

**MINUTES OF MEETING
ON
THE SEVENTH 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 seventh meeting on February 1, 2019 from 10:00 to 12:30, at Conference Room of National Emergency Management Agency (hereinafter referred to as "NEMA"), Ulaanbaatar, Mongolia, chaired by Mr. ARIUNBUYAN Gombojav, First Deputy Chief and Brigadier General, NEMA on behalf of Mr. Badral Tuvshin, Chief and Major 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, February 1, 2019



Mr. Ko Goto
Director
Disaster Risk Reduction Group
Global Environment Department
Japan International Cooperation Agency
Japan



Mr. Kiyotaka Owada
Team Leader
JICA Expert Team
Japan



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



Mr. Batkhuu Idesh
Director General
Development Financing Department
Ministry of Finance, Mongolia

ATTACHED DOCUMENT

1. Progress of Activities for each Working Group

The representatives of each Working Group (hereinafter referred to as "WG") member explained the current progress of WG activities based on the presentation documents as shown in the Annex 3. JCC members understood the progress and outputs of WG activities, existing issues and future plan at this moment.

2. 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") 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 sixth JCC on September 21, 2018 in order to respond to changes in members' positions and conduct more effective WG activities. JCC members agreed about the amended member list of WG as shown in the Annex 4.

3. Progress of Procuring Equipment of Earthquake Simulation Experience for Disaster Protection Training and Methodology Centre (hereinafter referred to as "DPTMC")

Mongolian side explained that following advance preparations necessary for installing the equipment of earthquake simulation experience at the DPTMC have already been completed and planned.

- ◇ Renovation of a slab foundation
- ◇ Construction works to prevent the room where the equipment will be installed from flooding
- ◇ Installation of switchboard by February 4, 2019 and the wiring on February 11, 2019
- ◇ Arrangement of a portal crane and two sets of hand lift jack by February 11, 2019
- ◇ Installation of a safety fence and steps in the appropriate place on February 18 and 19, 2019

Japanese side explained that JICA shall dispatch Japanese engineers from 10 to 23 of February 2019 to conduct installation works of the equipment and train DPTMC's staffs in charge to do regular maintenance. Then, Japanese side requested Mongolian

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side to deal with following matters,

- ◇ To install water stop boards at the edge of a slab foundation to prevent the equipment from flooding directly after installation works of the equipment.
- ◇ To take responsibility for continuing maintenance of the equipment and to secure the annual budget necessary to keep on the proper maintenance and management of the equipment.
- ◇ To undertake essential countermeasures against further inundation in the whole basement floor of DPTMC within 2019.

Mongolian side accepted above requests and promised to conduct waterproofing work of whole basement floor of DPTMC with adequate construction management from the end of March to May 2019. Furthermore, Mongolian side explained that the budget for this waterproofing work has already been secured by Emergency Management Department of the Capital City (hereinafter referred to as "EMDC") as a part of the budget for inspection and maintenance of DPTMC, and the detailed schedule and the constructor of this work will be decided by the end of March 2019.

4. Future Plan for Publishing White Paper

Japanese side recommended that Mongolian side had better establish the publication of the white paper in the annual operating plan of NEMA based on the experience for preparation of the white paper in 2017.

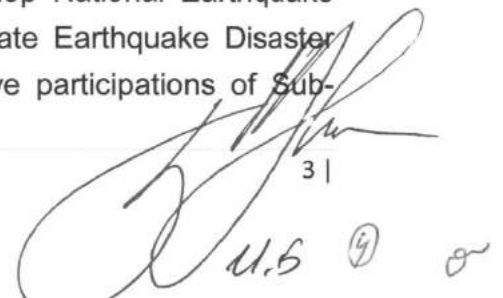
Mongolian side explained that formulation and publication of the white paper in 2018 has already been specified in the annual plan for 2019 and it will be continued to publish the white paper every year. Also, the kick-off meeting with the participation of representatives from each department for formulating the white paper in 2018 was held on January 29, 2019 by the WG1 member of the Project.

5. Confirmation of Required Activities toward the Achievement of Indicators in Project Design Matrix

Both Japanese side and Mongolian side confirmed following activities should be implemented to reach the project purpose and outputs.

- ◇ To keep on efforts to get the approval of all guidelines and manuals formulated in the WG1 activity.
- ◇ To make special efforts to accelerate to develop National Earthquake Disaster Protection Planning Guideline and State Earthquake Disaster Protection Service Planning Guideline by active participations of Sub-

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WG1-2 members.

- ✧ To secure sustainability to disseminate the guidelines of seismic diagnosis and seismic strengthening of buildings and infrastructures by conducting a series of trainings of trainers.
- ✧ To conduct active public relations for the webpage for sharing the DRR training schedule and the training program for implementing disaster prevention and simulation program in DPTMC.

6. Next JCC meeting

Both side agreed that the next (8th) JCC meeting will be scheduled in June 2019 and the final (9th) JCC meeting will be held in November 2019. Topics of "how sustainable project achievements are" and "indicators of project purpose and overall goal" will be discussed in the 8th JCC meeting..

7. Question and Answer on the JCC

The record on the session of Question and Answer in the JCC is shown in Annex 5.

Annex 1: List of participants

Annex 2: Agenda of the JCC meeting

Annex 3: Presentation documents for the progress of Activities for each Working Group

Annex 4: Working Group Member List

Annex 5: Question and Answer in the JCC meeting



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Annex 1: List of Participants

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

Date: 2019/2/1

Place: NEMA Conference Room (1st Floor)

Title of Meeting: 7th Joint Coordination Committee (7th JCC)

Name	Position, Organization	E-mail/ Tel	Signature
T. Badral <i>Arvinbuyan</i>	Chief, Major General, NEMA		<i>[Signature]</i>
L. Sayana	Advisor in charge of Emergency Management of Deputy Prime Minister		<i>[Signature]</i>
S. Magnaisuren <i>Bayalsaitan</i>	State Secretary, Ministry of Construction and Urban Development		<i>[Signature]</i>
D. Batsaikhan	Director, Disaster Prevention Department, NEMA		<i>[Signature]</i>
Yo. Jargalsaikhan	Referent of National Security Council		
L. Ulziibayar	Director, Policy Coordination and Cooperation Department, NEMA		
D. Jargal	Director, Infrastructure and State Inspection Department, General State Inspection Agency	<i>d.jargal@yahoo.com</i>	<i>[Signature]</i>
T. Batkhuu	Director, Development Financing and Debt Management Department, Ministry of Finance		
J. Myagmar	Director, Division of Preprimary and Primary Education, Ministry of Education, Culture, Science and Sports	<i>jmyagmar@mecs.gov.mn</i>	<i>[Signature]</i>
P. Bayarkhuu	Vice Mayor of the Capital City in charge of Urban Development		
N. Ulambayar	Director, Emergency Management Department of the Capital City (EMDC)		
G. Enkhtuya	Director, Construction Quality and Safety Division, Master Planning Agency of Capital City	<i>enkeesen@yahoo.com</i> <i>99016177</i>	<i>[Signature]</i>
Mutsumi Sato	Chief Representative, JICA Mongolia office		
Satomi Yoshino	Project Formulation Advisor, JICA Mongolia Office	<i>Yoshino.Satomi@jica.go.jp</i>	<i>[Signature]</i>
Ch. Munkhmanlai	Program Officer, JICA Mongolia office		
Ko Goto	Director, Disaster Risk Reduction Team2, Disaster Risk Reduction Group, Global Environment Department, JICA	<i>goto.ko@jica.go.jp</i>	<i>[Signature]</i>
Takafumi Sakurazawa	Disaster Risk Reduction Team2, Disaster Risk Reduction Group, Global Environment Department, JICA	<i>Sakurazawa.Takafumi@jica.go.jp</i>	<i>[Signature]</i>
Hirofumi Miyashita <Observer>	First Secretary, Embassy of Japan in Mongolia	<i>miyashita@mpf.go.jp</i>	<i>[Signature]</i>
Toru Oikawa <Observer>	Second Secretary for Security, Embassy of Japan in Mongolia		<i>[Signature]</i>
Fumiya Niwa <Observer>	Second Secretary for Economic relation and ODA Program, Embassy of Japan in Mongolia		<i>[Signature]</i>

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

Date: 2019/2/1

Place: NEMA Conference Room (1st Floor)

Title of Meeting: 7th Joint Coordination Committee (7th JCC)

Name	Position, Organization	E-mail/ Tel	Signature
Kiyotaka ONADA	JET		
Osamu NISHII	JET	nishii@eyo.int.or.jp	
Saichiro FUKUSHIMA	JET	fukushima@rtkk-c.co.jp	
Odabunyar	JET	odko07@yahoo.com	
Munkbat, D.	NEMA	mr.munkbat@yahoo.com	
Bazarragchaa	NEMA DRMP Dept	bazaraagaa@gmail.com	
Munkhidul	CDC	4818888@gmail.com	
TsendAjgur	NEMA	tse01mq@gmail.com	
T. Biguy 7	NEMA	tumultastorhi@ymu.edu@gmail.com	
D. Sodnomrogiin	NEMA	Sodnomrogiin@gmail.com	
A. Bat-erdene	NEMA	eed112333a@yahoo.com	
A. Enkhtoptokh	MIER	enc.toptokh@yahoo.com	
B. Chimbaz	HOB	chimbazchimbaz28@gmail.com	
Bayanmunkh.B.	NEMA	bayanaanema@gmail.com	
T. Danduum	JET	andanduum@jet.or.jp	
T. Hiwaki	JET	hiwaki@ocglobe.jp	


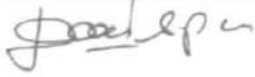

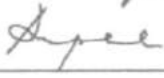


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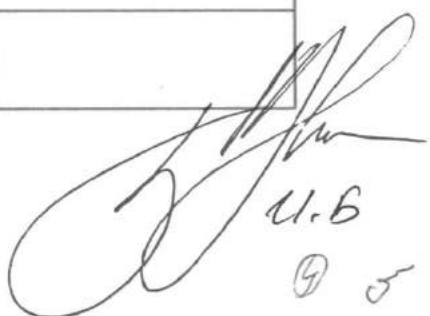
**"THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY
OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA"**

Date: 2019/2/1

Place: NEMA Conference Room (1st Floor)

Title of Meeting: 7th Joint Coordination Committee (7th JCC)

Name	Position, Organization	E-mail/ Tel	Signature
Enkh-Erdene		96956059	
Dashdorj	JET	chunod_9@yml	
Tumengerel	JET	99070494	tumengerel@gmail.com
Bolormaa	JET	99736052	
Amarjargal	JET	99297766	
Murun	JET	99057365	
Erdenebat	JET	99752398	


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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 7th Joint Coordination Committee (7th JCC)

Date: February, 1st 2019

Time: 10:00~11:40

Venue: NEMA Conference Room

No.	Time	Agenda	Presenter
	9:50-10:00	Registration	
1	10:00-10:10 (10 min)	Opening Remarks from NEMA	Mr. G.Ariunbuyan First Deputy Chief, Brigadier general, NEMA
2	10:10-10:20 (10 min)	Opening Remarks from JICA	Mr. Ko Goto Director, Disaster Risk Reduction Team2, Disaster Risk Reduction Group, Global Environment Department, JICA
3	10:20-10:25 (5 min)	Overview of Project Activity and Schedule	Mr. Kiyotaka Owada Team Leader, JICA Expert Team
4	10:25-10:40 (15 min)	Progress of WG1 Activity	<Sub-WG1-1 to 1-4> Sub-WG members <Sub-WG1-5> D.Sodnomragchaa Spatial Information and Technology Division, NEMA
5	10:40-10:55 (15 min)	Progress of WG2 Activity	<Sub-WG2-1 to 2-3> S.Munkhdul Construction Development Center
6	10:55-11:10 (15 min)	Progress of WG3 Activity	<Sub-WG3-1> A.Enkhtogtokh Education Research Institute, MECSS <Sub-WG3-2> D.Munkhbat Disaster Protection Training and Methodology Centre, EMDC
7	11:10-11:30 (20 min)	Discussion and Confirmation on: - Amendment of Working Group Member - Progress of Procuring Equipment of Earthquake Simulation Experience for the Disaster Protection Training and Methodology Centre - Future Plan for Publishing White Paper - Schedule of Next JCC - Others	Project Coordinator, NEMA Discussion with All Participants
8	11:30-11:40 (10 min)	- Closing Remarks	Mr. D.Batsaikhan Director of Disaster Prevention Department, NEMA

Annex 3: Presentation documents for the progress of Activities for each Working Group

Progress of the Project

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



Progress of the Project

Output 1

- Activities are underway for for planning DRR measures for aimags, soums and capital city districts and developing earthquake DRR plans based on the DRR planning, risk evaluation and database guidelines. → Improve the coordination of Sub-WG activities.
- NEMA needs to internally discuss the draft guidelines and obtain feedback. → Prepare the guidelines for official approval.

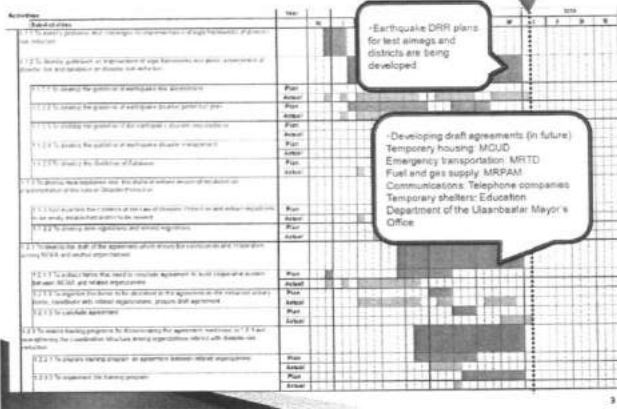
Output 2

- The guidelines have been approved and the relevant trainings are now being organized. → Master the utilization of seismic evaluation equipment as well as seismic evaluation and strengthening methodologies through the trainings.

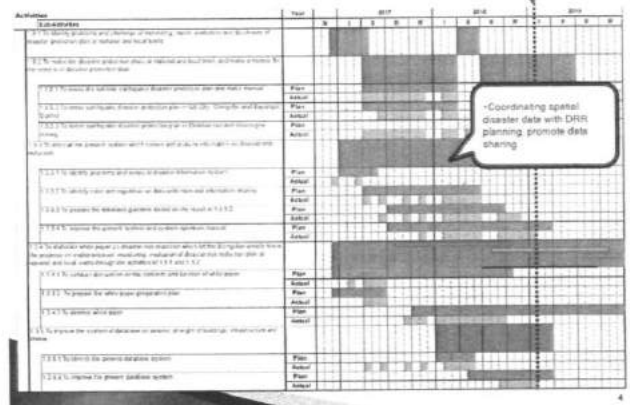
Output 3

- Instructor training for the "Safety Life Skills" training program is underway. → Effectively use and refine the instructor manual for implementing the "Safety Life Skill" training program.
- Training material for the DPTMC is being developed. → Include in the DRR plan of Output 1, and refine the DPTMC training contents based on the methods and experiences of Output 2.

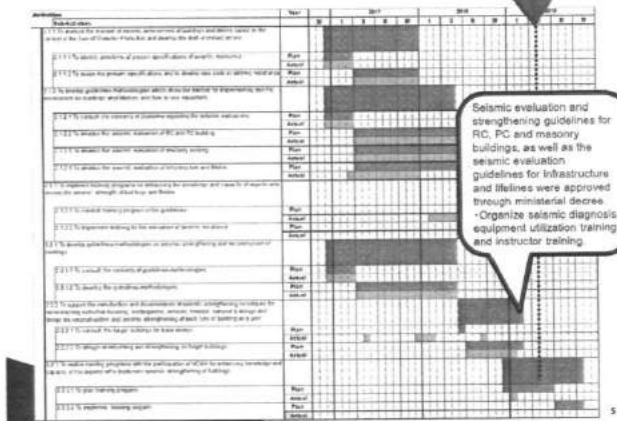
WG1 Progress Overview



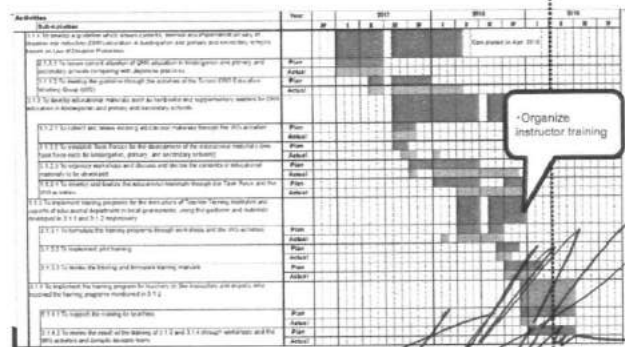
WG1 Progress Overview



WG2 Progress Overview

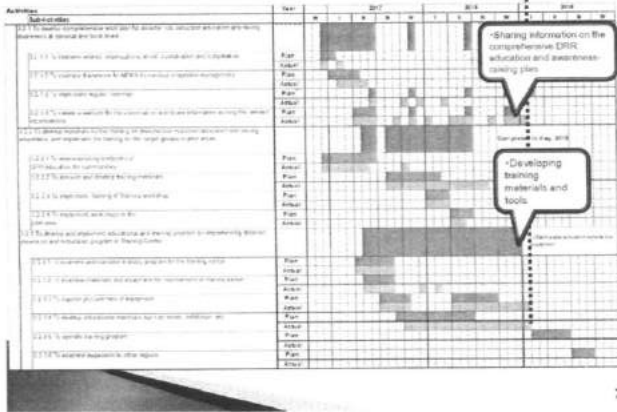


Sub-WG 3.1 Progress Overview



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Sub-WG 3.2 Progress Overview

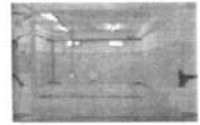


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The Earthquake Experience Simulation Equipment to be Installed at the DPTMC

Waterproofing and slab foundation construction have been completed for the room in which the equipment will be installed. Currently, activities related to equipment installation as well as the preparation of necessary tools and equipment are being implemented.

