MINUTES OF MEETING
ON
THE SECOND 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 second meeting on April 14, 2017 from 9:00 to 10:15, 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, April 14, 2016

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

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

大和田清隆

Mr. Kiyotaka Owada
Team Leader,
JICA Expert Team

ATTACHED DOCUMENT

1. 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 Mongolia 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 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 new members of WG as shown in the Annex 3.

2. Amendment of the administration authorities concerned of Mongolia

The Mongolian side explained that the position of Project Director who was assigned in the first JCC on December 7, 2016 was changed to provide more effectively leadership of NEMA for the Porject. For this reason, JCC requested the amendment of R/D as the draft Minutes of Meeting shown in Annex 4.

3. Procuring equipment

The Mongolian side explained the relevance and the position of the equipment to be procured and donated by JICA in the national policy and plan of Disaster Risk Reduction (hereinafter referred to as "DRR") in Mongolia, and proposed the Operation and Maintenance (hereinafter referred to as "O&M") plans of introductions of the instruments for seismic diagnosis and the equipment for DRR awareness-raising that is supposed to be installed in the facility tentatively named as Training Center for Public Disaster Protection as shown in the Annex 5.

The Japanese side 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 they plan to send the official letter to request additional contents identified in the O&M plans.

4. Training in Japan or third country

JCC members agreed to implement the second training in Japan until November, 2017.

The Japanese side requested that obtained knowledge and experiences through the training in Japan should be reflected in the WG activities firstly. And detailed training items are identified by the next JCC.

5. Third JCC meeting

JCC members agreed that the next JCC meeting will be tentatively scheduled in the last week of June, 2017 in Ulaanbaatar.

6. Question and Answer on the JCC

JICA and JICA Expert Team responded to the questions of JCC members as shown in Annex 6.

Annex 1: List of Participants
Annex 2: Agenda of the JCC Meeting
Annex 3: Working Group Member List
Annex 4: Draft Minutes of Meeting for Amendment of R/D
Annex 5: O&M Plans
Annex 6: Question and Answer in the JCC Meeting

Annex 1: List of Participants

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

Date: 2017/4/14

Place: NEMA Conference Room (1st Floor)

Title of Meeting: 2nd Joint Coodination Committee (2nd JCC)

Name	Department, Organization	E-mail/ Tel	Signature
T. Badral	Chief of NEMA		
L. Sayana	Advisor in charge of Emergency Management of Deputy Prime Minister		
S. Magnaisuren	State Secretary of Ministry of Construction and Urban Development	magnaisuren@mcud.gov.mn	
B. Uuganbayar	Director of Disaster Prevention Department,NEMA		
Yo. Jargalsaikhan	Referent of National Security Council	jargalsaikhan@nsc.gov.mn	
L. Ulziibayar	Director of Policy Coordination and Cooperation Department8NEMA	99105574	
D. Jargal	Director of infrastructure and State Inspection Department,General State Inspection Agency		
Z. Munkh-Orgil	Officer of Aid Policy Division, Development Financing and Debt Management Department,Ministry of Finance		
J. Myagmar	Director,Division of Preprimary and Primary Education of Ministry of Education,Culture,Science and Sports	jmyagmar@mecs.gov.mn	
P. Bayarkhuu	Vice Mayor of the Capital City in charge of Urban Development	Pbayarkhuu@yahoo.com	
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	enkhesen@yahoo.com	
Mutsumi Sato	Chief Representative of JICA Mongolian office	— a —	Sato Mutsumi
Hiromi Sawada	Senior Representative of JICA Mongolian office	Absent.	
Yukinari Hosokawa	Officer in charge of the Project of JICA	✓	Yukinari Hosokawa
Kiyotaka Ohata	JICA EXPERT TEAM		
Akihiro Tanaka	〃		
З. Баянмөнх		262840	
DMurun	JET	99057365	Д.Мөрөн

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

Date: 2017/4/14

Place: NEMA Conference Room (1st Floor)

Title of Meeting: 2nd Joint Coodination Committee (2nd JCC)

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Yoshino Satomi	JICA. program officer.		
Сонинбаяр			
	NEMA		
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Annex 2: Agenda of the JCC Meeting

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

Agenda for 2nd Joint Coodination Committee (2nd JCC)

Date: April 14th, 2017
Time: 09:00～10:15
Venue: NEMA Conference Room

No.	Time	Agenda	Presenter
	08:30-9:00	Registration	
1	09:00-9:05	Opening remarks from NEMA	*Mr. Badral Tuvshin* *Chief, Brigadier general, NEMA*
2	09:05-9:10	Opening remarks from JICA	*Mr. Mutsumi Sato* *Chief Representative, Monglia Office, JICA*
3	09:10-9:15	Overview of project activity and schedule	*Kiyotaka Owada* *Team Leader, JICA Expert Team*
4	9:15-9:25	Lesson learned from the training in Japan	*Mr. G. Bat-Erdene* *Policy Coordination and Cooperation Department, NEMA*
6	9:25-9:35	Progress of WG1 Activity	*Ms. B. Duvshin* *Disaster Risk Management Department, NEMA*
7	9:35-9:45	Progress of WG2 Activity	*Mr. D. Zanabazar* *Director of Policy Department, MCUD*
8	9:45-9:55	Progress of WG3 Activity	*Ms. Myagmar.J* *Director, Division of Preprimary and Primary Education of M ECSS*
10	9:55-10:10	Discussion and confirmation on: - Revision of WG member - Amendment of R/D - Procuring equipment - Training in Japan or third countries	*Project Coordinator, NEMA* *Discussion with All Participants*
11	10:10-10:15	Closing remarks	*Mr. B. Uuganbayar* *Director of Disaster Prevention Department, NEMA*

Annex 3: Working Group Member List

Working Groups

Working Group (WG)		Sub-WG	Member
WG1	**Disaster Management Plan** WG1 Coordinator: **D.Bazarragchaa** Disaster Risk Management Department, NEMA	Risk Assessment Guideline	**D.Serjmyadag** Law Enforcement University of Mongolia **P.Amarzaya** Disaster Research Institute, NEMA **D.Bazarragchaa** Disaster Risk Management Department, NEMA **B.Batbayar** Disaster Risk Management Department, NEMA
		Disaster Management Planning Guideline, Preparedness Planning Guideline and Risk Management Guideline	**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
		Database Guideline	**B.Purevnyam** Public Announcement and Emergency Administration Center, NEMA **D.Badamsuren** Disaster Research Institute, NEMA **Sodnomragchaa** Disaster Research Institute, NEMA **B.Boldkhuu** Public Announcement and Emergency Administration Center, NEMA
		Agreements & White papers	**E.Altankhishig** Policy Coordination And Cooperation Department, NEMA **B.Duvshin** Disaster Risk Management Department, NEMA
WG2	**Seismic Resistance** WG2 Coordinators: **D.Zanabazar** MCUD **Z.Battulga** Disaster Operation Department, NEMA	Seismic Diagnosis of Buildings	**D.Zanabazar** MCUD **Z.Battulga** Disaster Operation Department, NEMA **Sh.Uranchimeg** General Agency for Specialized Inspection **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, Geodesy and Cartography Agency, MCUD **M.Oyunchimeg** Mongolian University of Science and Technology
		Seismic Diagnosis of Infrastructures and Lifelines	**D.Zanabazar** MCUD **Z.Battulga** Disaster Operation Department, NEMA **Sh.Uranchimeg** General Agency for Specialized Inspection **B.Munkhsaikhan** General Agency for Specialized Inspection **G.Erkhembayar** MCUD **B.Gantulga** Land Management, Geodesy and Cartography Agency,

Working Group (WG)		Sub-WG	Member
			MCUD
		Design for Seismic Strengthening	**D.Zanabazar** MCUD **Z.Battulga** Disaster Operation Department, NEMA **Sh.Uranchimeg** General Agency for Specialized Inspection **B.Tsend-Ayush** Master Planning Agency of Capital City, Construction Quality and Safety Department **G.Saruultuya** Construction Development Center **G.Erkhembayar** MCUD **B.Gantulga** Land Management, Geodesy and Cartography Agency, MCUD **M.Oyunchimeg** Mongolian University of Science and Technology
WG3	**DRR Education** WG3 Coordinator: **D.Munkhbat** Disaster Prevention Department, NEMA	School DRR Education	**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 **D.Munkhbat** Disaster Prevention Department, NEMA **O.Tsend-Ayush** Disaster Prevention Department, NEMA
		Community DRR Education	**D.Munkhbat** 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

Annex4: Draft Minutes of Meeting for Amendment of R/D

MINUTES OF MEETINGS
BETWEEN
JAPAN INTERNATIONAL COOPERATION AGENCY
AND
NATIONAL EMERGENCY MANAGEMENT AGENCY
FOR AMENDMENT OF THE RECORD OF DISCUSSIONS
ON
PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA

The Japan International Cooperation Agency (hereinafter referred to as "JICA") and the National Emergency Management Agency (hereinafter referred to as "NEMA") hereby agree that the Record of Discussions on Project for Strengthening the National Capacity of Earthquake Disaster Protection and Prevention in Mongolia signed on July 8, 2016 will be amended as follows;

1. Appendix 1: Project Description, II. Outline of the Project, 2. Implementation Structure (2) Administration of authorities concerned of Mongolia, (a) Project Director

Original singed on July 8, 2016	Deputy Chief of NEMA will be responsible for overall administration and implementation of the Project
Amended on December 14, 2016	Director of Disaster Operation Department of NEMA will be responsible for overall administration and implementation of the Project
Amended in this time	Director of Disaster Prevention Department of NEMA will be responsible for overall administration and implementation of the Project
Reason: 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.	

