCC. Topics confirmed in the JCC were as mentioned below. (Attachment: Attendance List)

1. Progress of each Output

Mr. Ryoji TAKAHASHI, Deputy Chief Advisor of the Project presented the progress of each Output of the project in the first pilot province, North Sulawesi Province. Indonesian side noted the progress of the project activities and confirmed further cooperation and involvement of the activities.

2. Report of Mid-term Review

Mr. Hiroyuki OKUDA, Evaluation and Analysis consultant of the Mid-term Review Team reported the result of the Mid-term review based on the five evaluation criteria and Mr. Masafumi NAGAISHI, Leader of the Mid-term Review Team commented the conclusion and recommendation for the future project implementation based on the result of Mid-term Review. Followed by the presentation, Head of BPBD North Sulawesi Province, Bitung, Sitaro, and Tomohon regencies/municipalities shared good practices of the pilot activities.

Indonesian Side and Mid-term Review Team agreed upon the Minutes of Meeting of Mid-term Evaluation and the Mid-term Evaluation Report.

3. Replacement of the Project Director and Project Manager

In the meeting, JICA Expert Team and Indonesian Counterpart members confirmed that Project Director of the Project, Mr. Sugeng TRIUTOMO was replaced by Mr. Dody RUSWANDI. Project Manager 1 of the Project, Dr. Teddy SUDINDA was replaced by Mr. Lilik KURNIAWAN.



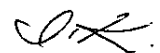
4. 2nd Pilot Province

BNPB informed JICA Expert Team to nominate 2nd Pilot Province as West Nusa Tenggara Province as of May 17th 2013. JICA Expert Team responded the letter and confirmed further communication to implement 2nd pilot project activities as of May 29th 2013.

5. Next JCC Meeting

In order to share the progress of the project and discuss the revision of PDM based on the result of Mid-term Review, BNPB and JICA Expert Team agreed to hold 4th JCC in the beginning of the second half of the Project.

End of the Document



**The 3rd Joint Coordination Committee (JCC)
The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD**

Attendant List

Date : 12 September 2013

Time : 09:00 -12:00

Venue : Millennium Hotel

No.	Name	Organization	E-mail	HP or Tel
1.	Mr. Dody Ruswandi	BNPB		
2.	Mr. Medi Herliyanto	BNPB		
3.	Ms. Yayan Apriyani	BNPB		
4.	Ms. Karina Reza Wardhani	BNPB		
5.	Mr. Umar Rahmat	BNPB		
6.	Mr. Sanusi	BNPB		
7.	Mr. Anas L	BNPB		
8.	Mr. Danar Widhiyani SW	BNPB		
9.	Ms.Elin Linawati	BNPB		
10.	Mr. Sigit Padmono	D1 - BNPB		
11.	Mr. Arifin Roha	D1 - BNPB		
12.	Mr. Bambang Prasetyo	D2 - BNPB		
13.	Mr. Meiladya Armidu H	HKKS BNPB		
14.	Mr. Hoyke Makarawung	BPBD of North Sulawesi		
15.	Mr. Eddy J. Turang	BPBD of Tomohon		

**The 3rd Joint Coordination Committee (JCC)
The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD**

Attendant List

Date : 12 September 2013

Time : 09:00 -12:00

Venue : Millennium Hotel

16.	Mr. Herry Lano	BPBD of Sitaro	
17.	Mr. Jeffry Wowiling	BPBD of Bitung	
18.	Mr. Fresly W. Panjaitan	Tata Ruang PU	
19.	Mr. Augs Solihin	Badan Geologi	
20.	Mr. Lukman S	Ristek	
21.	Mr. Kazushi Furumoto	Embassy of Japan	
22.	Mr. Nagaishi Masafumi	JICA HQ	
23.	Mr. Otsuki Eiji	JICA HQ	
24.	Dr. Hitoshi BABA	JICA HQ	
25.	Ms. Junko Mimaki	JICA HQ	
26.	Mr. Yoshio Tokunaga	JICA Expert	
27.	Mr. Hideki Katayama	JICA Indonesia	
28.	Mr. Hiroyuki Okuda	Evaluation Mission	
29.	Mr. Ichiro Kobayashi	JICA Expert Team	
30.	Mr. Ryoji Takahashi	JICA Expert Team	
31.	Ms. Yoko Ota	JICA Expert Team	

**The 3rd Joint Coordination Committee (JCC)
The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD**

Attendant List

Date : 12 September 2013

Time : 09:00 -12:00


Venue : Millennium Hotel

32.	Ms. Marisa Mei Ling	JICA Expert Team	
33.	Mr. Tandiono	JICA Expert Team	
34.	Mr. Haryono Hansen	JICA Expert Staff	
35.	Ms. Noviyanti Kaparang	JICA Expert Staff	
36.	Mr. Muhammad Dennis	Batas	
37.	Mr. Jeong PARK	AusAID	
38.	Mr. Dandi	AIFDR	

MINUTES OF MEETING
BETWEEN
JICA EXPERT TEAM
AND
NATIONAL AGENCY FOR DISASTER MANAGEMENT (BNPB)
OF THE REPUBLIC OF INDONESIA
ON
THE FOURTH JOINT COORDINATION COMMITTEE
ON
JAPANESE TECHNICAL COOPERATION
FOR
THE PROJECT
FOR
ENHANCEMENT OF THE DISASTER MANAGEMENT CAPACITY
OF NATIONAL AGENCY FOR DISASTER MANAGEMENT (BNPB) AND
REGIONAL AGENCY FOR DISASTER MANAGEMENT (BPBD)
IN INDONESIA

JAKARTA, 3 APRIL, 2014

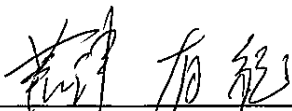


Mr. Dody RUSWANDI 
Project Director / Deputy Chief for
Prevention and Preparedness
National Agency for Disaster Management
(BNPB)



Mr. Ichiro KOBAYASHI
Chief Advisor /Comprehensive
Disaster Management
JICA Expert Team

Witness:



Mr. Yuki ARATSU
Senior Representative
JICA Indonesia Office

Theme: The 4th Joint Coordination Committee (JCC) on progress report of activities in Target Area and Approval of Implementation Policy of 2nd Year Activities.