- Setting up electric switchboards and wiring;
- Preparing safety fence and steps;
- Preparing the portal crane and hand lift jack.



Further measures to take:

- Placing water stop boards along the slab foundation;
- Maintenance and repair services for earthquake experience simulation equipment;
- Full waterproofing of basement floor.



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Progress of WG1 Activities

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

7th Joint Coordinating Committee (JCC) Meeting
February 1st, 2019

Sub-WG 1-1: Earthquake Disaster Risk Evaluation Guideline

Progress of Activities

- The Sub-WG is cooperating with JET to develop the structure of the earthquake disaster risk evaluation guideline.

EARTHQUAKE DISASTER RISK EVALUATION GUIDELINE
(Regional Level)
Draft Guideline Structure

Contents

1. General Provisions
2. Preparation for Evaluation
 - 2.1. Terminology
 - 2.2. Required Information
3. Conducting Earthquake Risk Evaluation
 - 3.1. Methodology for Conducting Earthquake Risk Evaluation
 - 3.2. Determining Earthquake Risk
 - 3.3. Earthquake Risk Analysis
 - 3.3.1. Brief Analysis of Disaster Risk
 - 3.3.2. Disaster Risk Evaluation
4. Developing Recommendations
5. Developing the Earthquake Risk Evaluation Report
6. Appendix

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Sub-WG 1-1: Earthquake Disaster Risk Evaluation Guideline

➤ Brief Analysis of Disaster Risk

Within the scope of the brief analysis of earthquake disaster risk; evaluation and damage estimation was conducted on the pilot aimags for developing earthquake DRR plans, namely Omnogovi and Darkhan-Uul aimags.

➤ Disaster Risk Evaluation

The earthquake disaster risk evaluation guideline is being developed based on the risk evaluation technical contents provided to the Sub-WG by JET. The guideline will also include more precise risk evaluation methods for mesh-based geographic regions.

The Sub-WG plans to finish the draft guideline in April 2019.

3

Sub-WG 1-2: Guideline for Developing Earthquake DRR Plans

Progress of Activities

- Methodological training for developing earthquake DRR plans are being organized in test regions based on the Guideline for Developing Earthquake DRR Plans for Aimags, Soms and Capital City Districts. The Sub-WG is currently working to fully develop the earthquake DRR plans for the test regions, refine the guideline, and have the guideline approved in September 2019.
- The Sub-WG is currently working on adjusting the draft Guideline for Developing National and State Authorities' Earthquake DRR Plans, and preparing to submit this guideline to the Head of NEMA for approval.

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Sub-WG 1-2: Guideline for Developing Earthquake DRR Plans

Test Regions for Developing and Refining Earthquake DRR Plans

- | | |
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| <p>Darkhan-Uul and Omnogovi aimags</p> <ul style="list-style-type: none"> ➤ May 2018 ➤ September 2018 ➤ November 2018 ➤ Organized in Darkhan-Uul aimag in January 2019. Planning to organize in Omnogovi aimag in February 2019 | <p>Bayangol and Chingeltei Districts of Ulaanbaatar</p> <ul style="list-style-type: none"> ➤ August 2018 ➤ September 2018 ➤ December 2018 ➤ January 2019 |
|--|---|
-
- | | |
|---|--|
| <ul style="list-style-type: none"> ➤ Earthquake DRR plans for aimags will be fully developed in September 2019. ➤ Currently obtaining feedback on the contents of the guideline, and incorporating them into the guideline ➤ Disaster prevention and risk reduction plans are in the finalization stage. | <ul style="list-style-type: none"> ➤ Earthquake DRR plans for capital city districts will be fully developed in September 2019. ➤ Currently obtaining feedback on the contents of the guideline. ➤ Disaster prevention and risk reduction plans are in the development stage. |
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Sub-WG 1-3: Cooperation Agreements

Sector	Contents	Organizations	Progress
Food	Organize stable supply of foods and water to disaster victims in evacuation places and temporary housings	NEMA-MOFALI	Agreement established on October 16, 2018.
Medicine, medical equipment	Stable supply of medicine for providing emergency medical services in regions struck by disaster	MOH-3 major pharmaceutical manufacturer and importer companies	Agreement established on November 12, 2018.
Construction materials, temporary housing	Supply of construction materials required for the immediate restoration of structures, and construction of temporary housing	MCUID-Association of Construction Material Manufacturers, Construction Association	The date for signing the agreement is being scheduled, and the agreement is planned to be established in the near future.
Clean water	Organize stable water supply at regions struck by disaster	NEMA-Water Management Authority	The Water Management Authority approved the draft agreement. Currently, obtaining feedback from NEMA divisions.
Waste water treatment	Establish public lavatories in evacuation places and temporary housing, and organize the immediate restoration of sewage systems	EMDC-Facility Service Office of UB City	EMDC has delivered the draft agreement to the Facility Service Office of UB City for feedback.

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Sub-WG 1-3: Cooperation Agreements

Sector	Contents	Organizations	Progress
Temporary housing	Utilizing school buildings as temporary housing (School buildings to be built by Japanese government grants)	NEMA (EMDC)- Education Office of UB City	EMDC has delivered the draft agreement to the Education Office of UB City for feedback.
Communications	Setting up priority telephone lines during disasters, and limiting regular telephone services	Telephone companies, NEMA, CRC	CRC and telephone companies are currently studying the technical feasibility of the agreement.
Fuel and gas	Providing stable fuel supply required for organizing search and rescue, damage mitigation, and immediate restoration activities in regions struck by disaster.	NEMA-MRPAM	Draft agreement was developed in December 2018 and delivered to MRPAM.
Road and transport	Providing road and transport means necessary for organizing search and rescue, damage mitigation, and immediate restoration activities without delay in regions struck by disaster	NEMA-MRTD	Draft agreement delivered to MRTD for feedback.



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Sub-WG 1-4: White Paper

1. Sub-WG Members

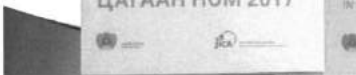
- Sh. Boldbaatar – Project Advisor
- O. Tsend-Ayush – Specialist from the Policy Coordination and Cooperation Department of NEMA, Lieutenant
- Osamu Nishii – Project Specialist
- Ya. Erdenebat – Project Translator
- The Sub-WG aims to develop and issue the first DRR White Paper in Mongolia that is comparable to the Japanese DRR White Paper.



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Sub-WG 1-4: White Paper

300 copies of the DRR White Paper was printed and distributed to NEMA divisions, the DRI, Central and Regional Emergency Management Departments, the Re-education and Rehabilitation Center of NEMA, the Law Enforcement University, the National Security Committee and the DPTMC.



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Sub-WG 1-4: White Paper

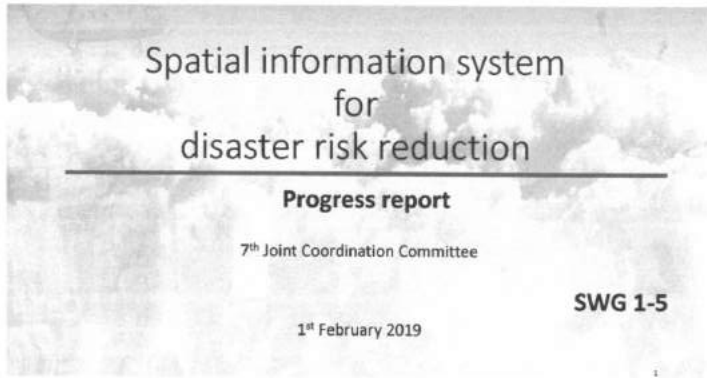
Further Activities

- Conditions are set for annual development and printing.
- The 2019 working plan for NEMA includes development of the 2019 version of the White Paper by the Disaster Prevention Department.
- The draft order for appointing the WG for developing the White Paper has been prepared.
- The "Manual for Developing the DRR White Paper" was developed based on the experiences and lessons learned from developing the 2017 version.
- The meeting of the WG in charge of developing the 2018 White Paper was held on January 29th, 2019. The contents and associated expenses of the White Paper were discussed during the NEMA Executive Committee meeting; and the White Paper is planned to be printed within April 2019.



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1. Overall progress of SWG 1-5:

Expected outputs	Progress /%/	Remaining activity
2 Development of web-system and geospatial database	80%	Database connection (Mapping system will be linked Daily based disaster information registering system)

2. Approval of guideline

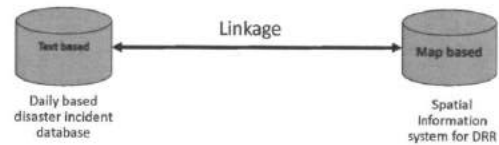
Guideline:

Preparation of draft guideline is on **100%**. We will introduce draft guideline into the next board of directors meeting.



3. Connecting databases in NEMA.

- Sub working group working on linkage between 2 databases in NEMA. 1) daily based disaster incident database and 2) spatial information system for DRR
- Disaster information system can be linked and embedded to risk database in near future.



4. Cooperation

NEMA and Master planning department of capital city working together on spatial data exchange:

- "On stage of contract negotiation with Master planning department of MUB. Spatial data exchange starts in February 2019.



5. Organize 3rd training (final)

- Working group will provide 3rd technical training to central and regional NEMA's staffs. Training will be implemented according to approved guideline, collected and adjusted spatial database for DRR.



6. Work plan (by 3 months)

	Name of activities	January	February	March
1	Approval of guideline	Finalize		
2	Linkage databases in NEMA	Finalize		
3	Contract negotiation with UB city	Finalize		
4	Final training	Finalize		

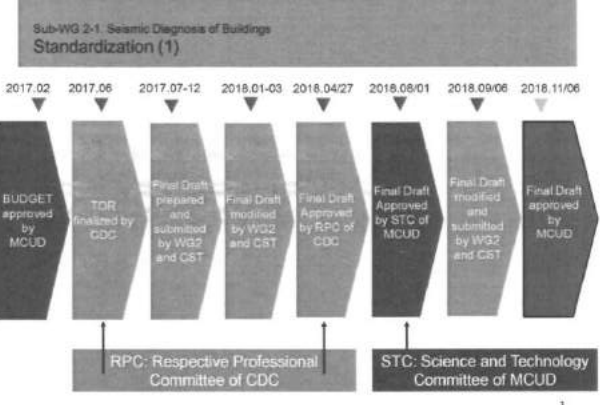
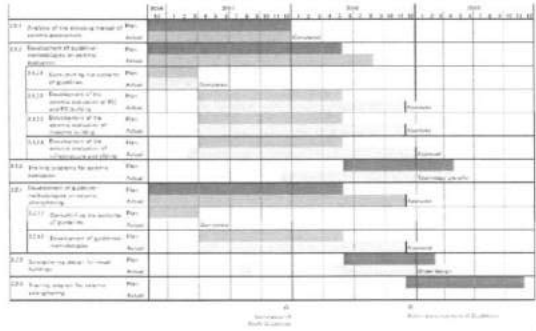
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Progress of WG2 Activity

1. Sub-WG 2-1. Seismic Diagnosis of Buildings
2. Sub-WG 2-2. Seismic Diagnosis of Infrastructures and Lifelines
3. Sub-WG 2-3. Design of Seismic Strengthening
4. Issue
5. Future activities

Progress Overview



Sub-WG 2-1. Seismic Diagnosis of Buildings Standardization (2)

- The final drafts were discussed by Science and technology committee of MCUD on 2018.08.01 and approved to issue ministerial order.
- Approved by the 185 Ministerial Order of 2018.11.06 of Minister of Construction Urban Development.

Minister order of MCUD

Sub-WG 2-1. Seismic Diagnosis of Buildings Training of Seismic Evaluation

- In 2018.11.12, equipment used for seismic diagnosis was handed from JICA to NEMA.
- In collaboration with the MCUD, NEMA, GASI, CDC and MACE, WG2 organized a two-day training course on "Equipment used for seismic diagnosis" between 2018.11.12 to 11.13.
- 64 people including inspectors of GASI and prefectural officers of building participated.

Sub-WG 2-1. Seismic Diagnosis of Buildings Training of Seismic Evaluation

- In 2019.1.30, one-day training course on "Seismic Diagnosis" was held, featuring candidates of trainees in TOT as teachers.
- This course was planned as one of the series of training course.
- 56 building engineers from private companies participated, showing their interests in the method.

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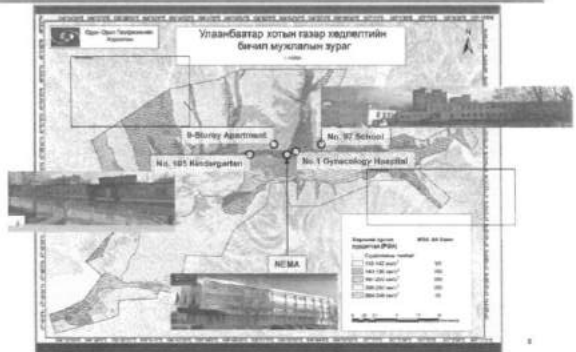
Sub-WG 2-2. Seismic Diagnosis of Infrastructures and Lifelines Standardization

- The final drafts were discussed by Science and technology committee of MCUD on 2017.12.22 and approved to issue ministerial order.
- Ministry of Road and Transport decided to issue a joint ministerial order on 2018.07.27.
- Approved by the 174/303 Joint Ministerial Order of 2018.12.28 of Minister of Construction Urban Development and Road Transport Development.

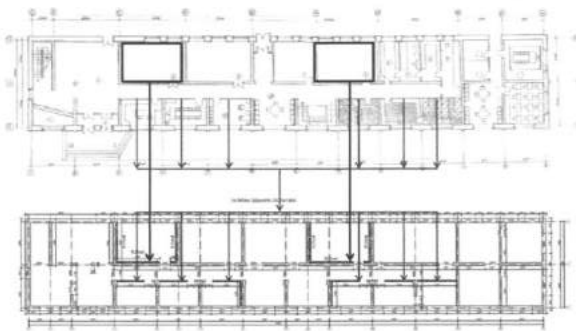


Joint Ministerial order of MCUD and MRTD

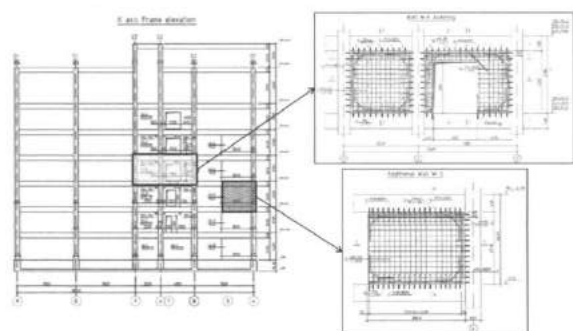
Sub-WG 2-3. Design of Seismic Strengthening Definition of Target Strength using Intensity MAP by IAG



Sub-WG 2-3. Design of Seismic Strengthening Retrofitting plan of NEMA main building /Masonry/



Sub-WG 2-3. Design of Seismic Strengthening Hospital of Gynecology /Reinforced concrete/

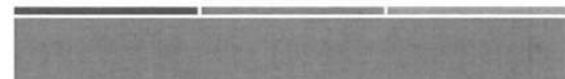


Issue & Future Activities

- Issue
 - There is no teacher to teach when conducting training in spreading seismic diagnosis and reinforcement methods of buildings.
- Countermeasure
 - Conduct training for TOT to teach seismic diagnosis and reinforcement methods.
 - Introduce training on seismic diagnosis and reinforcement methods of buildings into the MACE's /Mongolian Association of Civil Engineer/curriculum for engineer training.

Future activities

Items	Target Date
Training of seismic strengthening design	
Seismic strengthening design	2018.10-2019.03
Training	2019.04
Implementation of "Train of Trainer"	
Preparation of training manuals, materials and tools	2018.12-2019.05
Trial	2019.06-2019.10



Thank you for your attention.

