

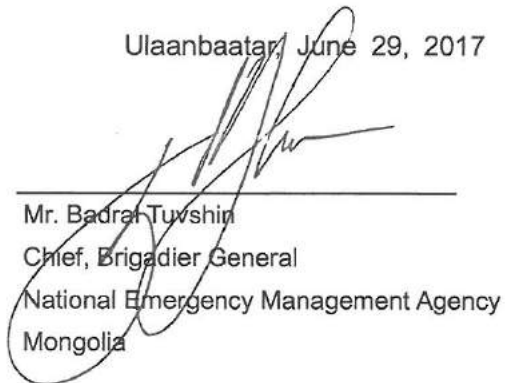
**MINUTES OF MEETING  
ON  
THE THIRD JOINT COORDINATING COMMITTEE MEETING  
FOR  
THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY  
OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN  
MONGOLIA**


Joint Coordinating Committee (hereinafter referred to as "JCC") for the Project for Strengthening the National Capacity of Earthquake Disaster Protection and Prevention in Mongolia (hereinafter referred to as "the Project") held its third meeting on June 29, 2017 from 14:00 to 16:15, at Conference Room of National Emergency Management Agency (hereinafter referred to as "NEMA"), Ulaanbaatar, Mongolia, chaired by Mr. Badral Tuvshin, Chief and Brigadier General, NEMA and supported by Mr. Kiyotaka Owada representing the Expert Team dispatched by the Japan International Cooperation Agency (hereinafter referred to as "JICA"). JCC members were invited and attended to the JCC. The list of the participants and agenda of the meeting are provided in Annex 1 and Annex 2, respectively.


The main subjects discussed and agreement made at the meeting are summarized in the attached document hereto.

Ulaanbaatar, June 29, 2017

  
\_\_\_\_\_  
Mr. Mutsumi Sato  
Chief Representative  
Mongolia Office  
Japan International Cooperation Agency  
Japan

  
\_\_\_\_\_  
Mr. Badral Tuvshin  
Chief, Brigadier General  
National Emergency Management Agency  
Mongolia

  
\_\_\_\_\_  
Mr. Dorjsembed Batsengee  
Director General  
Development Financial Department  
Ministry of Finance

  
\_\_\_\_\_  
Mr. Kiyotaka Owada  
Team Leader,  
JICA Expert Team

## ATTACHED DOCUMENT

### 1. Monitoring Sheet

Both the Japanese side and the Mongolian side confirmed the draft contents of the Project Monitoring Sheet I & II "Ver. 2" and Summary which monitoring period was set from November, 2016 to May, 2017 as shown in the Annex 3. Both sides agreed with the contents of this Monitoring Sheet as the official documents for the progress of the project.

### 2. Progress of Activities for each Working Group

The representatives of each Working Group (hereinafter referred to as "WG") member explained the progress of WG activities, the result of inputs of lessons learned from the first training in Japan and the proposed training contents for next training in Japan based on the presentation documents as shown in the Annex 4. JCC members understood the progress and outputs of WG activities, existing issues and future plan at this moment.

### 3. Nominating Officers for the Working Group Members

According to the Record of Discussions signed on July 8, 2016 (hereinafter referred to as "R/D"), the project organization of Mongolian side includes counterpart (hereinafter referred to as "C/P") working groups (hereinafter referred to as "WG") in order to implement project activities at output level of the Project.

Mongolian side submitted the member list of the C/P WG that was amended from the member list approved in the second JCC on April 14, 2017 in order to respond to changes in members' positions and conduct more effective WG activities. JCC members agreed the new members of WG as shown in the Annex 5.

### 4. Training in Japan

As the result of the discussion about next training in Japan based on the presentation by the representatives of each WG member using the documents shown in the Annex 4, both the Japanese side and the Mongolian side agreed with the implementation of next training programs in Japan.

### 5. Procuring equipment

The Mongolian side mentioned its responsibility of custom procedure, transportation and any preparations to be required for installation of equipment for Disaster Risk Reduction (hereinafter referred to as "DRR") awareness-raising in order to clarify the responsibility of Mongolian side for installation and maintenance of

equipment.

The Japanese side requested the Mongolian side to take care of improvement of the slab, installation of anchors and the switchboard in the appropriate place as well as ensuring budget for installation and maintenance system, and the Mongolian side accepted this request.

The Japanese side agreed to additional program of the amended O&M plan for the equipment for Disaster DRR awareness-raising and seismic diagnosis as shown in the Annex 6, and notified that procurement procedure would be started.

#### 6. Next JCC meeting

The Mongolian side proposed that the next JCC meeting will be tentatively scheduled immediately after completion of a series of next training in Japan in Ulaanbaatar.

#### 7. Question and Answer on the JCC

The record on the session of Question and Answer in the JCC is shown in Annex 7.

Annex 1: List of participants

Annex 2: Agenda of the JCC meeting

Annex 3: Summary and Draft Project Monitoring Sheet I & II "Ver. 2"

Annex 4: Presentation documents for the progress of Activities for each Working Group

Annex 5: Working Group Member List

Annex 6: O&M plans

Annex 7: Question and Answer in the JCC meeting



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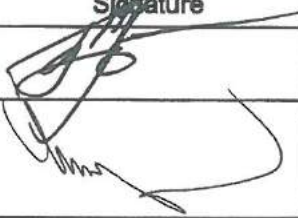


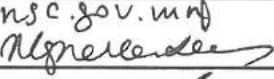


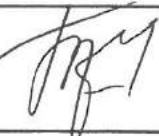

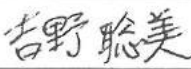

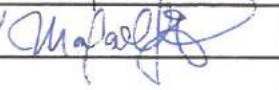
Annex 1: List of participants

The Project for Strengthening the National Capacity of Earthquake Disaster Protection and Prevention in Mongolia

Date:2017/6/29

Place:NEMA Conference Room (1st Floor)

Title of Meeting: Agenda for 2nd Joint Coodination Committee (3rd JCC)

Name	Department, Organization	E-mail/ Tel	Signature
T.Badral	Chief of NEMA		
L. Sayanaa	Advisor in charge of Emergency Management of Deputy Prime Minister	Sayanaa@Cabinet.gov.mn 88110119	
S.Magnaisuren	State Secretary of Ministry of Construction and Urban Development		
B.Uuganbayar	Director of Disaster Operation Department,NEMA	b.uuganbayar@yahoo.com	
Yo.Jargalsaikhan	Referent of National Security Council	jargal.saikhan@nsc.gov.mn	
L.Ulziibayar	Director of Policy Coordination and Cooperation Department&NEMA	ulzii0609@gdpro.com	
D.Jargal	Director of infrastructure and State Inspection Department,General State Inspection Agency	d.jargal@yandex.com	
Z.Munkh-Orgil	Officer of Aid Policy Division,Development Financing and Debt Management Department,Ministry		
J.Myagmar	Director,Division of Preprimary and Primary Education of Ministry of Education,Culture,Science and Sports		
P.Bayarkhuu	Vice Mayor of the Capital City in charge of Urban Development		
N.Ulambayar	Director of Emergency Management Department of the Capital City (EMDC)		
G.Enkhtuya	Director of Construction Quality and Safety Division,Master Planning Agency of Capital City	enkhtuya@yaho	
Mutsumi Sato	Chief Representative of JICA Mongolian office		
<del>Hisomi Sawada</del> Satomi Yoshino	<del>Senior Representative of JICA</del> Project <sup>for</sup> <del>Mongolian office</del> Fogoshita Advisor	Yoshino.Satomi@jica.go.jp	
Yukinari Hosokawa	Officer in charge of the Project of JICA	Hosokawa.Yukinari@jica.go.jp	
Munkhmantai	Project officer, JICA	chinkbat.munkhmantai@jica.go.jp	

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Х. Баттулга	НОБТ - ТХСАЗ Ноб.	99100953	
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Sign of Representative

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Annex2: Agenda of the JCC meeting



**“THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY  
OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA”  
Agenda for 3rd Joint Coordination Committee (3rd JCC)**

Date: June 29<sup>th</sup>, 2017

Time: 14:00~16:15

Venue: NEMA Conference Room

No.	Time	Agenda	Presenter
	13:50-14:00	Registration	
1	14:00-14:10 (10 min)	Opening remarks from NEMA	Mr. Badral Tuvshin Chief, Brigadier general, NEMA
2	14:10-14:20 (10 min)	Opening remarks from JICA	Mr. Mutsumi Sato Chief Representative, Mongolia Office, JICA
3	14:20-14:25 (5 min)	Overview of project activity and schedule - Result of Monitoring Sheet, Version2	Kiyotaka Owada Team Leader, JICA Expert Team
4	14:25-14:55 (30 min)	Progress of WG1 Activity	Ms. D.Serjmyadag (Risk Assessment), Law Enforcement University of Mongolia Mr. B.Myagmardorj (Disaster Planning), Disaster Operation Dept., NEMA Mr. E.Altankhishig (White Paper), Policy Coordination and Cooperation Dept., NEMA Mr. D.Sodnomragchaa (Database), Disaster Research Institute, NEMA Ms. B.Duvshin (Agreement), Disaster Risk Management Dept., NEMA
5	14:55-15:15 (20 min)	Progress of WG2 Activity	G. Saruultuya (Norm Preparation), CDC B. Munkhsaikhan (Infrastructure Diagnosis), GASI
6	15:15-15:35 (20 min)	Progress of WG3 Activity	A. Enkhtogtokh (School DRR Education), ERI D.Munkhbat (Community DRR Education), Disaster Prevention Dept., NEMA
7	15:35-16:05 (30 min) *Consecutive Translation	Discussion and confirmation on: - Documentary of public awareness activity for seismic risk reduction in Mongolia - Amendment of WG member - Procuring equipment - Target Aimags for revision of the regional disaster management plan - Pilot places for the training on DRR education and raising awareness - Training contents and candidates Next training in Japan - Forthcoming International Conferences • Participant of JICA session in World Bosai Forum 2017 in Sendai • JICA advise to AMCDRR Planning	Project Coordinator, NEMA Discussion with All Participants

8 16:05-16:15  
(10 min) - Closing remarks

Mr. B. Uuganbayar  
Director of Disaster Prevention  
Department, NEMA



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## Annex3: Summary and Draft Project Monitoring Sheet I &amp; II "Ver. 2"

TO Chief Representative of JICA Mongolia OFFICE

## PROJECT MONITORING SHEET

**Project Title : Project for Strengthening the National Capacity of Earthquake  
Disaster Protection and Prevention in Mongolia**

**Version of the Sheet: Ver. 2.0 (Term: November, 2016 - May, 2017)**

**Name: Uuganbayar**

**Title: Director of Disaster Prevention**

**Department, NEMA**

**Name: Kiyotaka Owada**

**Title: Team leader / Integrated disaster  
management I**

**Submission Date: June 29, 2017**

## I. Summary

## 1. Progress

## 1-1 Progress of Inputs

## (1)Dispatch of Experts

The following Experts from Japanese side were assigned in this term.

	Area of responsibility	Experts name	Period of assignment
Project Management Group	Team Leader / Integrated Disaster Risk Management I	Kiyotaka OWADA	Nov. 23 - Dec. 17, 2016 Feb. 1 – Feb. 26, 2017 Apr. 3 – Apr. 30, 2017
	Deputy Team Leader / Integrated Disaster Risk Management II	Akihiro FURUTA	Nov.23-Dec.12, 2016 Mar.15-Apr.15,2017 May.22-June.17,2017
OUTPUT1: Disaster Management Plan	Disaster Management Plan I	Osamu NISHII	Jan.30-Feb.24,2017 Apr.06.-May 05,2017
	Disaster Management Plan II	Kensuke ICHIKAWA	Nov.23-Dec.17,2016
	Disaster Management system I	Yoshitaka YAMAZAKI	Jan.30-Feb.18,2017
	Disaster management system II	Shiro MAKITA	Nov.25 - Dec.17,2016 Apr.09 - Apr.29,2017
	Disaster management information I	Tadashi ISE	Nov.25-Dec.5,2016 Apr.05 – Apr.17,2017
	Disaster management information II	Akihiro FURUTA	Dec.13-Dec.17, 2017
Output 2:	Seismic-Resistance	Seiichiro	Nov.23 – Dec.17,2016



	Area of responsibility	Experts name	Period of assignment
Seismic Resistance		FUKUSHIMA	Apr.06 – May 05,2017
	Seismic Diagnosis of Infrastructures and Lifelines	Jun MATSUO	Jan.30-Feb.13.2017 March.27 - Apr.08 2017
	Seismic Diagnosis of Buildings / Seismic Strengthening I (RC, PC)	Masahide AOKI	Nov.23 – Dec.12,2016 Jan.30 – Feb.20,2017
	Seismic Diagnosis of Buildings / Seismic Strengthening II (Masonry)	Shigeki KITA	Nov.23 – Dec.4,2016 Apr.30 – May13, 2017
	Seismic-Resistant Design	Hideto OMINE	Nov.23 – Dec.12,2016
Output 3: DRR Education	DRR Education I	Miki KODAMA	Nov.23 – Dec.8,2016 May.09 – May 24,2017
	DRR Education II	Yujiro OGAWA	Nov.27 – Dec.2, 2016 Jan.30 – Feb.15,2017 March.31-Apr.21 2017
	Community-Based Disaster Management / Project Coordination I	Toshikazu HIWAKI	Nov.23 – Dec.17,2016 Jan.30 – Feb.26 ,2017
	Development of Disaster Management Teaching Materials I	Yoko OTA	May.08 – May.27.2017
	Development of Disaster Management Teaching Materials II / Project coordination II	Amarjargal NAYANBAATAR	Nov. 23 – Dec. 17, 2016 Jan. 30 – Feb. 10, 2017 Feb. 14 – Feb. 16, 2017 Apr. 11 – Apr. 14, 2017