This amendment will become effective as of April 14, 2017.

Annex: Record of Discussions (signed on July 8, 2016)

Ulaanbaatar, April 14, 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. Bolor Enkhbayar
Head
Aid Policy Division
Development Financing Department
Ministry of Finance
Mongolia

Annex 5: O&M Plans

Seismic Diagnosis Equipment

Operation and Maintenance plan

2017.2.21 NEMA

1. Introduction

Seismic diagnosis equipment manuals which we are using In Mongolia include only degradation and depreciation of building. Therefore, within "The Project for Strengthening the National Capacity of Earthquake Disaster Protection and Prevention in Mongolia", we will make instruction method to diagnosis the building seismic. For diagnosis building seismic we needed this equipment urgently. This plan is about procuring seismic diagnosis equipment in Mongolia and how to operate it.

2. About procuring seismic diagnosis equipment

The main aim of this project is to make earthquake resistant building evaluation standard (norm). For this we need building depreciation level defining equipment. We will define current building strength, depreciation and give earthquake degree of the building. For this diagnosis equipment purchase will be made from JICA side.

After the start of this project define the equipment's operation, performance and maintenance cost, NEMA will cooperate with other organizations to support the project activity.

Within the project activity during training period the diagnosis equipment will be used. Project unit will use it after the purchasing this equipment even in the training period.

We will conduct necessary training about how to use the diagnosis equipment for purpose to distribute the knowledge in common.

All equipment used on training shall be transferred to the Mongolian side at the completion of the project.

Table.1 Procuring seismic diagnosis equipment

Equipment name	Purpose
Concrete strength measuring instrument	Force from the rebound from the hit the concrete surface compression is considered strength
Ultrasonic measuring instrument	Concrete cracks depths and amount is determined through ultrasonic waves measuring the compressive strength and elasticity factors are calculated.
Rust & Corrosion measuring instrument	In the concrete rebar & metal potential is calculated from the amount of corrosion
Concrete covering thickness measuring instruments	Measure the thickness of the concrete structural reinforcement.
Brick Surface strength measuring instruments	Brick masonry structure building and struck the surface from the estimated power of the compressive strength of rebound.

As a decision at the WG, five earthquake-proof equipment will be required as it is necessary for five agencies in seismic diagnosis (NEMA, Urban Development Ministry, Ulaanbaatar City, National Auditing Agency and CDC).

The diagnosis equipment)is managed by the project office during training, and the following departments will use and maintenance the equipment after the training.

Table.2 End user authorities of diagnosis equipment

	Surface strength measuring instruments	Ultrasonic-based measuring instruments	Corrosion measuring instruments	Concrete covering thickness measuring instruments	Brick Surface strength measuring instruments	Description
During Training						
Project Team	5	5	5	5	5	
After Training						
NEMA	1	1	1	1	1	It will be used for the rescue department staffs for training. To improve the tool's usage it'll be shared with Metropolitan City Planning and Basic Planning Bureau
Ministry of Construction and Urban Development / Land Management, Geodesy and Cartography Agency	1	1	1	1	1	Sub agency of Ministry of Construction and City Development Land Management Surveying and Mapping Agency will use the equipment in local regions.
General Agency for Specialized Inspection	1	1	1	1	1	When the building owner have argument regarding MPA the result will be reconsider
Master Planning Agency of Capital City	1	1	1	1	1	It'll be used for UB city existing building earthquake resistance evaluation passport work.
Construction Development Center	1	1	1	1	1	After the earthquake resistance evaluation guide is made from project team Construction Development Center training department will assess the engineer & staff for develop the program practical experience use. To increase instrument usage CDC will share it with the GZBZZG.

3. Survey related to the procuring of the evaluation tools

Examines whether the purchase tool meets the specification and needs.

Table3. Purchase list of assessment tool.

Seismic Diagnosis Equipment					Description
	Tools Names	Usage	Price in Mongolia (USD)		
RC and PC	Surface strength measuring instruments	Force from the rebound from the hit the concrete surface compression is considered strength	Original Schmidt Test Hammer N [310-01- 001]1,010	1010	Result direct read
RC and PC	Ultrasonic-based measuring instruments	Concrete cracks depths and amount is determined through ultrasonic waves measuring the compressive strength and elasticity factors are calculated.	Pundit Lab+ [326-20- 001]	5600	
Masonry	Corrosion measuring instruments	In the concrete rebar & metal potential is calculated from the amount of corrosion	Profometer Corrosion- Rod electrode [392-50- 010]	754	
			Profometer Corrosion- 1 wheel electrode [330-01- 001]	4740	
Masonry	Concrete covering thickness measuring instruments	Measure the thickness of the concrete structural reinforcement.	Profometer PM-630 [392-20- 001]	7900	
Masonry	Brick Surface strength measuring instruments	Brick masonry structure building and struck the surface from the estimated power of the compressive strength of rebound.	Original Schmidt Test Hammer L [310-01- 002]	1915	

- Surface strength measuring instruments
  Force from the rebound from the hit the concrete surface compression is considered strength. Can be used in the countryside.
- Ultrasonic-based measuring instruments
  Concrete cracks depths and amount is determined through ultrasonic waves measuring the compressive strength and elasticity
- Corrosion measuring instruments

In the concrete rebar & metal potential is calculated from the amount of corrosion

- Concrete covering thickness measuring instruments
  Measure the thickness of the concrete structural reinforcement.
- Brick Surface strength measuring instruments
  Brick masonry structure building and struck the surface from the estimated power of the compressive strength of rebound. Can be used in the country side.

4. Operation plan for use diagnosis tools

(1) Role sharing for instruction of diagnosis equipment

When measurement tools are procured, both sides will take responsibility as shown below.

In introducing diagnosis equipment, as shown in Table 4

- Until completion of training
1)In the first period it will be used during training and NEMA will receive the equipment's, all end user authorities staff will listen user manual guidance.
2) During the training session the project team is responsible for the usage & storage.

-after completion of training
1) It'll be transferred to the end user authorities.
2) End user authorities are responsible for parts, configuration and usage.
Above item will be mentioned in the maintenance and operation letter and it will be handed over to the Japanese side from Mongolian side.

Table 4. Organize of conditions for procuring diagnosis equipment

	Mongolian side	Japanese side	Description
Procurement preparation			
Survey	Make negotiations with the delivery	Survey of the equipment	-
Request	Prepare the official letter for responsibility & maintenance		-
Procurement decision	-	Review of procurement contents and propriety	-
Procurement			
1. Preparation	-	-	-
2. Usage , maintenance 1	1) Deliver it to NEMA	2)During the project, The project team is responsible	Training
3. Usage, maintenance 2	1) Delivery it to FINAL Organization 2) supplies, usage, repair, configuration operating organization is responsible	-	After training

(2) Operation and Maintenance Plan

1). When equipment's supplied to NEMA:

All end user authorities shall hear the explanation of the usage.

2) During the implementation of the project:

Project team will take responsibility for storage of equipment.

3). Delivery to the end user authorities

During the operation and use of supplies, configuration and maintenance services outlined in charge of the contract. On that bases NEMA will hand it over to the end user authorities.

4). Parts, usage, repair service.

End user authorities are responsible for the operation and maintenance, services, configuration, spare parts of the equipment's.

(3) Procure and use plan of diagnosis equipment's

Procure and use plan of diagnosis equipment's shown in Table 5:

Table 5. Procure and use plan of diagnosis equipment's

Work item		2017				2018				2019			
		1	2	3	4	1	2	3	4	1	2	3	4
Japanese side assumed schedule													
Project team survey													
1	Survey of the equipment												
Japanese side procurement plan													
2	Clarifying the equipment												
3	Procurement												
Mongolian side assumed schedule													
Mongolian side procedure.													
4	Operation, Maintenance letter												
5	Instruction of use guideline												
Use in during project													
6	During the training of earthquake diagnosis.												
After completion of project													
7	Start use of end user authorities												

Notice:
2. Identify of equipment and 3. Procurement schedule plan is preliminary so it's not finalized.
5. Instruction of the equipment is not the subject part of the project training.

Operation and maintenance plan of procuring earthquake experience equipment for disaster prevention awareness of "DRR Training Center"

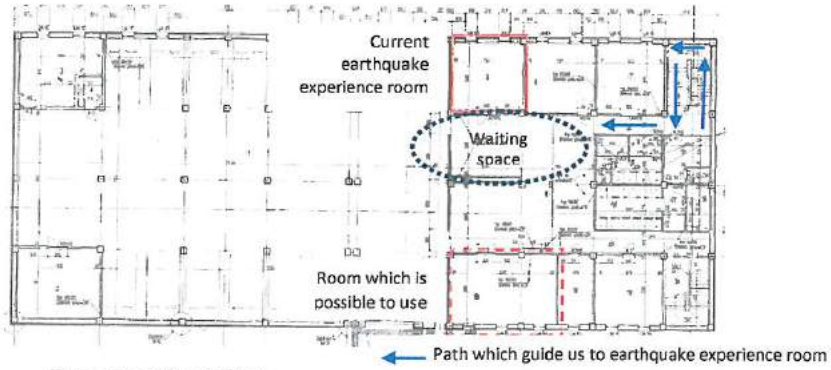
2017.02.24 NEMA

1. Introduction

This plan includes an introduction, operation and maintenance guide of procuring earthquake experience equipment within "The Project for Strengthening the National Capacity of Earthquake Disaster Protection and Prevention" in Mongolia" in "DRR Training Center"(temporary name) (hereinafter referred to as "Center").