Date: April 3, 2014

Time: 13:00~16:00

Place: Millennium Hotel, Jl. Kebon Sirih - Jakarta

Participants: See attachment

Attachments: 1. Attendant List
2. Comparison of Changes for the 2nd year Implementation Policy
3. Project Design Matrix (Ver.2)
4. Plan of Operation (Ver. 2)

The 4th Joint Coordination Committee (hereinafter referred to as "JCC") Meeting of the Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD in Indonesia was held on 3rd of April, 2014 from 13:00 to 16:00, at Millennium Hotel in Jakarta to explain, discuss and approve the progress of each output and approval of implementation policy of 2nd year activities chaired by Mr. B. Wisnu Widjaja, Deputy Chief for Rehabilitation and Reconstruction, BNPB and supported by Mr. Ryoji Takahashi representing JICA Expert Team. Result of the activities in North Sulawesi Province was reported in the JCC. JICA Expert Team explained future implementation policies of 2nd year activities in second pilot province as well as support for nationwide dissemination activities, and suggested modification of Project Design Matrix of the Project. Topics confirmed in the JCC were as mentioned below.

1. Report on the Result of Activities in North Sulawesi Province

Mr. Ryoji TAKAHASHI, Deputy Chief Advisor of the Project explained the result of project activities in the first target area, North Sulawesi Province. Wrap-up Workshop was held on 27 March, 2014 in Manado, North Sulawesi participated by Mr. Lilik Kurniawan, Director of Disaster Risk Reduction, BNPB, Mr. Edwin Silangen, Assistant I for Government and People's Welfare, Secretariat of North Sulawesi Province, and project activities were completed successfully. Indonesian side noted the result of the project activities and confirmed necessity of further cooperation by following up of the activities especially on formulation of RDMP to encourage incomplete Municipalities/Regencies to be completed during the activities in 2nd target area. Also lessons learnt and good practices acquired during the activities in North Sulawesi were shared among participants.

In addition, Bitung Municipality presented a letter of appreciation in the name of Mayer, Vice Mayor, and Secretary to JICA Expert Team to express their appreciation for the project which greatly contributed to enhance their Disaster Management Capacity of BPBP officials through its implementation of the project in North Sulawesi Province.



2. Modification of Implementation Policy in the 2nd Year Activities

In order to implement the second half of the project effectively, both Japanese side and Indonesian side has been discussing on the implementation policy in the 2nd year activities. In order to achieve the project purpose as well as overall goal, both side agreed to modify implementation policy as follows.

- 1) In the second target area, West Nusa Tenggara Province (hereinafter referred to as “NTB”), the Project activities shall be concentrated on Output 2 (Hazard and Risk Mapping), Output 3-1 (Regional Disaster Management Planning) and Output 4-2 (CBDRM Activities), and try to mature the contents through the activities in NTB in order for JICA Expert Team to concentrate resource available.
- 2) Supports for nationwide dissemination especially on Output 2 and Output 3.1 shall be added as Output 5 (Nationwide dissemination activities). In detail, for Output 2, JICA Expert Team will give input to Technical Guideline for Risk Assessment for Municipalities/Regencies under formulation by BNPB at present, and promote the methodology to create Earthquake Hazard Map developed in the project. And for Output 3.1, the Team together with BNPB will finalize “Technical Guideline for formulation of RDMP for Municipalities/Regencies” to be able to utilize in all Municipalities/Regencies in Indonesia as reference document. Also the Team will participate and give presentations at events hosted by BNPB to explain effective utilization of the “Technical Guideline of RDMP” to officials of Municipalities/Regency BPBDs.

3. Approval of 2nd Target Area

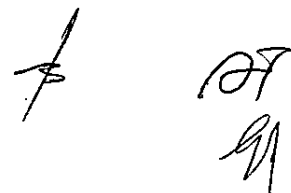
BNPB informed JICA Expert Team to nominate 2nd Target Area as West Nusa Tenggara Province as of May 17th 2013. JICA Expert Team responded by the letter with confirmation of JICA HQ to implement 2nd target area activities in on May 29th 2013. Both side officially confirmed the 2nd target area as West Nusa Tenggara Province in this 4th JCC meeting and JICA Expert Team will start the activities in NTB from April 2014.

4. Participation of BNPB to activities in NTB

Project implementation in 2nd Pilot Province of West Nusa Tenggara will start from June 2014, and intensive activities mainly by the form of Workshops will be held regularly for each output together with Provincial BPBD and all Kabupaten/Kota in NTB. In order to enhance capacity of young officials of BNPB, BNPB agreed to dispatch young officials to each Workshop as many times as possible. JICA Expert Team will inform schedule of Workshops in NTB in advance to BNPB. Budget for participating the Workshops in NTB shall be covered by BNPB. In addition, JICA Expert Team will visit BNPB and hold meetings with BNPB to share the progress of activities in NTB.

5. Modification of Project Design Matrix

JICA Expert Team proposed the modification of Project Design Matrix of the Project based on the

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above mentioned modification of the implementation policy and change of the 2nd Target Area. Both Indonesian side and Japanese side agreed to its modification.