**(2) Assignment of counterparts**

The current administration of authorities concerned of Mongolia is as following,

(a) Project Director:

B. Uuganbyar, Director of Disaster Prevention Department, the National Emergency Management Agency (hereinafter referred to as “NEMA”)

(b) Project Manager:

Luvsansharav Ulziibayar, Director of Policy Coordination and Cooperation Department, NEMA

(c) Project Coordinators

Z.Battulga, Disaster Operation Department, NEMA

D.Bazarragchaa, Disaster Risk Management Department, NEMA

The Project Director approved in the Record of Discussions (hereinafter referred to as “R/D”) on the Project for Strengthening the National Capacity of Earthquake Disaster Protection and Prevention in Mongolia (hereinafter referred to as “the Project”) signed on July 8, 2016 was amended twice as following,

Original signed on July 8, 2016	Deputy Chief of NEMA will be responsible for overall administration and implementation of the Project
Amended on January 5, 2017	Director of Disaster Operation Department of NEMA will be responsible for overall administration and implementation of the Project

Amended on April 14, 2017	Director of Disaster Prevention Department of NEMA will be responsible for overall administration and implementation of the Project
<b>Reason:</b> Since Disaster Prevention Department is responsible for basic coordination and operation of nationwide disaster risk reduction (hereinafter referred to as "DRR") activities including capacity enhancement of NEMA officers and implementation of DRR education and training for school and regional administrative officers, from this point of view of the project purpose, Disaster Prevention Department is closely associated with national capacity enhancement of earthquake disaster prevention, therefore Project Director is to be changed from Director of Disaster Operation Department of NEMA to Director of Disaster Prevention Department under the order of the Chief of NEMA.	

According to the R/D, the project organization of Mongolia side includes the counterpart (hereinafter referred to as "C/P") of working groups (hereinafter referred to as "WG") in order to implement project activities at output level of the Project.

In the second Joint Coordinating Committee (hereinafter referred to as "JCC") on April 14, 2017, Mongolian side submitted the member list of the C/P for each WG that was amended from the member list approved in the first JCC on December 7, 2016 in order to take their share of responsibility for each sub-WG activity and work closely with JICA Expert team. JCC members agreed the members of WG as shown below.

WG	Member	Job title
WG1: Disaster Management Plan	D.Bazarragchaa (Coordinator for WG1)	Disaster Risk Management Department, NEMA
	D.Serjmyadag	Law Enforcement University of Mongolia
	P.Amarzaya	Disaster Research Institute, NEMA
	B.Batbayar	Disaster Risk Management Department, NEMA
	B.Bayanmunkh	Policy Coordination and Cooperation Department, NEMA
	B.Myagmardorj	Disaster Operation Department, NEMA
	Ch.Otgontugs	Fire Department, NEMA
	B.Khishigbaatar	Disaster Operation Department, NEMA
	E.Batbayar	EMDC
	B.Purevnyam	Disaster Operation Department, NEMA
	D.Badamsuren	Disaster Research Institute, NEMA
	D. Sodnomragchaa	Disaster Research Institute, NEMA
	B.Boldkhuu	Disaster Operation Department, NEMA
	E.Altankhishig	Policy Coordination And Cooperation Department, NEMA
B.Duvshin	Disaster Risk Management Department, NEMA	
WG2: Seismic Resistance	D.Zanabazar (Coordinator for WG2)	MCUD
	Z.Battulga (Coordinator for WG2)	Disaster Operation Department, NEMA

WG	Member	Job title	
	Sh.Uranchimeg	Inspection Agency	
	B.Tsend-Ayush	Master Planning Agency of Capital City, Construction Quality and Safety Department	
	G.Saruultuya	Construction Development Center	
	T.Galbadrakh	Finance and Logistics Department, NEMA	
	G.Erkhembayar	MCUD	
	B.Gantulga	Land Management, Survey and Mapping Agency, MCUD	
	M.Oyunchimeg	Mongolian University of Science and Technology	
	B.Munkhsaikhan	Inspection Agency	
WG3: Education	DRR	D.Munkhbat (Coordinator for WG3)	Disaster Prevention Department, NEMA
		J.Myagmar	MECSS
		Ch.Gantsetseg	MECSS
		P.Baljinnyam	MECSS
		Ts.Chimedlkham	MECSS
		G.Mongolkhatan	Education Research Institute, MECSS
		B.Erdenechimeg	Education Research Institute, MECSS
		A.Enkhtogtokh	Education Research Institute, MECSS
		O.Tsend-Ayush	Disaster Prevention Department, NEMA
		D.Bat-Erdene	Disaster Prevention Department, NEMA
		B.Uuriingegee	EMDC
		B.Unenbaatar	EMDC
		D.Dulamsuren	Public Information Center, Disaster Prevention Department, NEMA
		S.Amgalan	Administrative Management Department, NEMA
M.Amartungalag	MECSS		
WG for the Survey of Procuring Equipment	S.Amgalan (Double as WG3)	Administrative Management Department, NEMA	
	T.Galbadrakh (Double as WG2)	Finance and Logistics Department, NEMA	
	Khurelbaatar	DRR Training Center, EMDC	

## 1-2 Progress of Activities

### (1) Overall of Project

#### 1) Implementation of Joint Coordination Committee (JCC)

JCC for the Project held twice in this term on December 7, 2016 and on April 14, 2017.

For the first JCC, there were totally 28 participants from Japanese side and Mongolian side. The work plan for the Project, Monitoring Sheet I & II "Ver. 1", the WG members and

the amendment of Project Director were discussed mainly and the agreement was made at the meeting as shown in Annex-1.

For the second JCC, there were totally 37 participants from both sides. The change of WG members, second amendment of Project Director, procuring equipment, and training in Japan were discussed mainly and the agreement was made at the meeting as shown in Annex-2.

## 2) Provision of Equipment

As identified in the work plan of the Project which was approved by the first JCC, the equipment for seismic diagnosis and the earthquake simulation experience equipment for the Disaster Risk Reduction (hereinafter referred to as "DRR") Training Center (temporary name) are supposed to be procured and donated by JICA.

The Mongolian side proposed the Operation and Maintenance (hereinafter referred to as "O&M") plans for installation of equipment in Mongolia and those plans were submitted to JICA Mongolian Office with the official letter signed by head of NEMA.

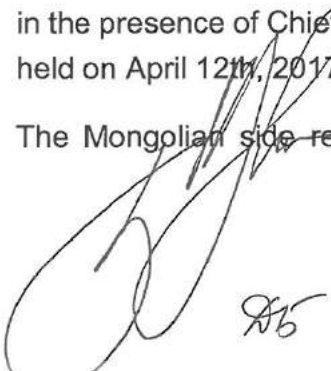
At the second JCC, the Japanese side gave a response about this matter and pointed out the need to add in the explanations for DRR strategic background to introduce such equipment in Mongolia and to clarify main bodies of O&M activities. Then JICA explained that they plan to send the official letter to request additional contents identified in the O&M plans.

## 3) Training in Japan and/or the third countries

The training in Japan named "Disaster Risk Reduction and Management" was conducted from March 20th to 29th, 2017. The fifteen persons from Mongolian side had been selected as participants in this training. However, three candidates canceled their participation in the training without detailed explanation to Japanese side at the final minutes and finally twelve counterparts took part in the training.

For sharing the lesson learned from the training in Japan with WG members and related officers in NEMA and other organizations, persons in charge of each WG member who attended in the training made their presentations about knowledge and experiences which were obtained through the training and how to reflect the lesson learned to the WG activity in the presence of Chief Representative of JICA Mongolia Office at the steering committee held on April 12th, 2017.

The Mongolian side requested the second training in Japan in order to learn specific





knowledge and technical approach which will be directly utilized to prepare guidelines, agreements, training programs in the activities of each WG. For this request from Mongolian side, the Japanese side requested that obtained knowledge and experiences through the above-mentioned training in Japan should be reflected in the WG activities firstly. And detailed training items are identified in each WG activity by the next JCC held on June, 2017.

## (2) Output1

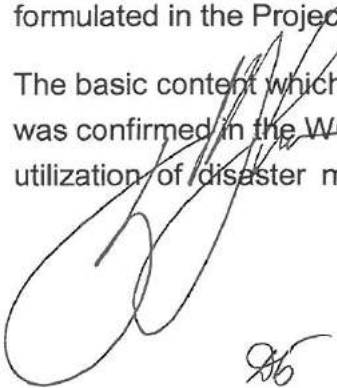
### Activity 1.1.1 To identify problems and challenges on implementation of legal frameworks of disaster risk reduction

The WG1 member examined existing status of formulation of guidelines and manuals for disaster management plan and gathered information about rules and regulations for disaster risk reduction in order to reveal a plan to develop guidelines in the Project. This result showed that rules and regulations concerning emergency response plans were focused currently, and it became clear that the rules and regulations on disaster prevention, recovery and reconstruction are not sufficient in Mongolia. Due to the enforcement of the amended law of disaster protection, NEMA needs to develop new rules and regulations or to revise existing rules and regulations in order to establish the detailed enforcement system of the law . Although it was confirmed that there is the instruction manual for utilization of disaster management plan form (Order of Chief of the NEMA, 2013), the contents directed in this manual is not in detail; the necessity to develop a new guideline for disaster management plan was confirmed.

### Activity 1.1.2 To develop guidelines on improvement of legal frameworks and plans, assessment of disaster risk and database on disaster risk reduction

The framework and the configuration of the risk assessment guideline were confirmed in the WG1. Due to the enforcement of the amended law of disaster protection, NEMA is undertaking to revise the regulation for implementation of disaster vulnerability and risk Assessment (Annex of the Cabinet decision of 176, 2006). The WG1 member decided that how to merge this regulation and the risk assessment guideline which will be formulated in the Project is being discussed continuously.

The basic content which should be included in the guideline of disaster management plan was confirmed in the WG1. As clarified in Activity 1.1.1, there is the instruction manual for utilization of disaster management plan form (Order of Head of the NEMA, 2013) in





Mongolia and It is instructed to prepare the disaster management plans in aimags, the capital city, soums, districts, large enterprises, institutions and organizations based on this instruction manual. In this existing instruction manual, the format of the disaster management plan and the items are incorporated, but there is no practical guidance which will be guide to prepare the own disaster management plan by organizations concerned, so it was confirmed that it is difficult for each organization to prepare the disaster management plan using this instruction manual only. For this reason, the WG1 member confirmed that the new guideline that forms the basic formulation of disaster management plan on behalf of the existing instruction manual, and a policy to gain an approval for enforcement of the new guideline from Head of the NEMA was agreed in the WG1.

At the start of the Project, it was considered the formulation of the guideline for preparation system and the guideline for disaster prevention as one of activities in Activity 1.1.2 based on the contents of the Project Design Matrix (hereinafter referred to as "PDM") which was developed and approved when the amended law of disaster protection was still a draft one.

It was assumed that the guideline for preparation system was supposed to deal with setting levels of disaster preparation and preliminary measures according to the level of preparation, and the guideline for disaster prevention was mainly supposed to deal with management concerning investment for damage mitigation assumed at the time of earthquake. However, the articles and the contents of rules and regulations directed to be formulated in a draft of amended law which became occasions to prepare the both guidelines was modified in the official amended law of disaster protection, and the policy of preparation of both guidelines in the Project needs to be changed. Currently, the WG1 member is discussing how to prepare the both guidelines.

Regarding the database guideline, it was confirmed to compile the operational framework of the disaster related information management system, database specifications and procedure of data sharing with related organizations which are supposed to develop through Activity 1.3.3 as a guideline.

**Activity 1.1.3 To develop new regulation and the drafts of revised version of regulation on implementation of the Law of Disaster Protection**

As obviously shown in Activity 1.1.1, it is necessary to establish and revise the rules and regulations based on the obligation and authority of NEMA specified in the amended law of disaster protection. The WG1 member verified the articles of the amended law of disaster protection mainly from the viewpoint of risk assessment, disaster management

plan, preparation system, and disaster prevention, and investigated the necessity to establish new rules and regulations and revise existing rules and regulations. As a result, it was confirmed that the establishment and revision of eleven rules and regulations are necessary. In addition, the WG1 member analyzed the concepts of extracted rules and regulations and confirmed NEMA's plan to establish new rules and regulations or revise existing rules and regulations. For the regulation for implementation of disaster vulnerability and risk Assessment (Annex of the Cabinet decision of 176, 2006), the revision work of this regulation has been already started by the NEMA, and the Japan Expert Team (hereinafter referred to as "JET") has inputted Japanese experiences for a procedure of seismic risk assessment for this revision work.

The WG1 member confirmed that NEMA takes an initiative in implementing the work of newly establishing and revising rules and regulations and the JET inputs continuously knowledge and experience in Japan on demand from NEMA. Meanwhile, for the development of guidelines complementing the practical operation of rules and regulations, the WG1 member confirmed that those guidelines are prepared by WG1 member as the main body.