2. Installation place

We assumed to use one room in basement in the training center as an earthquake experience room (internal space 6.16 m × 5.93 m, ceiling height 3400 mm, with beam exit) (see floor plan). Also, it is supposed to be a replacement room slightly wider than the current earthquake experience room (current rescue equipment storage room).



Basement Floor Plan

Front view of Center

Installation room

Current condition of installation room

(Temporarily installed shaking table)

3. Organizing conditions related to equipment procuring

1) Carrying in route

As for carrying equipment, it can be carried in from the garage of DRR training center. In addition, the walls of the earthquake experience room are a brick structure (non-earthquake resistant walls), and it is necessary to temporarily remove it at the time of carrying the equipment.

2) Matters regarding installation

After installed, the equipment will be fastened into the floor by using a post-installed anchor, and the Mongolian side will install it as needed. Also, since it is necessary to set up a foundation with a certain weight under the equipment to manage vibration, it is necessary to remove the existing concrete slab and to provide a foundation with sufficient strength and weight according to the situation of the procuring equipment.

3) Matters concerning operation maintenance

The operation status shall be 300 person /day, operating 200 days per year (4 days a week).

4. Consideration related to procurement of equipment

1) Propriety of earthquake experience room

Based on the general specifications of earthquake experience equipment, confirm the validity of the existing earthquake experience room. Specific confirmation items are as follows.

- Indoor dimension

Width (from wall to wall) 5400 + 350 * 2 = 6100

Depth (from wall to wall) 5900

Ceiling height (from the lower end of the upper floor to the upper end of the relevant floor slab) 3450

Ceiling height 3400

Based on this, a layout diagram of the experience device is created.

- Floor slab strength

The current floor is dirt floor concrete. Since details of the floor are unknown, it is desirable to re-do the floor. In that case, chipping the existing floor, compacting of soil's, and placing dirt floor concrete (t = 300, the upper end muscle lower end muscle D16 - @ 200, cutting the edges so that vibration is not transmitted to the surroundings).

2) Consideration of earthquake experience equipment

Consider the assumed equipment composition.

(1) Vibration exciter

In order to do vibrations, the main device that generates the vibration basically split (divides) the vibration into several parts in a three-dimensional flow and gives the movement in two directions in the direction of the piston in each direction. The shaking table maker company expresses the number of divisions of the vibration motion by the cylinder axis of this piston and displays it as two axes (two directions) and six axes (division in six directions). Since it is said that six axes can sufficiently represent any earthquake, we intend to introduce a 6-axis shaking table. The cylinder is driven by a servo motor that is easy to maintain.

(2) Experience stage

From the viewpoint of safety fix the floorboards and handrails of experiencing person free space as a robust steel framework which is installed on the vibration exciter. The handrail can withstand the

acceleration at the time of reproducing the earthquake motion with a margin. The furniture is a chair, table, and receives earthquake motions frequently, so it shall have appropriate strength.

(3) Operating equipment

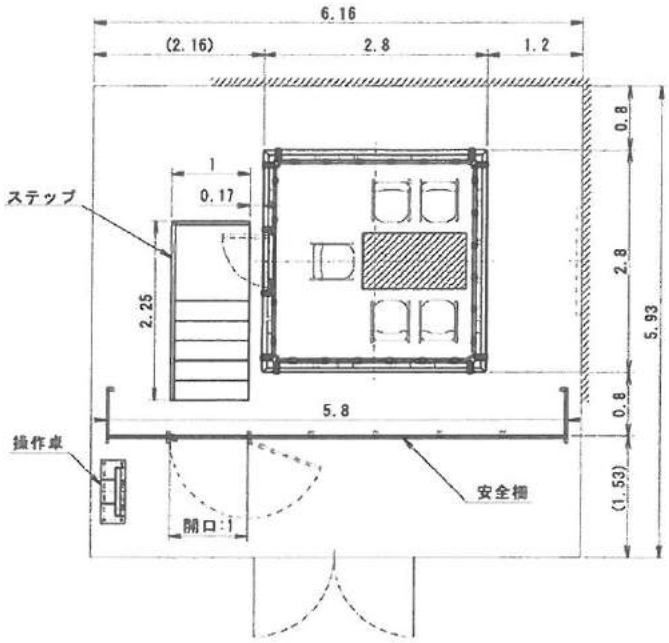
Considering the operation environment, the operation device is an operation console type, a touch panel type PC is embedded, and a key switch and an emergency stop switch are also embedded.

(4) Visual system

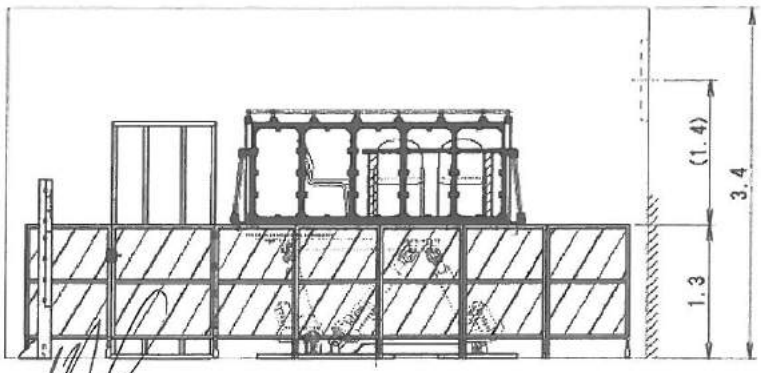
We set up display and narration on experience program reflecting the situation at the time of earthquake to feel more real things.

(5) Other

Establish installation of safety fence, steps, etc around the shaking table.



Layout plan (draft)



Layout elevation view · Outside side of safety fence (draft)

5. Summary of equipment procurement

1) Division of work related to equipment introduction

Table 1 Condition for introducing equipment

	Mongolian side	Japanese side	Remarks
Procurement preparation			
Survey	Discussion of introduction	Introduction survey	This survey
Request	Create O & M letter		
Procurement decision		Content of procurement, decision of whether or not	
Procurement			
1. Advance preparation	①Renovation of installed slabs ② Installation of anchors ② Installation of switchboard		
2. Transportation of equipment	①Receiving, transportation (including customs)		
3. Installation	① Implementation of the carry-in ② Installation and adjustment assistance	① Installation and adjustment	It is assumed that according to installation date Japanese manufacturer will come in Mongolia
4. Control · Maintenance	① O & M ②implementation of regular maintenance	① Field training for staff in charge	Conducting training for the training center staff by the manufacturer company specialist after installation

2) Equipment introduction assumption procedure

Work item		2017											
		1	2	3	4	5	6	7	8	9	10	11	12
Assumed schedule of Japanese side													
Review by the project team													
1	Consideration of equipment and installation method	■	■										
Japanese side procurement procedure													
2	Review of equipment content			■									
3	Procurement				■	■							
4	Equipment production, adjustment (Maker)						■	■	■				
5	Unloading / sending									■			
Assumed schedule of Mongolian side													
Mongolian side acceptance procedure													
6	Create O & M letter		■										
7	Advance preparation												
8	Carry in / installation										■		
9	Operation training											■	
	Operation											■	■

3) Check items of Mongolian side regarding to introduce equipment

(1) Advance preparation

- Improvement of installed slab

Make the foundation of the building of the earthquake experience equipment as the reinforced foundation concrete structure that can withstand the vibration of the equipment.

- Installation of anchors

Establish an anchor corresponding to the specifications of earthquake experience equipment.

- Installation of distribution board

Establish a distribution board corresponding to the specifications of earthquake experience equipment.

(2) Equipment transport

- Tax exemption procedure

If JICA side will submit the necessary documents for the customs duty free procedure Mongolian side will take responsibility of tax exemption procedure.

- Receiving and transporting at customs

We will carry it from the check post of Mongolian Customs to the training center.

(3) Installation

- Input, installation

Assemble and install in cooperation with the person in charge of earthquake experience equipment maker.

(4) Control Maintenance

- Control and maintenance system

The person in charge of earthquake experience equipment in training center will control and manage it follow by center program.

- Measure relating on budget

NEMA will take responsibility of maintenance cost for earthquake experience equipment.

Annex6: Question and Answer in the JCC meeting

Comment: Mr. Badral Tuvshin, Chief, Brigadier General, NEMA:

I learned from the lecture on Itabashi-ku as one of programs in the training in Japan that each city and ward in Japan has own budget for relevant disaster prevention and is managing it independently. From this experience, I want to provide the opportunity to learn knowledge of relevant actions of disaster prevention in Japan for ward mayors in Ulaanbaatar City and to request implementation of short-term training (2-3 days) in Japan before the summer holiday. Because implementers of outputs of the project activity which are formulated based on the governmental policy are lower-level administrative organizations such as cities or wards.

To avoid any disagreement between Japanese side and Mongolian side, we need to approve the working plan of the project activity on every JCC.

Japanese side need to pay their attention to the period of summer vacation from July to the end of August in Mongolia, and deeply collaborate with Mongolian counterparts (hereinafter referred to as "C/P") to make sure that everything is going well.

The project activities are going extremely well, I'm satisfied. Wish good luck to anyone to succeed work.

Comment: Mr. Mutsumi Sato, Chief Representative of JICA Mongolia Office:

I understand that the training in Japan for ward mayors in Ulaanbaatar City is additional request from Mongolian side, because ward mayors is not Working Group (hereinafter referred to as "WG") member. We will consider needs and possibility of your request in terms of timing, budgeting and contents of additional training in Japan.