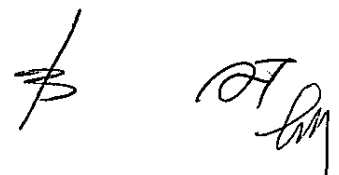
6. Selection of the candidates of counterpart training in Japan

The Project is planning to implement counterpart training in Japan from the middle of August 2014 for about 2 weeks. JICA Expert Team requested BNPB to select the maximum five candidates from BNPB, three candidates from BPBD NTB, and one candidate each from each Municipality/Regency in NTB. BNPB noted the request, and start to select the candidates and necessary procedures.

7. Next JCC Meeting

Next JCC Meeting will be held in the end of terminal evaluation for reporting the result of terminal evaluation in April 2015(tentative).

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**The 4th Joint Coordination Committee (JCC)
The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD**

Attendant List

Date : April 3rd, 2014
Time : 12:00 – 16:00
Venue : Millenium Hotel

NO.	NAME	ORGANIZATION	EMAIL	PHONE NUMBER
1	Wisnu Widjaja	BNPB		
2	Lilik Kurniawan	BNPB		
3	Sugeng Triutomo	BNPB		
4	Eny Supartini	BNPB		
5	Ridwan Yunus	BNPB/UNDP		
6	Mita Rosalita	BNPB		
7	Yus Rizal	BNPB		
8	Arie Astuti Wulandari	BNPB		
9	Gita Yulianti	BNPB		
10	Ageng N.I	BNPB		
11	Noldy Liow	BPBD Provinsi Sulawesi Utara		
12	Jeffry Wowiling	BPBD Kota Bitung		
13	Agus Wibowo	Pusdatinmas BNPB		
14	Bob Wuaten	BPBD Sitaro		
15	Roy Laheba	BPBD Sitaro		
16	Thaleb Abdullah	BPBD Kabupaten Sumbawa Barat		
17	Werdha Magma Ardhi	BPBD Provinsi NTN		
18	H.M. Kemal Islam	BPBD Kota Mataram		
19	Jeong Park	Australian Embassy		

Attachment 1

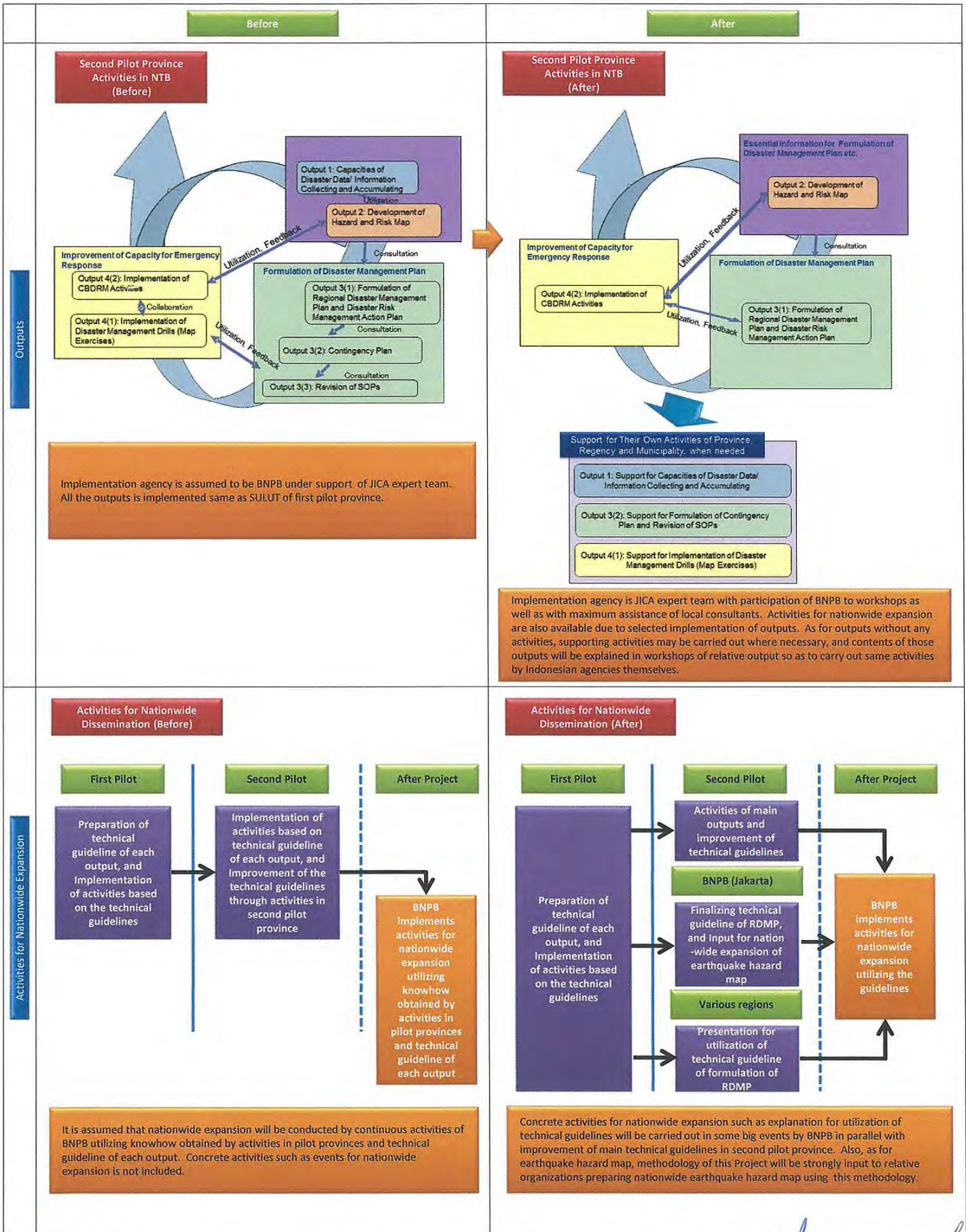
20	Linda Rupidara	DG ECHO
21	Vike L. Madunde, Se.	PPKK – Kemenkes RI
22	Dr. Caesa Rizkha F.H.	PPKK – Kemenkes RI
23	Isman Justanto	BPPT
24	Supriyati Andreastuti	PVMBG -- BG
25	Ridwan	PMI
26	Tessie K	DJPR, Dirtaruwilnas, PU
27	Hari Khadarusno	DJPR, Dirtaruwilnas, PU
28	Rara Danerek	Zerorisk Magazine
29	Furumoto Shirakawa	Embassy of Japan in Indonesia
30	Yoshio Tokunaga	JICA Expert in BNPB
31	Haryono Hansen	Assistant of JICA Expert
32	Ryoji Takahashi	JICA Project Team
33	Kenji Morita	JICA Project Team
34	Sugio Imamura	JICA Project Team
35	Kiyotaka Owada	JICA Project Team
36	Miki Kodama	JICA Project Team
37	Akihiro Furuta	JICA Project Team
38	Makoto Ikeda	JICA Project Team
39	Kato Katsu	JICA Project Team
40	Yoko Ota	JICA Project Team
41	Tandiono	JICA Project Team
42	Marisa Mei	JICA Project Team
43	Mujiburrahman	JICA Project Team
44	Andre Jaya	JICA Project Team