**Activity 1.2.1 To develop the draft of the agreement which shows the coordination and cooperation among NEMA and related organizations**

In the WG1, it was clarified that twenty five (25) agreements will be required to conclude among NEMA and twenty seven (27) related organizations based on the survey results by NEMA. Since those agreements should cover a lot of contents and target fields, the draft manual of agreement preparation procedure has been prepared based on the comparison and analysis of the existing agreements in Mongolia and Japan for the purpose of showing the standard procedure to formulate of an agreement.

In addition, the field of Information and communication was selected as the first target field to conclude an agreement, WG1 member is trying to consult with related organizations for preparation of an agreement in accordance with the draft manual of agreement preparation procedure.

**Activity 1.3.1 To identify problems and challenge of monitoring, report, evaluation and disclosure of disaster protection plan at national and local levels**

As described in Activity 1.1.1, the WG1 member reviewed the current disaster management plans mainly for seismic disaster in national level, Ulaanbaatar(UB) city, aimag and soum level and summarized the issues of those plans. Regarding the current national disaster management plan, the contents of emergency response for each

disaster are mainly described and there are few descriptions about disaster prevention and preparation. Therefore, the JET shared the document of "Countermeasures Common to All Disaster Types" in the basic disaster management plan in Japan with WG1 member as reference. Based on this input from the JET, Mongolian side C/P is considering some items which should be included in national disaster management plan in Mongolia from the standpoint of disaster prevention and preparation.

As shown in Activity 1.1.1, regional disaster management plans of UB city, aimag and soum level were basically prepared based on the instruction manual for utilization of disaster management plan form (Order of Head of the NEMA, 2013). And it was found that those plans are described not only in a structured way but abstract terms such as simple enumeration of the items in the instruction manual. As mentioned in Activity 1.1.2, the new guideline that forms the basic formulation of disaster management plan is being prepared in the WG1 and the policy to revise the regional disaster management prevention plans based on this guideline was confirmed.

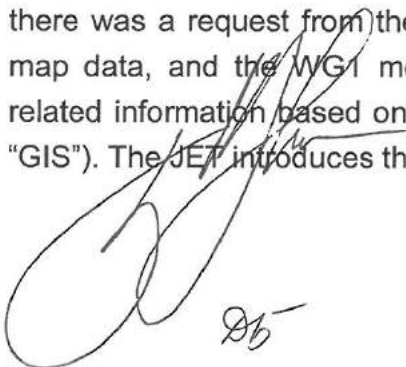
**Activity 1.3.2 To revise the plans made in 1.3.1 and make a manual for the revision of disaster protection plan**

As described in Activity 1.3.1, Mongolian side C/P started the revision work of mainly adding the contents of disaster prevention and preparation in the national disaster management plan with reference to the basic disaster prevention plan in Japan.

**Activity 1.3.3 To improve the present system which collect and analyze information on disaster risk reduction**

According to the Article 14 "Creating a Disaster Database" of the amended law of disaster protection, NEMA is responsible for improving database for disaster related data. Currently, the disaster research institute in NEMA is gathering and managing historical record data for disaster events, but the types of databases that can be utilized for disaster management plans and the white paper preparation are limited. In addition, it was found that the information sharing and collaboration of databases with the local disaster management departments and related institutions, and disclosure of information to the public has not progressed sufficiently.

As a result of discussion for the improvement policy of the current system in the WG1, there was a request from the Mongolian side C/P for information sharing based on the map data, and the WG1 member have confirmed to develop a database of disaster related information based on Geographic Information System (hereinafter referred to as "GIS"). The JET introduces the e-comi map system which is web-based GIS developed by







the National Research Institute for Earth Science and Disaster Resilience in Japan (hereinafter referred to as "NIED"), and the WG1 member decided to install the e-comi map system to the Mongolian National Data Center (hereinafter referred to as "NDC") from the viewpoint of security and ensuring the system operation continuity by NEMA. Now is at the stage of installation work of the e-comi map system.

**Activity 1.3.4 To elaborate white paper on disaster risk reduction which let the Mongolian people know the progress on implementation, monitoring, evaluation of disaster risk reduction plan at national and local levels through the activities of 1.3.1 and 1.3.2**

In the WG1, a draft format of the white paper on disaster management in Mongolia was reviewed by reference to the table of contents of the white paper on disaster management in Japan

Based on this draft format, the Mongolian side C/P has drawn up a work plan to prepare the white paper in Mongolia and has obtained approval of this work plan from the Head of NEMA. According to this work plan, the department in charge and the schedule of data collection are specified for each item of contents in the table, and also instructions on collection of data will be issued to each director of department.

### (3) Output2

**Activity 2.1.1 To analyze the manual of seismic assessment of buildings and lifeline based on the context of the Law of Disaster Protection and develop the draft of revised version**

The challenges and suggestions for improvement of the current instruction for seismic assessment of buildings and lifelines are identified in the WG2.

The targeted existing instructions are as follows: "Instruction of seismic diagnosis for existing buildings (Building Rules 31-102-00)" and "Instruction of the building passport activation aimed at seismically active zones (Building Rules 31-103-00)". It was found as challenges that the purpose of diagnosis was weighted in deterioration and construction quality evaluation and the procedure of diagnosis is based on qualitative method depending on the diagnosis technician. And the contents of those instructions are old and cannot reflect current situation. As an improvement plan, it was confirmed to prepare quantitative seismic diagnostic standards based on Japan's standards, and include a diagnostic methodology in consideration of different types of building structures based on the field survey.

The targeted existing instructions on infrastructures are "Standards for the period of usage,

inspection and maintenance of buildings and lifelines (Building rules 13-04-03)" and "Vulnerability evaluation report and checklist prepared by National Inspector Agency". These instructions are mainly used for evaluation of deterioration and they are not targeted for seismic evaluation. On the other hand, the infrastructures and pipelines in Mongolia get older and the progress of aging and the reduction of seismic resistance are interrelated. In consideration of this point, as an improvement plan, it was confirmed to add standards for seismic damage evaluation of infrastructures and lifelines in building rules 13-04-03.

**Activity 2.1.2 To develop guidelines-methodologies which show the method for implementing seismic assessment for buildings and lifelines, and how to use equipment**

On the basis of the results of Activity 2.1.2, the policy and framework of the guidelines for seismic evaluation of buildings, which types divided in the reinforced concrete structure (hereinafter referred to as "RC"), the precast concrete structure (hereinafter referred to as "PC") and the masonry, lifelines, pipelines were reviewed and draft guidelines were prepared in the WG2.

It was confirmed that the standards for seismic diagnosis of buildings and the standards for seismic damage evaluation of infrastructures and lifelines which become key elements in the guidelines is developed, evaluated and authorized by the standard procedure in Ministry of Construction Urban Development (hereinafter referred to as "MCUD"). This procedure will be carried out by Consulting Service Team (hereinafter referred to as "CST") that is an organization selected by Construction Development Center to establish standards. Prior to the selection of CST,, it is necessary to prepare the terms of reference (hereinafter referred to as "TOR") related to standards creation and to get an approval of the TOR at the technical committee. Currently, it is the stage where the TOR was prepared in the WG2 and the approval of the chemical committee was obtained. Based on this TOR, the consulting team will be selected under the guidance of MCUD. Furthermore, the JET is implementing a technical seminar to input concepts and concrete procedures of seismic diagnosis for the WG2 member and candidate organizations of the consulting team.

In consideration of the procedure to authorize standards of seismic diagnosis as described above, the way of technology transfer concerning the development of standards of seismic diagnosis in the WG2 was discussed. As a result, it was confirmed that the WG2 member and consulting team collaborated on the activities of standards development to promote technology transfer to the WG2 member.

**Activity 2.2.1 To develop guidelines-methodologies on seismic strengthening and reconstruction of buildings**

In Mongolia there are few examples of seismic strengthening and reconstruction of buildings, so the JET is implementing a technical seminar to input concepts and concrete procedures of seismic strengthening for the WG2 member and candidate organizations of the consulting team.

**(4) Output3**

**Activity 3.1.1 To develop a guideline which shows contents, method and implementation way of disaster risk reduction (DRR) education in kindergarten and primary and secondary schools based on Law of Disaster Protection**

The activity for preparation of the guideline for DRR education in pre-school, elementary school and junior high school is going on based on the work plan agreed by the WG3 member at the start of the project

The JET shared the document in which descriptions for DRR in the guideline for DRR education, curriculum guidelines and school textbooks in Japan and good practices for DRR education were listed with the WG3 member. The WG3 member agreed to compile the current status of DRR education in Mongolia with reference to this document and prepare specific contents of the guideline by themselves after clarification of the missing parts of the guideline.

In addition, Ms. Myagmar, the Head of Department of Ministry of Education, Culture, Science and Sports (hereinafter referred to as "MECSS"), inputted the necessity of teacher's training for enhancement of their capacity to implement DRR education and the necessity of cooperation among related organizations along with the preparation of the guideline for DRR education based on the knowledge and experiences obtained from the training in Japan.

**Activity 3.2.1 To develop comprehensive work plan for disaster risk reduction education and raising awareness at national and local levels**

The WG3 member began to consider the management and operation system of the comprehensive schedule for DRR education and raising awareness with the aim of unified management and efficient information sharing for activities of DRR education and raising awareness carried out by various organizations, and discussed these matters with leading organizations in Mongolia. It was confirmed that the disaster prevention department in NEMA takes leadership for the management and operation for the comprehensive

schedule. And also, the basic policy to utilize the operational framework of the web system developed by the Asian Disaster Preparedness Center (hereinafter referred to as "ADPC") which has been ahead of similar activities in NEMA was confirmed. The activities to revise the web system and make the mailing list are going on in the WG3.

**Activity 3.2.2 To develop materials for the training on disaster risk reduction education and raising awareness, and implement the training for the target groups in pilot areas**

The current status of development of materials for the training on DRR education and raising awareness by the United Nations Development Programme (hereinafter referred to as "UNDP") and World Vision Mongolia were surveyed in the WG3. As a result of the survey, it became clear that UNDP's curriculum of DRR education and raising awareness had been approved by Head of NEMA, and World Vision Mongolia started to prepare teaching materials based on the UNDP's educational curriculum. Considering such a situation, the policy of activities to develop teaching materials in the Project was discussed in the WG3, and teaching materials to promote the understanding of residents based on the UNDP's educational curriculum will be created after clarifying a demarcation of works for development of teaching materials with World Vision Mongolia. Coordination for the division of the activities between the Project and World Vision Mongolia is ongoing under leadership of the disaster prevention department in NEMA.

**Activity 3.2.3 To develop and implement educational and training program for implementing disaster prevention and simulation program in Training Center**

The discussion on the training program for DRR Training Center (temporary name) in the UB city was started. It was agreed to prepare the report on how to improve the current training program in the WG3.

### 1-3 Achievement of Output

#### (1) Output1

The following three indicators are applied to evaluate the achievement of the Output 1 based on the PDM.

**1.1 The number of guidelines, operational rules, provisions which are developed.**

Achievement in this term: The WG1 has just created the basic frameworks of the guideline of risk assessment and the guideline of disaster management plan, and it has not reached the stage of evaluation with quantitative indicators.

1.2 The number of the draft of agreement developed and participants who participated in the training programs on agreements

Achievement in this term: The WG1 has created the draft manual of agreement preparation procedure and started to create an agreement on the field of Information and communication.

1.3 White paper on disaster risk reduction

Achievement in this term: The WG1 has gotten an approval of the work plan to prepare the white paper from Chief of NEMA.

**(2) Output2**

The following two indicators are applied to evaluate the achievement of the Output 2 based on the PDM.

2.1 Guideline for seismic assessment: The number of the participants in the training program on seismic assessment

The achievement in this term: The WG2 has just started to develop the guideline. For the purpose of technical transfer of seismic diagnosis in Japan, the first seminar was held on April 20<sup>th</sup>, 2017. There are 25 attendees at this seminar.

2.2 Guideline for seismic strengthening: The number of the training program on seismic strengthening

The achievement in this term: The WG2 has just started to develop the guideline. For the purpose of technical transfer of seismic strengthening in Japan, the first seminar was held on May 3<sup>rd</sup>, 2017. There are 22 attendees at this seminar.

**(3) Output3**

The following two indicators are applied to evaluate the achievement of the Output 3 based on the PDM.

3.1 The number of the cases of delivering classes on disaster risk reduction based on the activities of the Project

Achievement in this term: The WG3 has just started to prepare the guidelines and teaching materials for DRR education and raising awareness, and it has not reached the stage of evaluation with quantitative indicators.

3.2 The number of visitors in Training Center

14

Achievement in this term: The WG3 has just started to prepare the guidelines and teaching materials for DRR education and raising awareness, and it has not reached the stage of evaluation with quantitative indicators.

#### **1-4 Achievement of the Project Purpose**

The following two indicators are applied to evaluate the achievement of the Project based on the PDM.

1. The number of the approved guidelines and agreement
2. The number of the data on disaster risk reduction which newly established and improved

The achievement in this term: After grasping the issues and challenges of the current status of legal frameworks of DRR in Mongolia for each Output, development of guidelines, agreements, standards of seismic diagnosis and strengthening, teaching materials have been just started at each WG. In order to ensure sustainability after the Project, each activity is planned and implemented so that guidelines and other related outputs which will be developed in the Project are approved by NEMA, MCUD or MECSS through their standard procedures.