The 7th Joint Coordinating Committee (JCC) Meeting of the PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA

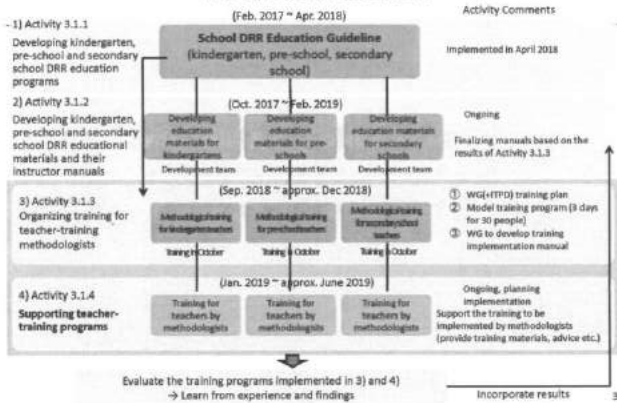
Sub-WG 3.1: School DRR Education Progress Report

2019.2.1

Sub-WG 3.1 Members DRR Education Working Group: School DRR Education

Mongolian Side	Japan Side
MECSS Myagmar J	DRR Education I Miki Kodama (Ms.)
MECSS Gantsetseg Ch, Baljanyam P	DRR Education II Yujiro Ogawa (Dr.) (till Mar. 2018)
ERI (Education Research Institute) Erdenechimed B	Seiji Suwa (Mr.) (from Apr. 2018)
ERI (Education Research Institute) Mongolbataar G, Halun G	Development of DRR Education Materials Yuki Ono (Ms.) Amariyagal N
NEMA Disaster Prevention Department Munkhbataar D, Enkhbatsuren G	Community Disaster Management Toshikazu Hwaki (Mr.)
ITPD (Institute of Teachers' Professional Development) N. Munkhbayer	Local Consultant Dashdorj G, Adiyanyam D
	Local Consultant Bolormaa T, Local Staff Byambasuren S

Output 3-1: Overall Progress of Activities Related to Training for School DRR Education

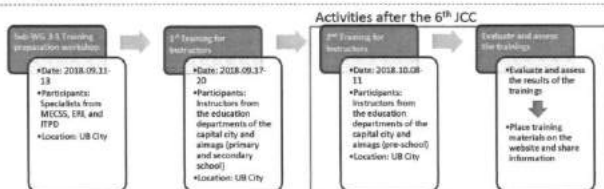


Sub-WG 3.1 Progress of Activities

Activity	Plan	Start	2017	2018	2019
3.1.1	Plan				
3.1.2	Plan				
3.1.3	Plan				
3.1.4	Plan				

Activity 3.1.3 Training for Instructors and Methodologists

Training Plan



Training Contents (Draft)

- Concept and main contents of the "Safety Life Skills" training program
- Mongolia's DRR framework and countermeasures being implemented against disaster risk
- General understanding of disasters and disaster protection
- General understanding of DRR education
- Best practices of DRR training
- Tools and materials for DRR education
- Workshop/practical teaching method, developing DRR education plans, developing teacher-training programs

Activity 3.1.3: Instructor Training

(2nd training for pre-school education methodologists)

- Training date: October 8-11, 2018
- Training participants: 30 employees from the culture and education departments of aimags and capital city districts
- Training objective: Implement training based on the "Safety Life Skills" training program of each aimag (training participants to organize teacher-training programs and ensure sustained educational activities)



- Training contents appropriate for pre-school education programs were included based on the educational program of Kindergarten No. 61 of Bayanzurkh District, which is setting an example for DRR education through its program based on picture books and stories, as well as activities such as listening to stories about earthquake experiences and drawing them.

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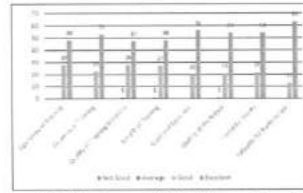
Sub-WG 3.1 Meeting

- Date: 2018.10.12 (Friday)
- Items discussed:
 - Activity 3.1.3: Evaluating instructor training programs
 - Activity 3.1.4: Discuss how to support the DRR training for teachers and employees of schools
 - ◆ Disseminate training materials
 - ◆ Discuss activities at pilot schools and kindergartens
 - Activity 3.1.2: Developing the manual for the "Safety Life Skills" training program
 - ◆ Setting the date for finalizing the manual
 - ◆ Determining the design of the manual, the pictures to include and the number of copies to print

7

[Results of the Sub-WG meeting] Activity 3.1.3: Instructor Training

- Results of the training feedback survey
(Consolidated results of pre-schools, as well as primary and secondary schools)



- ✓ Participants were satisfied with the contents, quality and duration of the training programs.
- ✓ In terms of the knowledge obtained from the trainings, the participants have emphasized the importance of disaster preparedness, of knowing that disaster can strike at any time, and of including DRR content and the relevant educational materials and tools in the current curricula of schools.

Further activities

- ✓ Provide training videos, images and videos to participants (using Google Drive)
 - Disseminate in rural areas
- ✓ Discuss how to establish a framework for the sustained implementation of the "Safety Life Skill" training program: include in the teaching contents of teachers who have worked 1, 5 and 10 years
- ✓ Support the activities for disseminating the "Safety Life Skills" training program by teacher instructors in rural areas
- ✓ Determine pilot schools (one each from kindergartens, primary and secondary schools) and activities to implement

8

[Results of the Sub-WG meeting] Activity 3.1.2: Developing Manuals

- Working plan for finalizing manuals (tentative)
 - Oct - Mar: Modifying and finalizing the contents of the manual based on the results and information obtained from the trainings
 - March 11 (Monday): Deadline for receiving the final draft
 - March 11 (Monday) ~ 15 (Friday): Prepare the print version
 - March 15 (Friday) ~ 20 (Wednesday): Adjust the contents of the print version
 - March 21 (Thursday) ~ 26 (Tuesday): Obtain expert feedback
 - March 26 (Tuesday) ~ 28 (Thursday): Make adjustments based on expert feedback
 - March 28 (Thursday) ~: Print and distribute
- Design of the manual and number of copies to print
 - B5 size, colored (or parts with images are colored)
 - Pre-School version: 50 pages and 1,000 copies; primary and secondary schools: 150 pages and 800 schools x 2 copies
 - Supporting materials: DVD (information on the manual, materials to use, training materials etc.)
 - Discuss the images to include in the manual

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Activity 3.1.4: Supporting the DRR Training for Teachers (Educational methodologists and principals of pre-schools in Bayanzurkh District)

- Training date/location: 2018.12.27~28/Kindergarten No. 61
- Training participants: 50 methodologists and principals of kindergartens in Bayanzurkh District
- Instructors: Emergency management department of Bayanzurkh District, ERI, MRCS, JET
- Training objective: Support the implementation of the "Safety Life Skills" training program



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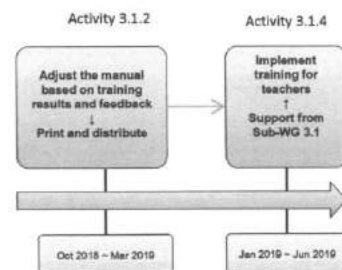
Activity 3.1.4: Supporting the DRR Training for Teachers (Training for pre-school teachers who have 10 years of teaching experience)

- Training date/location: 2019.1.16/School No. 73
- Training participants: 110 pre-school teachers who have 10 years of teaching experience
- Instructors: ITPD, JET
- Training objective: Introduce the "Safety Life Skills" training program to teachers with 10 years of teaching experience



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Plan for Further Activities of Sub-WG 3.1



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Sub-WG 3.2 Progress of Activities

THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY OF
EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA
7th JOINT COORDINATING COMMITTEE (JCC) MEETING

February 1st, 2019

Sub-WG 3-2 Members

Mongolian Side	Japanese Side
 D. Munkhbatt Manager of the Disaster Protection Training and Methodology Center of the EMDC, Lieutenant Colonel	 Development of Training Materials Yoko Ota (Ms.)
 D. Bat-Erdene NEMA Senior Specialist on Training and Awareness-Raising, Lieutenant Colonel	 Community Disaster Protection Training Toshikazu Hiwaki (Mr.)
 B. Chinbat Senior Specialist of the Disaster Prevention and Awareness-Raising Division of the EMDC, Lieutenant Colonel	 Development of Training Materials N. Anarjargal
 D. Dulamsuren Head of NEMA's Public Communications Center, Lieutenant Colonel	 Disaster Protection Training 1 Miki Kodama (Ms.)
 S. Doljinuren Disaster Prevention Specialist of the Emergency Management Division of Bayanzurkh District, Senior Lieutenant	 Disaster Protection Training 2 Yujiro Ogawa (Dr.)  Seiji Sawa (Mr.)
 B. Uurlingeegee Teacher at the Disaster Protection Training and Methodology Center of the EMDC	 Regional Specialist G. Dashdorj
 B. Arunchimags Specialist at the National Center for Lifelong Education, MECBS	 Regional Specialist D. Adiyanyam / T. Bolormaa

Sub-WG 3.2 Regional DRR Education

► **Activity 3.2.1** Developing a comprehensive work plan for DRR education and awareness-raising; Improve educational and awareness-raising efforts

► **Activity 3.2.2** Developing DRR education and awareness-raising materials, and conduct training in selected regions

► **Activity 3.2.3** Refining the educational program of the Disaster Protection Training and Methodology Center

► 2

Sub-WG 3.2 Progress of Activities

Activities	Sub-Activities	Year	2017					2018					2019				
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
3.2.1	To develop comprehensive work plan for disaster risk reduction and disaster preparedness in Mongolia	Plan															
3.2.1.1	To conduct national organization about a comprehensive and coordinated	Plan															
3.2.1.2	To explore treatment for DRR in local government management	Plan															
3.2.1.3	To establish highly message	Plan															
3.2.1.4	To create a model for the cooperation and action plan with existing one in other countries	Plan															
3.2.2	To develop materials for the training on disaster risk reduction education and taking awareness and expansion the training for the target groups in all areas	Plan															
3.2.2.1	To create training materials of	Plan															
3.2.2.2	To discuss and prepare training materials	Plan															
3.2.2.3	To improve training of thematic materials	Plan															
3.2.2.4	To improve training materials	Plan															
3.2.2.5	To improve training materials	Plan															
3.2.3	To refine and improve educational and training program for emergency disaster prevention and administration program in Mongolia	Plan															
3.2.3.1	To analyze and consider a plan proposal for the training center	Plan															
3.2.3.2	To analyze and consider a plan proposal for improvement of training center	Plan															
3.2.3.3	To support procurement of equipment	Plan															
3.2.3.4	To improve and consider a plan proposal for the training center	Plan															
3.2.3.5	To support training program	Plan															
3.2.3.6	To support training program	Plan															
3.2.3.7	To support training program	Plan															
3.2.3.8	To support training program	Plan															

Activity 3.2.1 Developing a comprehensive work plan for DRR education and awareness-raising

- A comprehensive planning system for DRR education and awareness-raising activities and providing DRR training information has been developed and placed on the www.ontsgoisur.gov.mn website.
- Online and classroom-based training for this system was organized for a total of 78 executives and specialists of disaster prevention departments of the 21 aimags and 9 districts; as well as members of the Disaster Prevention and Awareness-Raising team.
- The comprehensive planning system will become operational on February 1st, 2019.



4 |Public information page



Training in session



Activity 3.2.3: Developing training materials for the DPTMC and organizing training

- Earthquake experience simulation room: Developing earthquake information boards
- Earthquake experience simulation room: Developing a miniature model for an earthquake-resistant building
- Children's room: Developing training materials for the earthquake self-defense training corner

Earthquake Information Boards

- > General understanding of earthquakes
- > Information on the type of earthquake to be simulated on the platform, and its destructive effects
- > Information on preparedness such as fixing furniture in place



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Activity 3.2.3: Developing training materials for the DPTMC and organizing training

Developing a miniature model for an earthquake-resistant building (masonry and PC building)

>After experiencing a simulated earthquake on the earthquake platform, the trainee can learn about the importance of the strengthening of buildings by comparing the effects of earthquakes on strengthened and non-strengthened buildings.



6

Children's room: earthquake protection training corner

> Training tools and materials for the children's room will be developed through a World Vision project, and this activity is currently being coordinated with the JICA project. → A WG dedicated to developing training tools for children has been created.

Children's room planning (at present):

1st section: Mini-theater

2nd section: A space which represents the inside of a home

(1. Earthquake protection training corner, 2. Fire protection, 3. Smoke protection, 4. Household accident prevention training corner)

> Software tools which provide children with the opportunity to learn through playing and experiencing are being developed for the earthquake protection training corner (activity of our project).



7

Further Plans

Activity 3.2.1 Developing DRR education and awareness-raising plans	Place the schedule and planning of DRR education and awareness-raising activities on the www.ontsgoisur.gov.mn website under the 4W format	Activity completed
Activity 3.2.2 Developing DRR training and awareness-raising materials and conducting training in selected regions		Activity completed
Activity 3.2.3 Refine the education program of the DPTMC and develop training tools and materials	① Develop earthquake information boards and miniature building models for the earthquake experience simulation room ② Determining the contents of the DPTMC children's room, and developing the relevant tools and materials	February 2019 Around March 2019

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THANK YOU FOR YOUR ATTENTION!

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Annex 4: Working Group Member List

The Amended Member List of Working Groups (6th JCC)

“XXX”: Withdrawal from WG after the 6th JCC

“XXX”: Nomination for WG after the 6th JCC

“XXX”: Change of organization after 6th JCC

Working Group (WG)		Sub-WG	Member
WG1	Disaster Management Plan WG1 Coordinator: D.Bazarragcha Disaster Risk Management Department, NEMA	Risk Assessment Guideline	D.Serjmyadag Disaster Research Institute, NEMA D.Bazarragcha Disaster Risk Management Department, NEMA B.Batbayar Disaster Risk Management Department, NEMA B.Khishigbaatar Disaster Operation Department, NEMA
		Disaster Management Planning Guideline, Preparedness Planning Guideline and Risk Management Guideline	B.Bayanmunkh Policy Coordination and Cooperation Department, NEMA B.Myagmardorj EMDC Ch.Otgontugs Fire Department, NEMA B.Khishigbaatar Disaster Operation Department, NEMA
		Agreements	B.Duvshin Disaster Risk Management Department, NEMA T.Bilguun Policy Coordination and Cooperation Department, NEMA
		White paper	O.Tsend-Ayush Disaster Prevention Department, NEMA
		Database Guideline	B.Purevnyam Disaster Operation and Early Warning Command Center, NEMA D.Bayarbaatar Disaster Operation and Early Warning Command Center, NEMA D.Sodnomragcha Spatial Information and Technology Division, NEMA B.Boldkhuu Disaster Operation and Early Warning Command Center, NEMA
WG2	Seismic Resistance WG2 Coordinators: L.Bilegjargal MCUD	Seismic Diagnosis of Buildings	L.Bilegjargal MCUD N.Ganchimeg General Agency for Specialized Inspection N.Tamir Master Planning Agency of Capital City, Construction Quality and Safety Department G.Saruultuya Construction Development Center S.Munkhdul Construction Development Center T.Galbadrakh Finance and Logistics Department, NEMA O.Bayarbaatar MCUD B.Bayardulam Land Management, Geodesy and Cartography Agency, MCUD
		Seismic Diagnosis of Infrastructures and Lifelines	L.Bilegjargal MCUD N.Ganchimeg General Agency for Specialized Inspection B.Munkhsaikhan General Agency for Specialized Inspection O.Bayarbaatar MCUD

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Working Group (WG)		Sub-WG	Member
		Design for Seismic Strengthening	L.Bilegjargal MCUD N.Ganchimeg General Agency for Specialized Inspection N.Tamir Master Planning Agency of Capital City, Construction Quality and Safety Department G.Saruultuya Construction Development Center S.Munkhdul Construction Development Center O.Bayarbaatar MCUD Ts.Khulan Master Planning Agency of Capital City, Construction Quality and Safety Department
WG3	DRR Education WG3 Coordinator: D.Munkhbat Disaster Prevention Department, NEMA	School DRR Education	J.Myagmar MECSS Ch.Gantsetseg MECSS P.Baljinnyam MECSS G.Mongolkhatan Education Research Institute, MECSS B.Erdenechimeg Education Research Institute, MECSS A.Enkhtogtokh Education Research Institute, MECSS G.Khaliun Education Research Institute, MECSS N.Munkhbayar Institute of Teachers' Professional Development (ITPD), MECSS D.Munkhbat Disaster Prevention Department, NEMA Disaster Protection Training and Methodology Centre, EMDC G.Enkhtsolmon Disaster Prevention Department, NEMA
		Community DRR Education	D.Munkhbat Disaster Prevention Department, NEMA Disaster Protection Training and Methodology Centre, EMDC D.Bat-Erdene Disaster Prevention Department, NEMA B.Uuriingegee EMDC B.Chinbat EMDC D.Dulamsuren Public Information Center, Disaster Prevention Department, NEMA S.Doljinsuren EMDC B.Ariunchimeg National Center for Long life Education



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Annex 5: Question and Answers in the JCC meeting

Record of Question and Answer in the 7th JCC Meeting

1. Amendment of Working Group Member

D. Munkhbat, Disaster Protection Training and Methodology Centre, EMDC:

Let us discuss amendment of working group (WG) member based on the latest list of WG member.

In terms of changes in WG compositions, Major Khishigbaatar of the Disaster Operation Department has replaced Lieutenant Colonel Battulga who was transferred to the Emergency Management Department of Govi-Altai aimag.

In WG2, G.Saruultuya was replaced by S. Munkhdul.

In WG3, Lieutenant Colonel D. Munkhbat's position has changed from Head of the Disaster Prevention Department of the NEMA to the Training Manager at the Disaster Protection Training and Methodology Center of the EMDC. However, D. Munkhbat will continue the WG3 activities as the WG3 member.

Are there any objections or comments about the latest member for each WG? Since there is no objection from JCC member, the latest list of WG member has been approved.

2. Progress of Procuring Equipment of Earthquake Simulation Experience for Disaster Protection Training and Methodology Centre (hereinafter referred to as "DPTMC")

Mr. Owada, Project Manager, JICA Expert Team:

I would like to clarify once again that the deadline for installing the equipment is drawing near. Please install the switchboards, safety fence and steps on time. The portal crane needs to be moved into the training room and hand lift jack need to be ready by February 11th.