Comment: Mr. Yukinari Hosokawa, JICA:

It is necessary to reflect lessons learned from the training in Japan held on March, 2017 in the WG activities firstly, and then to consider the next application and needs for the training in Japan.

Comment: Mr. Z. Battulga, NEMA:

Regarding the amendment of R/D, based on the revision of Disaster Law, we have a plan to change the position of Project Director (hereinafter referred to as "PD") from Director of Disaster Operation Department to Director of Disaster Prevention Department.

Question: Ms. J. Myagmar, Director of Division of Preprimary and Primary Education, MECSS:

If chief of NEMA has already given his order to change PD, I think we don't need to include this topic in the subject of discussion in the JCC. I wonder if Director of Disaster Operation Department was also qualified as the position of PD.

Answer: Mr. Z. Battulga, NEMA:

If main project documents will be amended, we need to discuss it in the JCC. Based on the revision of Disaster Law, we have put the more weight on disaster prevention than disaster operation in NEMA. Therefore, Chief of NEMA proposed to change the position of PD to Director of Disaster Prevention Department to provide more significant works of disaster risk reduction (hereinafter referred to as "DRR") including capacity enhancement of NEMA officers and implementation of DRR education and training for school and regional administrative officers

Comment: Mr. Z. Battulga, NEMA:

Regarding procuring equipment, we requested to donate instruments for seismic diagnosis and equipment for DRR Training Center by the official letter. JICA received the letter and they are implementing research and coordination for procuring equipment.

WG-2 activities include risk evaluation of facilities, seismic risk assessment and strengthening. We requested 5 kinds of equipment for DRR training center for training purposes.

There are Operation and Maintenance (hereinafter referred to as "O&M") Plans for diagnosis instruments and the equipment for DRR awareness-raising as handouts of the JCC meeting.

Answer: Mr. Kiyotaka Owada, JICA Expert Team:

We have discussed the types of equipment procured from Japanese side in the WG activity. I want to request to add in the explanations for DRR strategic background to introduce such equipment in Mongolia and to clarify main bodies of O&M activities. JICA will send the official letter to request additional contents identified in the O&M plans. We should consider and clarify how to use procured equipment in the training program of the DRR training center.

Comment: Ms. J. Myagmar, Director of Division of Preprimary and Primary Education, MECSS:

Seismic strengthening of school and kindergarten facilities in Ulaanbaatar City needs much money. Therefore I give support to participation of ward mayors in Ulaanbaatar City in next Japan training. Ministry of Finance can also take a part in this team. If the school buildings remain weak against seismic shaking, we have endless concern in spite of all our efforts for school DRR education.

I want to request more efficient proceeding of JCC meeting. The meeting should be more organized by scheduled time from next JCC.

Answer: Mr. Yukinari Hosokawa, JICA:

We will consider additional training. About participation of ward mayors in Ulaanbaatar City to the training in Japan, we want to ask the relevant WG(s) to clarify the position of ward mayors in the project activities in terms of Mongolian laws and to share the relevance and the specific needs for the training program in Japan with us in the next JCC meeting.

Comment: Ms. G. Enkhtuya, Director of Construction Quality and Safety Division, Master Planning Agency of Capital City

We used 4-5 years for risk evaluation of facilities and seismic risk assessment work. To make norms and rules, professional engineers' knowledge and experiences are required. As I suggested in the beginning of the project to project leader Mr. Owada, we can provide professional advisers. On the basis of this activity we can do more effective training in Ulaanbaatar City.

Answer: Mr. Kiyotaka Owada, JICA Expert Team:

WG 2 will start the technical method of seismic diagnosis from next week. Basically Ms.Tsend-Ayush, who is member of WG2, is in charge to provide the engineering knowledge and experiences to prepare norms and rules as responsible person from Construction Quality and Safety Division, Master Planning Agency of Capital City. However it's possible that people which suggested by Ms. Enkhtuya will participate in the WG 2. Also I want to inform that we will hold the study meeting on the risk assessment implemented by previous project on April 18. I request Ms. Enkhtuya and her staffs to attend this meeting.

Question: Mr. Yo. Jargalsaikhan, Senior officer of National Security Council:

Regarding the model designs for seismic strengthening of public buildings such as school, Kindergarten, hospital, apartment, office building, Is it reflected in the working plan?

Answer: Mr. Seiichiro Fukushima, JICA study team:

The activity for design drawings for seismic strengthening is included in our activities. After approval of the norms and rules for seismic strengthening, the design drawings will be gone on to. We will not draw the whole building for seismic strengthening, we will do only draw model of frames. This is reflected in the plan.

Closing remarks:Mr. B. Uuganbayar, Director of Disaster Prevention Department, NEMA:

We are expecting to achieve results of activities for each WG. I already utilized knowledge which I learned in the training in Japan in the integrated exercise in rural area of Mongolia a few days ago. We have a plan to make documentary for the exercises based on the knowledge and experiences which we got through the training in Japan to distribute it in rural areas.

Japan has less experience on how to strengthen the Precast Concrete (hereinafter referred to as "PC") building. Therefore we need to consider own Mongolian condition and technical knowledge to create the guideline of seismic diagnosis for PC structure.

Mongolian and Japanese sides are going to discuss how to cooperate for international DRR conferences such as the Asian Ministerial Conference on Disaster Risk Reduction in 2018 continuously.

The next JCC meeting will be held at the last week of June, 2017. Project leader K. Owada will participate in Gobi Wolf international training, we hope that he will share own experiences.

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

大和田清隆

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

21 JCC

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

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_uboryos@yahoo.com	
Yo.Jargalsaikhan	Referent of National Security Council	jargalsaikhan@nsc.gov.mn	
L.Ulziibayar	Director of Policy Coordination and Cooperation Department8NEMA	ulziio609@gmail.com	
D.Jargal	Director of infrastructure and State Inspection Department,General State Inspection Agency	d.jargal@yahoo.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	enkhesen@yahoo.	
Mutsumi Sato	Chief Representative of JICA Mongolian office		
~~Hiromi Sawada~~ Satomi Yoshino	~~Senior Representative~~ Project Formulation Advisor of JICA Mongolian office	Yoshino.Satomi@jica.go.jp	吉野聡美
Yukinari Hosokawa	Officer in charge of the Project of JICA	Hosokawa.Yukinari@jica.go.jp	
Munkhmanlai	Project officer, JICA	dunbar.munkhmanlai@jica.go.jp	

Name	Department, Organization	E-mail/ Tel	Signature
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Ч. Эрдэнэтуяа	JET	99758398 erdene7@msn.com	

Sign of Representative

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 Coodination Committee (3rd JCC)

Date: June 29th, 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, Monglia 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*

Annex3: Summary and Draft Project Monitoring Sheet I & 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
Reason: 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: DRR Education	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 latter 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 form 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 countarparts 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 identity 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 exiting 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 20th, 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 3rd, 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

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

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

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)

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
Project Site: Mongolia

Version 2
Dated June 29, 2017

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
Overall Goal					
Seismic risk will be reduced.	1. Number of the approved guideline, rules, provisions 2. Number of white paper open to public 3. Number of the executed seismic assessment 4. Number of the seismic strengthed building 5. Number of implemented activities on	Study by NEMA	The policy on disaster risk reduction will not be changed in Mongolia.		
Project Purpose					
The Capacity of National Emergency Management Agency will be enhanced through the activities for strengthening the countermeasures for seismic risk.	1. The number of the approved guidelines and agreement 2. The number of the data on disaster risk reduction which newly established and improved	Project report	NEMA expands the pilot activities in other almags 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.
Outputs					
1. Capacity for data collection on disaster risk reduction and coordination among related organizations will be enhanced.	1.1 The number of guidelines, operational rules, provisions which are developed. 1.2 The number of the draft of agreement developed and participants who participated in the training programs on agreements 1.3 White peper on disaster risk reduction	Project report	1. The counterparts from NEMA, the Ministry of Construction and Urban Development and the Ministry of Education continue to work in the same position. 2. Participants in training programs continue to work in the same position. 3. The relation among related organizations is maintained. 4. Exchange information is maintained among the related organizations.	The WG1 has just created the basic frameworks of the guideline of risk assessment and the guideline of disaster management plan. The WG1 has created the draft manual of agreement preparation procedure and started to create an agreement on the field of Information and communication. The WG1 has gotten an approval of the work plan to prepare the white paper from Head of NEMA.	
2. Capacity of public administration officer related with the seismic assessment and seismic strengthening for buildings will be enhanced.	2.1 Guideline for seismic assessment The number of the participants in the training program on seismic assessment 2.2 Guideline for seismic strengthening The number of the traning program on seismic strengthening	Project report		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. 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.	
3. Implementing plan on disaster risk reduction education and awareness raising activities will be developed and realized.	3.1 The number of the cases of delivering classes on disaster risk reduction based on the activities of the Project 3.2 The number of visitos in Training Center	Ordinance of Ministry of Education, Culture and Science Ordinance of NEMA		The WG3 has just started to prepare the guidelines and teaching materials for DRR education and raising awareness.	