#### **1-5 Changes of Risks and Actions for Mitigation**

##### Activity 1.1.2 To develop guidelines on improvement of legal frameworks and plans, assessment of disaster risk and database on disaster risk reduction

At the start of the Project, it was considered the formulation of the guideline for preparation system and the guideline for disaster prevention as one of activities in Activity 1.1.2 based on the contents of the PDM which was developed and approved when the amended law of disaster protection was still a draft one. However, as explained in Section 1-2, the articles and the contents of rules and regulations directed to be formulated in a draft of amended law which became occasions to prepare the both guidelines were modified in the official amended law of disaster protection, and the policy of preparation of both guidelines in the Project needs to be changed. In the case of changing the policy of preparation of both guidelines, the description of "Note 1-1) Amended Law of Disaster Protection "8.2 Rules of risk evaluation", "9.3 Guidelines and methodologies to develop disaster management plan", "12.1 Guidelines for preparation system", and "13.2 Rules and regulations of disaster management", and etc.." in the PDM might need to be changed. It should be confirmed whether the change of the description of Note 1-1) in PDM is necessary.

**Activity 1.3.1 To identify problems and challenge of monitoring, report, evaluation and disclosure of disaster protection plan at national and local levels**

In the WG1 activity, two pilot aimags are assumed for revision of the local disaster management plan, but these targeted places have not been selected yet. After selection of two aimags in the WG2, it will be discussed in the Steering Committee and the JCC in order to receive approval.

**Activity 2.2.1 To develop guidelines-methodologies on seismic strengthening and reconstruction of buildings**

In Mongolia there are few examples of seismic strengthening of buildings,, it is effective to identify specific target structures for creating examples in the preparation of guidelines on seismic strengthening of buildings and reconstruction. For this reason "Activity 2.2.2 (To support the introduction and dissemination of seismic strengthening techniques for reconstructing collective housing, kindergarten, schools, hospital, national buildings and design the reconstruction and seismic strengthening of each type of buildings a pilot) will be started earlier than the initial work plan.

**Activity 3.2.2 To develop materials for the training on disaster risk reduction education and raising awareness, and implement the training for the target groups in pilot areas**

In the WG3 activity, three different places selected from urban area, Ger area (unplanned area), and rural area are assumed as the pilot areas for the training on DRR education and raising awareness but these pilot places have not been identified yet. After selection of three places in the WG3, it will be discussed in the Steering Committee and the JCC in order to receive approval.

**1-6 Progress of Actions undertaken by JICA**

N/A

**1-7 Progress of Actions undertaken by Gov. of Mongolia**

**(1) Output1**

The necessity of compilation of the guideline for preparation system and the guideline for disaster prevention in this Project will be discussed in Mongolia side and in JCC.

The pilot areas for Activity 1.3.1 have been proposed by NEMA, namely UB City, Darkhan-Uul and Khentii. These candidates will be approved by JCC.

**(2) Output2**

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Under consultation of NEMA and MCUD, CDC made efforts to examine TOR and to select appropriate CST such as MACE (Mongolian Association of Civil Engineers) to promote the establishment of standards, so that the Activity 2.2.2 will start earlier than planned.

N/A

**1-8 Progress of Environmental and Social Considerations (if applicable)**

N/A

**1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)**

N/A

**1-10 Other remarkable/considerable issues related/affect to the project (such as other JICA's projects, activities of counterparts, other donors, private sectors, NGOs etc.)**

Output 2: the project on seismic diagnosis and strengthening of school buildings targeted in Ulaanbaatar city are being implemented by World Bank. Since this project is related to the activity of the Output 2 in the Project, information gathering for this project is carried out continuously. It is assumed that the output in the World Bank project is mentioned as one of referential documents in the guidelines for seismic diagnosis and strengthening of buildings in the Project.

Output 3: MECSS is working with World Vision Mongolia to establish a platform for information sharing among school DRR personnel. For the purpose of information sharing, the JET of WG3 participates in events of their activity as an observer.

Outcome 3: It turned out that World Vision Mongolia is carrying out similar activities in development of teaching materials for DRR education and raising awareness. The JET of WG3 continues to discuss this matter with NEMA with a view to the division of the activities for development of materials by disaster type.

**2. Delay of Work Schedule and/or Problems (if any)**

**2-1 Detail**

The delay of each WG activity is concerned due to the busy schedule of WG members. The WG meetings were sometimes postponed.

**2-2 Cause**

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Handwritten initials 'KO' in black ink.



Concentration of works and events which Mongolian side C/P has to deal with for each organization. Participation of overseas trainings implemented by other donors, etc.

**2-3 Action to be taken**

The JET explains the significance of the activities in the Project and effects of the output at each organization to supervisors of each Mongolian side C/P continuously in order to get their understanding of the Project. And also the JET requests the sharing of event schedule adequately. National staff in the Project confirms the working progress by Mongolian side C/P continuously.

**2-4 Roles of Responsible Persons/Organization (JICA, Gov. of Mongolia, etc.)**

N/A

**3. Modification of the Project Implementation Plan**

**3-1 PO**

N/A

**3-2 Other modifications on detailed implementation plan**

(Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HDQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)

N/A

**4. Preparation of Gov. of Mongolia toward after completion of the Project**

In this term, the specific policy and actions are not discussed yet.

**II. Project Monitoring Sheet I & II as Attached**



**Project Monitoring Sheet I (Version.2 as of May 31, 2017)**

**Version 2**  
**Dated June 29, 2017**

**Project Title:** Project for Strengthening the National Capacity of Earthquake Disaster Protection and Prevention in Mongolia  
**Implementing Agency:** National Emergency Management Agency (NEMA)  
**Target Group:** NEMA, Ministry of Construction and Urban Development, Ministry of Education, Culture and Science, General State Inspection Agency, Emergency Management Department of the Capital City (EMDC), Construction Quality and Safety Department, Master Planning Agency of Capital City


**Period of Project:** December 2016 to November 2019

Narrative Summary		Objectively Verifiable Indicators		Means of Verification	Important Assumption	Achievement	Remarks
<b>Overall Goal</b> Seismic risk will be reduced		<ol style="list-style-type: none"> <li>Number of the approved guideline, rules, provisions</li> <li>Number of white paper open to public</li> <li>Number of the executed seismic assessment</li> <li>Number of the seismic strengthened building</li> <li>Number of implemented activities on</li> </ol>	Study by NEMA	The policy on disaster risk reduction will not be changed in Mongolia.			
<b>Project Purpose</b> The Capacity of National Emergency Management Agency will be enhanced through the activities for strengthening the countermeasures for seismic risk.		<ol style="list-style-type: none"> <li>The number of the approved guidelines and agreement</li> <li>The number of the data on disaster risk reduction which newly established and improved</li> </ol>	Project report	NEMA expands the pilot activities in other aimags and sums.	After grasping the issues and challenges of the current status of legal frameworks of DRR in Mongolia for each Output, development of guidelines, agreements, standards of seismic diagnosis and strengthening, teaching materials has been just started at each WG.	In order to ensure sustainability after the Project, each WG makes it a goal to get an approval of guidelines and other related outputs which will be developed in the Project from NEMA, MCUD or MECSS through their standard procedures.	
<b>Outputs</b> 1. Capacity for data collection on disaster risk reduction and coordination among related organizations will be enhanced.  2. Capacity of public administration officer related with the seismic assessment and seismic strengthening for buildings will be enhanced.  3. Implementing plan on disaster risk reduction education and awareness raising activities will be developed and realized.		<ol style="list-style-type: none"> <li>The number of guidelines, operational rules, provisions which are developed.                             <ol style="list-style-type: none"> <li>The number of the draft of agreement, developed and participants who participated in the training programs on agreements</li> <li>White paper on disaster risk reduction</li> </ol> </li> <li>Guideline for seismic assessment                             <ol style="list-style-type: none"> <li>The number of the participants in the training program on seismic assessment</li> <li>Guideline for seismic strengthening                                     <ol style="list-style-type: none"> <li>The number of the training program on seismic strengthening</li> </ol> </li> <li>The number of the cases of delivering classes on disaster risk reduction based on the activities of the Project.                                     <ol style="list-style-type: none"> <li>The number of visitors in Training Center</li> </ol> </li> </ol> </li> </ol>	Project report	<ol style="list-style-type: none"> <li>The counterparts from NEMA, the Ministry of Construction and Urban Development and the Ministry of Education continue to work in the same position.</li> <li>Participants in training programs continue to work in the same position.</li> <li>The relation among related organizations is maintained.</li> <li>Exchange information is maintained among the related organizations.</li> </ol>	<p>The WG1 has just created the basic frameworks of the guideline of risk assessment and the guideline of disaster management plan.</p> <p>The WG1 has created the draft manual of agreement preparation procedure and started to create an agreement on the field of information and communication.</p> <p>The WG1 has gotten an approval of the work plan to prepare the white paper from Head of NEMA.</p> <p>The WG2 has just started to develop the guideline for seismic assessment. For the purpose of technical transfer of seismic diagnosis in Japan, the first seminar was held on April 20th, 2017. There are 25 attendees at this seminar.</p> <p>The WG2 has just started to develop the guideline for seismic strengthening. For the purpose of technical transfer of seismic strengthening in Japan, the first seminar was held on May 3rd, 2017. There are 22 attendees at this seminar.</p> <p>The WG3 has just started to prepare the guidelines and teaching materials for DRR education and raising awareness.</p>		

DB

S.M.

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Activities	Inputs	Important Assumption
<p>1.1.1 To identify problems and challenges on implementation of legal frameworks of disaster risk reduction</p> <p>1.1.2 To develop guidelines on improvement of legal frameworks and plans, assessment of disaster risk and database on disaster risk reduction</p> <p>1.1.3 To develop new regulation and the drafts (note 1-1) of revised version of regulation on implementation of Law of disaster protection</p> <p>1.2.1 To develop the draft of the agreement (note 1-2) which shows the coordination and cooperation among NEMA and related organizations</p> <p>1.2.2 To realize training programs for disseminating the agreement mentioned in 1.2.1 and strengthening the coordination structure among organizations related with disaster risk reduction</p> <p>1.3.1 To identify problems and challenge of monitoring, report, evaluation and disclosure of disaster protection plan at national and local levels (note 1-3))</p> <p>1.3.2 To revise these plans and make a manual for the revision of disaster protection plan</p> <p>1.3.3 To improve the present system (note 1-4)) which collect and analyze information on disaster risk reduction</p> <p>1.3.4 To develop a white paper on disaster risk reduction which let the Mongolian people know the progress on implementation, monitoring, evaluation of disaster risk reduction plan at national and local levels through the activities of 1.3.1 to 1.3.3</p> <p>1.3.5 To improve the system of database on seismic strength of buildings, infrastructure and lifeline (note 1-5))</p> <p>2.1.1 To analyze the manual of seismic assessment of buildings and lifeline (note 2-1)) based on the context of the Law of Disaster Protection and develop the draft of revised version</p> <p>2.1.2 To develop guidelines-methodologies (note 2-2)) which show the method for implementing seismic assessment for buildings and lifelines, and how to use equipment</p> <p>2.1.3 To implement training programs (note 2-3)) for enhancing the knowledge and capacity of experts who assess the seismic strength of buildings and lifeline</p> <p>2.2.1 To develop guidelines-methodologies on seismic strengthening and reconstruction of buildings</p> <p>2.2.2 To support the introduction and dissemination of seismic strengthening techniques for reconstructing collective housing, kindergarten, schools, hospital, national buildings and design the reconstruction and seismic strengthening of each type of buildings a pilot</p> <p>2.2.3 To realize training programs with the participation of NEMA for enhancing knowledge and capacity of the experts who implement seismic strengthening of buildings</p>	<p><b>The Mongolian Side</b></p> <p>Assignment of counterparts</p> <ul style="list-style-type: none"> <li>- Project Director</li> <li>- Project Managers</li> <li>- Project Coordinator</li> <li>- Project Members</li> </ul> <p>For Output 1</p> <ul style="list-style-type: none"> <li>- Policy Coordination and Cooperation Department, NEMA</li> <li>- Disaster Operational Department, NEMA</li> <li>- Disaster Prevention Department, NEMA</li> <li>- Disaster Research Institute, NEMA</li> <li>- Emergency Management Department of Capital City (EMDC)</li> </ul> <p>For Output 2</p> <ul style="list-style-type: none"> <li>- Disaster Operational Department, NEMA</li> <li>- Disaster Prevention Department, NEMA</li> <li>- Ministry of Construction and Urban Development</li> <li>- Master Planning Agency of Capital City</li> <li>- General State Inspection Agency</li> </ul>	<p><b>The Japanese Side</b></p> <p>Dispatch of Experts</p> <ul style="list-style-type: none"> <li>- Leader</li> <li>- Disaster Risk Management</li> <li>- Disaster Risk Reduction Framework</li> <li>- Disaster Risk Reduction Information</li> <li>- Seismic Strengthening Assessment</li> <li>- Seismic Strengthening Method</li> <li>- Seismic Strengthening Design</li> <li>- Disaster Risk Reduction Education</li> <li>- Disaster Risk Reduction at Community Level</li> <li>- Educational Material Development</li> </ul> <p>Provision of Equipment</p> <ul style="list-style-type: none"> <li>- Equipment for seismic assessment</li> <li>- Earthquake simulation experience equipment for Training Center such as shaking table</li> </ul> <p>Training in Japan and/or the third countries</p>
		<p>Pre-Conditions</p> 