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Comparison of Changes for the 2nd Year Implementation Policy (1/2)



Comparison of Changes for the 2nd Year Implementation Policy (2/2)

	Before	After																																														
Follow-up Activities in SULUT	<p>Follow-up Activities (Before: Nothing)</p> <p>Activities in SULUT is completed until March, 2014. (Kab/Kotas of which RDMP and others are unfinished will continue activities by themselves using technical guidelines and knowhow obtained by CD)</p> <p>Note: In PDM, indicator for output 3-1 of formulation of RDMP is number of Kab/Kotas of which RDMPs are formulated. Main objective is capacity development through activities of formulation of RDMP and completion of RDMP in all Kab/Kota is not objective of this Project although activities are carried out targeting all the Kab/Kotas. (This is because progress of each Kab/Kota may be different depending on their capacity.</p>	<p>Follow-up Activities (After: Addition)</p> <p>After wrap-up workshop in March, 2014, follow-up activities for Kab/Kotas of which RDMP and others are unfinished will be carried out to complete plans in all of Kab/Kotas in parallel with activities in NTB and activities for nationwide expansion.</p>																																														
Phase of Project Activities	<p>Activities Phase (Before)</p> <table border="1"> <thead> <tr> <th>Phase</th> <th>Activities</th> <th>C/P</th> <th>Place</th> </tr> </thead> <tbody> <tr> <td>First Phase</td> <td>Discussion and determination of policy of activities targeting Kab/Kota, and formulation of outline of technical guidelines</td> <td>BNPB</td> <td>Jakarta</td> </tr> <tr> <td>Second Phase</td> <td>Preparation of technical guideline of each output, and implementation of activities based on the technical guidelines</td> <td>BPBDs of Province and All the Kab/Kotas in SULUT</td> <td>SULUT</td> </tr> <tr> <td>Third Phase</td> <td>Implementation of activities based on technical guideline of each output, and Improvement of the guidelines through activities in 2nd pilot province</td> <td>BPBDs of Province and All the Kab/Kotas in NTB</td> <td>NTB</td> </tr> <tr> <td>Phase after Project</td> <td>BNPB implements activities for nationwide expansion utilizing knowhow obtained by activities in pilot provinces and technical guideline of each output</td> <td>BPBDs of All the Kab/Kotas in Indonesia</td> <td>Nation-wide</td> </tr> </tbody> </table>	Phase	Activities	C/P	Place	First Phase	Discussion and determination of policy of activities targeting Kab/Kota, and formulation of outline of technical guidelines	BNPB	Jakarta	Second Phase	Preparation of technical guideline of each output, and implementation of activities based on the technical guidelines	BPBDs of Province and All the Kab/Kotas in SULUT	SULUT	Third Phase	Implementation of activities based on technical guideline of each output, and Improvement of the guidelines through activities in 2nd pilot province	BPBDs of Province and All the Kab/Kotas in NTB	NTB	Phase after Project	BNPB implements activities for nationwide expansion utilizing knowhow obtained by activities in pilot provinces and technical guideline of each output	BPBDs of All the Kab/Kotas in Indonesia	Nation-wide	<p>Activities Phase (After)</p> <table border="1"> <thead> <tr> <th>Phase</th> <th>Activities</th> <th>C/P</th> <th>Place</th> </tr> </thead> <tbody> <tr> <td>First Phase</td> <td>Discussion and determination of policy of activities targeting Kab/Kota, and formulation of outline of technical guidelines</td> <td>BNPB</td> <td>Jakarta</td> </tr> <tr> <td>Second Phase</td> <td>Preparation of technical guideline of each output, and implementation of activities based on the technical guidelines</td> <td>BPBDs of Province and All the Kab/Kotas in SULUT</td> <td>SULUT</td> </tr> <tr> <td rowspan="3">Third Phase</td> <td>Activities of main outputs and improvement of technical guidelines</td> <td>BPBDs of Province and All the Kab/Kotas in NTB</td> <td>NTB</td> </tr> <tr> <td>Finalizing technical guideline of RDMP, and Input for nation-wide expansion of earthquake hazard map</td> <td>BNPB</td> <td>Jakarta</td> </tr> <tr> <td>Presentation for utilization of technical guideline of formulation of RDMP</td> <td>BPBDs of All the Kab/Kotas in Indonesia</td> <td>Various regions</td> </tr> <tr> <td>Phase after Project</td> <td>BNPB implements activities for nationwide expansion utilizing the guidelines</td> <td>BPBDs of All the Kab/Kotas in Indonesia</td> <td>Nation-wide</td> </tr> </tbody> </table>	Phase	Activities	C/P	Place	First Phase	Discussion and determination of policy of activities targeting Kab/Kota, and formulation of outline of technical guidelines	BNPB	Jakarta	Second Phase	Preparation of technical guideline of each output, and implementation of activities based on the technical guidelines	BPBDs of Province and All the Kab/Kotas in SULUT	SULUT	Third Phase	Activities of main outputs and improvement of technical guidelines	BPBDs of Province and All the Kab/Kotas in NTB	NTB	Finalizing technical guideline of RDMP, and Input for nation-wide expansion of earthquake hazard map	BNPB	Jakarta	Presentation for utilization of technical guideline of formulation of RDMP	BPBDs of All the Kab/Kotas in Indonesia	Various regions	Phase after Project	BNPB implements activities for nationwide expansion utilizing the guidelines	BPBDs of All the Kab/Kotas in Indonesia	Nation-wide
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Project Name: The Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD

Project Term: 2011 - 2015 (four years)

Target area (pilot provinces): North Sulawesi Province (Manado Municipality and other regencies/municipalities), **West Nusa Tenggara** Province (**Mataram** Municipality and other regencies/municipalities)Target group: National Disaster Management Agency (BNPB); at least two Regional Disaster Management Agencies (BPBDs) of two provinces: North Sulawesi Province, **West Nusa Tenggara** Province; and the Regency/Municipality BPBDs in the target area (pilot provinces)

Modifications are underlined and in bold.

Narrative Summary	Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal The provincial BPBDs as well as the regency/municipality BPBDs beside the target areas are established, and the disaster management capacities of them are enhanced by using materials formulated and methodology established in the project.</p>	<p>The number of provinces as well as regencies/municipalities that apply the methodologies established in the Project for accumulating disaster data, creating hazard and risk maps, formulating regional disaster management plan and conducting disaster management exercise.</p>	<p>1. Interviews with the BNPB and BPBD staff</p>	<p>Disaster management framework by current disaster-related organizations as well as disaster-related policy in Indonesia remains unchanged.</p>
<p>Project Purpose The disaster management capacities of BNPB, the provincial BPBDs, and the regency/municipality BPBDs in the target area are enhanced.</p>	<p>1. Number or Cases that Regional Disaster Management Plan (RDMP) formulated through the Project processed to approve by the local authority. 2. Number of voluntary disaster management exercises conducted in the communities within the target area.</p>	<p>1. Province or Regency/municipality acknowledgements 2. BNPB or BPBD reports, newspaper articles on these cases, or interviewing the community</p>	<p>BNBP extends its activities in the target area to other provincial BPBDs, regencies/municipalities outside the target areas.</p>
<p>Outputs 1. The capacity for the regency/municipality BPBDs to accumulate disaster data/information which are fundamental for disaster risk management and improve accuracy of such data/information in the target area is enhanced. 2. The capacity for creation of Hazard and risk maps at regency/municipality level in the target area is enhanced. 3. The capacity for formulation of Regional disaster management plans for regency/municipality in the target area is enhanced. 4. The capacity for conducting Disaster management exercises at the regency/municipality in the target area is enhanced. 5. Nationwide dissemination activities are implemented.</p>	<p>1-1. Accumulation of disaster data items (Newly accumulated since there are no existing data) in the target area. 1-2. Improvement of disaster data quality (By following the format, data are sufficiently accumulated) in the target area. 2-1. Number of the regencies/municipalities where hazard and risk maps at regency/municipality level are created in the target area. 3-1. Number of the regencies/municipalities where regional disaster management plans are formulated at regency/municipality level in the target area. 4-1. Number of disaster management exercises implemented in the target area. 4-2. Number of activities on CBDRM in the target area.</p>	<p>1-1. Project reports 1-2. Project reports 2-1. Project reports 3-1. Project reports 4-1. Project reports 4-2. Project reports 5-1. Project reports 5-2. Project reports</p>	