D. Batsaikhan, Director of Disaster Prevention Department, NEMA:

Equipment installation has been delayed due to maintenance and repair work, which has been completed in December 2018. The DPTMC will be responsible for procuring the hand lift jack by February 11, 2019.

DPTMC will prepare two sets of hand lift jack by February 11th.

The portal crane will be placed in the room on February 11th and withdrawn on February 18th; these activities will be handled by the company of Chansaa.

The switchboards will be installed by February 4th, and the wiring will be completed on February 11th; this will also be handled by Chansaa.



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Chansaa will also handle the installation of the safety fence and steps on February 18th, 19th soon after installation of the equipment.

The installation of the equipment will be handled by Head of the EMDC Training Center Colonel Khurelbaatar and Major Galbadrakh of the Finance and Logistics Department of NEMA, along with the management team of the executing company. We expect the work to be completed on time.

Mr. Owada, Project Manager, JICA Expert Team:

Thank you for your comments. We are clear on the work to be done. We understand that waterproofing will be conducted after installing the earthquake simulation experience equipment. Will the waterproofing of the basement floor be completed before it rains? When is the work due?

D. Batsaikhan, Director of Disaster Prevention Department, NEMA:

The water stop boards on slab foundation will be installed soon after installation works on the simulation equipment with a responsibility of DPTMC. Waterproofing of the basement floor is planned with the budget allocation of maintenance in 2019 to start at the end of March and be completed in May by Chansaa.

Mr. Owada, Project Manager, JICA Expert Team:

We understand that water stop boards will be installed directly after the equipment is installed and that waterproofing of the basement floor will be completed by May.

D. Batsaikhan, Director of Disaster Prevention Department, NEMA:

That is correct.

3. White Paper

D. Batsaikhan, Director of Disaster Prevention Department, NEMA:

Mongolia's the first Disaster Risk Reduction (DRR) White Paper was issued in 2018 and is planned to be issued every year. The 2019 edition is included in NEMA's working plan of 2019 year. The White Paper is expected to be ready by April, 2019. The structure and content of the White Paper as well as the English and Mongolian translations, the number of copies to print and related expenses need to be discussed beforehand.

L. Sayana, Advisor to the Deputy Prime Minister:

Good day to everyone. I'd like to talk about the White Paper. First of all, thank you and congratulations for the Project members for developing Mongolia's first DRR White Paper with JICA's support. Secondly, the Deputy Prime Minister receives White Papers of other countries and we can see what the best practices in other countries are and what can be applied in Mongolia. We have also seen that it is possible to introduce Mongolian experiences to the world as best practices. For example, during the Asia Partnership Meeting held in Thailand in December 2018. We have presented the guideline approved by the Deputy Prime Minister that



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all Mongolian commercial entities need to develop and follow a DRR plan. When we presented this, representatives from other countries have noted that they do not have such guidelines. Therefore, we propose sending our White Paper to our partners in other countries. We have just received Japan's White Paper, and we hope we can do the same in sending ours to our partners each year.

J. Myagmar, Director, MECSS:

The education sector in Mongolia faces many challenges in terms of preparing manuals, training materials and human resources, and teaching trainees to protect themselves and others according to "The program for Life Safety Education". However, with the continued support of the JICA Project, the preparations of human resources at the national and regional level are progressing well. Still, there is insufficient teaching materials for fully disseminating White Paper and Life Safety Education knowledge in all regions of Mongolia. As mentioned before, we cooperate with organizations such as World Vision in this matter. We believe that, based on the experiences of last year's White Paper, we should develop the White Paper in an easily understandable manner and focus on the distribution so that anyone can access the information to the White Paper. There are around 800 secondary schools, 1,300 kindergartens and around 900,000 people in them. If we focus on looking for effective distribution channels to share the White Paper and other training materials with them, whether through CDs or online, schools can easily update their DRR knowledge each year and our efforts will be more effective.

Mr. Goto, Director, Global Environment Department, JICA Headquarters:

Thank you so much for the comments. We agree with the previous comments on sharing Mongolian experiences with other countries. In relation to Ms. Myagmar's comments, the DRR White Paper is a tool for providing DRR information to citizens and we agree that it is correct for the education sector to use it; however, the White Paper should not only mention success stories but also opportunities for further improvement.

D. Munkhbat, Disaster Protection Training and Methodology Centre, EMDC:

Next item on the meeting agenda is the schedule of the next JCC meeting.

Mr. Sakurazawa, Global Environment Department, JICA:

Sorry, before discussing the schedule, I would like to say a few things about future project activities. As you can see, the handed out sheet to you shows the current state of the project, then the expected results of project efforts, and finally the realized impact of the project's efforts. The Project is going successfully thanks to your efforts. However, there is only 10 months left until the project period is over. Therefore, we need to focus on the coordination between outputs 1, 2 and 3, how they contribute to the main goals of the project, and how sustainable they are. I believe that it would be good to discuss these matters in the 8th JCC. The main goals of the project are not expressed quantitatively. So, we should also discuss expressing them through the Project Design Matrix (PDM) in the 8th JCC.

G. Ariunbuyan, First Deputy Chief, NEMA :

A large, stylized handwritten signature in black ink is positioned in the bottom right corner of the page. Below the signature, the initials 'U.B.' are written in a smaller, simpler hand. To the right of the initials, there are two small, circular marks, one of which appears to be a circled number '9'.

Thank you so much for the comment. The activities are progressing well toward the main goal. I agree that the three outputs need to be coordinated, and that this project can be a good leverage for improving DRR, especially earthquake DRR, in Mongolia. I believe that disseminating DRR knowledge through educational institutions to the public is a key factor in the sustainability of the project results. Secondly, seismic diagnosis and evaluation guidelines are being used in practice and I expect that there will be an opportunity to evaluate the results of the risk evaluation guidelines. I hope the relevant organizations keep this in mind during their activities, and collaborate with each other.

4. Schedule of Next JCC Meeting

D. Munkhbat, Disaster Protection Training and Methodology Centre, EMDC:

The next meeting will be held in June 2019. Do you have any comments on this schedule?

Mr. Goto, Director, Global Environment Department, JICA Headquarters:

We agree with the 8th JCC being held in June, 2019. Regarding the 9th JCC, the 9th JCC will be the final one, it could be in November, 2019 according to the project schedule.

G.Ariunbuyan, First Deputy Chief, NEMA

We agree to that.

5. Other Comments

L. Sayana, Advisor to the Deputy Prime Minister:

First of all, many thanks to project members and Mr. Owada's team for implementing project activities successfully and on time. I would like to give my own comments on some of the issues discussed.

First, I'm pleased that the earthquake simulation experience equipment will be installed soon at the DPTMC. The Standing Committee of the Government of Mongolia on Earthquake Disaster Prevention holds a meeting once per period; furthermore, according to resolution 76 of 2017 issued by then-Deputy Prime Minister Khurelsukh, the third week of March of each year will be Earthquake DRR Awareness Day. This year, that day falls on March 20th and we have discussed with NEMA about organizing the Standing Committee meeting at the DPTMC and present the new equipment; so please keep this in mind.

Standing Committee members are comprised of crucial decision makers who are directly involved in earthquake DRR policy. Therefore, I suggest we conduct preparation of this important meeting with that in mind. The Deputy Prime Minister's office and NEMA will also focus on press coverage regarding the implementation of the project.

Secondly, on January 17th, Brigadier General Ariunbuyan and I have participated in the 24th anniversary of the Hanshin earthquake in the International Recovery Platform in Kobe. During that time, we have presented this JICA project. We have also met with JICA representatives



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and have reached an agreement to provide support to each other on all sides for the continued success of this Project. The governors of Huvsgul and Darkhan-Uul aimags have joined us in this trip and I would like to mention that they have started a partnership with Hyogo prefecture in all sectors, one of the being earthquake DRR, as discussed with the deputy governor of Hyogo prefecture.

In relation to this, Darkhan Uul aimag has decided to donate a ger to the Disaster Prevention Research Center of Hyogo prefecture. Now the ger is placed in the Disaster Prevention Research Center and has become a symbol of our cooperation for the nearly 500,000 visitors that come each year.

Thirdly, I would like to present Mongolia's participation in the Geneva Global Platform to be held in May, 2019. The Deputy Prime Minister will participate as a keynote speaker and will present Mongolian Government policies.

I have a couple more comments related to the project. Firstly I would like to express the gratitude of the Deputy Prime Minister for providing the seismic diagnosis equipment. I propose cooperating with building associations for the training related to this equipment, because although you are currently working with engineers, the chief executives of construction companies are members of building associations, and therefore it would be beneficial to present this training to key company decision makers. All construction companies and experts use the website barilga.mn. My good friend is the owner of the website and could be a good channel to provide exposure to our project. Please let me know if you have any ideas, as we are ready to cooperate.

Finally, since you are conducting training for teachers within the scope of the project, you can cooperate with the Education Research Institute (ERI) closely in order to further strengthen the capacity of teachers. The director of the institute is also my friend and there is an opportunity to include the project's programs into their curricula.

Thank you so much for your efforts and I wish you success in the next period.

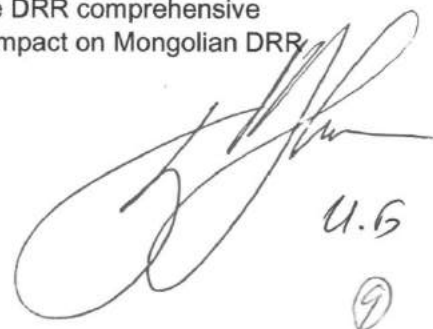
Ms. Yoshino, JICA Mongolia Office, JICA:

Thank you for your active support for the project as ever. We appreciate your comments and noted well. Together with the Embassy of Japan in Mongolia, JICA is planning to organize a handover ceremony of the Earthquake Simulation Experience Equipment on the Earthquake DRR Awareness Day on March 20, 2019. So, let us communicate further how we can organize both events together. We also agree on including the press during this event to increase awareness of our activities.

6. Closing Remarks

D. Batsaikhan, Director of Disaster Prevention Department, NEMA:

Dear JCC and WG members. The 7th JCC has been successfully held on schedule. Thanks for the WG members and counterparts for attending. The DRR White Paper has been ready, guidelines have been developed, agreements were made, and the DRR comprehensive program has been developed; all of which will have an important impact on Mongolian DRR.



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activities in the future. Within the framework of the project, guidelines for developing DRR plans are being implemented in Darkhan-Uul and Umnugovi aimags as well as Bayanzurkh and Bayangol districts. Since various DRR training programs are planned for the second period of 2019, I am looking forward to the finalization of these guidelines.

The opening ceremony of the earthquake experience simulation equipment will be organized in cooperation with NEMA, MECSS, MCUD, GASI, the Japanese Embassy and JICA.

NEMA and JICA need to further strengthen cooperation in order to complete the tasks presented in today's JCC meeting.

The 8th JCC meeting will be held in June, 2019. I wish you all success in the Project.

D. Munkhbat, Disaster Protection Training and Methodology Centre, EMDC:

Thank you so much for attending the 7th JCC. I hereby announce the closing of today's meeting.

---oOo---



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**MINUTES OF MEETING
ON
THE EIGHTH 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 eighth meeting on June 5, 2019 from 10:00 to 12:00, at Conference Room of National Emergency Management Agency (hereinafter referred to as "NEMA"), Ulaanbaatar, Mongolia, chaired by Mr. Tsogtbaatar Ganzorig, Deputy Chief, Colonel, NEMA on behalf of chaired by Mr. Badral Tuvshin, Chief and Major 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 5, 2019

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Ms. Eriko Tamura
Chief Representative
Mongolia Office
Japan International Cooperation Agency
Japan



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

大和田清隆

Mr. Kiyotaka Owada
Team Leader
JICA Expert Team
Japan



Mr. Batkhoo Idesh
Director General
Development Financing Department
Ministry of Finance, Mongolia

ATTACHED DOCUMENT

1. Progress of Activities for each Working Group

The representatives of each Working Group (hereinafter referred to as "WG") member explained the current progress of WG activities based on the presentation documents as shown in the Annex 3. JCC members understood the progress and outputs of WG activities, existing issues and activities plan toward completion of the project by November 2019.

2. 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") 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 seventh JCC on February 1, 2019 in order to respond to changes in members' positions and conduct more effective WG activities. JCC members agreed about the amended member list of WG as shown in the Annex 4.

3. Amendment Objectively Verifiable Indicators for Overall Goal and Project Purpose in Project Design Matrix.

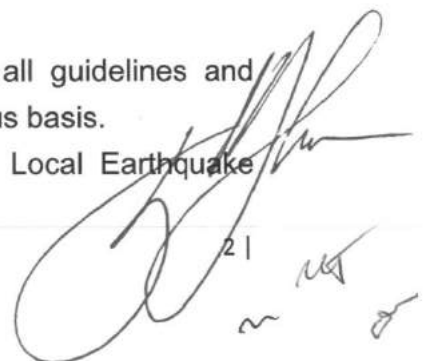
Japanese side proposed amendment of objectively verifiable indicators for Overall Goal and Project Purpose in Project Design Matrix (hereinafter referred to as "PDM") in consideration of actual status of exiting WG activities and how to measure sustainable and long-term utilization of expected outcomes of the Project. Then, Japanese side explained proposed amended and added indicators shown in Annex 5.

There was no objection to amendment and addition of the indicator for Overall Goal and Project Purpose from Mongolian side, and JCC members agreed with proposed indicators.

4. Confirmation of Required Activities toward the Achievement of Indicators in Project Design Matrix

Both Japanese side and Mongolian side confirmed the latest progress toward the achievement of the Project Outputs based on Annex 6. Then, following activities should be implemented to reach the Project Outputs.

- ◇ To keep on making efforts to get the approval of all guidelines and manuals formulated in the WG1 activity on a continuous basis.
- ◇ To make special efforts to get approval of revised Local Earthquake

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Disaster Protection Plans which are being developed through the pilot activity and to identify a plan of nationwide dissemination of revision work of other local plans and a division of NEMA in charge of this work.

- ◇ To secure enough human resources in NEMA in order to keep a sustainable utilization of all outcomes for each WG activity including establishing the system to make and utilize the DRR white paper even after the end of the Project and operation and management of spatial information system for DRR.
- ◇ To establish the system to make in use of the civil training center continually for disaster education after the end of the Project.
- ◇ To establish methods and systems for monitoring achievement of new indicators for Overall Goal of the Project.

5. Preparation of Project Completion Report (hereinafter referred to as "PCR")

Japanese side explained the schedule for preparing the PCR toward the end of the Project in November 2019 and requested to cooperate on discussion and work well together in this reporting work. Mongolian side agreed with this matter. By the end of August, PCR first draft should be made by the project team and the content of PCR should be confirmed and agreed on by Japanese side, Mongolian side and JICA in the 9th JCC.

6. Next JCC meeting and Seminar

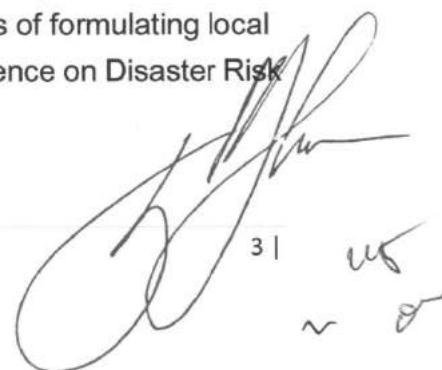
Both side agreed that the next (9th) JCC meeting and Seminar for announcement of the Project's accomplishments will be scheduled in November 2019. The final review of the PCR and progress of activities as noted above (4. Confirmation of Required Activities toward the Achievement of Indicators in Project Design Matrix) will be main topic of discussion in the 9th JCC meeting.

7. Question and Answer on the JCC

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

8. Others

Mongolian side agreed to announce the Project's accomplishments actively after the end of the Project and consult with Japanese side continually about the presentation of the Project's achievements including progress of formulating local disaster risk reduction plans in 2020 Asian Ministerial Conference on Disaster Risk Reduction held in Brisbane, Australia in June 2020.