Activities	Inputs		Important Assumption
	The Mongolian Side	The Japanese Side	
1.1.1 To identity problems and challenges on implementation of legal frameworks of disaster risk reduction 1.1.2 To develop guidelines on improvement of legal frameworks and plans, assessment of disaster risk and database on disaster risk reduction 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 1.2.1 To develop the draft of the agreement (note 1-2)) which shows the coordination and cooperation among NEMA and related organizations 1.2.2 To realize training programs for disseminating the agreement menttioned in 1.2.1 and strengthening the coordination structure among organizations related with disaster risk reduction 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)) 1.3.2 To revise these plans and make a manual for the revision of disaster protection plan 1.3.3 To improve the present system (note 1-4)) which collect and analyze information on disaster risk reduction 1.3.4 To develope 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 1.3.5 To improve the system of database on seismic strength of buildings, infrastructure and lifeline (note 1-5))	Assignment of counterparts - Project Director - Project Managers - Project Coordinator - Project Members For Output 1 - Policy Coordination and Cooperation Depertment, NEMA - Disaster Operational Department,. NEMA - Disaster Prevention Department, NEMA - Disaster Research Institute, NEMA - Emergency Management Department of Capital City (EMDC)	Dispatch of Experts - Leader - Disaster Risk Management - Disaster Risk Reduction Framework - Disaster Risk Reduction Information - Seismic Strengthening Assessment - Seismic Strengthening Method - Seismic Strengthening Design - Disaster Risk Reduction Education - Disaster Risk Reduction at Commnity Level - Educational Material Development Provision of Equipment - Equipment for seismic assessment - Earthquake simulation experience equipment for Training Center such as shaking table Training in Japan and/or the third countries	
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 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 2.1.3 To implemnt training programs (note 2-3)) for enhancing the knowledge and capacity of experts who assess the seismic strength of buildings and lifeline 2.2.1 To develop guidelines-methodologies on seismic strengthening and reconstruction of buildings 2.2.2 To support the introduction and dissemination of seismic strengthening techniques for reconstructing collective housing, kindergarden, schools, hospital, national buildings and design the reconstruction and seismic strengthening of each type of buildings a pilot 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	For Output 2 - Disaster Operational Department,. NEMA - Disaster Prevention Department, NEMA - Ministry of Construction and Urban Development - Master Planning Agency of Capital City - General State Inspection Agency		Pre-Conditions

3.1.1 To develop a guideline which shows contents, method and implementation way of disaster risk reduction education in kindergaten and schools based on Law of Disaster Protection 3.1.2 To develop textbooks, supplementary readers and eduational materials related with disaster risk reduction education in kindergarten and primary and secondary schools 3.1.3 To implement training programs for the instructors (note 3-1)) of Teacher Traininig Institutes and experts of educational department in local governments, using the guideline and materials developed in 3.1.1 and 3.1.2 respectively 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 3.2.1 To develop comprehensive work plan (note 3-2)) for disaster risk reduction education and raising awareness at national and local levels 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 3.2.3 To develop and implement educational and training program for implementing disaster prevention and simulation program in Training Center	For Output 3 - Disaster Prevention Department, NEMA - Ministry of Education, Culture and Science - Teacher Training Institute - Educational Research Institutte - Emergency Management Department at aimag level		<Issues and countermesures> 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. 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.

Notes

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..

1-2) Contracts, cooperation plan and MoU are equivalent to agreement mentioned in the PDM

1-3) National level, UB city and two provinces are the target areas

1-4) Improvement of existing "Disaster Information Sharing System"

1-5) Improve existing database for sharing with related agencies (Components of the database system of UB city are under investigation)

2-1) Buildings: Buildings, Road and Bridge Lifeline: Warm water pipeline, Water supply and sewerage, electric transmission and distribution facilities

2-2) Guidelines are regarded as operational guidelines by Resolution of Minister

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.

3-1) Instructors of Institute of Teacher's Professional Development, experts of training departments of provinces and cities, and certificated teacher's instructors

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

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, Soums, and Districts (4) Heads of Bags and Khoroos, (5) Coordinators of civil activities in Provinces, Districts, and Khoroos and (6*) Volunteers (*only in pilot areas)

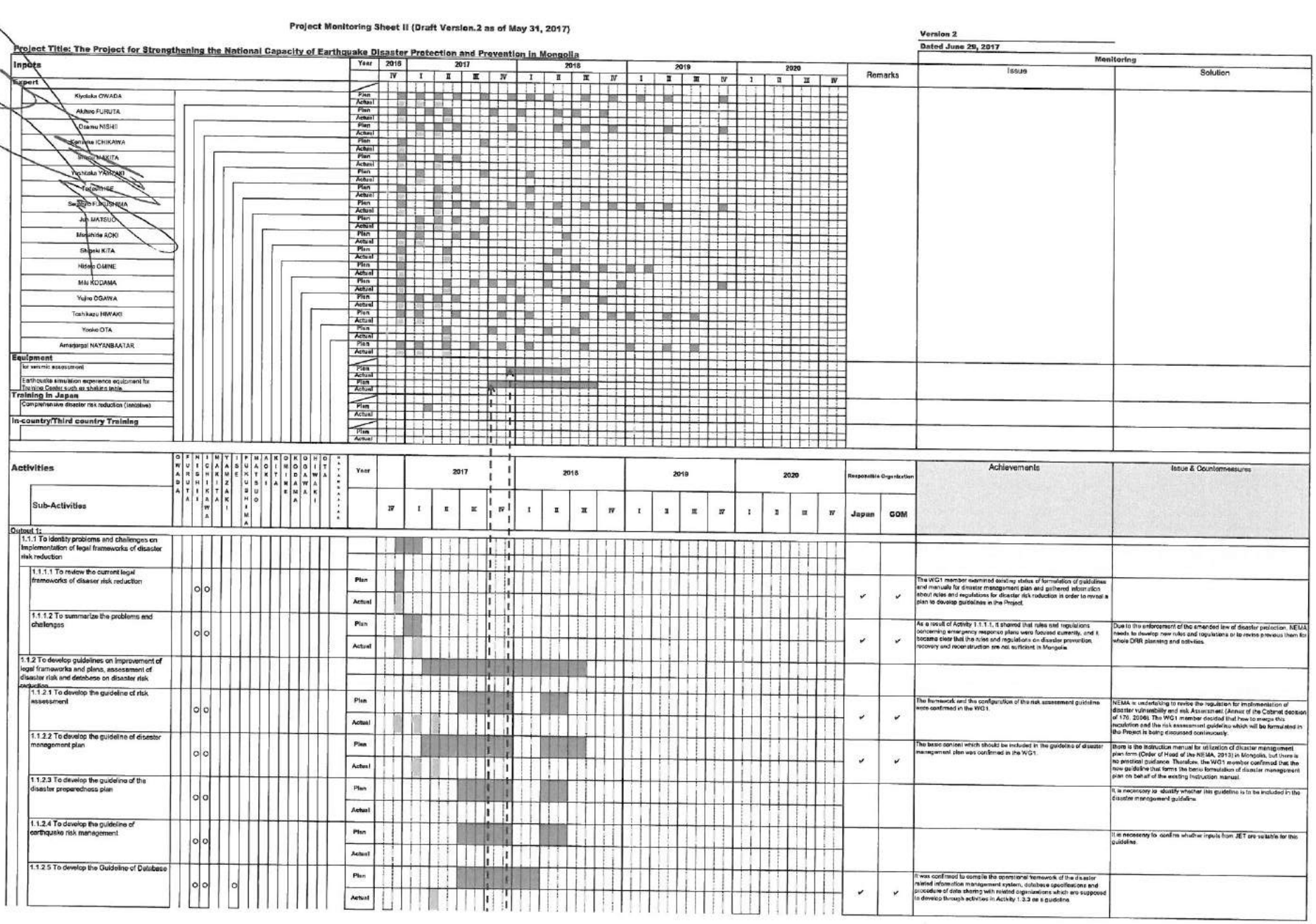
3-4) The facility that the EMDC is constructing and preparing for providing DRR training and education to the citizens in Khan Uul district in UB city.

Project Monitoring Sheet II (Draft Version.2 as of May 31, 2017)

Version 2

Dated June 29, 2017

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



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 revise a plan to develop guidelines in the Project.

As a result of Activity 1.1.1.1, it shared 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 previous them for whole DRR planning and activities.

The framework and the configuration of the risk assessment guideline were confirmed in the WG1.

NEMA is undertaking to revise the regulation for implementation of disaster vulnerability and risk Assessment (Annex of the Cabinet decision of 170, 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.