	<p>5-1. Technical Guideline for formulation of RDMP is utilized as reference documents of BNPB</p> <p>5-2. Number of events to support nationwide dissemination activities on formulation of RDMP</p>		
<p>Activities</p> <p>1-1. To study contents of disaster data/information to be acquired and accumulated at a regional level (regency/municipality level) in the target area based on the lessons learned from the JICA Study, "The Study on Natural Disaster Management in Indonesia (the JICA Study)" in order to establish format for sharing disaster data</p> <p>1-2. To study necessary data items as well as data format to be shared and informed to the provincial BPBDs from the regency/municipality BPBDs in the target area, and informed to the BNPB from the provincial BPBDs in the target area in order to establish the methodology for accumulating necessary data</p> <p>1-3. To formulate "Technical guideline for acquiring and accumulating disaster data/ information for regencies/municipalities"</p> <p>1-4. To acquire and accumulate disaster data/information in the in the 1st target area using the format developed through the Project</p> <p>1-5. To list the disaster data accumulated in the in the 1st target area into the disaster annual report</p> <p>2-1. To study and verify effectiveness of "the manual for creation of hazard and risk maps", developed through the JICA Study.</p> <p>2-2. To formulate "Technical guideline for creation of hazard maps for regencies/municipalities"</p> <p>2-3. To collect and clarify basic data including statistics, social data, data on natural conditions</p> <p>2-4. To create hazard and risk maps based on the data accumulated through Output 1 as well as basic data collected in Activity 2-3</p> <p>2-5. To plan disaster mitigation measures based on the hazard and risk maps created through Activity 2-4 as well as the lessons learned from the Regional Disaster Management Plan (RDMP) developed through the JICA Study</p> <p>3-1. To formulate "Technical guideline for formulation of regional disaster management plan for regencies/municipalities".</p> <p>3-2. To study about revision of Standard Operation Procedure (SOP) used commonly by regency/municipality in order to prepare standard manual and formulate "Technical guideline for formulation of SOP for regencies/municipalities"</p> <p>3-3. To collect and clarify basic data including statistics, social data, data on natural conditions necessary for formulating RDMPs for the target area</p> <p>3-4. To formulate RDMPs and Regional Action Plans for Disaster Risk Reduction (DRR) for the target area</p> <p>3-5. To formulate or revise SOP in the 1st target area</p> <p>3-6. To revise the existing SOP according to emergency response plan of the</p>	<p>Inputs</p> <p>(Indonesian side)</p> <p>1. Assignment of counterpart personnel (C/P)</p> <p>-Project Director (P/D) from BNPB (Deputy Chief for Prevention and Preparedness)</p> <p>-Project Managers (P/Ms) from BNPB (Director for Disaster Risk Reduction, Director for Disaster Preparedness, Head of Data, Information and Public Relation Center, Director for Community Empowerment)</p> <p>-Project Coordinator (Administration) from BNPB (Director for Bureau for Laws and Cooperation)</p> <p>-Output 1: Team Leader (Deputy Chief of Disaster Information, Division of Information Center) and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces)</p> <p>-Output 2: Team Leader (Sub-director of Prevention) and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces)</p> <p>-Output 3: Team Leader (Sub-director of Mitigation/Sub-director of Prevention) and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces)</p> <p>-Output 4: Deputy Team Leader (Sub-director of Response Planning and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces)</p> <p>-Output 4: Team Leader (Sub-director of Resource Preparedness) and necessary number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces)</p> <p>Deputy Team Leader (Sub-director of Community Empowerment) and necessary</p>	<p>(Japanese side)</p> <p>1. Dispatch of the Japanese experts</p> <p>-Chief advisor/ Comprehensive disaster management</p> <p>-Regional disaster management planning (1)</p> <p>- Regional disaster management planning (2)</p> <p>-Disaster management institution and organization</p> <p>-Emergency response planning</p> <p>-Disaster information system</p> <p>-Disaster mitigation measures (flood, landslide, drought, destructive wind, forest fire)</p> <p>-Disaster mitigation measures (earthquake, tsunami, volcanic eruption)</p> <p>-Database/ GIS</p> <p>-Disaster management exercise (1)</p> <p>-Disaster management exercise (2)</p> <p>-Community based disaster risk management</p> <p>-Capacity Development</p> <p>-Coordinator/support of the expert in community based disaster risk management</p> <p>2. Provision of equipment</p> <p>-Training tools and materials</p> <p>-PC for preparing hazard and risk maps, printer, GIS software, plotter, satellite image, and IFSAR data</p> <p>3. Counterpart training</p> <p>-Necessary number of staff is trained in Japan once a year. The staff is selected from BNPB as well as the provincial and regency/municipality</p>	<p>(1) Trained staff continues to work for BNPB or BPBD.</p> <p>(2) Status of disaster management plan remains unchanged.</p> <p>(3) Relation among the relevant organizations remains unchanged.</p> <p>(4) Information is shared within the Project team sufficiently.</p> <p>Pre-conditions</p> <p>(1) Destructive disaster which may greatly affect to the smooth operation of the Project does not occur before the Project is completed.</p> <p>(2) Regular BNPB and BPBD officials are assigned to the Project under government order before the Project starts.</p>

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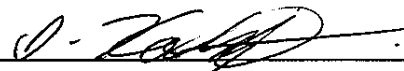
<p>RDMP formulated through the Activity 3-4 in the 1st target area</p> <p>3-7. To promote official appraisal by regency/municipality of RDMP formulated through Activity 3-4</p> <p>4-1.To study existing documents for implementation of disaster management exercises</p> <p>4-2.To formulate “Technical guideline for implementing disaster management exercises for regencies/municipalities”</p> <p>4-3.To implement disaster management exercises in the 1st target area together with national level organizations</p> <p>4-4. To revise “Technical guideline for implementing disaster management exercises for regencies/municipalities” as well as SOPs based on the result of the disaster management exercise if necessary</p> <p>4-5.To conduct activities on CBDRM to empower disaster management capacity utilizing output formulated through the Project</p> <p><u>5-1. To improve Technical guideline for formulation of RDMP to be utilized as reference document of BNPB</u></p> <p><u>5-2. To participate events hosted by BNPB to explain effective utilization of the Technical Guideline for formulation of RDMP</u></p> <p><u>5-3. To give input for formulation of disaster risk assessment technical guideline for regencies/municipalities</u></p> <p><u>5-4. To promote the methodology developed in Output 2 Activity 2.2 especially on Earthquake Hazard</u></p>	<p>number of staff from BNPB, and necessary number of staff from BPBD in the pilot provinces)</p> <p>2. Provision of facility and equipment -Project office space -Other expenses</p> <p>3. Operation budget -Personnel expenses as well as allowance for C/P <u>-Expenditure to hold JCC and other events in Jakarta</u> -Other expenses</p>	<p>BPBDs in the target area.</p>	
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MINUTES OF MEETING
BETWEEN
JICA EXPERT TEAM
AND
NATIONAL AGENCY FOR DISASTER MANAGEMENT (BNPB)
OF THE REPUBLIC OF INDONESIA
ON
THE FIFTH JOINT COORDINATION COMMITTEE
ON
JAPANESE TECHNICAL COOPERATION
FOR
THE PROJECT
FOR
ENHANCEMENT OF THE DISASTER MANAGEMENT CAPACITY
OF NATIONAL AGENCY FOR DISASTER MANAGEMENT (BNPB) AND
REGIONAL AGENCY FOR DISASTER MANAGEMENT (BPBD)
IN INDONESIA