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Annex 1: List of participants

Annex 2: Agenda of the JCC meeting

Annex 3: Presentation documents for the progress of Activities for each Working Group

Annex 4: Working Group Member List

Annex 5: Amendment of Objectively Verifiable Indicators for Overall Goal and Project Purpose in Project Design Matrix

Annex 6: Progress toward the achievement of Project Outputs

Annex 7: Question and Answer in the JCC meeting

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

Date: 2019/6/5

Place: NEMA Conference Room (1st Floor)

Title of Meeting: 8th Joint Coordination Committee (8th JCC)

Name	Position, Organization	E-mail/ Tel	Signature
T. Badral Ts. Ganzorig	Chief, Major General, NEMA		
L. Sayana	Advisor in charge of Emergency Management of Deputy Prime Minister		
S. Magnaisuren	State Secretary, Ministry of Construction and Urban Development		
D. Batsaikhan	Director, Disaster Prevention Department, NEMA		
Yo. Jargalsaikhan	Referent of National Security Council		
L. Ulziibayar	Director, Policy Coordination and Cooperation Department, NEMA	39165534 ulziibayar@nduco.gov.mn	
D. Jargal	Director, Infrastructure and State Inspection Department, General State Inspection Agency	d.jargal@gsia.gov.mn	
T. Batkhuu	Director, Development Financing and Debt Management Department, Ministry of Finance		
J. Myagmar	Director, Division of Preprimary and Primary Education, Ministry of Education, Culture, Science and Sports	jmyagmar@mecs.gov.mn	
P. Bayarkhuu	Vice Mayor of the Capital City in charge of Urban Development		
N. Ulambayar	Director, Emergency Management Department of the Capital City (EMDC)		
G. Enkhtuya	Director, Construction Quality and Safety Division, Master Planning Agency of Capital City	99016177 enkh@yaka.gov.mn	
Eriko Tamura	Chief Representative, JICA Mongolia office	tamura.eriko@jica.go.jp	田村 211子
Makiko Inamori	Project Formulation Advisor, JICA Mongolia Office	Inamori, Makiko2@jica.go.jp	稲森 真希子
Ch. Munkhmanlai	Program Officer, JICA Mongolia office	chibay.munkhmanlai@jica.go.jp	
Fumiya Niwa <Observer>	Second Secretary for Economic relation and ODA Program, Embassy of Japan in Mongolia		

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

Date: 2019/6/5

Place: NEMA Conference Room (1st Floor)

Title of Meeting: 8th Joint Coordination Committee (8th JCC)

Name	Position, Organization	E-mail/ Tel	Signature
S. Munkhdul	CDC	db18888@gmail.com 89243242	
Bat-erdene. D	NEMA	eesiir2333@yahoo.com	
Bayarbaatar. D	NEMA	Bayarbaatar@yahoo.com	
Bayanmunkh. B	NEMA	byanmunkh@gmail.com	
S. Sodnomragskhua	NEMA	sodnomragskhua@gmail.com	
J. Jambileg	JET	ambileg04@yahoo.com	
N. Ganekimeg	GAGI	ganekimeg9862@yahoo.com	
O. Tsend-Aryun	NEU	tse01mgl@gmail.com	
K. Owada	JET		
Osamu NISHII	JET	nishii@oxyointer.com	
D. Odbayar	JET	odbayar@yahoo.com	
T. Hiwaki	JET	hiwaki@ocglobal.jp	
G. Dashdorj	JET	chandashdorj@gmail.com	
Tumengorol	JET	tumengorol6@gmail.com	
N. Amrajappel	JET	nineju568@gmail.com	
Y. Erdenebat	JET	erdenebat@msn.com	

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

Date: 2019/6/5

Place: NEMA Conference Room (1st Floor)

Title of Meeting: 8th Joint Coordination Committee (8th JCC)

Name	Position, Organization	E-mail/ Tel	Signature
<i>Jux - Jygsu</i>	JET	96956059	<i>JJ</i>
D. Murun	JET	99057365	<i>D. Murun</i>
T. Bolormae	JET	99736052	<i>T. Bolormae</i>

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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 8th Joint Coordination Committee (8th JCC)

Date: June 5th 2019

Time: 10:00~11:50

Venue: NEMA Conference Room

No.	Time	Agenda	Presenter
	9:50-10:00	Registration	
1	10:00-10:10 (10min)	Opening Remarks from NEMA	Mr. Ts.Ganzorig Deputy Chief, Colonel, NEMA
2	10:10-10:20 (10 min)	Opening Remarks from JICA	Ms. Eriko Tamura Chief Representative, Mongolia Office, JICA
3	10:20-10:25 (5 min)	Overview of Project Activity and Schedule	Mr. Kiyotaka Owada Team Leader, JICA Expert Team
4	10:25-10:40 (15 min)	Progress of WG1 Activity	<Sub-WG1-1 to 1-4> B.Bayanmunkh Policy Coordination and Cooperation Department, NEMA <Sub-WG1-5> D.Sodnomragchaa Spatial Information and Technology Division, NEMA
5	10:40-10:55 (15 min)	Progress of WG2 Activity	<Sub-WG2-1 to 2-3> S.Munkhdul Construction Development Center
6	10:55-11:10 (15 min)	Progress of WG3 Activity	<Sub-WG3-1> J.Myagmar MECSS <Sub-WG3-2> D.Bat-Erdene Disaster Prevention Department, NEMA
7	11:10-11:30 (20min)	Discussion and Confirmation on: - Amendment of Working Group Member - Confirmation of the Achievement of the Project Purpose based on Indicators - Discussion How to Evaluate the Achievement of the Overall Goal including items of Indicators - Schedule of Next JCC - Others	Project Coordinator, NEMA Discussion with All Participants
8	11:30-11:40 (10 min)	- Closing Remarks	Mr. D.Batsaikhan Director of Disaster Prevention Department, NEMA

Progress of the Project

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

8th Joint Coordination Committee
June

Progress toward the achievement of Project Outputs

<As of May 2019>

Project Output	Project Activity	Expected outcomes developed through the Project activity <i>Blue: Ongoing in the WG Activity, Red: Completed by WG Activity</i>		Progress toward the achievement of Project Outputs (PDR Progress (As of May 2019))
		Products (Documents / tools)	Human and Organizational Development	
1. Capacity for data collection on disaster risk reduction and coordination among related organizations will be enhanced.	1.1 To improve frameworks for disaster risk reduction by reflecting the Amended Law on Disaster Protection	<ul style="list-style-type: none"> GL on Earthquake Disaster Risk Assessment GLs on Earthquake Disaster Protection Planning (4 GLs for "National", "State", "Aimag / Soum", "Capital City / District") GL on Operation and Management of Spatial Information System for Disaster Risk Reduction Manual to Support Earthquake Disaster Protection Planning Manual to Support Conclusion of Agreements on DRR Manual to Support development of White Paper for DRR 	<ul style="list-style-type: none"> Improvement of rules and provisions by reflecting the Amended Law on Disaster Protection Capacity enhancement of NEMA, EMDC and regional EMDCs through the pilot activity based on GLs 	<ul style="list-style-type: none"> The number of guidelines, operational rules, and provisions which are developed: 3 (approved) / 9 (planned to be developed) Provided, remaining 6 documents have already been drafted.
	1.2 To strengthen cooperation among related organizations for disaster risk reduction	<ul style="list-style-type: none"> Agreements on cooperation among governmental agencies and related organizations for DRR actions (9 agreements planned to be developed) Agreements on spatial database exchange among the DRR related organizations (2 agreements planned to be developed) 	<ul style="list-style-type: none"> Capacity enhancement for conclusion of agreements and accumulation of know-how on this work Enhancement of cooperation among governmental agencies and related organizations 	<ul style="list-style-type: none"> The number of the draft of agreements developed: 11 (approved) / 11 (planned to be developed) 4 agreements have already been signed officially. The number of participants who participated in the training programs on agreements: 38 trainees (Apr. 9, 2018)
	1.3 To improve monitoring and information gathering methods for national and local disaster protection plans	<ul style="list-style-type: none"> Earthquake Disaster Protection Plans in pilot aimags and Districts (2 aimags and 2 Districts in US city) White Paper for DRR in 2017, 2018 Spatial Information System for Disaster Risk Reduction including Disaster Spatial Database 	<ul style="list-style-type: none"> Pilot Activity for local earthquake disaster protection planning in the pilot area Training program on operation and management of spatial information system for DRR intended for NEMA, EMDC and regional EMDCs 	<ul style="list-style-type: none"> White Paper for Disaster Risk Reduction (1 approved) / 2 (planned to be developed)
2. Capacity of public administration officer related with the seismic assessment and seismic strengthening for buildings will be enhanced.	2.1 To establish seismic assessment methods for buildings, infrastructures and lifelines in the country, and to implement training program on seismic assessment	<ul style="list-style-type: none"> GLs on Seismic Evaluation of Buildings (3 GLs: RC, PC and Masonry) GL on Seismic Evaluation on Infrastructures and Lifelines Manual to Support Training Program Implementation 	<ul style="list-style-type: none"> Training program on seismic evaluation on buildings, infrastructures and lifelines Training of trainers on fostering engineers who have expertise in Seismic Evaluation of buildings 	<ul style="list-style-type: none"> Guideline for seismic assessment (1 approved) / 3 (planned to be developed) The number of the participants in the training program on seismic assessment: 180 trainees (Jan. 6-7, 2018); 23 trainees (Sep. 3, 2018); 64 trainees (Nov. 12-13, 2018); Training on How to use equipment for seismic diagnosis: 31 trainees (Mar. 28 2019); Explanation of GLs: 21 trainees (May. 6-31 2019); Training of trainers
	2.2 To develop seismic strengthening guidelines for buildings in the country, and to implement training program on seismic strengthening	<ul style="list-style-type: none"> GLs on Seismic Strengthening of Buildings (3 GLs: RC, PC and Masonry) Trial Designs of Rebuilding and Strengthening Construction (8 kinds of buildings) Manual to Support Training Program Implementation 	<ul style="list-style-type: none"> Training program on seismic strengthening on buildings Training of trainers on fostering engineers who have expertise in Seismic Strengthening of buildings 	<ul style="list-style-type: none"> Guidelines for seismic strengthening (2 approved) / 3 (planned to be developed) The number of training programs on seismic strengthening: 65 (May. 1-3, 2019)
3. Implementation plan on disaster risk reduction education and awareness raising activities will be developed and	3.1 To develop a guideline for disaster risk reduction education and educational materials in kindergartens and schools, and to implement training program for instructors and teachers	<ul style="list-style-type: none"> GL titled "The Program for Life Safety Education" Guidebook for teachers to implement lessons based on the GL "The Program of Life Safety Education" 	<ul style="list-style-type: none"> Training program for the instructors of Teacher Training Institutes and experts of educational departments in local governments (Kindergarten, Primary school, Lower-secondary school) Training program for teachers by the instructors and experts who received the training program (Kindergarten, Primary school, Lower-secondary school) 	<ul style="list-style-type: none"> The number of the cases of delivering classes on disaster risk reduction based on the activities of the Project: Classes on DRR education will be delivered from Sep. 2019
	3.2 To develop educational materials for disaster risk reduction education and awareness raising activities, and to implement training program for instructors and teachers	<ul style="list-style-type: none"> DRR Training Materials for the Community Disaster Prevention and Simulation Program with related Materials in the Disaster Protection Training and Technology Center Manual to Support Training Program Implementation including the DRR training schedule 	<ul style="list-style-type: none"> Training for trainers on DRR Experience Program Pilot activity of workshops for DRR Awareness raising Enhancement of cooperation among related organizations 	<ul style="list-style-type: none"> The number of visitors in the Training Centers: Total 8,806 (2,200 students and 1,600 citizens visitors from 23 Mar. to 27 May 2019)

Progress of WG1 Activities

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

8th Joint Coordinating Committee (JCC) Meeting
June 5th, 2019

Sub-WG 1-1: Earthquake Disaster Risk Evaluation Guideline

Progress of Activities

EARTHQUAKE DISASTER RISK EVALUATION GUIDELINE (Regional Level)

Contents

1. Introduction

- 1.1. General Provisions
- 1.2. Purpose of the Guideline
- 1.3. Scope of the Guideline

2. Earthquake Risk Evaluation Methodology and Procedure

- 2.1. Terminology
- 2.2. Required Information
 - 2.2.1. Determining Earthquake Risk
 - 2.2.2. Earthquake Risk Analysis (Simplified Method)
 - 2.2.3. Earthquake Risk Analysis (Comprehensive Method)
 - 2.2.4. Earthquake Risk Evaluation

3. Developing Recommendations

4. Including Risk Evaluation Results in DRR Plans

5. Developing the Earthquake Risk Evaluation Report

2

Sub-WG 1-1: Earthquake Disaster Risk Evaluation Guideline

Developing the Disaster Risk Evaluation Guideline

Sub-WG1.1 has cooperated with the JICA Expert Team to finish developing the technical methodological section according to the structure of the earthquake disaster risk evaluation guideline. Currently, "Section 4: Including the Risk Evaluation Results in the DRR Plan" and "Section 5: Developing the Earthquake Risk Evaluation Report" are being developed. The guideline is planned to be fully developed within June 2019.

Implementation of the Disaster Risk Evaluation Guideline

The simplified method for earthquake disaster risk analysis specified in section 2.2.2 of the guideline was used to evaluate disaster risk and model damage projections in the test regions for developing earthquake DRR plans, namely: Omnogovi and Darkhan-Uul aimags.

3

Sub-WG 1-2: Guideline for Developing Earthquake DRR Plans

Progress of Activities

- ▶ The "Guideline for Developing Earthquake DRR Plans of State Authorities", the "Guideline for Developing Earthquake DRR Plans of Aimags and Soums", and the "Guideline for Developing the Earthquake DRR Plan of the Capital City" have been developed and are ready for feedback from NEMA departments. A Strategy Planning Division of the Policy Coordination and Cooperation Department is being prepared for approval by NEMA's executive committee within June 2019. In the future, the Specialized Management and Coordination Division of the Disaster Operational Department of NEMA will be responsible for the management and supervision of activities to develop earthquake DRR plans in rural areas.
- ▶ The finalization process of the "Guideline for Developing the National Earthquake DRR Plan" is currently underway.
- ▶ There is a need to discuss organizational issues relating to the task of updating the National Earthquake DRR Plan.

4

Sub-WG 1-2: Guideline for Developing Earthquake DRR Plans

Test Regions for Developing and Refining Earthquake DRR Plans

Darkhan-Uul and Omnogovi aimags

- ▶ May 2018
- ▶ September 2018
- ▶ November 2018
- ▶ January and February, 2019
- ▶ April 2019 in Darkhan-Uul, and May 2019 in Omnogovi

Bayangol and Chingeltei Districts of Ulaanbaatar

- ▶ August 2018
- ▶ September 2018
- ▶ December 2018
- ▶ January 2019
- ▶ May 2019

▶ Earthquake DRR plans for aimags will be fully developed in September 2019.

▶ Obtained feedback on the contents of the guideline, and incorporated them into the guideline.

▶ Disaster prevention and risk reduction plans are in the finalization stage.

▶ Earthquake DRR plans for capital city districts will be fully developed in September 2019.

▶ Currently obtaining feedback on the contents of the guideline.

▶ Disaster prevention and risk reduction plans are in the development stage.

Review by regional DRR committees and approval by the relevant governors.

5

Sub-WG 1-3: Cooperation Agreements

Sector	Contents	Organizations	Progress
Food	Organize stable supply of foods and water to disaster victims in evacuation places and temporary housings	NEMA-MOFALI	Agreement established on October 16, 2018.
Medicine, medical equipment	Stable supply of medicine for providing emergency medical services in regions struck by disaster	MOH-3 major pharmaceutical manufacturer and importer companies	Agreement established on November 12, 2018.
Construction materials, temporary housing	Supply of construction materials required for the immediate restoration of structures, and construction of temporary housing	MCUD- Association of Construction Material Manufacturers, Construction Association	The date for signing the agreement is being scheduled, and the agreement is planned to be established in the near future.
Clean water	Organize stable water supply at in regions struck by disaster	NEMA-Water Management Authority	The Water Management Authority approved the draft agreement. Feedback from NEMA divisions and the agreements being prepared for signing.
Road and transport	Providing road and transport means necessary for organizing search and rescue, damage mitigation, and immediate restoration activities without delay in regions struck by disaster	NEMA-MRTD	Draft agreement delivered to MRTD. The results of the Capital City Comprehensive Training held in April have been incorporated into the agreement. Draft is planned to be signed in June.

Sub-WG 1-3: Cooperation Agreements

Sector	Contents	Organizations	Progress
Fuel and gas	Providing stable fuel supply required for organizing search and rescue, damage mitigation, and immediate restoration activities in regions struck by disaster	NEMA-MRPAM	Draft agreement delivered to MRPAM. A meeting with MRPAM on the establishment of the agreement is planned for this week.
Communications	Setting up priority telephone lines during disasters, and limiting regular telephone services	Telephone companies, NEMA, CRC	CRC and telephone companies are currently studying the technical feasibility of the agreement.
Temporary housing	Utilizing school buildings as temporary housing (School buildings to be built by Japanese government grants)	NEMA (EMDC)-Education Office of UB City	Draft agreement delivered to MPACC and currently being discussed. Efforts are being made to establish the agreement in the near future.
Waste water treatment	Establish public lavatories in evacuation places and temporary housing, and organize the immediate restoration of sewage systems	EMDC-Facility Service Office of UB City	The Facility Service Office of UB City has approved the agreement. The agreement is planned to be signed in June.

Sub-WG 1-4: DRR White Paper

300 copies of the DRR White Paper was printed in English and Mongolian, and distributed to NEMA divisions, the DRI, Central and Regional Emergency Management Departments, the Education and Rehabilitation Center of NEMA, the Law Enforcement University, the National Security Committee and the DPTMC.



Sub-WG 1-4: DRR White Paper

Further Activities

- Conditions are set for annual development and publishing.
- According to the NEMA operations plan of 2019, the Disaster Prevention Department will be responsible for developing the White Paper from 2019 onwards.
- The "Manual for Developing the DRR White Paper" was developed based on the experiences and lessons learned from developing the 2017 version.
- The meeting of the WG in charge of developing the 2018 White Paper was held on January 29th, 2019. The contents and associated expenses of the White Paper were discussed during the NEMA Executive Committee meeting; and the White Paper is planned to be printed within the 3rd quarter of 2019.

1

Spatial Information System for DRR

SUB WORKING GROUP 1-5.