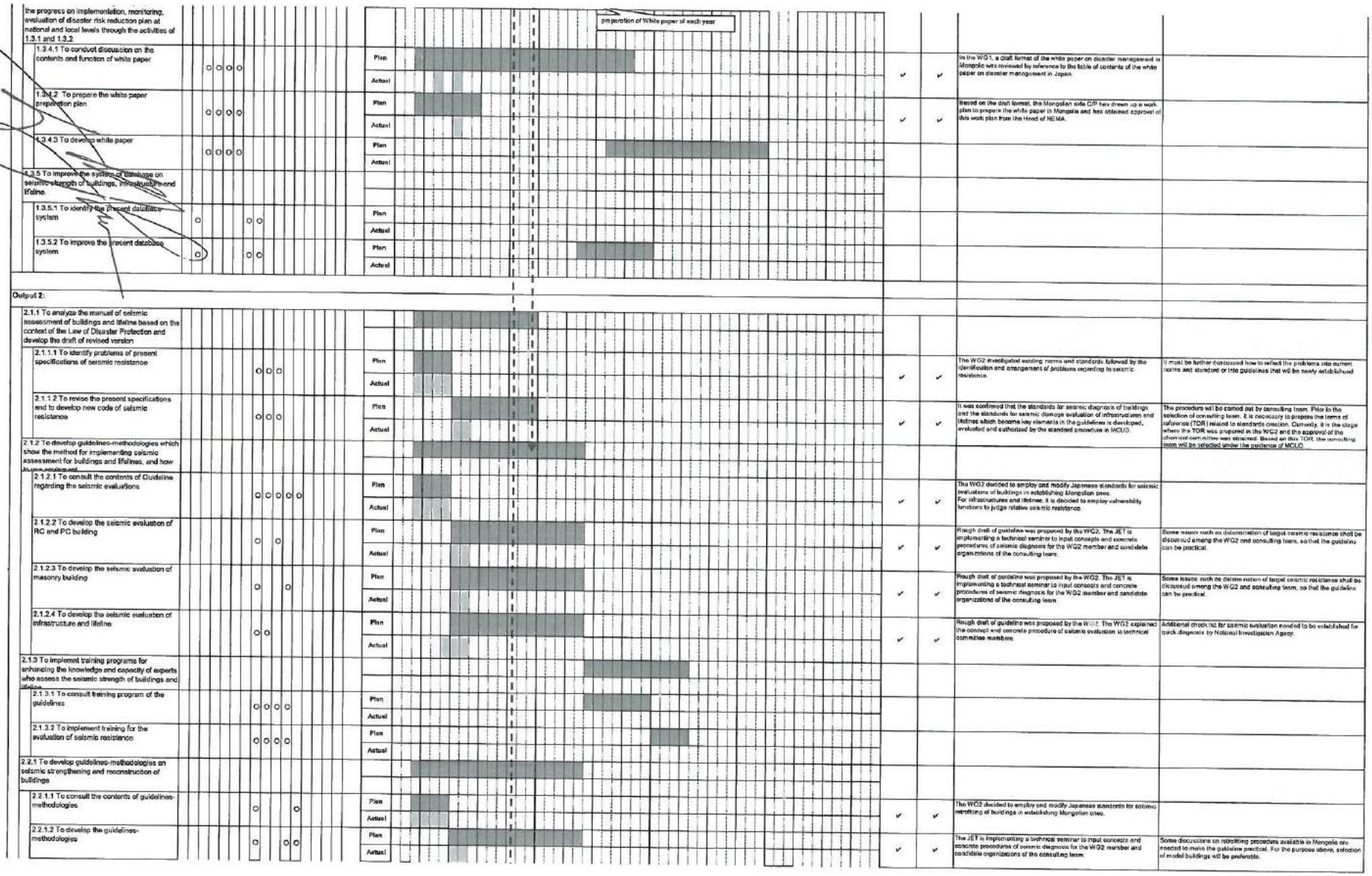
There is the instruction manual for utilization of disaster management plan form (Order of Head of the NEMA, 2013) in Mongolia, but there is no practical guidance. Therefore, the WG1 member confirmed that the new guideline that forms the basic formulation of disaster management plan on behalf of the existing instruction manual.

It is necessary to clarify whether this guideline is to be included in the disaster management guideline.

It is necessary to confirm whether inputs from JET are suitable for this 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 activities in Activity 1.2.3 as a guideline.

Activity	Marks	Plan/Actual	Check	Check	Achievements	Issues / Remarks
1.1.3 To develop new regulation and the drafts 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	○ ○	Plan	✓	✓	The WG1 member verified the articles of the amended law of disaster protection. As a result, it was confirmed that the establishment and revision of eleven rules and regulations are necessary.	NEMA takes on initiative in implementing the work of newly establishing and revising rules and regulations and the JET inputs continuously knowledge and experience in Japan. Meanwhile, for the development of guidelines complementing the practical operation of rules and regulations, those guidelines are prepared by WG1 member as the main body.
		Actual				
1.1.3.2 To develop new regulations and revised regulations	○ ○	Plan				
		Actual				
1.1.3.3 To place the new and revised regulations in the process of approval and enforcement	○ ○	Plan				
		Actual				
1.2.1 To develop the draft of the agreement which shows the coordination and cooperation among NEMA and related organizations						
1.2.1.1 To extract items that need to conclude agreement to build cooperative system between NEMA and related organizations	○ ○	Plan	✓	✓	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.
		Actual				
1.2.1.2 To organize the items to be described in the agreement on the extracted activity items, coordinate with related organizations, prepare draft agreement	○ ○	Plan				
		Actual				
1.2.1.3 To conclude agreement	○ ○	Plan				
		Actual				
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						
1.2.2.1 To prepare training program on agreement between related organizations	○ ○	Plan				
		Actual				
1.2.2.2 To implement the training program	○ ○	Plan				
		Actual				
1.3.1 To identify problems and challenge of monitoring, report, evaluation and disclosure of disaster protection plan at national and local levels						
1.3.1.1 To conduct workshop for identifying issues on the national disaster prevention plan	○ ○	Plan	✓	✓	The contents of emergency response for each disaster are mainly described and there are few descriptions about disaster prevention and preparation.	The JET shared the document of "Countermeasures Common to All Disaster Types" is the basic disaster management plan in Japan with WG1 member as reference. Based on this input, 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.
		Actual				
1.3.1.2 To conduct workshop for revision of disaster prevention plan in UB city	○ ○	Plan	✓	✓	Regional disaster management plans of UB city was 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 just 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 plans based on this guideline was confirmed.
		Actual				
1.3.1.3 To conduct workshop for revision of disaster prevention plan in Selenge Aimag	○ ○	Plan				It is necessary to discuss in SC and/or JCC whether Selenge Aimag is suitable for the pilot area.
		Actual				
1.3.1.4 To conduct workshop for revision disaster prevention plan in Gobi-Altai Aimag	○ ○	Plan				It is necessary to discuss in SC and/or JCC whether Gobi-Altai Aimag is suitable for the pilot area.
		Actual				
1.3.2 To revise the plans made in 1.3.1 and make a manual for the revision of disaster protection plan						
1.3.2.1 To revise existing disaster prevention plan	○ ○	Plan	✓	✓	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.	
		Actual				
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	○ ○ ○ ○ ○	Plan	✓	✓	According to 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 database that can be utilized for disaster management plans and the white paper preparation are limited.	As the improvement policy of the current system, 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 (GIS).
		Actual				
1.3.3.2 To identify rules and regulation on data collection and information sharing	○ ○ ○ ○ ○	Plan	✓	✓	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.	the WG1 member decided to install the Web-GIS (e-comi map) to the Mongolian National Data Center (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.
		Actual				
1.3.3.3 To prepare the database gideline based on the result in 1.3.3.2	○ ○ ○ ○ ○	Plan				
		Actual				
1.3.3.4 To improve the present system and system operation manual	○ ○ ○ ○ ○	Plan				
		Actual				
1.3.4 To elaborate white paper on disaster risk reduction which let the Mongolian people know						



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 the draft format, the Mongolian side CP 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.		✔	✔		
The WG2 investigated existing norms and standards followed by the identification and arrangement of problems regarding to seismic resistance.	It must be further discussed how to reflect the problems into current norms and standard or into guidelines that will be newly established	✔	✔		
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 MCUD.	The procedure will be carried out by consulting team. Prior to the selection of consulting team, it is necessary to prepare the items of reference (TOR) related to standards creation. Currently, it is the stage where the TOR was prepared in the WG2 and the approval of the short-list-committee was obtained. Based on this TOR, the consulting team will be selected under the guidance of MCUD.	✔	✔		
The WG2 decided to employ and modify Japanese standards for seismic evaluations of buildings in establishing Mongolian ones. For infrastructures and lifelines, it is decided to employ vulnerability functions to judge relative seismic resistance.		✔	✔		
Rough draft of guideline was proposed by the WG2. 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.	Some issues such as determination of target seismic resistance shall be discussed among the WG2 and consulting team, so that the guideline can be practical.	✔	✔		
Rough draft of guideline was proposed by the WG2. 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.	Some issues such as determination of target seismic resistance shall be discussed among the WG2 and consulting team, so that the guideline can be practical.	✔	✔		
Rough draft of guideline was proposed by the WG2. The WG2 explained the concept and concrete procedure of seismic evaluation to technical committee members.	Additional check list for seismic evaluation needed to be established for quick diagnosis by National Investigation Agency.	✔	✔		
The WG2 decided to employ and modify Japanese standards for seismic retrofitting of buildings in establishing Mongolian ones.		✔	✔		
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.	Some discussions on retrofitting procedure available in Mongolia are needed to make the guideline practical. For the purpose above, selection of model buildings will be preferable.	✔	✔		