JAKARTA, 23 APRIL, 2015



Mr. Bernardus Wisnu WIDJAJA
Project Director / Deputy Chief for
Prevention and Preparedness
National Disaster Management Authority
(BNPB)



Mr. Ichiro KOBAYASHI
Chief Advisor / Comprehensive
Disaster Management
JICA Expert Team

Theme: The 5th Joint Coordination Committee (JCC) on progress report of activities in Pilot Provinces and report of Terminal Evaluation
Date: April 23, 2015
Time: 9:00~11:30
Place: BNPB Pramuka Office, 15th Floor Meeting Room, Jakarta
Participants: See attachment
Attachments: 1. Attendant List

In the occasion of accepting Terminal Evaluation Team from JICA Headquarter, the 5th Joint Coordination Committee (hereinafter referred to as "JCC") Meeting of the Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD in Indonesia was held on 23rd of April, 2015 from 9:00 to 11:30, at BNPB Pramuka Office in Jakarta to explain, discuss and approve progress of each output chaired by Mr. Bernardus Wisnu Widjaja, Deputy Chief for Prevention and Preparedness, BNPB and supported by Mr. Ichiro KOBAYASHI representing JICA Expert Team. Result of Terminal Evaluation of the Project was reported in the JCC. The JCC members and observers were invited and attended to the JCC. Topics confirmed in the JCC were as mentioned below. (Attachment: Attendance List)

1. Progress of each Output and submission of the Progress Report

Mr. Ryoji TAKAHASHI, Deputy Chief Advisor of the Project presented the progress of each Output of the project in the first and second pilot provinces, North Sulawesi Province and West Nusa Tenggara Province. Indonesian side noted the progress of the project activities and confirmed further cooperation and involvement of the activities. JICA Expert Team submitted the Progress Report No.6 which reported the activities from October 2014 to March 2015.

2. Report of Terminal Evaluation

Mr. Hiroyuki OKUDA, Evaluation and Analysis consultant of the Japanese Terminal Evaluation Team reported the result of the Terminal Evaluation based on the five evaluation criteria and commented the conclusion and recommendation for the future project implementation based on the result of Terminal Evaluation.

BNPB and Japanese Terminal Evaluation Team agreed and signed the Minutes of Meeting for the Terminal Evaluation.

3. Confirmation of Further Schedule

1) Wrap-up Workshop in West Nusa Tenggara Province

BNPB and JICA Expert Team confirmed the schedule of Wrap-up workshop in West Nusa



Tenggara Province in the second week of September in Mataram, West Nusa Tenggara Province.
And BNPB will try to dispatch officials from BNPB to attend the event.

2) 6th JCC Meeting and Final Seminar

In order to share the outputs of the project with relevant organizations and wrap up the Project, BNPB and JICA Expert Team agreed to hold 6th JCC in the middle of September together with Final Seminar. BNPB and JICA Project Team will discuss on timing and agenda accordingly.

5. Holding Technical Training of Utilization of Technical Guideline

As a final activity of the project after 6th JCC and Final Seminar, in order to support self-formulation of Regional Disaster Management Plan (RDMP) which would contribute to implementation of DRR efforts at Kabupaten/Kota level, BNPB and JICA Expert Team confirmed to hold Technical Training of Utilization of Technical Guideline for formulation of RDMP for Kabupaten/Kota at Disaster Management Month Event in October 2015 at Solo, Central Java Province. Contents and duration of the Training will be discussed accordingly.

End of the Document



MINUTES OF MEETING
BETWEEN
JICA EXPERT TEAM
AND
NATIONAL AUTHORITY FOR DISASTER MANAGEMENT (BNPB)
OF THE REPUBLIC OF INDONESIA
ON
THE FINAL JOINT COORDINATION COMMITTEE
ON
JAPANESE TECHNICAL COOPERATION
FOR
THE PROJECT
FOR
ENHANCEMENT OF THE DISASTER MANAGEMENT CAPACITY
OF NATIONAL AUTHORITY FOR DISASTER MANAGEMENT (BNPB)
AND REGIONAL AGENCY FOR DISASTER MANAGEMENT (BPBD)
IN INDONESIA

JAKARTA, 15 SEPTEMBER, 2015

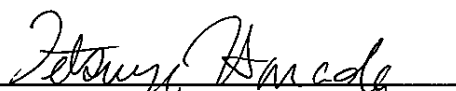


Mr. Bernardus Wisnu WIDJAJA
Project Director / Deputy Chief for
Prevention and Preparedness
National Authority for Disaster Management
(BNPB)



Mr. Ichiro KOBAYASHI
Chief Advisor / Comprehensive
Disaster Management
JICA Expert Team

Witness:



Mr. Tetsuya HARADA
Senior Representative
JICA Indonesia Office

Title: The final Joint Coordination Committee (JCC)
Date: September 15, 2015
Time: 9:00~10:00
Place: Alila Hotel, Jakarta
Participants: See attachment
Attachments: 1. Attendant List
2. Certificate of Handover

On the occasion of the completion of the pilot activities, the final Joint Coordination Committee (hereinafter referred to as "JCC") Meeting of the Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD in Indonesia was held on 15th of September, 2015 from 9:00 to 10:00, at Alila Hotel in Jakarta to confirm the completion of the project except for Technical Training of Utilization of Technical Guideline and Knowledge Co-Creation Program in Japan chaired by Mr. Bernardus Wisnu Widjaja, Deputy Chief for Prevention and Preparedness, BNPB and supported by Mr. Ichiro KOBAYASHI representing JICA Expert Team. Topics confirmed in the JCC were as mentioned below.