8th JCC
2019.6.5

2

Contents:

- ▶ Development of Guideline and Manuals
- ▶ Capacity Enhancement of Human Resource
- ▶ System Development and Database Expansion
- ▶ Challenges and Further Actions

3

1. Development of Guideline and Manuals

❖ Guideline:

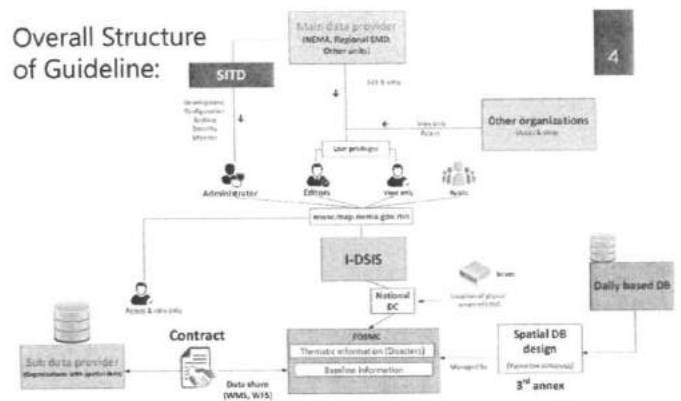
"Guideline on Operation and Management of Spatial Information System for Disaster Risk Reduction" approved by A/47 order of head of NEMA in 20th Feb 2019.

❖ Annex

- > Annex 1: Disaster code
- > Annex 2: Geospatial database design for DRR

4

Overall Structure of Guideline:



5

2. Capacity Enhancement of Human Resource

- ▶ JET and "Spatial information technology division" was jointly organized 3rd capacity enhancement technical training of spatial information system for DRR (I-DSIS) for communication and early warning staffs of 21 regional EMD in 30 April 2019. Object of training was explaining in detail about contents of approved guideline as well as introduced latest improvement of I-DSIS.
- ▶ 35 participants were participated in training.



6

2.1 Capacity Enhancement of Human Resource

- ▶ JET team and "Spatial information technology division" (SITD) jointly organized technical training on operation of spatial information system for DRR for disaster risk assessment specialists of 21 aimaqs and UB city in 22 March.
- ▶ The trainees was achieved basic operation of I-DSIS and learned how to upload results of disaster risk assessment into the disaster mapping system.

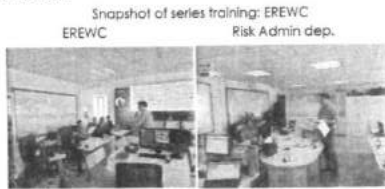


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2.2 Capacity Enhancement of Human Resource

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- ▶ Utilization of I-DSIS is not only for regional EMD but also will be needed to be utilized in Central NEMA's staffs for better emergency response, planning and policy making etc. Therefore JET and Spatial information technology division providing series of training for departments and division under the central NEMA based on their own functions.
- ▶ Here is list of departments will be trained:
 - 1. Disaster Operation & Early Warning Command Center
 - 2. Disaster Risk Management Dep.
 - 3. Fire Dep.
 - 4. Emergency response department
 - 5. Natural Resource & Humanitarian Dep.
 - 6. Disaster Prevention Dep.
 - 7. Policy Coordination & Cooperation Dep.



3. System Development and Database Expansion

8

- ▶ **Municipality of Ulaanbaatar: Urban planning and Mater planning department**
 - NEMA and "Urban planning and master planning department" were successfully made contract negotiation in 7th March 2019 for geospatial data sharing.
 - Geospatial data of Ulaanbaatar has been shared to NEMA effectively according to the achievement of contract negotiation. For this (Soil, water, plant, Environment, urban planning, engineering infrastructure, building and construction, social-economic, aerial photo etc received) building distribution data have been received with full of information with seismic evaluation data through result of passport.



3. System Development and Database Expansion

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Administration of land management, geodesy and cartography (ALMGaC):

NEMA and ALMGaC made contract negotiation in 2018.

Latest update: NEMA received 21 images building distribution data with full of information: Construction materials, design, structure, data, street, purpose, capacity etc. other as well as road and engineering infrastructure data and all data stored in I-DSIS.

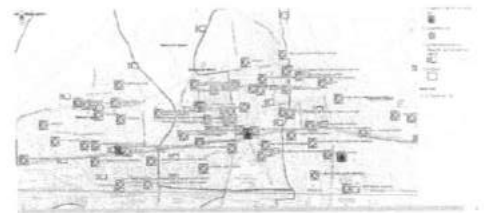
These data and information will assist better building risk assessment and disaster protection planning in NEMA.



3. System Development and Database Expansion

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- ▶ I-DSIS developed and modified according to NEMA's needs and necessity.
- ▶ Users and their access privilege will be officially approved by head of NEMA.
- ▶ During comprehensive disaster prevention training of Ulaanbaatar city in 24-26 April 2019, JET team and "Spatial information technology division" cooperatively work and created map of gathering place of citizens of Ulaanbaatar and we shared that map to social network (posts number of access and share) and websites.



4. Challenges and Further Actions

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- ▶ Following things are required for securing sustainable system operation and management.
 - A few more staffs in charge of system administrator for making redundancy of I-DSIS O&M. (System admin is an essential and vital function in order to keep a ordinary system operation and management)
 - Strong leadership by appropriate individuals and organizations in NEMA based on A/47 Order of Head of NEMA in 20th Feb 2019.
 - Gaining better understanding for I-DSIS utilization among NEMA H.Q. and Regional EMDs.
- ▶ For expanding system and database, following things are recommended.
 - Increasing the number of staffs in Spatial Information and Technology Division in order to enhance a capacity for dealing with any requests by themselves about basic system operation and spatial database utilization from regional EMDs and other departments.
 - Strengthening of hardware environment by NEMA itself for securing more stable system operation.

Thank you for your attention!
MAP.NEMA.GOV.MN

Progress of WG2 Activity

WG2

Progress Overview

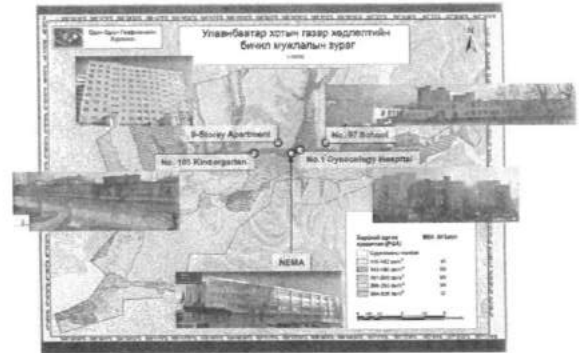
Task ID	Task Name	Status	2018											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.1.1	Development of the administrative and technical specifications	Completed	[Progress bar from Jan to Dec]											
2.1.2	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.3	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.4	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.5	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.6	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.7	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.8	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.9	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.10	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.11	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.12	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.13	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.14	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.15	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.16	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.17	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.18	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.19	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											
2.1.20	Development of the technical specifications of the buildings	Completed	[Progress bar from Jan to Dec]											

Development of Seismic Evaluation & Strengthening

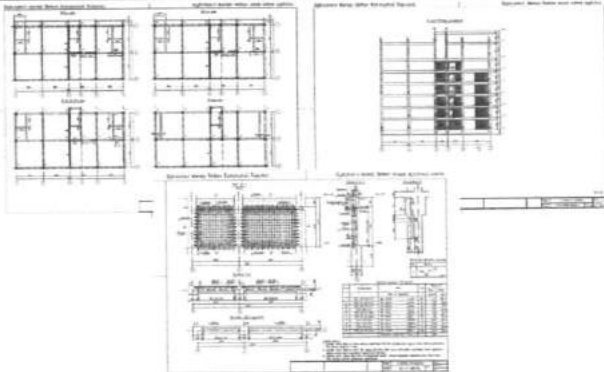
- Buildings
 - Approved by the 185 Ministerial Order of 2018.11.06 of Minister of Construction Urban Development
- Infrastructures & Lifeline Structures
 - Approved by the 174/303 Joint Ministerial Order of 2018.12.28 of Minister of Construction Urban Development and Road Transport Development.



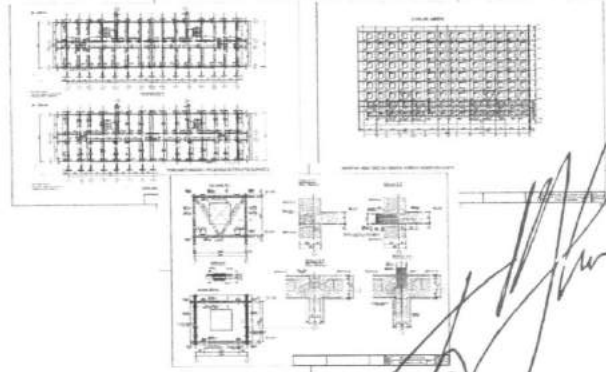
Strengthening of Model Buildings



Strengthening of Model Buildings Reinforced Concrete Building

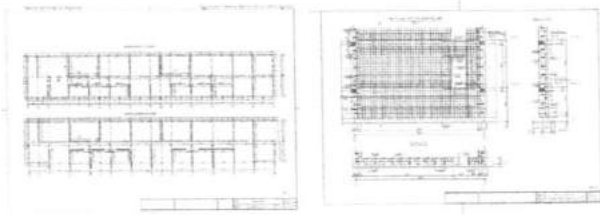


Strengthening of Model Buildings Precast Concrete Building



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Strengthening of Model Buildings Masonry Building



Training of Seismic Strengthening

- In collaboration with the MCUD, NEMA, GASI, CDC, UBMPA and MACE, WG2 organized a three-day training course on "Seismic Retrofitting Design of Existing Buildings" between 2019.5.1 to 5.3.
- 65 people including engineers from private companies participated.



Group photo at Training Center



Introduction of activity of each organization



Training of seismic strengthening

Dissemination of Technology

- Implementation of TOT
 - Transfer the technology on seismic evaluation to relevant organization through WG2 members.
- Collaboration with MACE
 - Transfer the technology on seismic evaluation and strengthening to engineers through MACE's regular training course.



TOT for NEMA



TOT for GASI



TOT for MCUD & CDC

Dissemination of Technology

	1 3	3 21	3 28	4 19	5 13	5 6	5 10	5 13	5 14	5 15
Seismic Evaluation	○	○	○	○		○	○	○	○	○
Seismic Strengthening			○		○					
TOT						○	○	○	○	
Participants	MACE	MACE	MCUD CDC	MACE	NEMA MCUD CDC UB Other	NEMA	GASI	MCUD CDC	UB	GASI

Issues & Future Activities

- Issues
 - Lack of human resources to disseminate the technology
 - Further improvement is needed to fit the Mongolian situation
 - Validation & Verification of the method
 - Lack of system to monitor the implementation of seismic evaluation and strengthening using guidelines developed in the Project.
- Future Activities
 - Building up the system to transfer the technology
 - Assignment of organization in charge
 - Collaboration with existing systems
 - Developing human resources through TOT
 - Establishment of monitoring system on status of the implementation of seismic evaluation and strengthening using guidelines developed in the Project.
 - Amendment of format of building passport used by UBMPA
 - Proposal or amendment of checklist used by GASI and other organizations
 - Assignment of personnel in charge of monitoring in NEMA

- Thank you for your kind attention!!

The 8th Joint Coordinating Committee (JCC)
Meeting of the PROJECT FOR STRENGTHENING
THE NATIONAL CAPACITY OF EARTHQUAKE
DISASTER PROTECTION AND PREVENTION IN
MONGOLIA

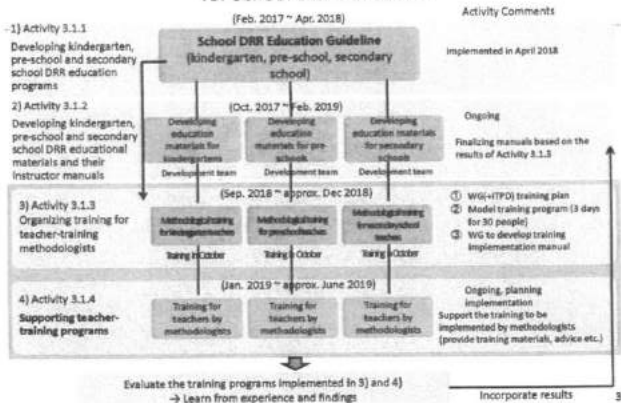
Sub-WG 3.1: School DRR
Education
Progress Report

2019.6.5

Sub-WG 3.1 Members
School DRR Education

Mongolian Side	Japan Side
MECS Myragia, J	DRR Education I Miki Kodama (Ms.)
MECS Gantsetseg Ch. Bajinyam, P	DRR Education II Wajiro Ogawa (Dr.) (till Mar. 2018)
ERI (Education Research Institute) Enkhthegsh.A. Enheechuimig, B	Seiji Suwa (Mr.) (from Apr. 2018)
ERI (Education Research Institute) Mungulkhatan, G. Hailan, G	Development of DRR Education Materials Yoko Ota (Ms.) Amargaga, N
NEMA Disaster Prevention Department Bat-Erdene, D. Enkhbolom, G	Community Disaster Management Toshiyuki Inasaki (Mr.)
ITPD (Institute of Teachers' Professional Development) N. Munkhbayer	Local Consultant Dashdorj, G. Adyanam, D
	Local Consultant Bolormaa, T. Local Staff Nyambayars, S

Output 3-1: Overall Progress of Activities Related to Training
for School DRR Education



Activity 3.1.4: Supporting Teacher Training Programs for DRR Education
(Activity 1 on the Trial Schools and Kindergarten)

Objective	Conducting model lessons on trial pre-schools, kindergartens and middle schools in order to provide methodological support to teachers who will implement the "Safety Life Skills" program. (Videos of example lessons will be recorded and included in the teacher's manual)			
Participants	Teachers of the trial, as well as nearby, schools and kindergartens; methodologists of the education departments of Songinoikhairkhan and Bayangol districts; and officials of the emergency management divisions of the districts			
Period	March 15-19, 2019			
Place	Kindergarten No. 244 and School No. 13 (primary school) School No. 42 (middle school)			
Main Activities	Kindergarten No. 244	School No. 13	School No. 42	
(1) Training for all school and kindergarten teachers	3/5 10:00~13:00	3/7 10:10~13:10	3/6 9:30~12:30	
(2) Workshop 1 for implementing the "Safety Life Skills" training program	3/11 10:00~13:00	3/12 10:15~13:10	3/11 14:00~17:00	
(3) Workshop 2	3/13 14:00~17:00	3/14 14:10~16:30	3/13 10:00~13:00	
(4) Open class	3/15 9:30~10:30 (evaluation and discussion)	3/19 10:15~11:40 (evaluation and discussion)	3/18 12:20~14:00 (evaluation and discussion)	

Activity 3.1.4: Supporting Teacher Training Programs for DRR Education
(Activity 2 on the Trial Schools and Kindergarten)



Activity 3.1.4: Supporting Teacher Training Programs for DRR Education
(Activity 3 on the Trial Schools and Kindergarten)

- Videos of activities conducted in the trial schools and kindergarten

Model lessons for implementing the "Safety Life Skills" training program

Here is a presentation of example subjects that may be taught according to the "Safety Life Skills" program.

Please view the videos of the example lessons for reference and plan your own lessons accordingly.

1 Kindergarten (middle) "Protecting Yourself from Earthquakes"	3 Kindergarten, Paper Theater: "Tomoo's Home is Safe"	5 5 th Grade, "People and Nature" Class, "Fixing Furniture to Prevent Earthquake Risk"	7 7 th Grade, Chemistry Class, "Combustion Reactions and Fire"	9 8 th Grade, Health Class, "Diseases Spread by Foods and How to Prevent Them"
2 Kindergarten (high) "Protecting Yourself from Fire"	4 Kindergarten, "Earthquake Tomoo"	6 5 th Grade, Extra-Curriculum Activity, "Building Earthquake-Resistant Buildings"	8 7 th Grade, Chemistry Class, "Combustion Reactions and Actions to Prevent Fire"	

Activity 3.1.2: Developing Training Materials
Developing the Teacher's Manual for Implementing the "Safety Life Skills" Program

- **Finalizing the Teacher's Manual**
 - 6/3~9 Expert Feedback
 - 6/10~13 Adjustments according to expert feedback
 - 6/14~ Print and distribute
- **Number of Manuals**
 - Pre-schools 50 pages·1,000 copies
 - Secondary Schools 150 pages·800 schools x 2 copies
- **Structure of the Manual: Book + DVD**



- DVD Contents**
- Example lessons for implementing the "Safety Life Skills" program
 - PPT and other materials used for training
 - "Anyone, Anytime, Anywhere is Easy" training manual
 - Be Ready!
 - Paper Theater PDF
 - Training Center Information Board PDF
 - Other training materials produced by the project

TEACHER'S MANUAL FOR IMPLEMENTING THE "SAFETY LIFE SKILLS" TRAINING PROGRAM (PRE-SCHOOL EDUCATION)

Introduction

1. Rationale for Developing the "Safety Life Skills" program
2. Contents of the "Safety Life Skills" program
3. Structure of the Manual and Points to Consider

Chapter 1: General Understanding of Disasters

1. Current Situation of Disasters
2. Disasters, Hazards and Vulnerabilities
3. Understanding Earthquakes

Chapter 2: Including DRR activities in the Curricula of Kindergartens

- 1) Relation Between the Pre-School Core Curriculum and the "Safety Life Skills" Program
- 2) Examples of Implementing "Safety Life Skills" Program Activities through Daily School Activities

Terminology
Bibliography

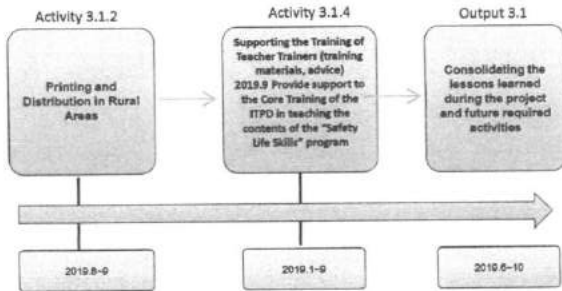
In the future, the implementation of the "Safety Life Skills" program will be tested through schools' auto-evaluation forms and student examinations on the required knowledge and skills.