<p>3.1.1 To develop a guideline which shows contents, method and implementation way of disaster risk reduction education in kindergarten and schools based on Law of Disaster Protection</p> <p>3.1.2 To develop textbooks, supplementary readers and educational materials related with disaster risk reduction education in kindergarten and primary and secondary schools</p> <p>3.1.3 To implement training programs for the instructors (note 3-1)) of Teacher Training Institutes and experts of educational department in local governments, using the guideline and materials developed in 3.1.1 and 3.1.2, respectively</p> <p>3.1.4 To implement the training program for teachers by the instructors and experts who received the training programs mentioned in 3-1.3</p> <p>3.2.1 To develop comprehensive work plan (note 3-2)) for disaster risk reduction education and raising awareness at national and local levels</p> <p>3.2.2 To develop materials for the training on disaster risk reduction education and raising awareness, and implement the training for the target groups (note 3-3)) in pilot areas</p> <p>3.2.3 To develop and implement educational and training program for implementing disaster prevention and simulation program in Training Center</p>	<p>For Output 3</p> <ul style="list-style-type: none"> <li>- Disaster Prevention Department, NEMA</li> <li>- Ministry of Education, Culture and Science</li> <li>- Teacher Training Institute</li> <li>- Educational Research Institute</li> <li>- Emergency Management Department at aimag level</li> </ul>
<p>Notes</p> <p>1-1) Amended Law of Disaster Protection "9.2 Rules of risk evaluation", "9.3 Guidelines and methodologies to develop disaster management plan", "12.1 Guidelines for preparation system", and "13.2 Rules and regulations of disaster management", and etc..</p> <p>1-2) Contracts, cooperation plan and MoU are equivalent to agreement mentioned in the PDM</p> <p>1-3) National level, UB city and two provinces are the target areas</p> <p>1-4) Improvement of existing "Disaster Information Sharing System"</p> <p>1-5) Improve existing database for sharing with related agencies (Components of the database system of UB city are under investigation)</p> <p>2-1) Buildings: Buildings, Road and Bridge Lifeline: Warm water pipeline, Water supply and sewerage, electric transmission and distribution facilities</p> <p>2-2) Guidelines are regarded as operational guidelines by Resolution of Minister</p> <p>2-3) Target: Ministry of Construction and Urban Development, Ministry of Education, Culture and Science, UB city, General State Inspection Agency, province level officers in charge of buildings, infrastructure and lifeline, association of architects, association of design engineers etc.</p> <p>3-1) Instructors of Institute of Teacher's Professional Development, experts of training departments of provinces and cities, and certificated teacher's instructors</p> <p>3-2) A document to clarify the targets, implementers and instructors of public education and training, and the contents of required education and training activities for the purpose of ensuring of nationwide implementation of education and training program to all the necessary target stakeholders</p> <p>3-3) Target groups: (1) Staff of NEMA Disaster Prevention Department/ Emergency Operation Department, Training Center, and Emergency Management Departments of Cities, Provinces, and Districts, (2) Members in charge of disaster prevention in Disaster Protection Services at National, Province and City levels, (3) Heads of governor's offices of Provinces, Sums, and Districts (4) Heads of Bsgs and Khorsoos, (5) Coordinators of civil activities in Provinces, Districts, and Khorsoos and (6) Volunteers ("only in pilot areas)</p> <p>3-4) The facility that the EIMDC is constructing and preparing for providing DRR training and education to the citizens in Khan Ului district in UB city.</p>	<p>&lt;Issues and countermeasures&gt;</p> <p>The delay of each WG activity is concerned due to the busy schedule of WG members. The WG meetings were sometimes postponed by concentration of works and events which Mongolian side C/P has to deal with for each organization.</p> <p>The JET explains the significance of the activities in the Project and effects of the output at each organization to supervisors of each Mongolian side C/P continuously in order to get their understanding of the Project. And also the JET requests the sharing of event schedule adequately.</p>

Project Title: The Project for Strengthening the National Capacity of Earthquake Disaster Protection and Prevention in Mongolia

Version 2  
Dated June 26, 2017

Implementer	2016				2017				2018				2019				Remarks	Issue & Countermeasures
	Jan	Feb	Mar	Apr	Jan	Feb	Mar	Apr	Jan	Feb	Mar	Apr	Jan	Feb	Mar	Apr		
<b>Implementer</b>																		
<b>Support</b>																		
<b>Equipment</b>																		
<b>In-country/Third country Training</b>																		
<b>Sub-Activities</b>																		

Activities	2017		2018				2019				Responsible Organization	Issue & Countermeasures	
	Jan	Feb	Jan	Feb	Mar	Apr	Jan	Feb	Mar	Apr			
1.1.1 To identify problems and challenges on implementation of legal frameworks of disaster risk reduction													
1.1.1.1 To review the current legal frameworks of disaster risk reduction													
1.1.1.2 To summarize the problems and challenges													
1.1.2 To develop guidelines on improvement of legal frameworks and plans, assessment of disaster risk, and database on disaster risk assessment													
1.1.2.1 To develop the guideline of risk assessment													
1.1.2.2 To develop the guideline of disaster management plan													
1.1.2.3 To develop the guideline of the disaster preparedness plan													
1.1.2.4 To develop the guideline of earthquake risk management													
1.1.2.5 To develop the Guideline of Database													

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Task	Status		Comments	Priority	Start Date	End Date	Responsible Party	Status	Comments
	Plan	Actual							
1.1.3 To develop new regulation and the draft of revised version of regulation on implementation of the Law of Disaster Protection									
1.1.3.1 To examine the contents of the Law of Disaster Protection and extract regulations to be newly established and/or to be revised									
1.1.3.2 To develop new regulations and amend regulations									
1.1.3.3 To check the new and revised regulations in the process of approval and enforcement									
1.2.1 To develop the form of the agreement which shows the basic idea and cooperation among NEMA and related organizations									
1.2.1.1 To extract items that need to be included in agreement to build cooperative system between NEMA and related organizations									
1.2.1.2 To organize the items to be described in the agreement on the extracted activity items, coordinate with related agencies, and conduct agreement									
1.2.2 To revise training programs for disseminating the agreement mentioned in 1.2.1									
1.2.2.1 To prepare training program on agreement between related organizations									
1.2.2.2 To implement the training program									
1.3.1 To identify problems and challenges of disaster relief, evacuation and distribution of disaster prevention plan in National and local level									
1.3.1.1 To conduct workshop for identifying problems on the national disaster prevention plan									
1.3.1.2 To conduct workshop for revision of disaster prevention plan in US City									
1.3.1.3 To conduct workshop for revision of disaster prevention plan in foreign country									
1.3.1.4 To conduct workshop for revision of disaster prevention plan in Gobe-Ala Atang									
1.3.2 To make the plan made in 1.3.1 and make a manual for the revision of disaster prevention plan									
1.3.2.1 To revise existing disaster prevention plan									
1.3.3 To improve the present system which collect and analyze information on disaster risk reduction									
1.3.3.1 To identify problems and scope of disaster information system									
1.3.3.2 To identify rules and regulation on data collection and information sharing									
1.3.3.3 To prepare the database guideline based on the result in 1.3.3.2									
1.3.3.4 To improve the present system and system operation manual									
1.3.4 To elaborate white paper on disaster risk reduction which fit the Mongolian people's way									

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 1.1.3.1 To examine the contents of the Law of Disaster Protection and extract regulations to be newly established and/or to be revised  
 1.1.3.2 To develop new regulations and amend regulations  
 1.1.3.3 To check the new and revised regulations in the process of approval and enforcement  
 1.2.1 To develop the form of the agreement which shows the basic idea and cooperation among NEMA and related organizations  
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 1.3.1.3 To conduct workshop for revision of disaster prevention plan in foreign country  
 1.3.1.4 To conduct workshop for revision of disaster prevention plan in Gobe-Ala Atang  
 1.3.2 To make the plan made in 1.3.1 and make a manual for the revision of disaster prevention plan  
 1.3.2.1 To revise existing disaster prevention plan  
 1.3.3 To improve the present system which collect and analyze information on disaster risk reduction  
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 1.3.3.2 To identify rules and regulation on data collection and information sharing  
 1.3.3.3 To prepare the database guideline based on the result in 1.3.3.2  
 1.3.3.4 To improve the present system and system operation manual  
 1.3.4 To elaborate white paper on disaster risk reduction which fit the Mongolian people's way

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Item No.	Item Description	2016		2017		2018		Remarks
		Plan	Actual	Plan	Actual	Plan	Actual	
1	the progress on implementation, monitoring, evaluation of disaster risk reduction plans at regional and local levels through the activities of 1.3.1 and 1.3.2							
2	1.3.4.1 To conduct discussion on the contents and format of white paper							
3	1.3.4.2 To prepare the white paper preparation plan							
4	1.3.4.3 To discuss white paper							
5	1.3.5 To improve the system of seismic hazard of buildings, infrastructure and lifelines							
6	1.3.5.1 To identify the present database system							
7	1.3.5.2 To improve the present database system							
8	Output 2:							
9	2.1.1 To analyze the manual of seismic assessment of buildings and lifelines based on the content of the Law of Disaster Protection and amend the draft of revised version							
10	2.1.1.1 To identify problems of present specification of seismic resistance							
11	2.1.1.2 To review the present specifications and to develop new code of seismic resistance							
12	2.1.2 To develop guidelines-technologies which show the method for implementing seismic assessment for buildings and lifelines, and how to improve them							
13	2.1.2.1 To consult the contents of Guidelines regarding the seismic evaluations							
14	2.1.2.2 To develop the seismic evaluation of RC and PC building							
15	2.1.2.3 To develop the seismic evaluation of masonry building							
16	2.1.2.4 To develop the seismic evaluation of infrastructure and lifeline							
17	2.1.3 To implement training programs for enhancing the knowledge and capacity of experts who assess the seismic strength of buildings and lifelines							
18	2.1.3.1 To consult training program of the guidelines							
19	2.1.3.2 To implement training for the evaluation of seismic resistance							
20	2.2.1 To develop guidelines-methodologies on matters concerning the reconstruction of buildings							
21	2.2.1.1 To consult the contents of guidelines-methodologies							
22	2.2.1.2 To discuss the guidelines-methodologies							

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Task / Description	Phase 1		Phase 2		Phase 3		Phase 4		Phase 5		Phase 6		Phase 7		Status	Notes
	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual		
2.2.2 To support the introduction and dissemination of seismic strengthening techniques for nonresidential collective housing, through training actions, technical, regional and sectoral strengthening of each type of buildings a final design																
2.2.3 To evaluate the existing and identify strengthening actions and interventions in buildings																
2.2.4 To identify training programs with the participation of the regional knowledge management network and implement existing strengthening of buildings																
2.2.5 To plan a training program																
2.2.6 To implement training programs																
2.2.7 To review current situation of DHR in secondary schools consulting with competent practices																
2.2.8 To review the guidance through the Working Group (WG)																
2.2.9 To develop educational materials such as textbooks and supplementary reading for DHR education in kindergarten and primary and secondary schools through the WG activities																
2.2.10 To establish Task Forces for the development of the educational materials (one task force each for kindergarten, primary, and secondary schools)																
2.2.11 To organize workshops and disseminate and decide the contents of educational materials to be developed																
2.2.12 To develop and finalize the educational materials through the Task Force and the WG activities																
2.2.13 To implement training programs for the trainers of Teacher Training Institutes and requests of educational department in local authorities through the WG activities																
2.2.14 To formulate the training programs through workshops and the WG activities																
2.2.15 To supplement pilot training																
2.2.16 To review the training and formulate training manuals																
2.2.17 To implement the training program for teachers by the instructors and experts who have experience in the training programs mentioned in 2.2.14																
2.2.18 To support the training for teachers																
2.2.19 To review the result of the training of 2.2.17 and 2.2.18 through workshops and the WG activities and compile lessons learnt																

Output 3:

3.1.1 To review current situation of DHR in secondary schools consulting with competent practices

3.1.2 To review the guidance through the Working Group (WG)

3.1.3 To develop educational materials such as textbooks and supplementary reading for DHR education in kindergarten and primary and secondary schools through the WG activities

3.1.4 To establish Task Forces for the development of the educational materials (one task force each for kindergarten, primary, and secondary schools)

3.1.5 To organize workshops and disseminate and decide the contents of educational materials to be developed

3.1.6 To develop and finalize the educational materials through the Task Force and the WG activities

3.1.7 To implement training programs for the trainers of Teacher Training Institutes and requests of educational department in local authorities through the WG activities

3.1.8 To formulate the training programs through workshops and the WG activities

3.1.9 To supplement pilot training

3.1.10 To review the training and formulate training manuals

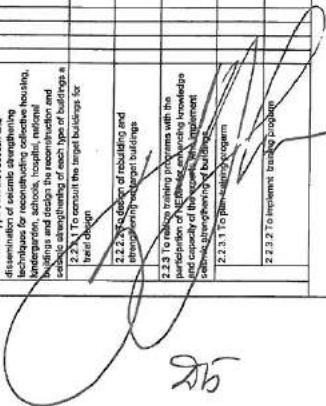
3.1.11 To implement the training program for teachers by the instructors and experts who have experience in the training programs mentioned in 3.1.8

3.1.12 To support the training for teachers

3.1.13 To review the result of the training of 3.1.11 and 3.1.12 through workshops and the WG activities and compile lessons learnt

The WG member visited, discussed, reviewed, and updated the current content of the DHR and safety related study in the Course of Study (standards) in Margalla.