1. Result of each Output

Mr. Ichiro KOBAYASHI, Chief Advisor of the Project presented the result of each Output of the project in the first and second pilot provinces, North Sulawesi Province and West Nusa Tenggara Province. Both sides confirmed the all of the pilot activities were completed and confirmed remaining activities should be implemented as scheduled by BNPB and JICA Expert Team.

2. Holding Technical Training of Utilization of Technical Guideline

As an activity of Output 5, Indonesian side and JICA Expert Team confirmed to hold Technical Training of Utilization of Technical Guideline for formulation of RDMP for Kabupaten/Kota at Disaster Management Month Event from the 16th to 18th of October 2015 at Solo, Central Java Province.

3. Preparation of Knowledge Co-Creation Program in Japan

The Japanese side explained that the Program will be held from the 7th of November to 15th of November 2015 to promote mainstreaming of disaster risk management in Indonesia. Indonesia side will finalize the selection of participants by 15th of September and cooperate with Japanese side for the process of the Program.

4. Handover of the equipment

Japanese side handed over one printer, two desktop computers and one GIS software to BNPB and BNPB surely received the above-mentioned equipment and confirm to utilize the equipment for sustaining the result of the Project.

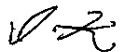
5. Handover of the Technical Guidelines and Regional Disaster Management Plans

Japanese side handed over the Technical Guidelines and Regional Disaster Management Plans prepared by the Project activities. Indonesia side received and confirmed to utilize the guidelines.

- 1) Technical Guideline for Disaster Data and Information Collection (Ver. 1.0) (7 Copies)
- 2) Technical Guideline for Creation of Hazard Map for Kab/Kota (Ver. 2.0) (7 Copies)
- 3) Hazard, Vulnerability, Risk Maps for all Kab/Kota (Soft copy)
- 4) Technical Guideline for formulation of RDMP (Ver. 2.0) (final version will be handed over in October)
- 5) Technical Guideline for Formulation of SOP (Ver. 1.0) (7 Copies)
- 6) Technical Guideline for Implementation of DM Exercise (TTX, CPX) (Ver.1.0) (7 Copies)
- 7) Regional Disaster Management Plan (Municipalities and Regencies in North Sulawesi Province and West Nusa Tenggara Province)
- 8) "Activities for "Disaster Resilient Village" Program -- As a Good Practice Model --" (7 Copies)
- 9) Village DM Plan in Kuta Village (7 Copies)

All of these softcopies and data related to create hazard maps are stored in the computers which were handed over to BNPB.

End of the Document





**BADAN NASIONAL PENANGGULANGAN BENCANA (BNPB)
DEPUTI BIDANG PENCEGAHAN DAN KESIAPSIAGAAN**

BNPB

Daftar Hadir Peserta

Acara :
Hari/Tanggal :
Tempat :

No	Nama	Lembaga/Organisasi	Telp, Fax & Email	Tanda Tangan
1	S. Watanabe	JICA		
2	RIMA NOVANI	KS BNPB		
3	Wanto	Rarene BNPB		
4	Shigeki Ishigaki	JICA		
5	Rita Rintu. S	BNPB		
6	Jimmy E. Mokolausang	BNPB PROV. SULAW		
7	Henry Pirade	DFAT - Anc Embassy		
8	JEONG PARK	DFAT - Anc. Embassy		
9	Aminingrum	Dit KS BNPB		

No	Nama	Lembaga/Organisasi	Telp, Fax & Email	Tanda Tangan
10	Pengasro S	dit pm		
11	Petrasa W	OXFAM		
12	Fon F	Kemendagri		
13	Yozawidzume	Kemendagri		
14	M. Fakhrondji	BPBD Kota Paris		
15	Immanuel Muslimin	BPBD Kota Bima		
16	RIDHO AHJATA	BPBD Prov. NTB		
17	L. MURWADI	BPBD Kota		
18	Aries m.	BPBD Kab. Bima		
19	L. Nurpuri	BPBD Kab. Lombok		
20	Dwi Meryanto	BIS		
21				
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BNPB

Attn.: Chief Representative
JICA INDONESIA OFFICE
Sentral Senayan II 14th Floor
JL.Asia Afrika No.8 Jakarta 10270

PROJECT TITLE: Project for Enhancement of the Disaster Management Capacity of BNPB and BPBD

This is to certify that the equipment that has been used since the project, which requested in the attached Form has been handed over properly as of September 15, 2015 to BNPB.

Ichiro KOBAYASHI
JICA Expert Team

Bernardus Wisnu WIDJAJA
Project Director / Deputy Chief for
Prevention and Preparedness
National Authority for Disaster Management
(BNPB)

September 15, 2015
Jakarta



BNPB

(Attachment)

List of Equipment

No.	Name of Item	Qty.	Price (year purchase)	Place of Installment	Date of Handover
1	Computer for Hazard Maps (Dell 2320)	2	IDR 33,000,000 (2011)	BNPB Sentul office	Sep.15 2015
2	Printer (Canon LBP 9100 C)	1	IDR 20,500,000 (2011)	BNPB Sentul office	Sep.15 2015
3	GIS Software (ArcView 10)	1	USD 5,090 (2012)	BNPB Sentul office	Sep.15 2015

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