Activity						Remarks		Issue	Solution
3.2.1 To develop comprehensive work plan for disaster risk reduction education and raising awareness at national and local levels									
3.2.1.1 To interview related organizations about coordination and cooperation	△	△	○	○	Plan / Actual	✔	✔	The WG3 member visited the relevant organizations and got their initial opinion.	
3.2.1.2 To examine framework for NEMA to conduct integrated management	△	△	○	○	Plan / Actual	✔	✔	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 (ADPC) was confirmed	
3.2.1.3 To implement regular meetings	△	△	○	○	Plan / Actual				
3.2.1.4 To create a website for the coordination and share information among the relevant organizations	△	△	○	○	Plan / Actual	✔	✔	The WG3 member discussed with the IT specialists of NEMA for the development of the website. Also, the member got detailed information of the ADPC project to utilize the NEMA server developed under the project.	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
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									
3.2.2.1 To review existing textbooks of DRR education for communities	△	△	○	○ ○	Plan / Actual	✔	✔	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.
3.2.2.2 To discuss and develop training materials	△	△	○	○ ○	Plan / Actual				
3.2.2.3 To implement Training of Trainers workshop	△	△	○	○	Plan / Actual				
3.2.2.4 To implement workshops in the pilot area	△	△	○	○	Plan / Actual				
3.2.3 To develop and implement educational and training program for implementing disaster prevention and simulation program in Training Center									
3.2.3.1 To examine and consider a study program for the training center	△	△	○	○	Plan / Actual	✔	✔	The WG3 member examined the current program of the training center and reviewed it for the improvement. It was agreed to prepare the report on how to improve the current training program in the WG3	
3.2.3.2 To examine materials and equipment for improvement of training center	△	△	○	○ ○	Plan / Actual	✔	✔	The WG3 member made an initial examination.	
3.2.3.3 To support procurement of equipment	△	△	○	○ ○	Plan / Actual				
3.2.3.4 To develop educational materials such as movie, exhibition, etc.	△	△	○	○ ○	Plan / Actual				
3.2.3.5 To operate training program	△	△	○	○	Plan / Actual				
3.2.3.6 To examine expansion to other regions	△	△	○		Plan / Actual				

Duration / Phasing	Plan / Actual

Monitoring Plan	Year	2017					2018				2019				2020				Remarks	Issue	Solution
		IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV			
Monitoring																					
Joint Coordinating Committee	Plan / Actual																				
Set-up the Detailed Plan of Operation	Plan / Actual																				
Submission of Monitoring Sheet	Plan / Actual																				
Reports/Documents																					
Work Plan / Project Interim Report	Plan / Actual																				
Project Completion Report	Plan / Actual																				
Public Relations																					
	Plan / Actual																				
	Plan / Actual																				

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

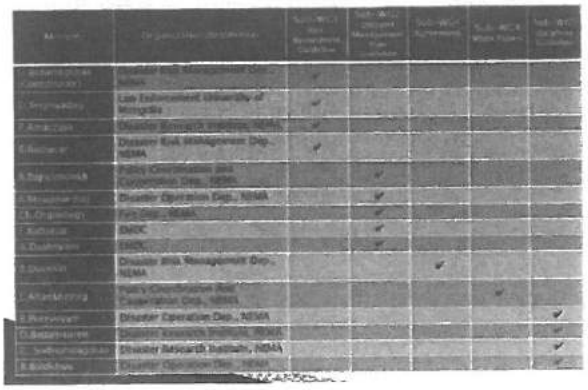
Progress of WG1 Activity

"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



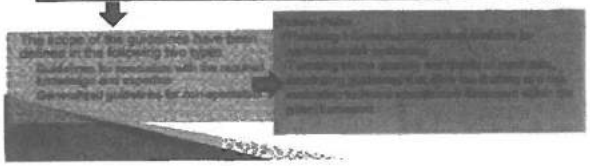
Sub-Working Group 1.1
Risk Evaluation Guidelines

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

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, Labor 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 30th 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.

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

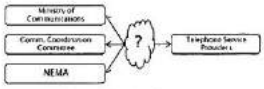
- Progress Report

Agreement Sector / Contents		Priority Emergency Phone Lines	Communications: Dissemination from WG	Communications: Dissemination from Public Media Outlets	Fuel: Railway Damages	Fuel: Gathering Information on Resources	Pharmaceutical: Medicinal Resources
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 (Petroleum)	Not started (Ministry of Health)
	Agreements W/G	Main draft is being amended	Draft developed	Draft developed	Not started	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

Cover of the manual

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.

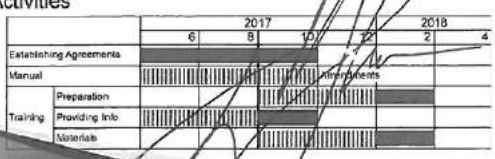
Example: National fuel reserves

○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

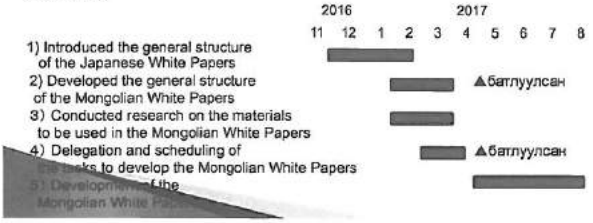


Sub-Working Group 1.4 White Papers

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

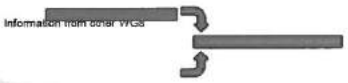
- Determined the departments and divisions responsible for each section of the White papers (approved by the head of the NEMA);
- Determined the submission deadline for each section based on the working plan.

○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 WG5) (Planned to be included starting from the 2018 White Papers)

- Future Activities

	2017				2018						2019		
	6	8	10	12	2	4	6	8	10	12	2	4	6
2017 White Papers							Incorporate previous experience						
2018 ны White Papers													



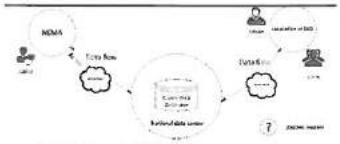
Sub working group 1.5
Database guideline

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.

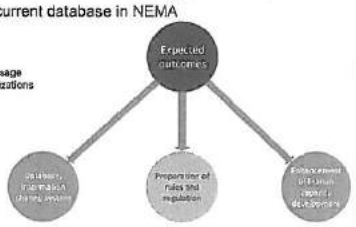
Advantage: Systematically keeping information, registration with good management and improving information sharing between NEMA and state organizations as well as public.



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.

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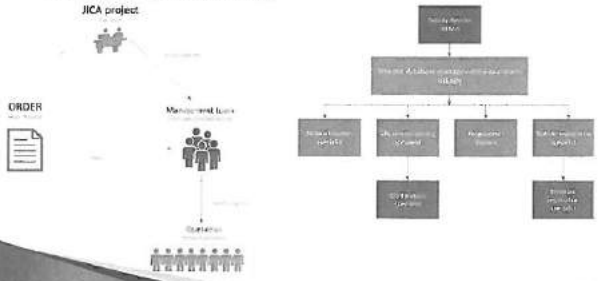
Sub working group 1.5
Database guideline

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)



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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: 60% 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 to setup of E-comi map in National Datacenter.

Current technical spec of server in NDC:
Type of server: Virtual server (vmware)
vCPU : 1Core
Random access memory: 6GB
HARD drive capacity: 100GB
Display CARD : 1
BACKUP HDD : 1

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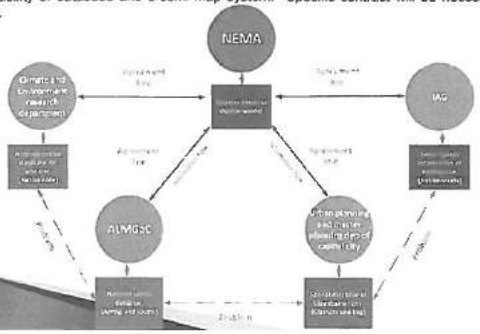
Sub working group 1.5
Database guideline

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.



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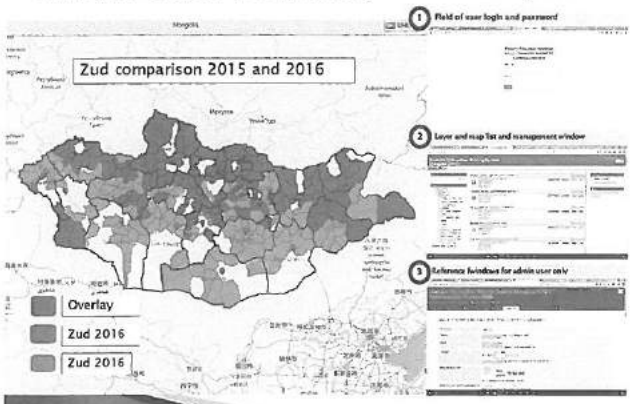
5.Example: Outputs of E-comi map

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, ALMGeC, 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	✓ Capital disaster prevention and preparedness plan, immediate restoration activities and recovery plan; ✓ DRR governance system for cold regions; ✓ Disaster prevention and preparedness plans for cities and regional areas; ✓ Specificities of regional DRR plans and main amendments to be made to these plans.
Public Participation	✓ Public participation in disaster-resilient cities and activities to strengthen DRR capacity in regional areas; ✓ Preparedness plan, emergency management system, and arrangement of temporary shelters of independent voluntary disaster relief organizations; ✓ Sensory DRR training, DRR education for citizens, training programs and equipment, and their management.
DRR Database	✓ The use of the DRR database by state institutions, and promoting open data; ✓ Developing earthquake emergency information transmission systems, and improved technology for damage evaluation.