The study for development of the guidelines for DHR education in kindergarten, elementary school and junior high school is getting prepared on the basis of the existing standards. The WG member visited the schools and discussed the current status of DHR education in the schools. A draft of the workshop will be held on 12.13.





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3.2.1 To develop comprehensive work plan for disaster risk reduction education and reaching awareness of national and local levels	Plan	Actual	2017	2018	2019	2020	Remarks	Issue	Solution																
										2017				2018				2019				2020			
										I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
3.2.1.1 To interview called organizations about legislation and cooperation	△	△	○																						
3.2.1.2 To interview called organizations about legislation and cooperation	△	△	○																						
3.2.1.3 To implement regular meetings	△	△	○																						
3.2.1.4 To seek a website for the coordination and being informative among the relevant organizations	△	△	○																						
3.2.2 To develop materials for the training, disaster risk reduction education and reaching awareness of national and local levels	△	△	○																						
3.2.2.1 To review existing workbooks of IDRR education for communities	△	△	○																						
3.2.2.2 To discuss and develop training materials	△	△	○																						
3.2.2.3 To implement Training of Trainers workshop	△	△	○																						
3.2.2.4 To implement workshops in the pilot area	△	△	○																						
3.2.3 To develop and implement educational and training materials for implementing disaster preparedness and mitigation program in Training Center																									
3.2.3.1 To generate and consider a study program for the training center	△	△	○																						
3.2.3.2 To assess materials and equipment for improvement of training center	△	△	○																						
3.2.3.3 To support procurement of equipment	△	△	○																						
3.2.3.4 To develop educational materials such as movie, exhibition, etc.	△	△	○																						
3.2.3.5 To operate training program	△	△	○																						
3.2.3.6 To examine expansion to other regions	△	△	○																						
<b>Duration / Phasing</b>																									
<b>Monitoring Plan</b>																									
Lower Coordinating Committee																									
Set-up the Detailed Plan of Operation																									
Submission of Monitoring Sheet																									
Reports/Documents																									
Work Plan / Project Interim Report																									
Project Completion Report																									
Public Relations																									

# Annex 4: Presentation documents for the progress of Activities for each Working Group

## Progress of WG1 Activity

"THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA"



## Contents

- ▶ WG1 Members
- ▶ Progress
- ▶ Issues & challenges and Future Schedule
- ▶ Result of inputs of lessons learned from the first training in Japan
- ▶ Proposed training contents for the next training in Japan



## WG1 Member

Member	Organization	WG1 Chairperson	WG1 Vice-Chairperson	WG1 Secretary	WG1 Member	WG1 Member
Chairperson	Ministry of Natural Resources and Environmental Conservation					
Vice-Chairperson	Liberal Education University of Mongolia					
Secretary	Ministry of Natural Resources and Environmental Conservation					
Member	Disaster Risk Management Dep., NEMA					
Member	Public Administration and Cooperation Dep., NEMA					
Member	Disaster Operation Dep., NEMA					
Member	Research Dep., NEMA					
Member	DRMC					
Member	DRMC					
Member	Disaster Risk Management Dep., NEMA					
Member	Public Administration and Cooperation Dep., NEMA					
Member	Disaster Operation Dep., NEMA					
Member	Research Dep., NEMA					
Member	Disaster Risk Management Dep., NEMA					
Member	Public Administration and Cooperation Dep., NEMA					
Member	Disaster Operation Dep., NEMA					
Member	Research Dep., NEMA					

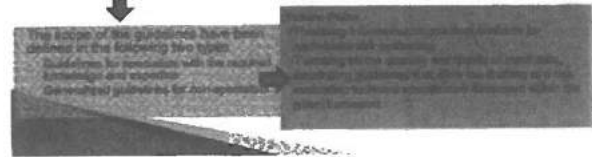
## Sub-Working Group 1.1 Risk Evaluation Guidelines

### Progress of Activities

- ▶ Updating and improving guidelines on disaster risk and vulnerability evaluation (New guidelines on disaster risk evaluation)
- ▶ Developing new disaster risk evaluation guidelines that take into account each disaster type.

In the finalization process

- ▶ Earthquake disaster risk evaluation guidelines



## Sub-Working Group 1.2 – Guidelines on the DRR Plan

### Progress Report

Work completed by the WG

1. Translation of the DRR plan of Sapporo City, and the official DRR plan of Ministry of Land, Infrastructure, Transport and Tourism
2. Structure of the earthquake DRR guidelines, and initial draft of their contents
  - Chapter One: General Provisions
  - Chapter Two: Disaster Prevention Plan
  - Chapter Three: Emergency Management Plan
  - Chapter Four: Immediate restructuring and recovery plan

DB

## Sub Working Group 1.2 – Guidelines on the DRR Plan

### Progress Report

Work completed by the NEMA

1. The NEMA has studied the translated versions of the Japanese National DRR Plan, the DRR plan of Sapporo City, and the DRR plans of the Ministry of Land, Infrastructure, Transport and Tourism, and the Ministry of Health, Labour and Welfare, and has commenced activities to introduce best practices into the Mongolian earthquake DRR plan.
2. The NEMA has provided feedback and made amendments to the earthquake DRR guidelines and the initial draft of their contents.
3. In order to ensure the implementation of decree A/60 issued by the head of the NEMA on March 30<sup>th</sup>, 2017, the NEMA is cooperating with the working group to draft DRR plan guidelines according to the rules for developing guidelines specified in the Disaster Law.

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**Sub Working Group 1.2 – Guidelines on the DRR Plan  
Progress Report**

The following decisions have been made during the WG meeting.

1. Approved the structure of the entity in charge of developing the earthquake DRR plan.
2. Appointed the official in charge of drafting the guidelines for developing DRR plans.
3. Study and implementation of the best practices found in the Sapporo City DRR plan, and the official DRR plan of the Ministry of Land, Infrastructure, Transport and Tourism.
4. Developed the structure of the earthquake DRR guidelines, and the initial draft of their contents.

**Sub Working Group 1.2 – Guidelines on the DRR Plan**

**Issues and Challenges**

- Research on determining the aim of the "Guidelines on Preparedness" and the "Disaster Management Guidelines" to be developed within the framework of the project;
- ✓ Determining whether it is possible to incorporate the Guidelines on Preparedness into the DRR plan guidelines in the "Disaster Prevention Plan";
- ✓ Determining whether Japanese input is required in the Disaster Management Guidelines used by the NEMA to supervise the DRR plans of other institutions.

**Sub Working Group 1.2 – Guidelines on the DRR Plan**

**Future Activities**

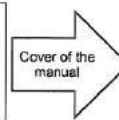
- Developing the contents of each chapter of the guideline;
- Researching methods for utilizing the earthquake disaster risk evaluation results;
- Researching the opportunities for cooperation with the earthquake DRR plans of the capital, aimags, sums and districts;
- Researching the opportunities for cooperation with the State DRR Plan (earthquakes);
- Verifying whether it is possible to separate the disaster prevention plan into "Prevention Planning" and "Preparedness Planning".

**Sub-Working Group 1.3  
Agreements**

➢ Progress Report

Agreement Sector	Priority Emergency Phone Lines	Communication Disruptions from M/G	Disruption from Public Mobile Cellular	Railway Damages	Food, Clothing Information or Resources	Preparation of Medical Reserves
State of research on disaster protection activities	Researched	○ Researched	○ Researched	△ Research underway	△ Research underway	Not started
Discussion on the agreement	Institutions other than NEMA	Discussion underway	Agreement developed	Not started	Not started	Not started
	Agreements WG	Main draft is being amended	Draft developed	Draft developed	Not started	Not started
Agreement drafting activities	Starting the following week	Not started	Not started	Not started	Not started	Not started

• The agreement preparation manual is currently being amended in parallel with activities to conclude agreements. The latest version is Ver0.7



**Sub-Working Group 1.3  
Agreements**

➢ Issues and Challenges

○ Classified information and agreements

• It is not possible to establish agreements where classified information is involved.

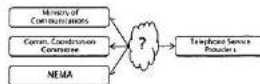
Example: National fuel reserves

○ Coordination with other institutions

• It is necessary to determine the most appropriate institutions for the agreements.

Example: The use of priority emergency telephone lines in the telecommunications sector

➢ Future Activities



	2017				2018			
	6	8	10	12	2	4	6	8
Establishing Agreements	█	█	█	█	█	█	█	█
Manual	█	█	█	█	█	█	█	█
Preparation	█	█	█	█	█	█	█	█
Training	█	█	█	█	█	█	█	█
Providing Info	█	█	█	█	█	█	█	█
Materials	█	█	█	█	█	█	█	█

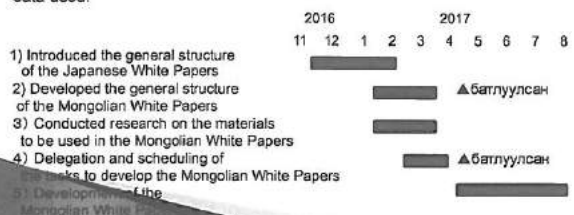
**Sub-Working Group 1.4  
White Papers**

Developing the White Papers, publicizing them, and drafting a manual containing the sequence of activities to carry out in order to ensure stable progress in the development of the White Papers by NEMA.

➢ Progress Report

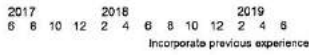
The objectives have been approved by the head of the NEMA, and the activities to develop the 2017 White Papers are underway.

The activities manual will include the summarized results of the materials and data used.



# Sub-Working Group 1.4 White Papers

- Issues and Challenges
- Collecting data from other sectors
  - Determined the departments and divisions responsible for each section of the White papers (approved by the head of the NEMA);
  - Determined the submission deadline for each section based on the working plan.
- Cooperation with other WGs
  - Identifying the items to include in the White Papers from the results of other WGs (Clarifying the information required from the disaster risk database of WGs) (Planned to be included starting from the 2018 White Papers)
- Future Activities



2017 White Papers

2018 оны White Papers



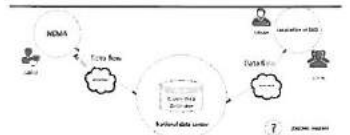
# Sub working group 1.5 Database guideline

## 1. Web based disaster spatial database and information sharing system "E-comi map"

### Working progress:

Improve and integrate current databases in NEMA based on web information sharing system "E-comi map" as well as developing spatial database.

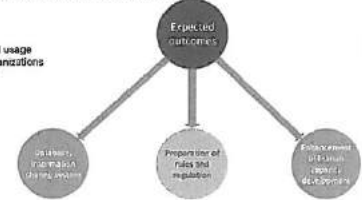
Advantage: Systematically keeping information, registration with good management and improving information sharing between NEMA and state organizations as well as public.



## 2. Expected outputs for improving current database in NEMA

### Main goal:

- Capacity enhancement of data collection and usage on DRR and coordination among related organizations



# Sub working group 1.5 Database guideline

## 3. Current issues:

### 1. Institutional and management issues:

- Management team or new organizational structure required in NEMA for sustainability of database and system management and operation

### 2. Technical issues:

- High necessity of server specification in national data center will be needed to upgrade.

### 3. Lack of cooperation:

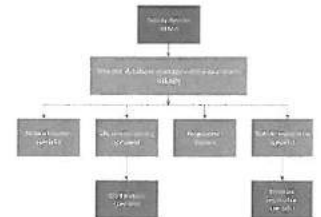
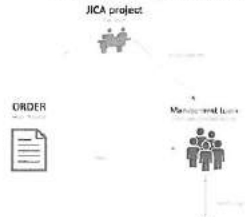
- Cooperative work with other state (ALMGaC), (CERD), (IAG) and local government agency (UPMPD) with specific contract for improving frequency of Information /spatial data/ collection and update.

# Sub working group 1.5 Database guideline

## 4. Proposal 1

### on Institutional and management issues:

- Option 1: Resolve the issue by establishment of management team under the NEMA (for short-term only)
- Option 2: Resolve issue by new structure (For long-term)



# Sub working group 1.5 Database guideline

## Proposal 2

### on Technical Issues :

- Technical survey implemented in February, 2017
- Coverage area: 21 provinces, Ulaanbaatar city
- Main results:
  - Status of Internet connection: Ulaanbaatar city and all center of provinces are sufficiently connected internet (100%)
  - Type of network: 80% of network is fiber-optic.
  - Total number of computers in emergency sector: Approx. 500

### Option 1. Purchase new high spec physical server



Budget required

### Option 2. Improving current specification of server in National data center



Progress: In May, 2017, completed the setup of E-comi map in National Datacenter.  
Current technical spec of server in NDC:  
Type of server: 4 rack server (vmware)  
CPU: 4 Core  
Random Access memory: 6GB  
HARD Drive capacity: 100GB  
Display CARD: 1  
BACKUP HDD: 1

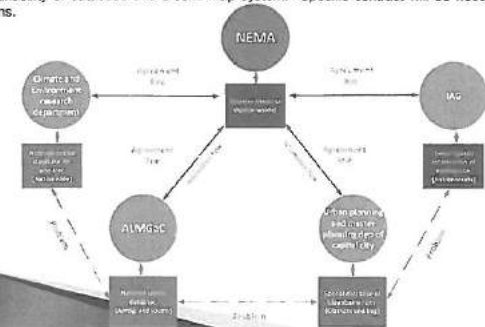
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# Sub working group 1.5 Database guideline

## Proposal 3:

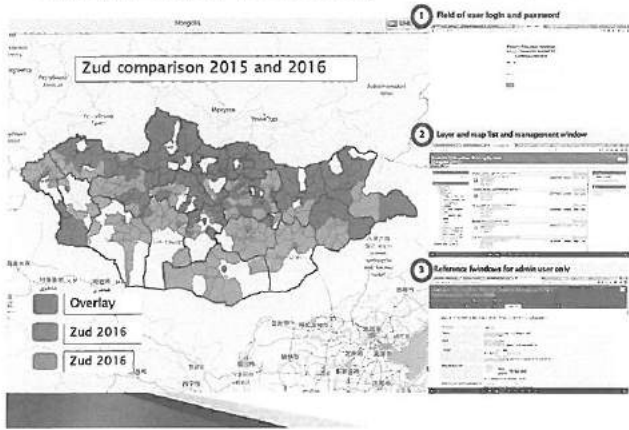
### on cooperation among state organizations

- Cooperative work on effective formation exchanging with state and local organizations for sustainability of database and e-comi map system. Specific contract will be necessarily for actions.