Activity 3.1.2: Developing Training Materials
Developing the Teacher's Manual for Implementing the "Safety Life Skills" Program (cont.)

- **Contents of the Teacher's Manual for Secondary Schools**

Contents of the Teacher's Manual for Implementing the "Safety Life Skills" Program in Secondary Schools (Primary, Middle and High Schools)	
<p>Foreword The "Safety Life Skills" Program</p> <p>Introduction</p> <ul style="list-style-type: none"> ◊ Rationale for Developing the "Safety Life Skills" program ◊ Contents of the "Safety Life Skills" program ◊ Structure of the Manual and Points to Consider <p>Chapter 1: General Understanding of Disasters</p> <ul style="list-style-type: none"> ◊ Current Situation of Disasters ◊ Disasters, Hazards and Vulnerabilities ◊ Understanding Earthquakes <p>Chapter 2: Outline of Lessons (Primary School)</p> <ul style="list-style-type: none"> ◊ Safety in the Social Environment: Learning the Cardinal Directions ◊ Safety in the Social Environment: Climate Change ◊ Natural Hazards: Developing a Model for an Earthquake Resistant Building ◊ Earthquakes ◊ Fires <p>Chapter 3: Outline of Lessons (Middle School)</p> <ul style="list-style-type: none"> ◊ Safety at Home: Protect Your Health from Water Contamination ◊ Climate Hazards: "Let's Become Climatologists" 	<ul style="list-style-type: none"> ◊ Climate Change and Our Role in Mitigating it ◊ Natural Hazards: Protecting Yourself and Others from Earthquakes/Hazards / Preventing Lightning Hazards <p>Chapter 4: Outline of Lessons (High School)</p> <ul style="list-style-type: none"> ◊ Natural Hazards: Developing a Preparedness Plan for Household Risks ◊ Safety in the Social Environment: Preventing Cybercrime <p>Chapter 5: Contents and Methodology of Activities to Support Training</p> <ul style="list-style-type: none"> ◊ Example Planning of School Activities ◊ Objective of Extra-Curricular Activities ◊ Primary School: Contents of Extra-Curricular Activities and their Methodological Reasoning ◊ Middle School: Contents of Extra-Curricular Activities and their Methodological Reasoning ◊ High School: Contents of Extra-Curricular Activities and their Methodological Reasoning <p>Terminology Bibliography</p>

Further Plans of Sub-WG 3.1



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Sub-WG 3.2 Progress of Activities

THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA
8TH JOINT COORDINATING COMMITTEE (JCC) MEETING

June 5, 2019

Sub-WG 3-2 Members

Mongolian Side	Japanese Side
<p>D. Bal-Erdene NEMA, Head of Training and Awareness-Raising Division, Lieutenant Colonel</p> <p>D. Munkhbat Manager of the Disaster Protection Training and Methodology Center of the EMDC, Lieutenant Colonel</p> <p>B. Chinbat Senior Specialist of the Disaster Prevention and Awareness-Raising Division of the EMDC, Lieutenant Colonel</p> <p>D. Dulamsuren Head of NEMA's Public Communications Center, Lieutenant Colonel</p> <p>B. Doljinsuren Disaster Prevention Specialist of the Emergency Management Division of Bayanzurkh District, Senior Lieutenant</p> <p>B. Uurlingayee Teacher at the Disaster Protection Training and Methodology Center of the EMDC</p> <p>B. Arvanchimed Specialist at the National Center for Lifelong Education, MEDBS</p>	<p>Yoko Ota (Ms.) Development of Training Materials</p> <p>Toohikazu Hwaki (Mr.) Community Disaster Protection Training</p> <p>N. Amarjargal Development of Training Materials</p> <p>Miki Kodama (Ms.) Disaster Protection Training 1:</p> <p>Yujiro Ogawa (Dr.) Disaster Protection Training 2:</p> <p>Seiji Suwa (Mr.) Regional Specialist</p> <p>G. Dashdorj Regional Specialist</p> <p>D. Adlyanyam / T. Solomas Regional Specialist</p>

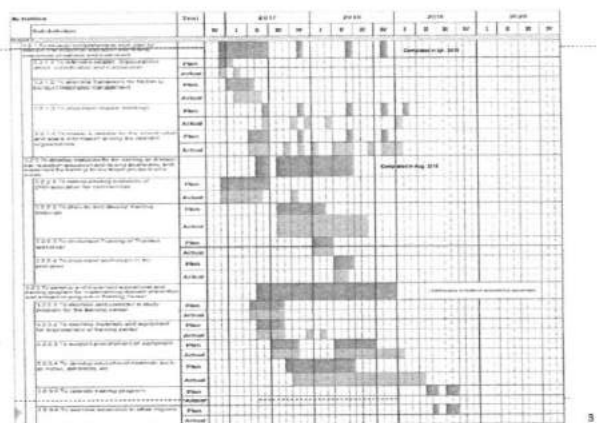
Sub-WG 3.2 Regional DRR Education

Activity 3.2.1 Developing a comprehensive work plan for DRR education and awareness-raising; improve educational and awareness-raising efforts

Activity 3.2.2: Developing DRR education and awareness-raising materials, and conduct training in selected regions

Activity 3.2.3: Refining the educational program of the Disaster Protection Training and Methodology Center (DPTMC)

Sub-WG 3.2 Progress of Activities



Activity 3.2.1 Developing a comprehensive work plan for DRR education and awareness-raising

Developing a website for disseminating information on DRR training and awareness-raising
 > A comprehensive planning system for DRR education and awareness-raising activities has been developed with its related manual and placed on the www.ontsgoisur.gov.mn website in January 2019.

> Online and classroom-based training for this system was organized for a total of 76 executives and specialists of disaster prevention departments of the 21 aimags and 9 districts; as well as members of the Disaster Prevention and Awareness-Raising team.

> The system had a trial run between February-April 2019 and was officially operational from May 2019. A total of 159 training activities were planned between February - May 20 of 2019.

> Google Analytics will be used to analyze and monitor the users of the system.



Public information page with training information on calendar Training in session Google Analytics analysis dashboard

Activity 3.2.2 Developing DRR education and awareness-raising materials, and conducting training in selected regions

DRR training for citizens was implemented through lectures using the "Be Ready"-package and the "Anyone, Anytime, Anywhere is Ready" relay race based on Japanese experience.

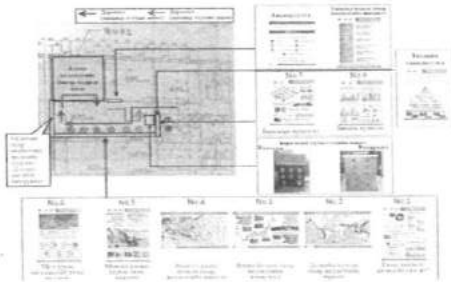
Training for Teacher Trainers: A total of 75 teacher trainers were trained in March 2018 in the Bayangol and Bayanzurkh districts of UB City and Zavkhan aimag.

Training for Citizens: A total of 200 citizens from the 23rd khoroo of Bayanzurkh district, the 2nd khoroo of Bayangol district and the Uliastai and Otgon soums of Zavkhan aimag have participated.



Activity 3.2.3: Developing training materials for the DPTMC and organizing training

- **Earthquake experience simulation room: Developing earthquake information boards and a miniature model of an earthquake-resistant building**
 - The development of the information board and miniature building model finished in March 2019 and placed in the earthquake experience simulation room of the DPTMC (location pictured).
 - Supervision will be conducted based on the number of participants in the DPTMC training.



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Activity 3.2.3: Developing training materials for the DPTMC and organizing training

- **Developing training materials for the children's room and the earthquake protection corner**
 - The Sub-WG in collaboration with World Vision developed an earthquake DRR training material for children in the form of a "table theater".
 - The table theater was used in a trial kindergarten lesson on April 24, 2019; and the Sub-WG is planning to incorporate it into the teacher's manual DVD of the Safety Life Skills program of Sub-WG 3.1.
 - 10 copies of the table theater were distributed to NEMA, EMDC, MECSS, ERI, ITPD, DPTMC and the model kindergarten of Sub-WG 3.1.



7 Earthquake DRR table theater for children Demonstration in kindergarten class Wood-framed table theater delivered to DPTMC

Further Plans

Activity 3.2.1 Developing DRR education and awareness-raising plans	Place the schedule and planning of DRR education and awareness-raising activities on the www.ontario.gov.on.ca website under the 4W format.	Activity Completed
Activity 3.2.2 Developing DRR training and awareness-raising materials and conducting training in selected regions		Activity Completed
Activity 3.2.3 Refine the education program of the DPTMC and develop training tools and materials	<ol style="list-style-type: none"> ① Develop earthquake information boards and miniature building models for the earthquake experience simulation room ② Develop materials for the children's room ③ Submit the updated training program for the DPTMC for approval by EMDC and regularly implement it in the future. 	Activity Completed Activity Completed Submitted to EMDC
Output 3 overall	<p>Assess project activities and discuss future actions</p> <ul style="list-style-type: none"> ➢ Promote the usage of the training and awareness-raising website among the Disaster Training and Awareness-Raising team, and find effective methods to inform the public of the website ➢ Finding effective ways to promote the DPTMC training programs and materials in rural areas, etc. 	June 2019

THANK YOU FOR YOUR ATTENTION!

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Annex 4: Working Group Member List

The Amended Member List of Working Groups (7th JCC)

“XXX”: Withdrawal from WG after the 7th JCC

“XXX”: Nomination for WG after the 7th JCC

“XXX”: Change of organization after 7th JCC

Working Group (WG)		Sub-WG	Member
WG1	Disaster Management Plan WG1 Coordinator: D.Bazarragchaa Disaster Risk Management Department, NEMA	Risk Assessment Guideline	D.Serjmyadag Disaster Research Institute, NEMA D.Bazarragchaa Disaster Risk Management Department, NEMA B.Batbayar Disaster Risk Management Department, NEMA B.Khishigbaatar Disaster Operation Department, NEMA
		Disaster Management Planning Guideline, Preparedness Planning Guideline and Risk Management Guideline	B.Bayanmunkh Policy Coordination and Cooperation Department, NEMA B.Myagmardorj EMDC Ch.Otgontugs Fire Department, NEMA B.Khishigbaatar Disaster Operation Department, NEMA
		Agreements	B.Duvshin Disaster Risk Management Department, NEMA T.Bilguun Policy Coordination and Cooperation Department, NEMA
		White paper	O.Tsend-Ayush Disaster Prevention Department, NEMA
		Database Guideline	B.Purevnyam Disaster Operation and Early Warning Command Center, NEMA D.Bayarbaatar Disaster Operation and Early Warning Command Center, NEMA D.Sodnomragchaa Spatial Information and Technology Division, NEMA B.Boldkhuu Disaster Operation and Early Warning Command Center, NEMA
WG2	Seismic Resistance WG2 Coordinators: L.Bilegjargal MCUD	Seismic Diagnosis of Buildings	L.Bilegjargal MCUD N.Ganchimeg General Agency for Specialized Inspection N.Tamir Master Planning Agency of Capital City, Construction Quality and Safety Department S.Munkhdul Construction Development Center T.Galbadrakh Finance and Logistics Department, NEMA O.Bayarbaatar MCUD B.Bayardulam Land Management, Geodesy and Cartography Agency, MCUD
		Seismic Diagnosis of Infrastructures and Lifelines	L.Bilegjargal MCUD N.Ganchimeg General Agency for Specialized Inspection B.Munkhsaikhan General Agency for Specialized Inspection O.Bayarbaatar MCUD

Working Group (WG)	Sub-WG	Member
	Design for Seismic Strengthening	L.Bilegjargal MCUD N.Ganchimeg General Agency for Specialized Inspection N.Tamir Master Planning Agency of Capital City, Construction Quality and Safety Department S.Munkhdul Construction Development Center O.Bayarbaatar MCUD Ts.Khulan Master Planning Agency of Capital City, Construction Quality and Safety Department
WG3 DRR Education WG3 Coordinator: D.Munkhbat Disaster Protection Training and Methodology Centre, EMDC D.Bat-Erdene Disaster Prevention Department, NEMA	School DRR Education	J.Myagmar MECSS Ch.Gantsetseg MECSS P.Baljinnyam MECSS G.Mongolkhatan Education Research Institute, MECSS B.Erdenechimeg Education Research Institute, MECSS A.Enkhtogtokh Education Research Institute, MECSS G.Khaliun Education Research Institute, MECSS N.Munkhbayar Institute of Teachers' Professional Development (ITPD), MECSS D.Munkhbat Disaster Protection Training and Methodology Centre, EMDC D.Bat-Erdene Disaster Prevention Department, NEMA G.Enkhtsolmon Disaster Prevention Department, NEMA
	Community DRR Education	D.Munkhbat Disaster Protection Training and Methodology Centre, EMDC D.Bat-Erdene Disaster Prevention Department, NEMA D.Khadbaatar Disaster Prevention Department, NEMA B.Uuriingegee EMDC D.Munkhbat EMDC B.Chinbat EMDC D.Dulamsuren Public Information Center, Disaster Prevention Department, NEMA S.Doljinsuren EMDC B.Ariunchimeg National Center for Long life Education



Annex 5: Amendment of Objectively Verifiable Indicators for Overall Goal and Project Purpose in Project Design Matrix

Amendment of Objectively Verifiable Indicators for Overall Goal and Project Purpose in Project Design Matrix (PDM) <As of May 2019>

Narrative Summary (PDM)	Objectively Verifiable Indicators (PDM)	Proposed Amendment and Addition of Objectively Verifiable Indicators
<p>Overall Goal</p> <p>Seismic risk will be reduced.</p>	<ul style="list-style-type: none"> • 1. Number of approved guidelines, rules, and provisions • 2. Number of white papers open to public • 3. Number of the executed seismic assessments • 4. Number of the seismic strengthened buildings • 5. Number of implemented activities on disaster risk reduction education 	<p>[Proposed Amendment] The formulation of Disaster Protection Plans at Regional Level will be continued by referring the guidelines developed through the activity in the Project.</p> <p>[Proposed Amendment] The White Paper for Disaster Risk Reduction will be developed every year based on the system established through the activity in the Project.</p> <p>[Proposed Amendment] The implementation of Seismic Evaluation for public facilities will be continued across the country by referring the guidelines developed through the activity in the Project.</p> <p>[Proposed Addition] The implementation of Seismic Evaluation for infrastructures and lifelines will be continued across the country by referring the guidelines developed through the activity in the Project.</p> <p>[Proposed Amendment] The fostering engineers who have expertise in Seismic Strengthening of buildings will be continued based on the system established through the activity in the Project.</p> <p>[Proposed Amendment] The implementation of School Disaster Risk Reduction Education will be continued across the country by referring the guidelines developed through the activity in the Project.</p> <p>[Proposed Addition] The Activity of Disaster Risk Reduction Education and Raising Awareness for the public will be continued across the country under NEMA's initiative based on the system established through the activity in the Project.</p>
<p>Project Purpose</p> <p>The Capacity of the National Emergency Management Agency will be enhanced through the activities for strengthening the countermeasures for seismic risk.</p>	<ul style="list-style-type: none"> • 1. The number of the approved guidelines and agreements • 2. The amount of data on disaster risk reduction which is newly established and improved 	<p>[Proposed Amendment] The number of the approved guidelines, rules, and provisions:</p> <ul style="list-style-type: none"> • Related to OUPUT 1 Activity: 3 (approved) / 9 (planned to be developed) • Related to OUPUT 2 Activity: 7 (approved) / 7 (planned to be developed) • Related to OUPUT 3 Activity: 2 (approved) / 3 (planned to be developed) <p>[Proposed Addition] The number of the Earthquake Disaster Protection Plans formulated or revised based on the guidelines developed through the activity in the Project:</p> <ul style="list-style-type: none"> • 0 (approved) / 5 (planned to be developed : National Level, 2 Aimages, 2 Districts) <p>[Proposed Amendment] Following systems for Earthquake Disaster Risk Reduction are taken root in NEMA based on the approved guidelines, rules, and provisions:</p> <ul style="list-style-type: none"> • Formulation and Revision of Regional Earthquake Disaster Protection Plan • Development of White Paper for Disaster Risk Reduction • Collection and Management of Disaster Related Information • Implementation of Earthquake Risk Assessment • Promotion of Disaster Risk Reduction Education and Awareness Raising

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Annex 6: Progress toward the achievement of Project Outputs