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

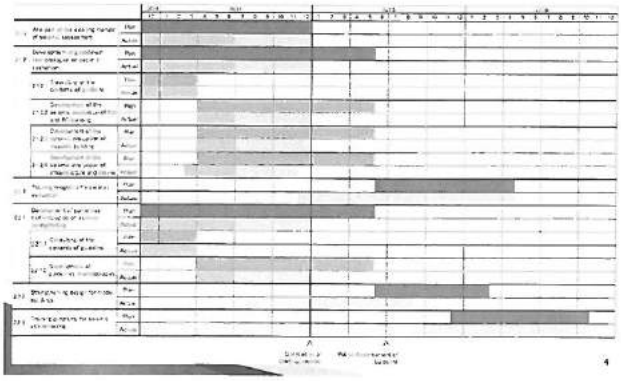
Contents

- 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

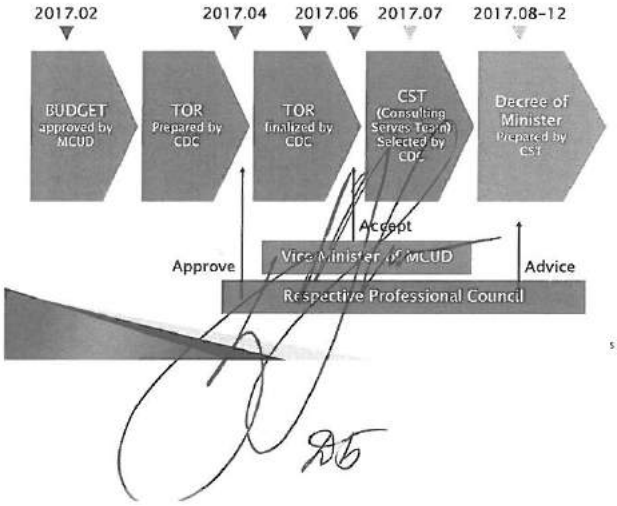
WG2 Members

Member	Organization/Institution	Sub-WG1 Seismic Evaluation of Buildings	Sub-WG2 Seismic Evaluation of Infra and Lifeline	Sub-WG3 Seismic Strengthening of Buildings	Remark
D. Zanabazar (Coordinator)	MCUD	✔	✔	✔	
Z. Battulga (Coordinator)	NEMA	✔	✔	✔	
Sh. Uranchimeg	GASI	✔	✔		
B. Tsend-Ayush	UB City	✔		✔	
G. Saruultya	CDC	✔		✔	
T. Galbadrakh	NEMA		✔		
G. Erkhembayar	MCUD	✔		✔	
M. Oyunchimeg	MUST				Move to CST
B. Gantulga	ALGC	✔	✔		
B. Munkhsaikhan	GASI		✔		
Ts. Khulan	UB City	✔		✔	New Member

Progress Overview



Procedure to prepare Norms

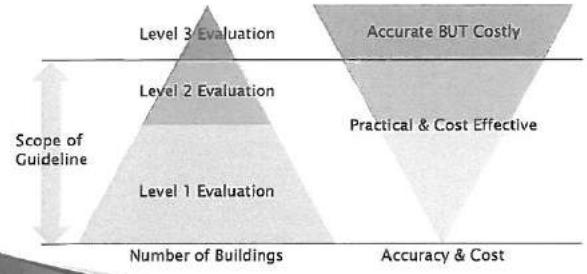


Sub WG2-1 Seismic Evaluation of Buildings

- 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)



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Sub WG2-1 Seismic Evaluation of Buildings

- Progress (cont'd)

Issues	Solutions (Discussion Required)
Determination of Target Seismic Capacity I_{SO}	• Based on Mongolian Design Norms • Reflection of Service Life?
Compatibility among Evaluation Levels	• Adjustment based on Sample Evaluations
Taking Mongolian Practice into Account	• Current practice shall properly be included in Norms
Application to Passport	• Comparison to Existing Evaluations • Examination of Differences
Application to Building Certification	• Introduction of Seismic Performance Level based on the Relationship between I_S and I_{SO}

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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

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Sub WG2-2 Seismic Evaluation of Infrastructures and Lifelines

- Progress (cont'd)

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Sub WG2-2 Seismic Evaluation of Infrastructures and Lifelines

- Progress (cont'd)

No.	Item1	Item2
1	Ground Condition	• Soil Type • Liquefaction Potential
2	Pipe Condition	• Construction Year • Material
3	External Condition	• Corrosion • Construction Quality
4	Parts of Pipe	• Joint • Equipment
5	Pipe Support Structure	• Structural Capacity
6	Seismic Information	• Vs • Rms
7	Social Condition	• Social Impact

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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

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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 retrofiting
  - Others

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. Enkhtogtokh

Walking Group Member (Mongol side)	Walking Group 3-1 Member (Japan side)
MECSS Byagmar	DRR education I Miki Kodama (Ms.)
MECSS Gantsetseg. Ch Baljinnyam. P	DRR education II Yujiro Ogawa (Dr.)
ERI (Education Research Institute) Enkhtogtokh. A Erdenechimeg. B	Development of disaster management teaching materials I Amarjagal. B Yoko Ota (Ms.)
ERI (Education Research Institute) Mongolkhatan. G Malin. G	Community disaster management Toshikazu Hiwaki (Dr.)
NEMA Disaster Prevention Department Munkhbat O. Tsend-Ayush (Ms)	Local Consultant Dashdorj. G Adiyaryam. D
ITPD N. Munkhbayar	Local Staff Byambasuren. 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

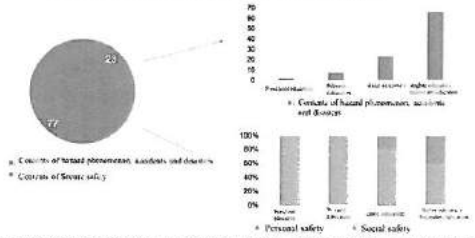
Formulation of educational program and preparation of guidance for teachers

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)

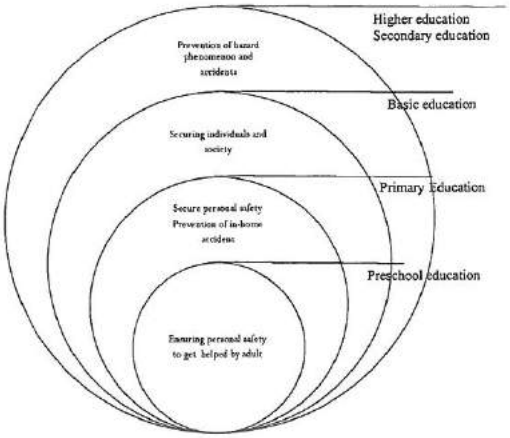
Contents of hazard phenomenon, accidents and disasters	Safety contents
• Danger phenomenon, machine-related accident, terrorism, explosion accident, livestock significantly decreasing etc	• Understanding of individual safety (body, language, spiritual attention, prevention, protection etc.) • Understanding of the safety of society (citizen's unity, peace, national security, etc.) • How to prevent and overcome the followings, terrorism, violence, drugs, sexual harassment, trafficking

Contents are reflected in the educational program

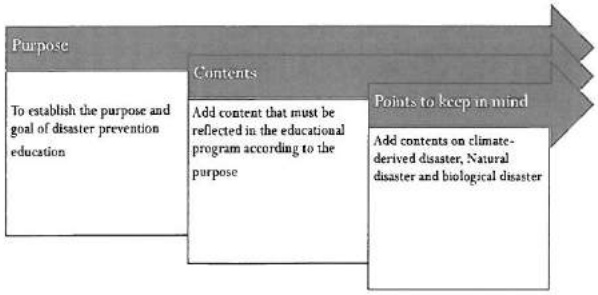


Contents of danger phenomenon and disasters are sufficiently reflected at higher education, secondary education and basic education. Regarding preschool education and primary education, constant content of danger phenomenon and disasters are reflected.

- 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:

2.1. Purpose **2.2.** Goal **2.3.** Contents **Home accident** ・Prevention of in-home accident ・Treatment of pharmaceuticals and chemical substances ・Emergency relief **Safe environment** ・Natural environment ・Social environment **Hazard phenomenon** ・Hazard phenomenon of Nature ・Hazard phenomenon of Ecology ・Hazard phenomenon of Living substance ・Hazard phenomenon of society ・Social security	Preschool education **2.1.** Purpose ： Get knowledge about danger and accidents from guardians' guidance and begin learning how to protect themselves . Primary Education **3.1.** Purpose ： To understand possible dangers and accidents and learning to protect yourself Basic education **4.1.** Purpose ： Protecting yourself against dangerous phenomena and accidents and learning how to provide emergency relief. Higher education 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

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.Munkhbat
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 Yoko Ota (Ms.)	
	D.BAT-ERDENE NEMA Disaster Prevention Department	DRR at Community Level Toshikazu Hiwaki (Mr.)	
	B.CHINBAT 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.)	
	B.AMGALAN NEMA Administrative management Department	DRR Education 2 Yujiro Ogawa (Dr.)	
	B.LUUBINGEGEE DRR Training Center, ENDC	Local Expert G.DASHDORJ	
	M.AMARTUNGALAG Ministry of Education, Culture, Science, and Sports Lifelong Education Department	Local Expert D.ADIYANYAM	

2

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 of 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'.

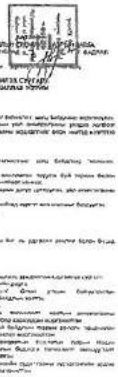
3

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



Save the Children JICA

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 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)

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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

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

		Proposed location	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 (ger areas)	Bayanzurkh district	Highly dense ger 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 Erdenet (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 Prevention Education" (DPE) program at local schools based on the Disaster Management Education Guideline/Curriculum which will be developed within the scope of the projectas a result kindergartens 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 Prevention 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	➢ Gaps in conducting DPE and updated training methods in Japan ➢ DPE science and researches at the School education research institution ➢ Examples of School DPE (curriculum, trainings during the special activities, DPE Simulation) At each school level (primary to high) ➢ DPE training for school teachers and staffs
Partnering school and local disaster protection education	➢ Examples of implementing DPE during out of school educational activities (experience student DPE training) ➢ DP Partnering Program for schools and local
Local DPE Training	➢ Training method to conduct effective community training on earthquake ➢ Experience community DPE Simulation ➢ 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)

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Thank you for your attention

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