5.Example: Outputs of E-comi map

Sub working group 1.5  
Database guideline



Sub working group 1.5  
Database guideline

5.Further activities:

- › Preparation of guideline for improving current database in NEMA (expected in: March, 2018)
- › Preparation of operational manual for E-comi map users (expected in: March, 2018)
- › Preparation of proposal on new candidate members for sub working group 1.5 (Expected in: Sep, 2017)
- › Organize meeting and discussion with other state organization for cooperation on information exchanging (UPMPD of capital city, ALMGaC, IAG, CaERD) (expected in: March, 2017)
- › Organize training for operators of E-comi map system (expected in December, 2017)
- › Continuously reaching database, (Historical data transportation into E-comi map system and evaluation of Building diagnosis result will be included in database)

Result of inputs of lessons learned from the first training in Japan

- Lessons and knowledge learned from the training program
- › Historical information on the disasters that have occurred until now, and the legal environment that was formed on the basis of these experiences.
  - › Educational materials and manuals are developed on the basis of scientific studies on the causes of disasters and accidents.
  - › The losses due to disaster risks are evaluated, and the customary measures to take have been developed on the basis of experiences and methods accumulated throughout a long period of time.

- Application to the activities of the project
- › Introducing risk evaluation methods based on scientific study, and developing new "Earthquake Disaster Risk Evaluation Guidelines" to be included in the DRR plan.
  - › Developing new "Guidelines on Developing DRR Plans" based on Japanese methodologies and guidelines for developing DRR plans.
  - › Consolidating data on historical disasters and DRR in a database; and accumulating, managing, and exchanging chronological data through the White Papers.

Proposed training contents and candidates for the next training in Japan

Goals of the second training in Japan, with regard to Outcome 1 ①

**Issue 1** The Mongolian DRR plan places more emphasis on emergency management in the event of a disaster, and there is little experience in terms of measures such as risk reduction and prevention, ensuring preparedness, immediate restoration activities and recovery plans.

**Goal 1** Studying Japanese experiences in order to clarify the issues related to risk reduction and prevention, ensuring preparedness, immediate restoration activities and recovery plans; and gaining an understanding of policies and measures to take in order to address these issues.

Proposed training contents and candidates for the next training in Japan

Goals of the second training in Japan, with regard to Outcome 1 ②

**Issue 2** There is little knowledge on public participation in DRR plans, immediate restoration activities and recovery plans.

**Goal 2** Learning about the DRR capacity building activities organized for Japanese citizens, communities and regions; and applying this knowledge in DRR plans, immediate restoration activities and recovery plans.

Proposed training contents and candidates for the next training in Japan

Goals of the second training in Japan, with regard to Outcome 1 ③

**Issue 3** The DRR database has not yet been appropriately established and managed; The technical capabilities for utilizing the database have not been fully developed.

**Goal 3** Learning how the Japanese government utilizes the DRR database and how it is applied to the DRR plan, learning how to maintain the proper functioning and management of the database, and learning about measures to take when presenting data to the public.

Training Type	Contents
DRR Planning and Governance	<ul style="list-style-type: none"> <li>✓ Capital disaster prevention and preparedness plan, immediate restoration activities and recovery plan;</li> <li>✓ DRR governance system for cold regions;</li> <li>✓ Disaster prevention and preparedness plans for cities and regional areas;</li> <li>✓ Specificities of regional DRR plans and main amendments to be made to these plans.</li> </ul>
Public Participation	<ul style="list-style-type: none"> <li>✓ Public participation in disaster-resilient cities and activities to strengthen DRR capacity in regional areas;</li> <li>✓ Preparedness plan, emergency management system, and arrangement of temporary shelters of independent voluntary disaster relief organizations;</li> <li>✓ Sensory DRR training, DRR education for citizens, training programs and equipment, and their management.</li> </ul>
DRR Database	<ul style="list-style-type: none"> <li>✓ The use of the DRR database by state institutions, and promoting open data;</li> <li>✓ Developing earthquake emergency information transmission systems, and improved technology for damage evaluation.</li> </ul>



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# Progress of WG2 Activity

"THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA"

3rd Joint Coordination Committee  
June 29th, 2017

## Contents

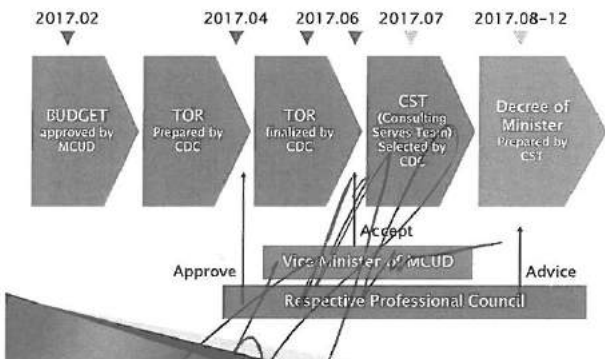
- ▶ WG2 Members
- ▶ Progress
- ▶ Issues & challenges and Future Schedule
- ▶ Result of inputs of lessons learned from the first training in Japan
- ▶ Proposed training contents for next training in Japan

## WG2 Members

Member	Organization/Institution	Sub-WG1 Seismic Evaluation of Buildings	Sub-WG2 Seismic Evaluation of Bridges and Tunnels	Sub-WG3 Seismic Strengthening of Buildings	Remark
D. Zanabazar (Coordinator)	MCUD	✓	✓	✓	
Z. Battulga (Coordinator)	NEMA	✓	✓	✓	
Sh. Uranchimeg	GASI	✓	✓		
B. Tsend-Ayush	UB City	✓		✓	
G. Serpuluya	CDC	✓		✓	
T. Galbadakh	NBMA		✓		
G. Erkhembayar	MCUD	✓		✓	
M. Oyunchimeg	MUST				Move to CST
b. Gantulga	ALCC	✓	✓		
B. Munkhsaikhan	GASI		✓		
Ts. Khulan	UB City	✓		✓	New Member

## Progress Overview

## Procedure to prepare Norms

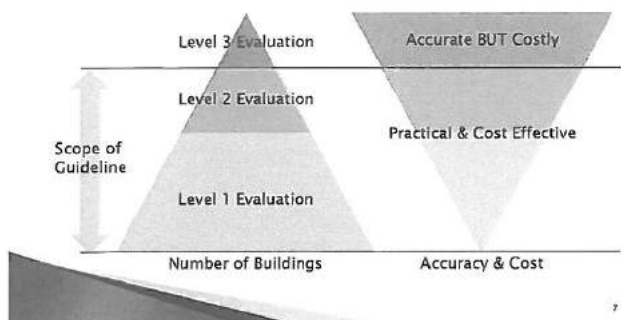


## Sub WG2-1 Seismic Evaluation of Buildings

- ▶ Progress
  - Prototype of Standards were prepared for further discussion.
  - Basic concept was established.
  - Issues in applying Japanese Codes into Mongolian buildings were identified.

## Sub WG2-1 Seismic Evaluation of Buildings

### Progress (cont'd)



## Sub WG2-1 Seismic Evaluation of Buildings

### Progress (cont'd)

Issues	Solutions (Discussion Required)
Determination of Target Seismic Capacity $I_{50}$	<ul style="list-style-type: none"> <li>Based on Mongolian Design Norms</li> <li>Reflection of Service Life?</li> </ul>
Compatibility among Evaluation Levels	<ul style="list-style-type: none"> <li>Adjustment based on Sample Evaluations</li> </ul>
Taking Mongolian Practice into Account	<ul style="list-style-type: none"> <li>Current practice shall properly be included in Norms</li> </ul>
Application to Passport	<ul style="list-style-type: none"> <li>Comparison to Existing Evaluations</li> <li>Examination of Differences</li> </ul>
Application to Building Certification	<ul style="list-style-type: none"> <li>Introduction of Seismic Performance Level based on the Relationship between <math>I_5</math> and <math>I_{50}</math></li> </ul>

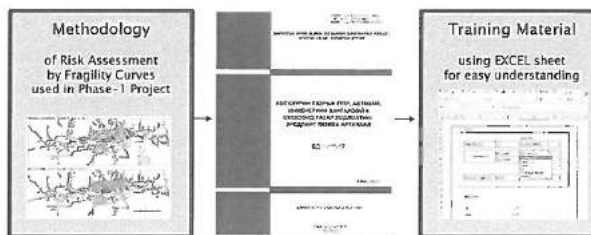
## Sub WG2-2 Seismic Evaluation of Infrastructures and Lifelines

### Progress

- Prototype of Norm was prepared.
  - Need to be translated into Mongolian language for approval by MCUD
- Training material is under preparation to instruct the standard to relevant organization
- Draft check sheet is under preparation
  - For Walk-down survey
  - Including items regarding to ground motion intensity and impact to society

## Sub WG2-2 Seismic Evaluation of Infrastructures and Lifelines

### Progress (cont'd)



## Sub WG2-2 Seismic Evaluation of Infrastructures and Lifelines

### Progress (cont'd)

No.	Item1	Item2
1	Ground Condition	<ul style="list-style-type: none"> <li>Soil Type</li> <li>Liquefaction Potential</li> </ul>
2	Pipe Condition	<ul style="list-style-type: none"> <li>Construction Year</li> <li>Material</li> </ul>
3	External Condition	<ul style="list-style-type: none"> <li>Corrosion</li> <li>Construction Quality</li> </ul>
4	Parts of Pipe	<ul style="list-style-type: none"> <li>Joint</li> <li>Equipment</li> </ul>
5	Pipe Support Structure	<ul style="list-style-type: none"> <li>Structural Capacity</li> </ul>
6	Seismic Information	<ul style="list-style-type: none"> <li><math>V_s</math></li> <li><math>R_{ms}</math></li> </ul>
7	Social Condition	<ul style="list-style-type: none"> <li>Social Impact</li> </ul>

## Issues & challenges and Future Schedule

### Issues & challenges

- Examination of application to Mongolian needs
  - Building & Structure certification
  - Passport
- Technology dissemination
  - Utilization of CDC and/or MACE

### Future Schedule

- Draft of Norm: Dec., 2017
- Training for seismic evaluation: Feb., 2018
- Training for seismic evaluation equipment : Feb., 2018
- Retrofit design: Jan., 2018
- Training for retrofit design: Sept., 2018



## Result of inputs of lessons learned from the first training in Japan

- ▶ What was learned?
  - Method of seismic evaluation and seismic retrofitting
  - Need of evaluation of secondary elements
  - Seismic retrofit can reduce the risk, even though earthquakes cannot be anticipated.
- ▶ Utilization of lessons learned
  - Modification of norm for seismic evaluation
  - Introduce  $I_s$  value into seismic evaluation
  - Introduce risk analysis method of Japan into seismic evaluation for lifeline

## Proposed training contents for next training in Japan

- ▶ Objective
  - Obtain knowledge to disseminate Japanese technologies on seismic evaluation and retrofitting in Mongolia
- ▶ Expectation on Training
  - Learn Japanese state-of-the-art methods
  - Know the actual procedures for seismic evaluation and retrofitting
  - Experience the Japanese practices
  - Discuss with Japanese engineers on seismic evaluation and retrofitting
  - Others



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## Working Group 3-1: Progress of Activities

"THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY  
OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA"  
3rd JCC Meeting  
Education Research Institute A. Enkhstogtokh

Walking Group Member (Mongol side)		Walking Group 3-1 Member (Japan side)	
	MECSS Myagmar		DRR education I Miki Kodama (Ms.)
	MECSS Guntartag Ch. Bujinnyam P.		DRR education II Yujiro Ogawa (Dr.)
	ERI (Education Research Institute) Enkhstogtokh A.		Development of disaster management teaching materials I Aurjagsal. B Yoko Ota (Ms.)
	ERI (Education Research Institute) Erdenechimg. B.		Community disaster management Tohikazu Hieshi (Dr.)
	ERI (Education Research Institute) Mongolkhutun. G.		Local Consultant Bakhdorj. G.
	ERI (Education Research Institute) Naliun. G.		Local Consultant Miyerem. D.
	NEMA Disaster Prevention Department Burchbat		Local Staff O. Tsand-Ayush (Ms.)
	NEMA Disaster Prevention Department O. Tsand-Ayush (Ms.)		Local Staff N. Bunkhbayer
	ITPD N. Bunkhbayer		Local Staff Byambauren. S.