<As of May 2019>

Progress toward the achievement of Project Outputs

Project Output	Project Activity	Expected outcomes developed through the Project activity <i>Blue: Ongoing in the WG Activity, Red: Completed by WG Activity</i>	Human and Organizational Development	Progress toward the achievement of Project Outputs (PDM) <i>Progress (As of May 2019)</i>
1. Capacity for data collection on disaster risk reduction and coordination among related organizations will be enhanced.	1.1 To improve frameworks for disaster risk reduction reflecting the Amended Law on Disaster Protection	<ul style="list-style-type: none"> GL on Earthquake Disaster Risk Assessment GLs on Earthquake Disaster Protection Planning (4 GLs for "National", "State", "Almag", "Soum", "Capital City/District") GL on Operation and Management of Spatial Information System for Disaster Risk Reduction Manual to Support Earthquake Disaster Protection Planning Manual to Support Conclusion of Agreements on DRR Manual to Support development of White Paper for DRR 	<ul style="list-style-type: none"> Improvement of rules and provisions by reflecting the Amended Law on Disaster Protection Capacity enhancement of NEIMA, EMDC and regional EMDs through the pilot activity based on GLs 	<ul style="list-style-type: none"> The number of guidelines, operational rules, and provisions which are developed. 3 (approved) / 9 (planned to be developed) Provided, remaining 6 documents have already been drafted.
	1.2 To strengthen cooperation among related organizations for disaster risk reduction	<ul style="list-style-type: none"> Agreements on cooperation among governmental agencies and related organizations for DRR actions (9 agreements planned to be developed) Agreements on spatial database exchange among the DRR related organizations (2 agreements planned to be developed) 	<ul style="list-style-type: none"> Capacity enhancement for conclusion of agreements and accumulation of know-how on this work Enhancement of cooperation among governmental agencies and related organizations 	<ul style="list-style-type: none"> The number of the draft of agreements developed 11 (approved) / 11 (planned to be developed) 4 agreements have already been signed officially. The number of participants who participated in the training programs on agreements : 38 trainees (Apr. 5, 2018)
	1.3 To improve monitoring and information gathering methods for national and local disaster protection plans	<ul style="list-style-type: none"> Earthquake Disaster Protection Plans in pilot almag and Districts (2 almag and 2 Districts in UB city) White Paper for DRR in 2017, 2018 Spatial Information System for Disaster Risk Reduction including Disaster Spatial Database 	<ul style="list-style-type: none"> Pilot Activity for local earthquake disaster protection planning in the pilot area Training program on operation and management of spatial information system for DRR intended for NEIMA, EMDC and regional EMDs 	<ul style="list-style-type: none"> White Paper for Disaster Risk Reduction 1 (approved) / 2 (planned to be developed)
2. Capacity of public administration officer related with the seismic assessment and strengthening for buildings will be enhanced.	2.1 To establish seismic assessment methods for buildings, infrastructures and lifelines in the country, and to implement training program on seismic assessment	<ul style="list-style-type: none"> GLs on Seismic Evaluation of Buildings (3 GLs: RC, PC and Masonry) GL on Seismic Evaluation on Infrastructures and Lifelines Manual to Support Training Program Implementation 	<ul style="list-style-type: none"> Training program on seismic evaluation on buildings, infrastructures and lifelines Training of trainers on fostering engineers who have expertise in Seismic Evaluation of buildings 	<ul style="list-style-type: none"> Guideline for seismic assessment 4 (approved) / 4 (planned to be developed) The number of participants in the training program on seismic assessment 180 trainees (Jun. 4-7, 2018) 23 trainees (Sep. 8, 2018) 64 trainees (Nov. 12-13, 2018): Training on How to use equipment for seismic diagnosis 31 trainees (Mar. 28 2019): Explanation of GLs 21 trainees (May. 6-31 2019): Training of trainers
	2.2 To develop seismic strengthening guidelines for buildings in the country, and to implement training program on seismic strengthening	<ul style="list-style-type: none"> GLs on Seismic Strengthening of Buildings (3 GLs: RC, PC and Masonry) Trial Designs of Rebuilding and Strengthening Construction (5 kinds of buildings) Manual to Support Training Program Implementation 	<ul style="list-style-type: none"> Training program on seismic strengthening on buildings Training of trainers on fostering engineers who have expertise in Seismic Strengthening of buildings 	<ul style="list-style-type: none"> Guideline for seismic strengthening 3 (approved) / 3 (planned to be developed) The number of training programs on seismic strengthening : 65 (May. 1-3, 2019).
3. Implementation plan on disaster risk reduction and awareness raising activities will be developed and realized.	3.1 To develop a guideline for disaster risk reduction education and educational materials in kindergartens and schools, and to implement training program for instructors and teachers	<ul style="list-style-type: none"> GL titled "The Program for Life Safety Education" Guidebook for teachers to implement lessons based on the GL "The Program of Life Safety Education" 	<ul style="list-style-type: none"> Training program for the instructors of educational departments in local governments (Kindergarten, Primary school, Lower-secondary school) Training program for teachers by the instructors and experts who received the training programs (Kindergarten, Primary school, Lower-secondary school) 	<ul style="list-style-type: none"> The number of the cases of delivering classes on disaster risk reduction based on the activities of the Project Classes on DRR education will be delivered from Sep. 2019
	3.2 To develop materials for disaster risk reduction education and raising awareness, and to implement training program for target groups and residents	<ul style="list-style-type: none"> DRR Training Materials for the Community Disaster Prevention and Simulation Program with related Materials in the Disaster Protection Training and Methodology Center Webpage for sharing the DRR training schedule 	<ul style="list-style-type: none"> Training for trainers on DRR Experience Program Pilot activity of workshops for DRR Awareness raising Enhancement of cooperation among related organizations 	<ul style="list-style-type: none"> The number of visitors in the Training Centers Total 5,800 (2,200 students and 3,600 citizens) visitors from 23 Mar. to 27 May 2019

Annex 7: Question and Answer in the JCC meeting

Record of Question and Answer in the 8th JCC Meeting

1. Amendment of Working Group Member

Moderator, NEMA:

There have been no changes in the composition of WGs 1 and 2. However, for WG3, D. Munkhbat was replaced by D. Bat-Erdene as the WG leader. Moreover, D. Khadbaatar has been added to sub-WG 3.2 dedicated to community DRR education.

Please raise hands if your support the member changes. Thank you, I understand we agree on the member changes.

2. Discussion How to Evaluate the Achievement of the Overall Goal including items of Indicators

Mr. Kiyotaka Owada, Team Leader, JICA Expert Team:

We have approved the PDM (Project Design Matrix) at the beginning of the project. The PDM includes the Overall Goal and Project Purpose of the project; and following the project progress and results, we propose the amendments of Objectively Verifiable Indicators to evaluate more specifically the achievement of the Overall Goals. We believe it is necessary to modify these indicators in relation to the project results.

Firstly, we propose to modify the indicator of “number of guidelines approved during the project” into an indicator based on the actual usage of the guidelines while the DRR protection plans of aimags and soums are being developed.

We also propose changing the indicator for “the number of White Paper copies published” into an indicator that “the White Paper will be published on an annual basis”.

For the indicator of “number of seismic evaluation conducted”, we propose to change it into “conducting the seismic evaluation of public structures on a national scale utilizing the guidelines developed during the project”. Also, since there is no mention of infrastructure and lifelines in the indicator, we propose “conducting earthquake risk evaluation on infrastructure and lifelines on a national scale utilizing the guidelines developed during the project” as an additional indicator.

As for the indicator regarding the “number of strengthened buildings”, since the implementation of strengthening of a building largely depends on the building owner’s desire, we propose changing the indicator to “continuing the training of engineers for building strengthening according to the project”.

In terms of WG3, the current indicator is “the number of DRR training programs implemented”. However, since there is a wide variety of training programs, we propose modifying the indicator of Sub-WG 3.1 to “the school programs developed within the scope of the project will be implemented in schools and kindergartens with the related teacher’s manuals”, and the indicator of Sub-WG 3.2 to “DRR awareness-raising activities shall be implemented according to the structure produced by the results of the project”.

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As for project purpose, there is a general indicator for the number of guidelines and agreements finalized. However, we propose adding the number of earthquake DRR plans developed and amended according to the approved guidelines to make this indicator more specific.

There is also the indicator for “number of newly produced or improved DRR data”. We propose modifying this indicator by clarifying the data for each Output.

These modifications have been discussed within the SC, and we would like to present them for discussion in the JCC as well.

Moderator, NEMA:

Any question on the modifications in the PDM indicators?

Ms. Eriko Tamura, Chief Representative, JICA Mongolia Office:

Thank you for the presentation. As an additional comment, post-project evaluation will be conducted 3 years after the completion of the JICA project, and we plan to evaluate the indicators during that time.

Ms. D. Jargal, GASI:

Thank you for the presentations. I have a few comments.

Firstly, I understand that the agreements to be established by WG1 are regulations for the actions of the relevant organizations after disaster occur. Perhaps it may be beneficial to inform these relevant organizations; such as for communications, road transport and waste water treatment; on how to use these agreement beforehand.

Secondly, we would appreciate recommendations to discuss how to utilize the strengthening plans in the WG2's activity.

Thirdly, regarding the further actions to take by all WGs, some WGs have definite next steps while others seem to be facing challenges. Especially, WG2 seems to be facing challenges in implementing their guidelines as well as issues with passports. Therefore, before the project ends, NEMA must cooperate with MCUD, the Capital City Mayor's Office and GASI to issue the appropriate decisions to resolve these issues.

Fourthly, I wanted to ask if there are issues in relation to preparing teacher trainers, engineers and inspectors for the seismic evaluation of buildings in rural areas. If there are, I would like to propose paying attention to these issues.

Fifthly, in terms of temporary shelter, I believe it's important to come up with a list of temporary shelters, plan coordination with relevant organizations and obtain advice and recommendations from the Japanese side before the project ends.

Sixthly, regarding the PDM indicators, I accept the amendment because we plan to use the guidelines developed during the project for evaluating buildings, infrastructure and lifelines. For the training of engineers, perhaps an indicator based on a number of engineers to be trained would be more effective.

Finally, regarding the spacial database, there are useful data in GASI. Therefore, how will we set the conditions for GASI to utilize the data? Thank you.



Moderator, NEMA:

Thank you Ms. Jargal. Any comments?

Mr. Kiyotaka Owada, Team Leader, JICA Expert Team:

On your 6th comment, you have proposed an indicator based on the number of engineers to be trained instead of a requirement for the sustained training of engineers. Showing the number of trained engineers has a challenge that it can not be determined how many employees should be trained. However, it might be best if NEMA discusses this matter with the relevant organizations.

Mr. Ts. Ganzorig, Deputy Head of NEMA:

The changes to the PDM indicators were made through discussions among SC members on the basis of WG activities and results. In terms of setting a indicator for a precise number of engineers to be trained, it might not be appropriate to set a goal of training just a fixed number of engineers for the post-project evaluation in 3 years' time; and therefore I emphasized the sustained training of engineers for an indefinite period instead of providing a specific number of engineers to train.

In terms of the agreements, I urge WG1 members to double their efforts in finalizing them since there is not much reason for delay.

We have received the JCC comments on the PDM indicators and will take them into consideration. For now, I propose we keep the modifications to the indicators focusing on the usage of the guidelines and documents produced by the project, and request to accept this amendment.

The WG could later discuss adding quantitative indicators for the number of engineers, teacher trainers or other specialists to train.

The next item on the agenda is the date of the next JCC meeting, which will be in November 2019.

Moderator, NEMA:

Do you have any comments from project side?

3. Confirmation of the Achievement of the Project Purpose based on Indicators

Mr. Kiyotaka Owada, Team Leader, JICA Expert Team:

The next item to discuss is the progress of project activities that was explained. The items written in blue and red on the project results sheet need to be verified and confirmed.

Mr. Ts. Ganzorig, Deputy Head of NEMA:

The project results sheet shows the tasks that have been completed by each WG and the tasks that are currently in progress. Do the WGs have any comments on the sheet? If not, we will determine the work completed and the work that remains to be completed according to the sheet.

There are no comments from WGs, therefore we will determine the progress of the project according to the sheet as is.

Now let's move on to the other comments of the meeting.

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Ms. Eriko Tamura, Chief Representative, JICA Mongolia Office:

The meeting is about to close so I will sum up the main points.

Firstly, the WGs have all presented their plans but since the Naadam holidays will be coming soon and a lot of work is planned for September with less than 6 months remaining in the project, please pay attention to this timeframe and organize work effectively, especially on the agreements. If the current methods for completing the tasks are ineffective please consult with project members on the appropriate ways to move forward.

Regarding the Disaster Reduction Agreement with the Communication and Information Technology Agency, There is the priority connection has technical and institutional issues. Please consider the means to solve issues.

Secondly, I believe NEMA and other relevant organizations in the capital city and rural areas are preparing their budget for 2020. Therefore, please pay attention to including project-related items on their annual budgets in order to ensure the sustained impact of project results.

Thirdly, there is the issue of supporting the sustainability of project activities. This was a worry Chief Major General Badral expressed during our discussion. Each aimag needs to develop DRR plans, and it might be beneficial to incentivize the development of these plans and ensure their implementation by organizing inter-aimag competition on the matter. There are also a number of effective materials that have been developed for DRR education and awareness-raising; however, please focus on promoting their regular usage in teacher training institutions. Furthermore, for the DRR White Paper, it may be challenging to compile the DRR activities of an entire year, therefore a more effective and time-saving method may be to assign persons responsible for each section of the White Paper and have them gradually fill out their respective sections during the course of the year.

Finally, JICA held a safety and security conference yesterday at a conference hall where around a 100 people participated. One of the materials handed out during this conference was a map of potential earthquake temporary shelters in Ulaanbaatar, which can be valuable information for citizens. JICA has around 40 volunteer workers and around 70% of them work in rural areas along with volunteers from other organizations such as KOICA and Peace Corps. We were not able to effectively disseminate information to our volunteers in rural areas and we need to pay attention to this in the future.

NEMA has a very important mission to protect the lives of citizens, and I wish them the best of success with the time remaining in the project.

4. Preparation of Project Completion Report

Mr. Kiyotaka Owada, Team Leader, JICA Expert Team:

There is one more item to discuss before the next JCC meeting. A final report needs to be developed in relation to closing the project. The draft of the final report is planned to be prepared by the end of August. We plan to develop the PCR (Project Completion Report) based on documents adding evaluation factors; relevance, effectiveness, efficiency, impact, sustainability to the monitoring sheets produced during the project. Therefore, we will need to discuss this matter before the next JCC meeting. We understand that the next JCC meeting will be held after discussing the structure of the final report.



I have one suggestion for the next JCC meeting that is organizing an open seminar to present project results to public. I would like to discuss in detail on this seminar later on.

5. Others

Ms. Inamori.Makiko, JICA Mongolia Office:

From today's JCC meeting, it is apparent that the project is yielding certain results and it might be beneficial to raise awareness of these results outside of Mongolia. The Asian Ministerial Conference for Disaster Risk Reduction ("AMCDRR") held in Ulaanbaatar in 2018 will be held in Australia in 2020, and this might be an appropriate platform for NEMA to present the results of the project, especially DRR activities in rural areas.

Mr. Ts. Ganzorig, Deputy Head of NEMA:

You have given valuable advice, thank you Ms. Tamura. Since spring of this year, we have a specialist for DRR planning and evaluation in rural areas and we will increase our efforts in this matter. Please keep next year's AMCDRR in mind, we will take the necessary actions on our part.

Now the 8th JCC meeting is coming to an end. Our 3 WGs have worked well and shown results that are impactful. Our WG members will go on vacation soon and so will other government institutions. Therefore, all the required document approvals and the establishment of agreements, especially of WG1, will need to be completed by June, this is a special order.

6. Closing Remarks

Moderator, NEMA:

We are at the end of today's meeting. Now I invite Colonel Batsaikhan, Director of the Disaster Prevention Department of NEMA, to give closing remarks.

Mr. D. Batsaikhan, Director of the Disaster Prevention Department, NEMA:

In today's JCC meeting we have discussed the following: progress of WGs, change in WG members, objectively verifiable indicators for overall goal, modifications to PDM indicators, and required works for fulfilling PDM indicators.

The next JCC meeting in November 2019 was decided.

As a result of the project, the DRR White Paper will continue to be developed each year and made available to the public. The Disaster Research Institute of NEMA, GASI, MCUD and the Master Planning Agency of the Capital City are utilizing the equipment of diagnosis devices for seismic evaluation of buildings. Furthermore, the equipment of earthquake simulation experience has been installed in the DPTMC of the EMDC and work is being done to raise awareness of earthquake disaster prevention for public. We believe that an earthquake DRR framework has been developed in NEMA as a result of the guidelines, regulations, user manual and such materials produced during the project.



Further actions to take include: approving the guideline for developing Earthquake DRR Plans of WG1, revising regional and national DRR plans, accelerate efforts on establishing DRR cooperation agreements with related organizations and companies, and work on the early development of the final report of the project which we can then present during the 9th JCC meeting.

The open seminar to present project results to public will be held in addition to 9th JCC.

The 8th JCC meeting of the Project for Strengthening the National Capacity for Earthquake Disaster Protection and Prevention in Mongolia jointly implemented by JICA, the Government of Mongolia and NEMA hereby comes to a close. I wish you all the best of luck in your work.

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