### WG3-1 School DRR Education (1)

#### • Progress

##### Activity 3.1.1: Development of the School DRR Education

- ✓ The activity for preparation of the guideline for DRR education in pre-school, elementary school and junior high school is going on based on the work plan agreed by the WG3 member
- ✓ Reference document for the guideline, i.e., curriculum guidelines, school textbooks and good practices for DRR education in Japan were studied by the WG3 member.
- ✓ The WG3 member compiled and analyzed the current status of DRR education in Mongolia for preparing specific contents of the guideline by themselves.
- ✓ The name of the guideline was decided as "The Program of Life Safety Education" and draft program was prepared on 13-14 June 2017.

- ✓ Ms. Myagmar, MECSS, inputted the necessity of teacher's training for enhancement of their capacity to implement DRR education and the necessity of cooperation among related organizations along with the preparation of the guideline for DRR education based on the knowledge and experiences obtained from the training in Japan.



##### Activity 3.1.2 & 3.1.3

- ✓ Main activities will be started from August 2017

### 3-1-1 Activity plan

Scrutinize the reflection status situation of disaster prevention education in Mongolian country school education program

Confirmation of purpose and additional parts

Formulation of educational program and preparation of guidance for teachers

### 1. Investigation of situation: the contents of disaster prevention education is reflected in the educational program

Target (number of target)

Preschool program(1), Primary education program(10), Basic education program(14),  
Higher education program(17)

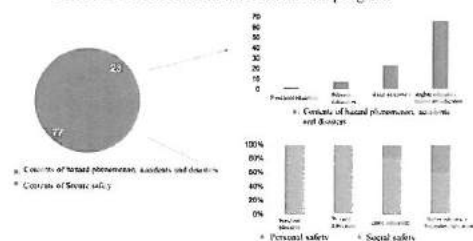
#### Contents of hazard phenomenon, accidents and disasters

- Danger phenomenon, machine-related accident, terrorism, explosion accident, livestock significantly decreasing, etc.

#### Safety contents

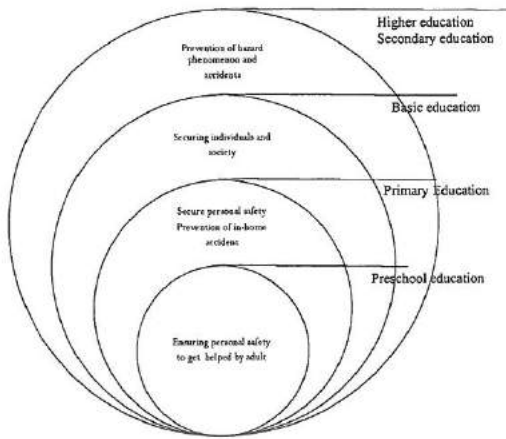
- Understanding of individual safety (body, language, spiritual attention, prevention, protection etc.)
- Understanding of the safety of society (extreme's unity, peace, national security, etc.)
- How to prevent and overcome the following, terrorism, violence, drugs, sexual harassment, trafficking

### Contents are reflected in the educational program

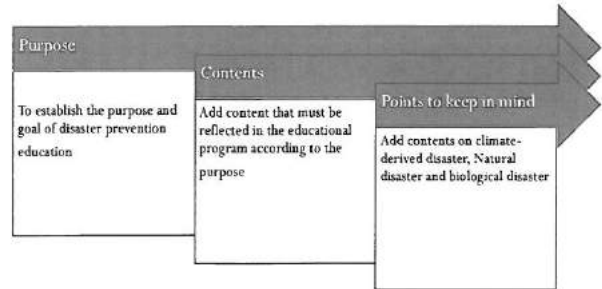


Contents of danger phenomenon and disasters are sufficiently reflected at higher education, secondary education and basic education. Regarding preschool education and primary education, constant context of danger phenomenon and disasters are reflected.

- The content on disasters derived from ecology is 48%. Most of them are reflected mainly in the subjects of geography and chemistry of basic education, higher education and secondary education.
- Contents of natural disasters are reflected in geography education programs.
- Contents of technology disasters are reflected in the chemistry educational program in connection with confirming the handling of chemical substances and the influence of toxic substances.
- The contents of social disasters are reflected in education programs
- Biological disasters are not reflected in educational programs



2. Confirm the contents that need to be reflected in purpose and addition



3. Preparation of draft disaster education program

Name of program: "Safety Life skill" program  
 Structure of program:

<p>2.1. Purpose          2.2. Goal          2.3. Contents</p> <p><b>Home accident</b></p> <ul style="list-style-type: none"> <li>Prevention of in-home accident</li> <li>Treatment of pharmaceuticals and chemical substances</li> <li>Emergency relief</li> </ul> <p><b>Safe environment</b></p> <ul style="list-style-type: none"> <li>Natural environment</li> <li>Social environment</li> </ul> <p><b>Hazard phenomenon</b></p> <ul style="list-style-type: none"> <li>Hazard phenomenon of Nature</li> <li>Hazard phenomenon of Ecology</li> <li>Hazard phenomenon of Living substance</li> <li>Hazard phenomenon of society</li> <li>Social security</li> </ul>	<p><b>Preschool education</b>          2.1. Purpose : Get knowledge about danger and accidents from guardians' guidance and begin learning how to protect themselves .</p> <p><b>Primary Education</b>          3.1. Purpose : To understand possible dangers and accidents and learning to protect yourself</p> <p><b>Basic education</b>          4.1. Purpose : Protecting yourself against dangerous phenomena and accidents and learning how to provide emergency relief.</p> <p><b>Higher education</b>          Secondary education          5.1. Purpose : To conduct disaster response when a danger phenomenon or accident happens. To conduct emergency first aid. To participate in volunteer activities</p>
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WG3-1 School DRR Education

> Problems and Challenges  
 WG3-1 member held a 2-day guideline formulation workshop on 13-14 June.

- > Future plans
- ✓ From July 2017, wG3-1 member will ask for opinions from teachers on "Life safety education program".
  - ✓ "Guidebook for the practice of living safety education for teachers" will be prepared by November 2017.
  - ✓ Finalize the "Lifestyle safety education program" by the end of 2017 and get approval.



Input to activities by knowledge and lessons learned through Japan training in March

- Knowledge and lessons learned through Japan training
- Conducting various investigations, Legislation improvement and improvement based on the result and past lessons are planned.
- The roles, responsibilities and authorities of executives are clear
- The safety of school and kindergarten facilities is decided by law. Reinforcement of earthquake resistance of all school facilities has been completed.
- Volunteer participation awareness is high. Disaster prevention / disaster culture is established.
- Disaster-related training is also being held at museums and other training centers outside the school. It is supported by administrative agencies.

- Reflecting on the activities of this project
- Completing and trying the guidelines which created by WG such as safety life, protecting yourself during disasters and emergencies, teaching contents of disaster prevention education. Improving and implementing based on the result.
  - Enhancing manual educational materials related to schools and local disaster prevention education
  - To establish a network of cooperative information exchanges among various fields
  - Collaboration between the training center program and school education

Thank you so much for your attention

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# Progress of WG3-2 Activity

"THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA"

D. Munkhtsetseg  
Disaster Prevention Department, NEMA  
3rd JCC meeting, June 29th, 2017

## Outcome 3-2 Working Group members

Mongolian Side	Japanese Side
 D. MUNKHBAT NEMA Disaster Prevention Department	 Education Material Development 1 Yuko Ota (Ms.)
 D. BAT-ERDENE NEMA Disaster Prevention Department	 DRR at Community Level Tohikazu Hwald (Mr.)
 B. CHINGBAT UB City Emergency Management Department	 Education Material Development 2 N. AMARJARGAL
 D. DULAMSUREN NEMA Disaster Prevention Department, Public Information center	 DRR Education 1 Miki Kodama (Ms.)
 S. AMGALAN NEMA Administrative management Department	 DRR Education 2 Yutiro Ogawa (Dr.)
 B. UURINGEGEE DRR Training Center, ENDC	 Local Expert: G. DASHDORJ
 M. AMARTUNGALAS Ministry of Education, Culture, Science, and Sports Lifelong Education Department	 Local Expert: D. ADIYANYAM

## WG3-2 Community DRR Education (1)

### Progress

#### Activity 3.2.1: Development of Comprehensive Schedule for DRR Education and Raising Awareness

Management and operation system of the comprehensive schedule for DRR education and raising awareness for all the stakeholders were discussed in the WG3-2 meeting. The disaster prevention department in NEMA takes leadership for this initiative. The web system and utilization of mailing list for the activities are in the process of the preparation in the WG3.

#### Activity 3.2.2: Community DRR Education and Training in Pilot Areas

Considering the situation that UNDP's curriculum of DRR education and raising awareness had been approved by Head of NEMA for the national basic document, WG3 decided to conduct the project activities including development of educational materials based on the curriculum.

While, the WG team identified World Vision Mongolia started to prepare teaching materials based on the UNDP's educational curriculum. For avoiding duplication of works, development of the educational materials will be conducted after clarifying a demarcation of works with World Vision Mongolia under the leadership of the disaster prevention department in NEMA.

Pilot Areas of the activities were discussed

#### Activity 3.2.3: Development of Educational and Training program for the Training Center

The discussion on the training program for DRR Training Center (temporary name) in the UB city was started. It was agreed to prepare the report on how to improve the current training program in the WG3.

WG3 are putting their thoughts together about training program. Especially, it was pointed out that the contents of training program should take in experiencing and learning system.



## WG3-2 Community DRR Education

### Development of Comprehensive Schedule of DRR Education and Awareness Raising (3.2.1)

Established "Disaster prevention training and raising awareness team" for purpose planning disaster prevention training, implementing in a comprehensive way, improving coordination between the governmental, non-governmental and international organizations, improving the results, and open for public.

Approved Structure for comprehensive training schedule

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## WG3-2 Community DRR Education

### Development of Comprehensive Schedule of DRR Education and Awareness Raising (3.2.1)

Created mail group on [mdpteam@googlegroups.com](mailto:mdpteam@googlegroups.com) to share information by each team member, and we also developed 4W form in PHP program to collect information of disaster prevention training and awareness raising plan. We explained about it to all stakeholders.

W4 Form

## WG3-2 Community DRR Education (3)

- Discussion on the Improvement of the DRR TC Training Program
- Observation of the Program Implementation
- Provision of Programs of Training Center in Japan as References
- Input to the Current Program (EMDC Director, 2016/10/4, A/67 Instruction Appendix 1) for Improvement

Revision of the Program (scheduled in Oct. 2017)



3-2-2 Recommended Pilot Site  
(Local knowledge DRR) activities

WG3-2 Community DRR Education

Issues & Challenges

- ✓ The IT specialists of the NEMA cannot conduct intensive work for the development of the website for the "Comprehensive Schedule". To secure a time to concentrate, a workshop to develop the website was held on 25 May.
- ✓ Coordination between the Project and World Vision Mongolia had been ongoing under leadership of the disaster prevention department in NEMA to avoid duplication work and for the effective work.

Future Plan

- ✓ Regular implementation of the stakeholders' meeting for "Comprehensive Schedule"
- ✓ Demarcation for the development of the education materials with relevant stakeholders
- ✓ Revision of the Program for DRR Training Center

	Proposed locality	Reason for selection
1	UB city (center) Bayangol district	District both new and old, tall buildings are located. Location: West of UB.
	Additional options for offering Khan-Uul district	High flood risk areas and soft soil. Location: Front of UB
2	UB city (per areas) Bayanzurikh district	Highly dense per areas. Location: left part of UB.
	Additional options for offering Songinokhairkhan district	Similarly. Location: Western of UB.
3	Rural areas Zavkhan aimag	High probability of earthquakes, and others donor activity duplication low
	Additional options for offering Khuvsgul aimag Erdenei (Orkhon aimag)	



\* The Working Group 3-2 meeting discussed  
discussed with the head of NEMA, DPD

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Working Group 3  
Content plan for next training in Japan (project)

Outcome 3: The second training purpose in Japan

- The project will implement "Disaster Protection Education" (DPE) program at local schools based on the Disaster Management Education Guideline/Curriculum which will be developed within the scope of the project as a result. Undergraduate and primary to high schools will be provided with clear understanding on how to implement Disaster Management Education program, its teaching methodology and staff trainings.
- In regards to the local Disaster Protection Training, local community have not yet experienced much of disasters especially earthquakes, which led to importance of improving community understanding on disaster management. To increase community awareness, the training methodology and materials have to be improved to the next level, including physical training materials and methodology to teach Self Disaster Response Skill.

Trainings	Content (project)
School Disaster Protection Education	<ul style="list-style-type: none"> <li>➢ Gaps in conducting DPE and updated training methods in Japan</li> <li>➢ DPE science and researches at the School education research institution</li> <li>➢ Examples of School DPE (curriculum, trainings during the special activities, DPE simulation): At each school level (primary to high)</li> <li>➢ DPE training for school teachers and staff</li> </ul>
Partnering school and local disaster protection education	<ul style="list-style-type: none"> <li>➢ Examples of implementing DPE during out of school educational activities [experiences student DPE training]</li> <li>➢ DP Partnering Program for schools and local</li> </ul>
Local DPE Training	<ul style="list-style-type: none"> <li>➢ Training method to conduct effective community training on earthquake</li> <li>➢ Experience community DPE simulation</li> <li>➢ To participate community DPE advocacy event (to learn more about how to increase community participation/engagement to DPE, training materials and methodology on self disaster response)</li> </ul>

9

Thank you for your attention

10